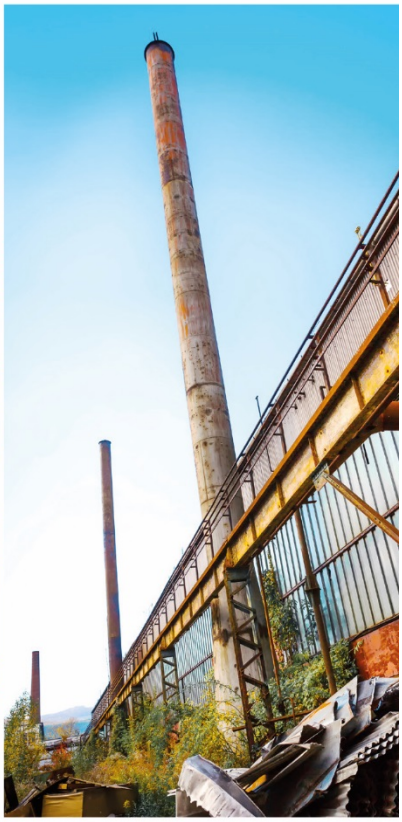
2020 Annual Monitoring Report
RCRA Corrective Action
IND 980 700 801

2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, IN
Revitalizing Auto Communities
Environmental Response Trust

Indiana Department of Environmental Management



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List of Acronyms/Short Forms

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
mg/L	milligrams per liter
AOC	Area of Concern
AOI	Areas of Interest
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene and xylenes
cis-1,2-DCE	cis-1,2-dichloroethene
CM	corrective measures
CMP	Corrective Measures Proposal
CRA	Conestoga-Rovers & Associates
DCE	dichloroethene
DO	dissolved oxygen
ENVIRON	ENVIRON International Corporation
EPA	United States Environmental Protection Agency
FEMA	Federal Emergency Management Agency
GMC	General Motors Corporation
HRC®	hydrogen release compound
ID	identification
IDEM	Indiana Department of Environmental Management
IDW	investigative derived waste
IM	interim measure
MCL	Maximum Contaminant Level
MLK	Martin Luther King Junior
NA	natural attenuation
NAVD	North American Vertical Datum
ORP	oxidation reduction potential
RACER	Revitalizing Auto Communities Environmental Response
RCGSL	Remediation Closure Guide Screening Levels
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RHHRA	Human Health Risk Assessment and Derivation of Site-Specific Risk-based Screening Levels Report
SWMU	Solid Waste Management Unit

TCE	trichloroethene
TCL	target compound list
TOC	total organic carbon
trans-1,2-DCE	trans-1,2-dichloroethene
U.S.	United States
VOC	volatile organic compound
WWTP	wastewater treatment plant

1. Introduction

GHD, on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, has prepared this 2020 Annual Monitoring Report (Report) for the RACER Trust facility located at 2915 Dr. Martin Luther King Junior (MLK) Boulevard in Anderson, Indiana (Site).

This Report has been prepared to summarize the results of groundwater and surface water monitoring conducted at and near the Site in 2020. This Report is submitted to the Indiana Department of Environmental Management (IDEM) in support of ongoing Resource Conservation and Recovery Act (RCRA) Corrective Action at the Site. The monitoring was conducted pursuant to:

- The Site-wide Groundwater Monitoring Plan (AECOM, October 28, 2010)
- Subsequent recommendations made in the 2010 Annual Groundwater Monitoring Report (AECOM, January 2011)
- Request for modifications to the Site-wide Groundwater Monitoring Plan (Conestoga-Rovers & Associates [CRA], April 2012)
- Conclusions presented in the 2013 Annual Groundwater Monitoring Report (CRA, February 2014)
- Recommendations made in the 2014 Annual Groundwater Monitoring Report (CRA, February 2015)
- Recommendations made in the 2016 Annual Groundwater Monitoring Report (GHD, January 31, 2017)
- Recommendations made in the 2018 Annual Groundwater Monitoring Report (GHD, January 31, 2019)
- Recommendations made by IDEM from 2015 through to 2020

1.1 Objectives

The Site-wide groundwater monitoring program is intended to be implemented concurrent to the final corrective measures (CM) at the Site. As such, the primary objectives of the Site-wide groundwater monitoring are to:

1. Evaluate the effectiveness of the CM, if any, for groundwater
2. Monitor the stability of the two volatile organic compound (VOC) groundwater plumes

As the final corrective measures includes long-term monitoring of groundwater quality, this Report has been prepared to summarize the 2020 groundwater monitoring activities and review of the 2020 analytical data. As appropriate, this Report supplements findings of the Final RCRA Facility Investigation (RFI) Report (CRA, June 2014) and the previous annual groundwater monitoring reports (Earth Tech, Inc. and ENVIRON International Corporation [ENVIRON], January 31, 2007; Earth Tech, Inc., January 31, 2008; AECOM, February 27, 2009, April 26, 2010, January 31, 2011, and January 31, 2012; CRA February 2013, January 2014 and February 2015; GHD January 2016, January 2017, January 2018, and January 2019). It is noted that the historical information in this

Report is largely cited from the 2011 Annual Groundwater Monitoring Report (AECOM, 2012), prepared by others.

2. Groundwater Monitoring Overview

2.1 Site Description

The Site is located in the northwest quarter of Section 23, T19N, R7E, on the southwest side of Anderson, Madison County, Indiana. Formerly the Site was comprised of approximately 3,000,000 square feet of manufacturing operations situated on 234 acres. MLK Boulevard divides the Site in a north-south direction. General Motors Corporation (GMC) previously conducted automotive parts manufacturing operations in plants on both sides of MLK Boulevard. The former east manufacturing areas (Plants 6 and 9) are bounded by MLK Boulevard on the west, by a railroad on the south, by 29th Street on the north, and by Madison Avenue on the east. The manufacturing facilities west of MLK Boulevard, referred to as the Main Plant, were bounded on the west, south and southeast by railroad tracks, and on the north by 25th Street. Facility parking areas were located west of the westernmost railroad, and north of 25th Street. Formerly developed areas of the property were largely covered with asphalt or concrete. Land use surrounding the Site varies from residential and commercial on the north and east, residential and recreational on the south, and residential and agricultural on the west. A small public-access park is located in the northwest part of the Site. The Meadowbrook Golf Course is located southeast of the Site. A Site location map is provided on Figure 1 and a Site plan is provided on Figure 2.

GMC began operations at the MLK Boulevard facility in 1929. Manufacturing plants were expanded several times, generally proceeding from the north end of the Main Plant southward and eastward. East of MLK Boulevard, Plant 9 construction commenced in 1969, and building additions were performed in 1973, 1977, 1981, 1985, 1986 and 1989. Manufacturing operations on the Site ceased in 2006. All facilities west of MLK Boulevard were demolished during the period of late 2007 to early 2009. The demolition included the removal of all concrete building slabs and many areas of pavement around the Main Plant. Following demolition, the area was regraded and covered with varying thicknesses of crushed concrete. A soil and vegetative cover were applied during the summer of 2009. The southern portion of the former Main Plant is now an open field. The northern portion of the former Main Plant building was divested and redeveloped as a plastic injection molding plant in 2015. The central portion of the former Main Plant building was divested on September 13, 2019 and is currently being redeveloped as an expansion to the plastic injection molding plant.

The former Plant 6 and 9 properties and a lot east of Madison Avenue were sold soon after related manufacturing operations ceased in 1997. The remaining portions of the property were held by GMC until its bankruptcy in June 2009. The RACER Trust was created in March 2011 by the United States (U.S.) Bankruptcy Court to clean up and position for redevelopment certain properties and other facilities owned by former GMC before the 2009 bankruptcy. With the exception of Lot 1, Tract B (North and Central) which were sold and Tracts C to F and Crawfield which were donated to the City of Anderson, the remaining portions of the Site that were held by GMC until its bankruptcy in June 2009 are currently owned by RACER Trust. The Site boundary, historical operational areas, and Areas of Interest (AOIs) / Areas of Concern (AOCs) are shown on Figure 3.

2.2 Hydrologic Setting

2.2.1 Physiography

The Site is situated in the New Castle Till Plains and Drainage ways Section of the Central Till Plain Region as described by Gray (2000). This area was affected by multiple continental glaciations that deposited a thick blanket of glacial sediments over the bedrock. The New Castle Till Plains and Drainage ways Section is primarily underlain by complexly stratified glacial diamict deposits, glaciofluvial sand and gravel deposits and glaciolacustrial silt and clay deposits. The area is characterized by broad plains of low relief crossed by relict glacial meltwater valleys (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.2.2 Stormwater/Surface Water Drainage

The Site area is nearly level with elevations ranging from 860 to 880 feet North American Vertical Datum (NAVD) 88. East of MLK Boulevard the elevation is lowest, and the surface elevation descends into a relict glacial meltwater valley. Former Plant 9, Plant 6, and the Meadowbrook Golf Course are all located in the relict meltwater valley, the western border of which roughly follows the alignment of MLK Boulevard. This valley trends south-southwest from Anderson, Indiana several miles towards Pendleton, Indiana (Brown and others, 2003). A small channelized stream, Stanley Ditch, occupies the north end of the relict meltwater valley and drains westward along the south boundary of the Meadowbrook Golf Course. Stanley Ditch originally flowed to the north between former Plant 6 and Plant 9 but was diverted southward in 1963 to provide stormwater relief for the City of Anderson combined sewer system. As a result, Stanley Ditch is now tributary to Prairie Creek and flows to the south down the trend of the valley to Pendleton, Indiana where it joins Fall Creek, a tributary to the West Fork White River.

Stormwater run-off from paved areas of the property either infiltrates the ground surface or is directed to the combined sewer system that discharges north to the City of Anderson Publicly Owned Treatment Works on the West Fork White River. The combined sewer system flows northward across the Meadowbrook Golf Course property and beneath former Plant 9 up the trend of the relict meltwater channel. Stormwater on the northern portion of the Meadowbrook Golf course property is directed through piping, and discharges to ponds. Stormwater in the southern portion of the Meadowbrook property drains southward toward Stanley Ditch that flows along the southern and eastern property boundaries of the golf course.

A drainage divide between Stanley Ditch and Prairie Creek, draining to the south, and the combined sewer system, draining north to West Fork White River, appears to occur near the south side of former Plant 9, perhaps near and along the South Anderson Cutoff railroad embankment. Areas to the south of the railroad embankment, including most of the Meadowbrook Golf Course, are floodway and floodway fringe areas subject to flooding (Federal Emergency Management Agency [FEMA], February 18, 1994). (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.2.3 Hydrogeology

Figure 4 presents a generalized, schematic east-west hydrogeologic cross-section of the unconsolidated materials at the Site showing monitoring well completion intervals. The

unconsolidated deposits range from less than 20 feet to over 160 feet in thickness and overlie an irregular bedrock surface. Bedrock beneath the Site consists of carbonate rocks of Silurian age. The bedrock topography beneath the Site slopes to the northwest into a pre-glacial bedrock valley. The bedrock is high (above 840 foot elevation) in the southern portion of the former Plant 9 area and at the Meadowbrook Golf Course. Bedrock is generally only about 20 feet below ground surface (bgs) in this area as a result of both the high bedrock elevation and low ground surface elevation in the relict meltwater valley area east of MLK Boulevard. To the northwest, the bedrock elevation descends to below 730 foot elevation at former groundwater production well 11 and the bedrock in this area is in excess of 158 feet bgs.

Detailed hydrogeologic cross-sections are presented in both the Stage II RFI Data Report (Earth Tech, March 30, 2005) and the RFI Final Report (Earth Tech and ENVIRON, September 28, 2007). Five distinct geologic units are recognized in the unconsolidated surficial soil materials. These units are identified from top to bottom as Units 1 to 5.

Unit 1 is a heterogeneous fill material consisting of silty clay loam, silty clay, sandy clay, sandy clay loam, and loam texture soil intermixed, in places, with debris consisting of wood, brick, glass, brick, concrete, coal fragments, and cinders. The unit consists of fill material placed at various times during the developmental history of the property and is generally no more than a few feet in thickness. In places, the lower portion of the Unit 1 fill is saturated and a localized perched groundwater zone occurs. The clayey diamicts in the underlying Unit 2 confining unit cause this perched groundwater condition. Saturated conditions have been observed in the basal portion of Unit 1 in several shallow AOC 1 – South Court Area soil borings.

Unit 2 is a glacial diamict of silty clay loam, silty clay, and loam texture with occasional thin, interbedded sand and gravel deposits. Sand and gravel lithologies make up a small percentage of the unit. Unit 2 is thin in southern and eastern parts of the Site, but thickens to the north and west.

Unit 3 consists of stratified sand and gravel and forms the uppermost aquifer beneath the Site. In places, a diamict occurs within Unit 3 and is identified as the Unit 3 Confining Bed. At some locations the confining bed is represented by a distinctive silty texture and laminated structure. The confining bed is hydrologically significant because it separates the Unit 3 aquifer into an upper portion (Unit 3S) and lower portion (Unit 3D). Unit 3 is generally only 10 to 20 feet thick in the eastern part of the Site beneath the meltwater valley. The unit thickens appreciably in the western part of the area where it forms the major portion of the unconsolidated deposits.

Unit 3 is almost entirely within the phreatic zone and is the uppermost aquifer unit at the Site. Groundwater may exist in the unit under both confined and unconfined conditions. Where the base of Unit 2 is relatively high in elevation, the upper few feet of Unit 3 are unsaturated, and unconfined conditions occur. At locations where the base of Unit 2 is relatively low in elevation the top of Unit 3 is saturated, and confined conditions occur.

Conceptually, Unit 3 may be divided into an upper (Unit 3S) and lower (Unit 3D) part. In those places where there is no physical separation between the upper and lower parts of the unit provided by the Unit 3 Confining Bed, the designations 3S and 3D merely provide a convenient way to refer to the upper and lower portions of the Unit 3 aquifer, and the monitoring wells completed therein. Where a physical separation occurs due to the presence of the Unit 3 Confining Bed, Unit 3S refers to that portion of the aquifer above the confining layer and Unit 3D refers to that portion below the confining

layer. Locally, the Unit 3 Confining Bed induces a downward vertical gradient within the Unit 3 aquifer. Where the confining bed is absent, water levels in Units 3S and 3D are comparable.

The lateral groundwater gradient in Unit 3S is directed to the east-northeast in AOC 1 - South Court Area. Locally there are significant variations in the magnitude and direction of the gradient related, in part, to the presence or absence of the Unit 3 Confining Bed. An east-southeast oriented potentiometric trough in Unit 3S persistently occurs in the vicinity of MW 40 and MW 42 where the confining bed is absent. In this area groundwater flow in Unit 3S appears to be directed easterly into the relict meltwater valley.

The hydraulic gradient for Unit 3D is more consistent and the potentiometric surface for this unit suggests an eastward gradient in the South Court Area and along MLK Boulevard and a predominantly western gradient across the east portion of the Site into the meltwater valley.

Unit 4 consists of hard diamict of loam or clay loam texture. The unit forms a confining bed between Unit 3 and Silurian carbonate bedrock. The unit is absent from the eastern part of the area at Plant 9 and portions of the adjacent Meadowbrook Golf Course.

Two deep bedrock borings at the north end of the Site (MW 62 and MW 71) encountered a bed of cobbles above the bedrock surface. This zone is referred to as Unit 5. The unit was encountered at no other locations. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

2.3 Previous Groundwater Investigations

The following sections summarize groundwater investigations that have been conducted at the Site. Monitoring wells on and adjacent to the Site have been installed at various times. The earliest Site wells (MW 1 to MW 17) were installed in 1992 and 1993 for the purposes of evaluating a suspected waste oil leak at Area 1 – Former Waste Oil Tank [Solid Waste Management Unit (SWMU) 16]. The longest monitoring history exists for these wells. Most of the 1992 / 1993 wells were installed in Unit 3S. No evidence of a significant waste oil leak was found at SWMU 16, but elevated concentrations of VOCs, primarily trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride were detected in several wells in this area. These wells are now known to be located in and around a source area for the Area 1 – South Court VOC plume (Section 2.4).

Work associated with RFI Stage I in 2000 to 2001 included installation of 20 new monitoring wells (MW 18 to MW 37) and collection of 85 groundwater samples from new and existing wells. The new wells were completed in Units 1, 3S, and 3D. The Stage I investigations partially delineated a groundwater VOC plume extending north and east from AOC 1 - South Court. This plume was found to lie underneath several previously-defined AOIs and was referred to as Area 1. The Stage I RFI investigations identified concentrations of TCE, cis-1,2-DCE, and vinyl chloride above screening criteria based on state and federal Maximum Contaminant Levels (MCLs). A Stage I RFI report was completed in 2001, and this report included a work plan for additional groundwater delineation work in both on and off-Site areas (Earth Tech and ENVIRON, July 31, 2001).

In 2001 a Phase II Environmental Site Assessment was conducted in the north parking area and three monitoring wells (MW1-01 to MW3-01) were installed. Groundwater concentrations, where detected, were detected below IDEM's criteria. TCE, cis-1,2-DCE and vinyl chloride were not detected in groundwater samples collected.

Stage II RFI investigations began in late 2003. Work associated with the Stage II RFI in 2003 to 2005 included installation of 47 monitoring wells (MW 38 to MW 84) and collection of 182 groundwater samples from both new and existing wells. Area 1 was expanded to include Plant 9 as well as off-Site areas including Meadowbrook Golf Course. Seven wells (MW-1 to MW-7) were installed on the golf course by others in 2003. Sampling of MW-4 in October 2003 indicated that high concentrations of cis-1,2-DCE and vinyl chloride were present. Additional wells (MW 56, MW 57, MW 58, MW 77, and MW 85) were installed by GMC on the golf course in 2004 and 2007 to delineate the VOC plume southeast of MW-4. These and other RFI Stage II monitoring wells delineated the concentrations of TCE, cis-1,2-DCE, and vinyl chloride above MCLs both on and off-Site (Earth Tech and ENVIRON, September 28, 2007).

Three additional monitoring wells (MW 86, MW 87, and MW 88) were installed on the Plant 9 property in October 2010 to provide additional downgradient plume delineation. One well was installed downgradient of MW49 (MW89-11) in 2011 to provide additional downgradient plume delineation in proximity to nearby residential land use. In 2012 and 2013, three monitoring wells (MW90-12, MW91-12, and MW92-13) were installed near a recently identified AOI referred to as former Bay M26/M27 to assess groundwater quality in the vicinity of the AOI, not previously investigated. In 2013, four monitoring wells (MW 93-13 to MW 96-13) were installed to delineate the lateral extent of groundwater impacts at the perceived source area for the former Wastewater Treatment Plant (WWTP) Area plume.

In 2014, one monitoring well (MW97-14) was installed to delineate groundwater impacts beneath the Meadowbrook Golf Course. However, MW 97-14 was decommissioned and replaced in May 2016 (MW 97R-16) at a nearby location to facilitate easier lawn maintenance at the request of the property owner.

Seventeen monitoring wells (MW 1-01, MW2-01, MW3-01, MW 11, MW 24, MW 25, MW 34, MW35, MW 52, MW 53, MW 54, MW 55, MW 69, MW 70, MW 71, MW 72, and MW 73) north and west of the former main manufacturing areas, upgradient of the VOC plumes, and not a part of the IDEM approved GMP were abandoned in March and April 2014 following approval from IDEM (VFC # 69789483).

In October 2018, two monitoring wells (MW98-18 and MW99-18) were advanced and installed to further delineate bedrock groundwater impacts on-Site, east of MLK Boulevard.

During construction activities at the Tract B (Central) property in October and November 2019, monitoring wells MW 50 and MW 51 were decommissioned as they were in the area of a proposed building. The replacement of the two monitoring wells will be evaluated during the development of the revised Groundwater Monitoring Plan that will be completed in 2021.

From October 2005 until October 2007 GMC conducted quarterly monitoring of a selected group of monitoring wells according to an interim Site-wide groundwater monitoring plan (CRA, September 20, 2005). This work was conducted for nine consecutive quarters ending in October 2007. Summary results from this monitoring were provided in the 2006 and 2007 Annual Groundwater Monitoring Reports (Earth Tech and ENVIRON, January 31, 2007, January 31, 2008) and an additional round of groundwater monitoring was conducted in February 2008.

The interim monitoring program was replaced by a Site-wide Groundwater Monitoring Plan associated with the draft Corrective Measures Proposal (CMP) for the Facility. This program

consisted of semiannual sampling at a modified well list with sampling of two surface water monitoring points on the Meadowbrook Golf Course conducted three times per year. The sampling plan for this program (AECOM, October 28, 2010) was approved by the IDEM on November 24, 2010. Sampling under this program was conducted since June 2008 until April 2019 (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012). On June 10, 2019, IDEM provided comments on the 2018 Annual Groundwater Monitoring Report recommending that groundwater monitoring shift from semi-annual to sampling every 18 months.

The final CMP was developed and submitted to the IDEM on July 7, 2020 and was approved by IDEM on December 30, 2020. Monitored Natural Attenuation and continued groundwater monitoring was selected as the final corrective measure for the WWTP Area VOC Groundwater Plume. Given the WWTP plume is expanding, contingency measures are also contemplated. In the future, if monitoring results conclude that there is a potential off-Site risk, additional activities and/or remedial options will be evaluated in consultation with IDEM and affected property owner(s) at that time. Also, the future land use of potential off-Site receptors will continue to be monitored (i.e., CSX and Meadowbrook Golf Course). Monitored Natural Attenuation and continued groundwater monitoring was selected as the corrective measure for the Tract B (South) – South Court Area Groundwater Plume. After ten years of monitoring, a Monitored Natural Attenuation report will be completed to further demonstrate that the plume is stable/not expanding and that there are no future potential off-Site risks.

2.4 Area 1 – South Court And Related Areas

The groundwater contaminant plumes at the Site are associated with Area 1 – South Court and Related Areas. Previous isoconcentration maps for Unit 3 suggest there are two separate VOC plumes. One plume is associated with Area 1 – South Court. The AOC 1 – South Court plume extends in a northeast direction from the South Court beneath several SWMUs in the former Main Plant building area. The predominant VOC contaminants detected in this area are TCE, cis-1,2-DCE, and vinyl chloride. The highest reported concentrations of TCE in this plume are found in the South Court at MW 3 (Unit 3S) and MW 15 (Unit 3S). Perched groundwater in Unit 1 appears to serve as a source area for VOC contaminants in Unit 3. These VOC contaminants are present in both the 3S and 3D portions of Unit 3, but concentrations are generally higher in the upper portion of the unit.

A separate plume is located along and east of MLK Boulevard. Historically the primary evidence for separation of this plume from the AOC 1 – South Court plume comes from four Unit 3S wells located between the plumes where VOCs have not been detected, or detected at only very low levels (MW 29, MW 46, MW 59 and MW 84). The VOC plume east of MLK Boulevard extends from an apparent source near MW 68 and the former WWTP along MLK Boulevard eastward toward former Plant 9 and the Meadowbrook Golf Course. The plume has migrated to the south to at least MW 57 and MW 85 on the golf course and to the north to MW 88. This plume is referred to as the former WWTP Area plume. The predominant VOC constituents detected in this area are cis-1,2-DCE and vinyl chloride. TCE is only a minor plume component.

2.5 Interim Measures

GMC implemented three interim measures (IMs) related to soil and groundwater at the Site. One interim measure included the removal of soil in the area of MW 31 associated with AOC 1 – South

Court that contained TCE concentrations that were an order of magnitude greater than the soil concentrations in other portions of the area. In addition to removing the soil in this area, perched groundwater in Unit 1 fill was treated with hydrogen release compound (HRC®) as a source control measure for TCE, cis-1,2-DCE, and vinyl chloride in Unit 1 and the underlying Unit 3 groundwater. During the IM, monitoring well MW 31 completed in the fill soil was removed. Following the IM, a replacement well (MW 31R) was installed at the former MW 31 well location.

The second interim measure implemented by GMC included the abandonment of two potable wells at the Meadowbrook Golf Course and subsequent connection of the golf course to municipal water supply. In addition, GMC and the owners of the Meadowbrook Golf Course entered into an access agreement that prohibited the use of groundwater under the golf course property. The agreement allowed the use of surface water from a pond on the property for irrigation purposes. Samples from this pond are regularly collected and analyzed for VOCs. As part of the CMs for the Site, RACER Trust will file an Environmental Restrictive Covenant with the owners of the Meadowbrook Golf Course restricting groundwater use under the golf course property.

The third interim measure implemented by GMC included the abandonment and plugging of five former groundwater production wells on Site. This work was completed during the period April 30 to September 4, 2007 in accordance with Indiana Department of Natural Resources well abandonment rules (312 IAC 13). Abandonment activities included electrical disconnect, pump motor and pump column removal, and well grouting. The work followed a written work plan for well abandonment (Earth Tech, July 27, 2006) and was conducted by a licensed State of Indiana water well drilling contractor. The work is summarized in an Earth Tech memorandum dated November 16, 2007. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

3. 2020 Activities

3.1 Groundwater and Surface Water Monitoring

Groundwater and surface water monitoring activities were conducted in November 2020 in general accordance with the Site-wide Groundwater Monitoring Plan, as modified. The revised Site-wide groundwater monitoring program includes 40 monitoring wells sampled every eighteen months. The surface water monitoring program includes sampling the Meadowbrook Golf Course Irrigation Pond. The next Site-wide groundwater and surface water monitoring event will be conducted on or before April 2022. The schedule may be revised as part of the revised Groundwater Monitoring Plan that will be completed by GHD/RACER and reviewed by IDEM in 2021. A summary of the original Site-wide groundwater monitoring program is provided in Table 1. Monitoring well construction details are provided in Table 2.

3.1.1 Hydraulic Monitoring

Water level measurements were collected from all accessible monitoring wells included in the Site-wide groundwater monitoring program during the November 2020 monitoring event. Some monitoring wells were not gauged during 2020 as they could not be located or were not accessible. The static groundwater elevations measured in November 2020 are summarized in Table 3, along with previous groundwater elevations from previous years for comparative reference.

3.1.2 Groundwater Quality Monitoring

Site-wide groundwater monitoring was conducted by GHD between November 2 and November 23, 2020. A sample key summarizing the groundwater samples collected in November 2020 is provided in Table 4.

Prior to groundwater sample collection, the monitoring wells were purged using a submersible pump and low flow purge techniques to remove suspended solids, reduce turbidity, and allow visual observation of sample color. Field parameters including conductivity, DO, ORP, pH, temperature, and turbidity were recorded. No color consistent with electroplating operations was observed during purging activities. Groundwater samples were collected using a submersible pump and low flow sampling techniques. Groundwater samples, including field duplicate and matrix spike/matrix spike duplicate samples, were submitted to TestAmerica for chemical analysis of target compound list (TCL) VOCs using analytical method 8260B. Well stabilization parameters recorded by GHD are provided in Table 5.

3.1.3 Surface Water Sampling

Surface water samples were collected by GHD on November 3, 2020 from the central irrigation pond located southeast of MW-85 on the Meadowbrook Golf Course. During both events samples were collected near the irrigation water intake (Pond Intake) and also from a location closest to MW-85 (Pond North). Surface water samples were submitted to TestAmerica for chemical analysis of TCL VOCs using analytical method 8260B.

3.1.4 Sampling Protocol

Monitoring well and surface water samples collected were assigned a unique sample identification (ID) number. Sample ID numbers were recorded with corresponding sample locations.

All monitoring well samples were collected using low-flow submersible pumps that are dedicated to the project and well-specific dedicated Teflon-lined pump discharge tubing. All non-consumable equipment that contacted groundwater was decontaminated in accordance with the Field Method Guidelines contained in the Site-wide Groundwater Monitoring Plan. Consumable equipment (tubing) and personal protective equipment were appropriately disposed of off-Site.

Investigative derived waste (IDW) generated from purge and decontamination activities was containerized in two on-Site drums. The IDW was removed from the Site for appropriate off-Site disposal on December 14, 2020 by US Ecology.

3.1.5 Deviations from the Site-wide Groundwater Monitoring Plan

All monitoring wells, with the exception of MW 50 and MW51, included in the Site-wide Groundwater Monitoring Plan were gauged in accordance with the Site-wide Groundwater Monitoring Plan. As in the past, GHD collected water level data from approximately 30 monitoring wells not included in the Site-wide Groundwater Monitoring Plan to provide additional potentiometric details across the Site.

During construction activities at the Tract B (Central) property in October and November 2019, monitoring wells MW 50 and MW 51 were decommissioned as they were in the area of a proposed building. The replacement of the two monitoring wells will be evaluated during the development of

the revised Groundwater Monitoring Plan that will be completed in 2021. During the November 2020 monitoring event, monitoring well MW92-13 was sampled in place of MW 51.

4. Potentiometric Surface Mapping

The groundwater elevations measured in November 2020 are summarized in Table 3, along with previous groundwater elevations measured in October 2018 and 2019 for comparative reference. Water levels measured during the November 2020 events were generally consistent with the previous years' water levels.

Based on the November 2020 groundwater elevations, GHD developed potentiometric groundwater contours for Unit 3S, Unit 3D, and the bedrock units as shown on Figures 5 to 7, respectively.

The groundwater contours representative of the November 2020 Unit 3S data are provided on Figure 5. The November 2020 potentiometric groundwater elevation contour map indicates that there is a general northeasterly gradient beneath the central and northern portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable. Data from the November event again indicates the presence of a groundwater mound, or ridge in Unit 3S that extends in a north-south arc from the MW 46 area on the south to about MW 59 on the north. As discussed in previous annual reports, this groundwater high, sometimes extending to MW 29 on the north, appeared to separate the AOC-1 South Court and WWTP Area plumes historically. The AOC-1 South Court plume extends beneath the former Main Plant building and affects several monitoring wells including, from south to north, MW 79, MW 60, MW 51, and MW 76R-17. In contrast, historically the Unit 3S monitoring wells along the arc including MW 46, MW 84, MW 59, and MW 29 have not shown any significant VOC contamination.

The groundwater contours representative of November 2020 Unit 3D data are provided on Figure 6. The November 2020 potentiometric groundwater elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a predominantly western gradient across the east portion of the Site into the meltwater valley.

The groundwater contours representative of the November 2020 bedrock unit data are provided on Figure 7. The November 2020 potentiometric groundwater elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a predominantly western gradient across the east portion of the Site into the meltwater valley.

5. Analytical Results

The sample key (Table 4) summarizes the groundwater and surface water monitoring conducted in 2020. The laboratory certificates of analysis are provided in Appendix A. The 2020 VOC laboratory analytical data generated from the groundwater and surface water sampling have been summarized in Table 6 and Table 7, respectively. Analytical data from all sampling events between 2016 and 2020 are presented on Figure 8 (on-Site) and Figure 9 (off-Site). Excluding chlorobenzene and styrene, the VOC parameter list shown on Figure 8 and Figure 9 includes any VOC that has exceeded conservative screening criteria at any well or surface water location during any sampling event. As noted in previous annual reports, chlorobenzene and styrene were detected in one June

2008 groundwater sample at MW 40 (WG-062608-JD-007) at concentrations over the drinking water criteria. Chlorobenzene and styrene have only been detected in this one sample, and the reported concentrations of 0.15 milligrams per liter (mg/L) (with qualifier J – estimated value below reporting limit) and 0.14 mg/L (also with qualifier J), respectively, are only slightly higher than the drinking water criteria of 0.1 mg/L. Both results were well below the sample reporting limit of 1.0 mg/L. Chlorobenzene and styrene were not detected in the subsequent events. For these reasons, chlorobenzene and styrene are not included in Figure 8 or Figure 9.

TCE, cis-1,2-DCE and vinyl chloride remain the primary constituents associated with the AOC 1 – South Court and WWTP Area VOC plumes. Isoconcentration maps for TCE, cis-1,2-DCE and vinyl chloride are presented on Figures 10 through 12, respectively.

Data verification and validation reports for the analytical data collected during the 2020 Site-wide Groundwater Monitoring Plan activities were completed by GHD and are provided in Appendix B. Based on the verification and validation reports, the 2020 data is acceptable for use with the qualifications noted.

5.1 Risk-Based Screening

A conservative risk-based screening was performed on the groundwater and surface water data collected during the Site-wide groundwater monitoring program in 2020. The data were compared to IDEM's Remediation Closure Guide Screening Levels (RCGSL) and conservative risk-based screening criteria based on potential exposure scenarios that were evaluated in CRA's Refined Human Health Risk Assessment and Derivation of Site-Specific Risk-based Screening Levels Report (October 2013) (RHHRA).

The groundwater monitoring data collected from areas where current and reasonably expected future land use is commercial/industrial were screened against the following: 1) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria and 2) Site-specific Commercial/Industrial Tap Water Use Criteria. Derivation of the Site-specific screening criteria is presented in RHHRA. Monitoring wells screened against these criteria are shown on Figure 8.

Groundwater data collected from areas where current and reasonably expected future land use is not commercial/industrial were screened against the following: 1) IDEM RCGSLs - Residential Tap Water Criteria; 2) IDEM RCGSLs - Vapor Exposure Residential Criteria; 3) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria; 4) Site-specific Recreator (Resident Swimming Pool) Criteria; 5) Site-specific Commercial/Industrial Tap Water Use Criteria. Sampling points screened against these criteria are shown on Figure 9.

5.2 AOC 1 – South Court Plume

The AOC 1 – South Court plume contains elevated concentrations of TCE, cis-1,2-DCE, and vinyl chloride with the greatest TCE concentrations in monitoring wells near the AOC 1 - South Court source area (i.e., MW 3 and MW 15).

In 2020, the extent of the AOC 1 – South Court plume remained defined on the east side with non-detect results for all VOC constituents at monitoring wells MW 37, MW 46 and MW 84. Cis-1,2-DCE and vinyl chloride were detected at east boundary monitoring well MW 16. At the north perimeter boundary of the AOC 1 – South Court plume, Unit 3D monitoring well MW 75 is free of detected

VOC concentration. The Unit 3S monitoring well in this area (MW 76R-17) exhibits very low concentrations of cis-1,2-DCE and vinyl chloride. In 2020, MW 49 south of the AOC 1 – South Court area had an estimated detection of TCE above the screening level. Samples from this well have had elevated reporting limits since the October 2014 monitoring event. Downgradient of MW49 (east-northeast and east), TCE was not detected in the sample collected from MW 89-11, and the sample only exhibited very low concentrations of other VOCs consistent with historical monitoring events. At the south perimeter of the AOC 1 – South Court plume, Unit 3S monitoring well MW 21 is free of all detected VOC concentration.

Historical and recent trends for the AOC-1 – South Court plume are discussed in Section 6.

5.3 Former WWTP Area Plume

Monitoring wells in the former WWTP Area plume area contain elevated concentrations of primarily cis-1,2-DCE and vinyl chloride.

Historically increasing trends have been identified in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to cis-1,2-DCE and vinyl chloride however, an increasing trend in the concentration of TCE has historically been observed at the perceived source area (MW 68) and downgradient monitoring wells MW-4 and MW 40. Cis-1,2-DCE concentrations are increasing at perimeter monitoring wells MW 28, MW 66 and MW 85 and bedrock monitoring well MW 81. Vinyl chloride concentrations are increasing at monitoring well MW 41, northeast of the source area, perimeter monitoring wells MW 28, MW 58, MW 64, MW 66, MW 88 and bedrock monitoring wells MW 81 and MW 83.

In November 2020, the southern extent of the WWTP plume remained defined with perimeter monitoring wells MW-2, MW 56, and MW 97R-16 that were free of detected concentrations of VOCs.

Along the northern extent of the WWTP plume, monitoring well MW 88 had a detection of vinyl chloride above the Site-specific Commercial/Industrial Tap Water Use Criteria. Other north perimeter monitoring wells, MW 61 and MW 86, were free of or contained very low concentrations of VOCs.

5.4 Extent of Groundwater Contamination

Figure 10 to Figure 12 show the isoconcentrations of the principal VOC constituents TCE, cis-1,2-DCE and vinyl chloride, respectively, in groundwater for hydrogeologic Unit 3. These isoconcentration maps are based on November 2020 data and update those contained in the 2018 Annual Groundwater Monitoring Report (GHD, January 31 2019). The November 2020 data for each well are shown on the maps with non-detect results presented as half of the reporting limit.

Since the Unit 3S confining unit is absent in the area of former Plant 9 and portions of the Meadowbrook Golf Course, and Unit 3 is relatively thin in these areas, the VOC data from wells in these areas may be shown on the Unit 3S isoconcentration maps. Combining data in this manner provides a useful portrayal of the former WWTP Area plume from its apparent source in the upper part of Unit 3 near MW 68 to its tail area occurrences at former Plant 9 and Meadowbrook Golf Course.

The isoconcentration maps continue to suggest that there are two separate VOC plumes. One plume is associated with AOC 1 – South Court and the second plume is derived from an apparent

source area near MW 68. Historically the plumes have been separated by a series of Unit 3S wells where VOCs have not been detected, or have been detected only at very low levels (MW 29, MW 37, MW 46, MW 59 and MW 84). A groundwater ridge in Unit 3S has historically occurred along this line of wells, and this mound appears to have served as a hydraulic barrier separating the two plume areas. In November 2020, cis-1,2-DCE and vinyl chloride were detected at the east boundary monitoring well MW 16. VOC detections at MW 16 (between MW 46 and MW 84) and alterations in the predominance and extent of this ridge suggests changes to the historical hydraulic barrier may be occurring.

The AOC 1 – South Court plume in Unit 3S extends in a northeast direction from AOC 1 – South Court. The eastern extent of the plume appears to be limited by the groundwater mound noted in the preceding paragraph. The plume has historically been bounded to the north by MW 76/MW76R-17 with marginal detections of cis-1,2-DCE and vinyl chloride below the reporting limit and at estimated quantities. In 2020, cis-1,2-DCE and vinyl chloride were detected at MW 76R-17 above but on the same order of magnitude as the reporting limit and three orders of magnitude below the screening level.

In 2015, GHD completed a plume stability analysis (GHD, August 12, 2015) that indicated that the AOC 1- South Court plume has changed little in planar plume area, average concentration, and plume mass, despite the presence of degradation products, which is consentient with recent groundwater monitoring results and indicates that the plume is stable.

The former WWTP Area plume extends eastward from the apparent source area near MW 68 towards former Plant 9 and has migrated to the east to the vicinity of MW 64 and MW 66, to the northeast in the vicinity of MW 88, and to the southeast to Meadowbrook Golf Course irrigation pond in the vicinity of MW 57, MW 58 and MW 85. This VOC plume is composed primarily of cis-1,2-DCE and the highest reported concentrations occur in a series of monitoring wells from the source area (MW 68) southeast to the Meadowbrook Golf Course irrigation pond (MW 40, MW-4, and MW 85).

Prior to July 2006, MW 68, located just west of MLK Boulevard generally had the highest cis-1,2-DCE concentration in this plume and is inferred to be closest to the VOC source area. From December 2006 until April 2009 the highest cis-1,2-DCE concentration was generally found downgradient at MW 40. From December 2009 until October 2015, the highest cis-1,2-DCE concentration has generally been found at MW-4 downgradient of MW 40. In 2016 and 2017 the highest cis-1,2-DCE concentration was found at MW 85 downgradient of MW-4. In 2018 and 2020 the highest cis-1,2-DCE concentration was found at MW-4, as indicated on the current isoconcentration map. This trend is consistent with the findings in the plume stability analysis completed as part of the Supplemental Analysis in Support of the CMP (GHD, August 12, 2015). The plume stability analysis concluded that TCE equivalent is decreasing in concentration and mass, while increasing in plume area advancing downgradient along the predominant flow direction.

Vinyl chloride and TCE are subordinate components of the former WWTP Area plume. TCE is a relatively minor component even in the source area of this plume. The highest reported concentrations for vinyl chloride occur downgradient of the source area, at MW-4, MW 85, and MW 57. The east edge of the former WWTP Area plume is marked by persistent occurrences of vinyl chloride in Unit 3D wells MW 58, MW 64, and MW 66. However, a westerly groundwater flow direction east of these wells prevents further vinyl chloride migration to the east. Along the northern

extent of the WWTP plume, in 2020 monitoring well MW 88 had a detection of vinyl chloride above the Site-specific Commercial/Industrial Tap Water Use Criteria.

The WWTP Area plume extends vertically to bedrock monitoring wells MW 81 and MW 83. Between September and December 2018, GHD completed a bedrock groundwater investigation to delineate vertical and horizontal bedrock groundwater impacts. The results of the investigation indicate that shallow bedrock VOC impacts at MW 81 have not migrated deeper in the bedrock unit. The results also indicate that shallow bedrock VOC impacts have been delineated to the east at MW 99-18 and that there appears to be a western gradient across the east portion of the Site that would not allow for shallow bedrock groundwater impacts to migrate off-Site towards Madison Avenue.

5.5 Surface Water

Cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during the November 2020 surface water sampling event. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceed the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake. Historically increasing trends in cis-1,2-DCE and vinyl chloride concentrations have been identified for the Pond North and Pond Intake locations.

6. Statistical Analysis

The required statistical data evaluation is presented in Section 4 of the Site-Wide Groundwater Monitoring Plan (Monitoring Plan, AECOM, 2010) and includes the following required elements:

- The statistical evaluation is to be conducted to determine whether the contaminant plumes are stable (i.e., not increasing over time).
- The principal VOC compounds to be considered in the evaluation are TCE, cis-1,2-DCE and vinyl chloride.
- The evaluation of stability is to be carried out using the Mann-Kendall trend test following IDEM Risk Integrated System of Closure guidance (IDEM, February 15, 2001). Notably:
    - A minimum of 4 samples is required to perform the trend test.
    - A minimum detection frequency of 75 percent is required to perform the trend test.
    - Non-detects should be assigned a value below the lowest detected value in the data set.
    - Any field duplicate results should be averaged prior to carrying out statistical testing.
- Trend testing is to be carried out using a significance level of (α) 0.10 (i.e., 90 percent confidence).
- A one-tailed trend test is to be performed (i.e., testing for increases only), using the following statistical hypotheses:
    - Null (no effect) hypothesis (H0) = there is no trend or a decreasing trend in chemical concentrations over time.

- Alternative hypothesis (HA) = there is an increasing trend over time in chemical concentrations.

The following subsections describe the specific approaches used in carrying out the statistical data evaluation. The data considered in the trend tests are presented in concentration vs. time graphs and tabular format in Appendix C.

6.1 Mann-Kendall Test

Methods for statistical trend testing of groundwater quality data are discussed in Section 4.3 of U.S. EPA (2006), Chapter 12 of Helsel & Hirsch (USGS, 2002) and other relevant guidance and reference texts. The evaluation of trends in environmental data is often complicated by factors such as seasonality in data, outlying (grossly atypical) data points, the presence of censored (non-detect) data, small data sets (due to the relatively high costs associated with sample collection and analysis, particularly for trace concentration analyses) and non-linearity in any patterns present through time. Different tests exist, which balance the statistical power of detecting trends against susceptibility to outliers, deviations from model assumptions (e.g., linearity) and the ability to incorporate non-detect data into the analyses.

The Mann-Kendall trend test is suitable for general application across a variety of environmental data applications. This test is non-parametric (rank-based) and, therefore, robust with respect to outlying observations. The Mann-Kendall test neither assumes a particular data distribution (e.g., normal) nor data pattern tested (e.g., linear trend), but rather tests for a monotonic (single-direction) trend in the data over time. Although the test is not as powerful as parametric tests are under optimal conditions, its wide range of applicability makes it a good candidate for use when testing numerous data sets where the effort required for detailed characterization and selection of specific trend tests on a case-by-case basis is not appropriate.

As specified in the Groundwater Monitoring Plan, the Mann-Kendall trend test was used to evaluate the principal VOC monitoring data for the presence of temporal trends. Computational details for the test may be found in Section 4.3.4.1 of U.S. EPA (2006). The test was applied for data sets containing up to 25 percent non-detects using a one-tailed formulation and a significance level of 0.1, as described above.

Trend tests were carried out separately for each principal VOC at each monitoring well with sufficient temporal data to perform the Mann-Kendall test.

One assumption of the Mann Kendall trend test is that subsequent samples are reasonably equally spaced through time. In the VOC data sets considered, this assumption was generally well met, with regular monitoring having occurred on a consistent basis through time at most of the wells. However, it was noted that at wells MW 15 and MW 21, as well as in Pond Intake and Pond North locations, there was a change in sampling frequency in the monitoring record. Where sampling was more frequent, sampling events that did not correspond to the current monitoring program were excluded from the trend test. In addition, wells MW 15 and MW 21 had large temporal gaps in the monitoring record, therefore, additional testing was performed using group comparison tests (another method presented in Chapter 12 of USGS, 2002) to evaluate whether the presence of these gaps could be obscuring the detection of significant trends. Parametric Student's *t*-tests were carried out comparing recent (2013 – 2020) to historic (2005 – 2008) data.

It was noted in some cases that non-detects were present at somewhat-elevated detection limits above the majority of the detected values. In such cases, the comparison of non-detect and detected values is ambiguous (i.e., it cannot be assigned with certainty that the non-detect results are above or below the detected values). In these cases, trend testing was performed excluding the non-detect results, as noted in the table of results in Table 9. Current statistical guidance (e.g., U.S. EPA, 2013) would recommend that any detected values lower than the maximum detection limit for a non-detect be "censored" to that detection limit (i.e., all lower values be considered as non-detects). However, doing so would have reduced the detection frequency to much less than the 75 percent required in the Groundwater Monitoring Plan, and therefore carrying out the trend tests using detected values only permits an appropriate assessment with minimal information loss (i.e., removing a few ambiguous non-detects vs. censoring the majority of the data). In other cases, detection frequencies were close to 75 percent, and non-detects were observed in an earlier period. In order to provide a test result, non-detects were excluded from the evaluation, as noted in the table of results in Table 8. These cases are listed below:

- TCE at MW-4, MW 12, MW 31R, and MW 40
- cis-1,2-DCE at MW 28, MW 66, MW 81, Pond Intake, and Pond North
- Vinyl chloride at MW 3, MW 49, MW 51, MW 65, MW 83, MW 88, Pond Intake, and Pond North

6.2 Outlier Testing

Prior to carrying out trend tests, each data set was screened for the presence of statistical outliers. An outlier is an observation that differs substantially (atypically) from the rest of the population.

Outliers may be identified by graphical or statistical methods. U.S. EPA (2006, 2009) recommends The Extreme Value Test (Dixon's Test) for testing for outliers in data sets containing up to 25 points (the upper limit of this procedure), or Rosner's Test for data sets containing more than 25 points. Both outlier tests consider both extreme low values and extreme high values. An important element of assessing outliers is identifying the underlying data distribution of a particular data set prior to performing the test. The data may follow a normal (Gaussian) distribution, in which case the original (untransformed) data are subjected to the outlier test. However, if a data set follows another statistical distribution, (i.e., gamma or lognormal) the data must be transformed prior to using Dixon's or Rosner's tests. In testing data distributions for the principal VOC data sets considered, the Shapiro Wilk W Test (U.S. EPA, 2006, 2009) was applied using original, cube root-transformed [approximating the gamma distribution (USGS, 2002)], and log transformed data sets.

Consistent with the requirements of the Groundwater Monitoring Plan for trend testing, outlier tests were performed only for datasets having 75 percent or more detected values. In addition, due to limited number of samples, outlier tests were not performed for the recent period. Outlier testing was performed using a significance level (α) of 0.05 (i.e., 95 percent confidence).

The results of the data distribution and outlier tests are presented in Appendix C Table C.2. Statistical outliers were identified for cis 1,2 DCE at MW 14, MW 28, MW 31R, and MW 51; and for vinyl chloride at MW 3, MW 8, MW 79, MW 88, and Pond North, as indicated in the Table C.2.

Where statistically significant outliers were identified, trend testing was carried out twice; first considering all data and second using outlier excluded data sets. In all cases, the results of the trend

tests (i.e., increasing or no trend identified) were consistent both with and without the outliers. Therefore, the presence of statistical outliers in the principal VOC data sets has not impaired the ability of the present statistical evaluation to identify significant temporal trends, where present in the monitoring data.

6.3 Results

The results from the Mann-Kendall trend test are shown in Table 8. The data used in the trend tests are shown in Table C.1 and a summary of descriptive statistics are shown in Table C.2 of Appendix C, along with the data distribution and outlier testing results. Trend Plots are shown in Appendix C.

Of 126 data sets originally considered (three primary VOCs at each of 40 monitoring wells and 2 surface water locations) and evaluated, 71 did not require trend analysis due to high frequencies of non-detects (i.e., less than 75 percent detects). The remaining 55 data sets were subjected to the Mann-Kendall trend test. Of these, 31 had no statistically significant trend (i.e., groundwater VOC concentrations are stable or decreasing over time), and 24 datasets had significant increasing trends (at a 90 percent confidence level).

Comparing the results to those from the previous (2018) evaluation, no changes were observed in the results during the current monitoring period (2020), except for cis-1,2-DCE at MW 31R (was stable or decreasing over time and is currently increasing).

Current conditions in VOC concentrations were evaluated by considering a more recent period. For wells that are currently sampled annually, a 5-year period was considered and for wells that are currently sampled semi-annually, a 4-year period was used. Pond Intake and Pond North are currently sampled three times a year, therefore a recent 3-year period was considered.

Current conditions in VOC concentrations were evaluated by considering a more recent period. During the last two sampling events, wells were sampled once a year. Therefore, a 5-year period was considered. Pond Intake and Pond North surface water locations were sampled twice in 2019 and once in 202, prior to that they were sampled three times per year. In order to accommodate the variation in sampling frequency, the data sets were pre-processed to obtain a data set corresponding to the current monitoring frequency (i.e., once per year = annually). Where data were collected more frequently (e.g., twice per year = semi-annually), the data from the samples collected at the same time of the year as present sampling occurs were retained. Data for samples collected at other times of the year were removed from the data set.

The results from the Mann-Kendall trend test considering a more recent period are shown in Table 9. Of the 24 increasing trends observed during the entire monitoring period, 20 cases were observed to be stable (no statistically significant trend) during the recent period. Four increasing trends persisted during the recent period (cis-1,2-DCE at MW 28 and MW 51, and vinyl chloride at MW 83 and MW 88), and four new increasing trends were observed (cis-1,2-DCE at MW 58, and vinyl chloride at MW 68, MW 79, and MW 80).

A summary of increasing trends comparisons observed during the entire monitoring period vs. the recent period is shown in below:

Analyte	Location	Entire Monitoring Period (2005-2020) Trend Result	Recent Monitoring Period (2015/2016-2020)* Trend Result
Trichloroethene	MW-4	Increasing	NT or Decreasing
Trichloroethene	MW 40	Increasing	NT or Decreasing
Trichloroethene	MW 68	Increasing	NT or Decreasing
cis-1,2-DCE	MW 28	Increasing	Increasing
cis-1,2-DCE	MW 31R	Increasing	NT or Decreasing
cis-1,2-DCE	MW 49	Increasing	NT or Decreasing
cis-1,2-DCE	MW 51	Increasing	Increasing
cis-1,2-DCE	MW 58	Over 25% ND	Increasing
cis-1,2-DCE	MW 66	Increasing	NT or Decreasing
cis-1,2-DCE	MW 79	Increasing	NT or Decreasing
cis-1,2-DCE	MW 81	Increasing	NT or Decreasing
cis-1,2-DCE	MW 85	Increasing	NT or Decreasing
cis-1,2-DCE	Pond Intake	Increasing	NT or Decreasing
cis-1,2-DCE	Pond North	Increasing	NT or Decreasing
Vinyl chloride	MW 28	Increasing	NT or Decreasing
Vinyl chloride	MW 41	Increasing	NT or Decreasing
Vinyl chloride	MW 51	Increasing	NT or Decreasing
Vinyl chloride	MW 58	Increasing	NT or Decreasing
Vinyl chloride	MW 64	Increasing	NT or Decreasing
Vinyl chloride	MW 66	Increasing	NT or Decreasing
Vinyl chloride	MW 68	NT or Decreasing	Increasing
Vinyl chloride	MW 79	NT or Decreasing	Increasing
Vinyl chloride	MW 80	NT or Decreasing	Increasing
Vinyl chloride	MW 81	Increasing	NT or Decreasing
Vinyl chloride	MW 83	Increasing	Increasing
Vinyl chloride	MW 88	Increasing	Increasing
Vinyl chloride	Pond Intake	Increasing	NT or Decreasing
Vinyl chloride	Pond North	Increasing	NT or Decreasing

* Note: Some wells were not sampled in 2019, therefore for calculation of the recent trends (last 5 years), data sampled in 2015 had to be retained.

The data used in the recent trend tests are shown in Table C.3 and a summary of descriptive statistics are shown in Table C.4 of Appendix C.

Data from the last 5 years indicate that the majority of TCE, cis-1,2-DCE and vinyl chloride concentrations have no statistically significant trends and therefore have been stable (48 of the 56 data sets tested). Only eight cases of increasing trends were identified (described above).

A visual inspection of the trend plots shows a few recent high VOC concentrations that were not identified by the trend tests due to low detection frequency (below 75 percent) during the earlier

period. Recent detected values were identified for cis-1,2-DCE at MW 16 and MW 57, and for vinyl chloride at MW 16. A gradual increase in VOC concentrations were observed for cis-1,2-DCE at MW 64 and MW 80, and vinyl chloride at MW 57. Future monitoring events will be determined if these patterns persist.

Group comparison tests were carried out at well MW 15. Data distributions were assessed prior to the test and found that TCE and cis-1,2-DCE recent and historical concentrations were normally distributed, therefore the Student's *t*-test was used. Both historic and recent vinyl chloride data sets were found to be log-normally distributed, therefore the *t*-test was performed using log-transformed data. The results of the group comparison tests confirm the Mann-Kendall trend test results (NT or Decreasing). Group comparison tests were not carried out at well MW 21 due to elevated percentage of non-detects.

7. Conclusions

Based on the 2020 Annual Groundwater Monitoring activities, including all field and laboratory analytical data generated therefrom, the following conclusions have been developed.

1. The November 2020 Unit 3S potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general northeasterly gradient in Unit 3S beneath the central and north portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable.
2. The November 2020 Unit 3D potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a general westerly gradient across the east portion of the Site into the meltwater valley.
3. The November 2020 bedrock potentiometric mapping indicates that there is a general easterly gradient across the west portion of the Site and a predominantly western gradient across the east portion of the Site into the meltwater valley.
4. In 2020, the extent of the AOC 1 – South Court plume remained defined on the east side with non-detect results for all VOC constituents at monitoring wells MW 37, MW 46 and MW 84. Cis-1,2-DCE and vinyl chloride were detected at east boundary monitoring well MW 16. At the north perimeter boundary of the AOC 1 – South Court plume, Unit 3D monitoring well MW 75 is free of detected VOC concentration. The Unit 3S monitoring well in this area (MW 76R-17) exhibits very low concentrations of cis 1,2 DCE and vinyl chloride. In 2020, MW 49 south of the AOC 1 – South Court area had an estimated detection of TCE above the screening level. Downgradient of MW 49 (east-northeast and east), TCE was not detected in the sample collected from MW 89-11, and the sample only exhibited very low concentrations of other VOCs consistent with historical monitoring events. At the south perimeter of the AOC 1 – South Court plume, Unit 3S monitoring well MW 21 is free of all detected VOC concentration.
5. In 2020, the southern extent of the WWTP plume remained defined with perimeter monitoring wells MW-2, MW 56, and MW 97R-16 that were free of detected concentrations of VOCs. Along the northern extent of the WWTP plume, monitoring well MW 88 had a detection of vinyl chloride

above the Site-specific Commercial/Industrial Tap Water Use Criteria. Other north perimeter monitoring wells, MW 61 and MW 86, were free or contained very low concentrations of VOCs.

6. Of 126 data sets originally considered (three primary VOCs at each of 40 monitoring wells and 2 surface water locations) and evaluated, 71 had less than 75 percent detects, therefore were not evaluated. Of the remaining 55 data sets tested for trends, 31 were stable or decreasing over time and 24 had significant increasing trends. Comparing these results to those from the 2018 evaluation, the observed trends for TCE, cis-1,2-DCE and vinyl chloride concentrations in 2020 were consistent with the assessment conducted in 2018, except in one case, cis-1,2-DCE at MW 31R, which was stable or decreasing over time in 2018 is currently increasing.
7. Groundwater plume stability was also assessed considering the most recent results (3 to 5 years). The results from the Mann-Kendall trend test considering the most recent results showed that 20 of the 24 increasing trends identified using the entire monitoring period were observed to be stable (no statistically significant trend) during the recent period. Four increasing trends observed during the entire monitoring period were also increasing during the recent period (cis-1,2-DCE at WWTP tail monitoring well MW 28 and AOC 1 tail monitoring well MW 51, and vinyl chloride at WWTP margin monitoring well MW 83 and WWTP tail monitoring well MW 88). However, four additional increasing trends were observed for the recent period, when they were observed to be stable considering the entire monitoring period (cis-1,2-DCE at WWTP margin monitoring well MW 58, and vinyl chloride at WWTP source monitoring well MW 68, AOC 1 tail monitoring well MW 79, and WWTP margin monitoring well MW 80). Data from the last 3 to 5 years indicates that TCE concentrations have no statistically significant increasing trends and therefore have been stable.
8. One surface water sampling event was conducted in November 2020 at the Meadowbrook Golf Course central irrigation pond. 1,1-DCE, Cis-1,2-DCE, and vinyl chloride were detected at surface monitoring location Pond Intake. Cis-1,2-DCE and vinyl chloride were detected at surface water monitoring location Pond North.
9. Based on monitoring at adjacent monitoring well MW 85, the golf course irrigation pond appears to be within the former WWTP Area plume.
10. Based on the 2020 groundwater results from residential well MW 89-11, there is no current unacceptable risk to nearby residents due to groundwater volatilization to indoor air.

8. Recommendations

The following recommendation is provided with respect to ongoing monitoring:

1. It is recommended that the status of the off-Site non-potable water well north of monitoring well MW 88 be confirmed and the water well be sampled in 2021. The water well was last sampled in 2017 when it did not contain detectable concentrations of TCE, cis-1,2-DCE or vinyl chloride.

9. References

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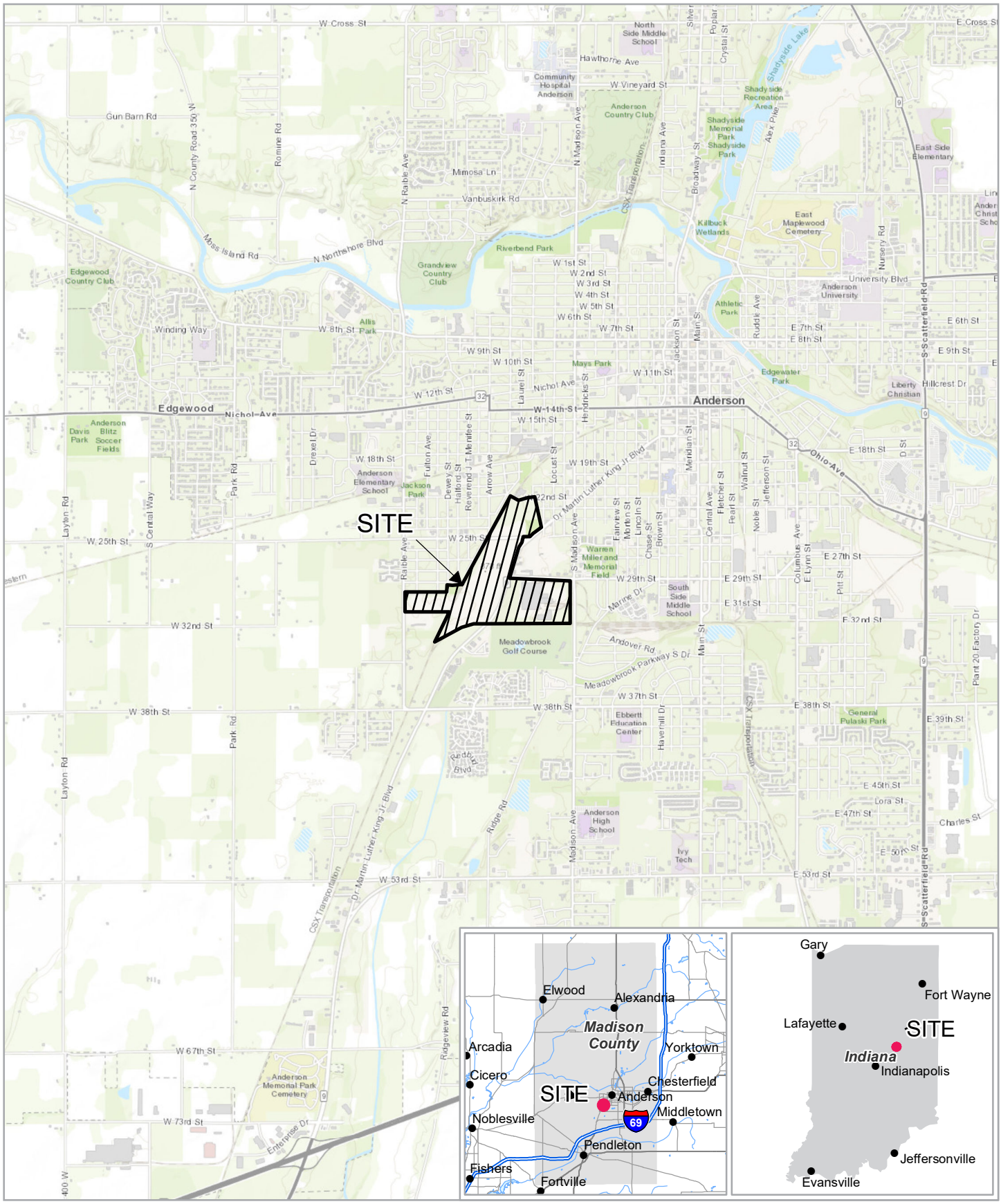
All of Which is Respectfully Submitted,

GHD

Robert Catallo, B.Sc.

Daniela Araujo, M.Sc.

Figures



Paper Size ANSI A

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Miles

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane Indiana East FIPS 1301 Feet

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REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT

SITE LOCATION MAP

Project No. **11209506**
Revision No. **-**
Date **Jan 11, 2021**

FIGURE 1

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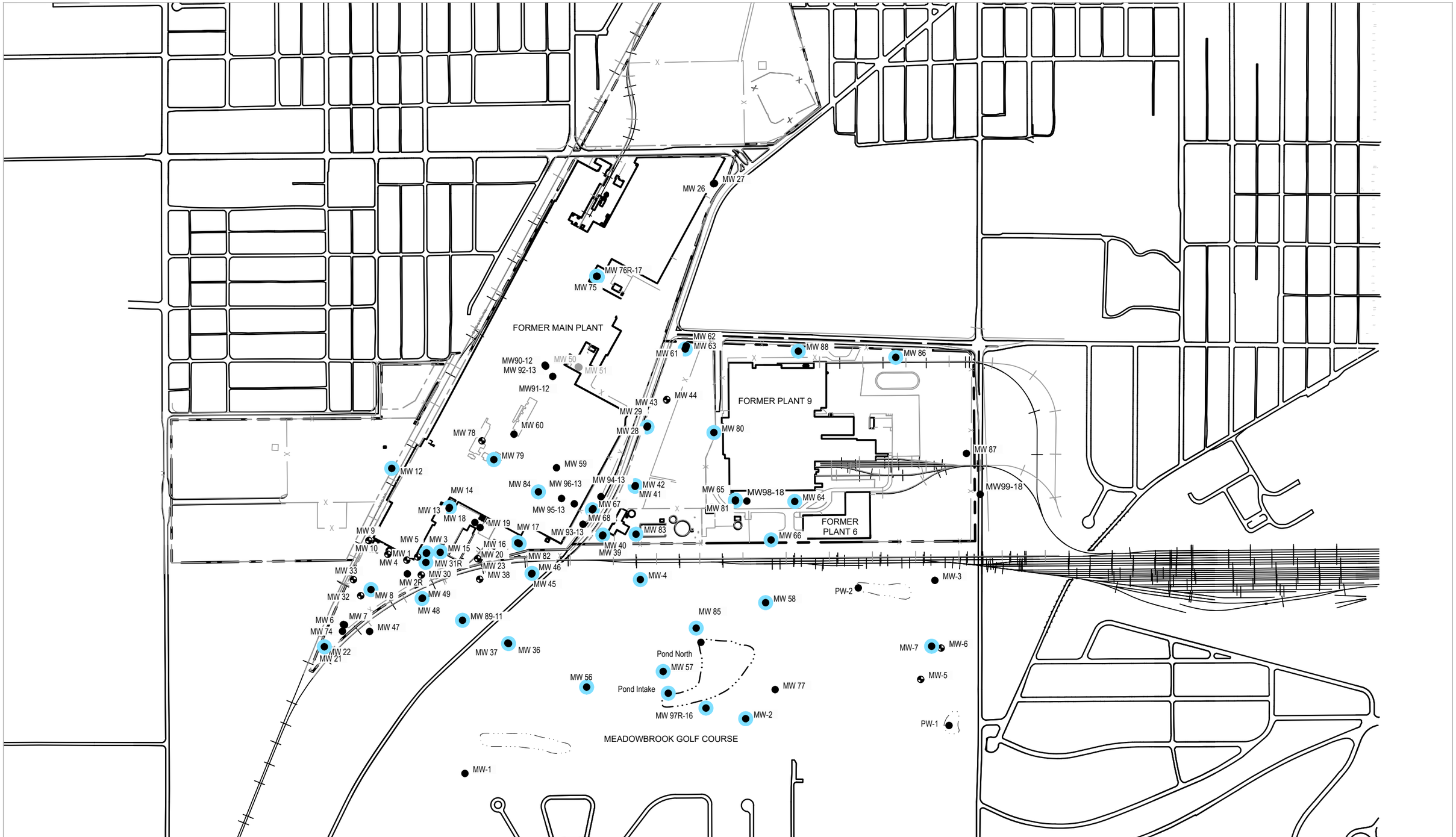

LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- BUILDING
- MONITORING WELL LOCATION
- SAMPLING LOCATIONS INCLUDED IN GMP
- MONITORING WELL NOT CURRENTLY ACCESSIBLE
- MONITORING WELL DECOMMISSIONED IN 2019

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

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REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT

SITE PLAN

Project No. **11209506**
Date **January 2021**

FIGURE 2

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC001.DWG
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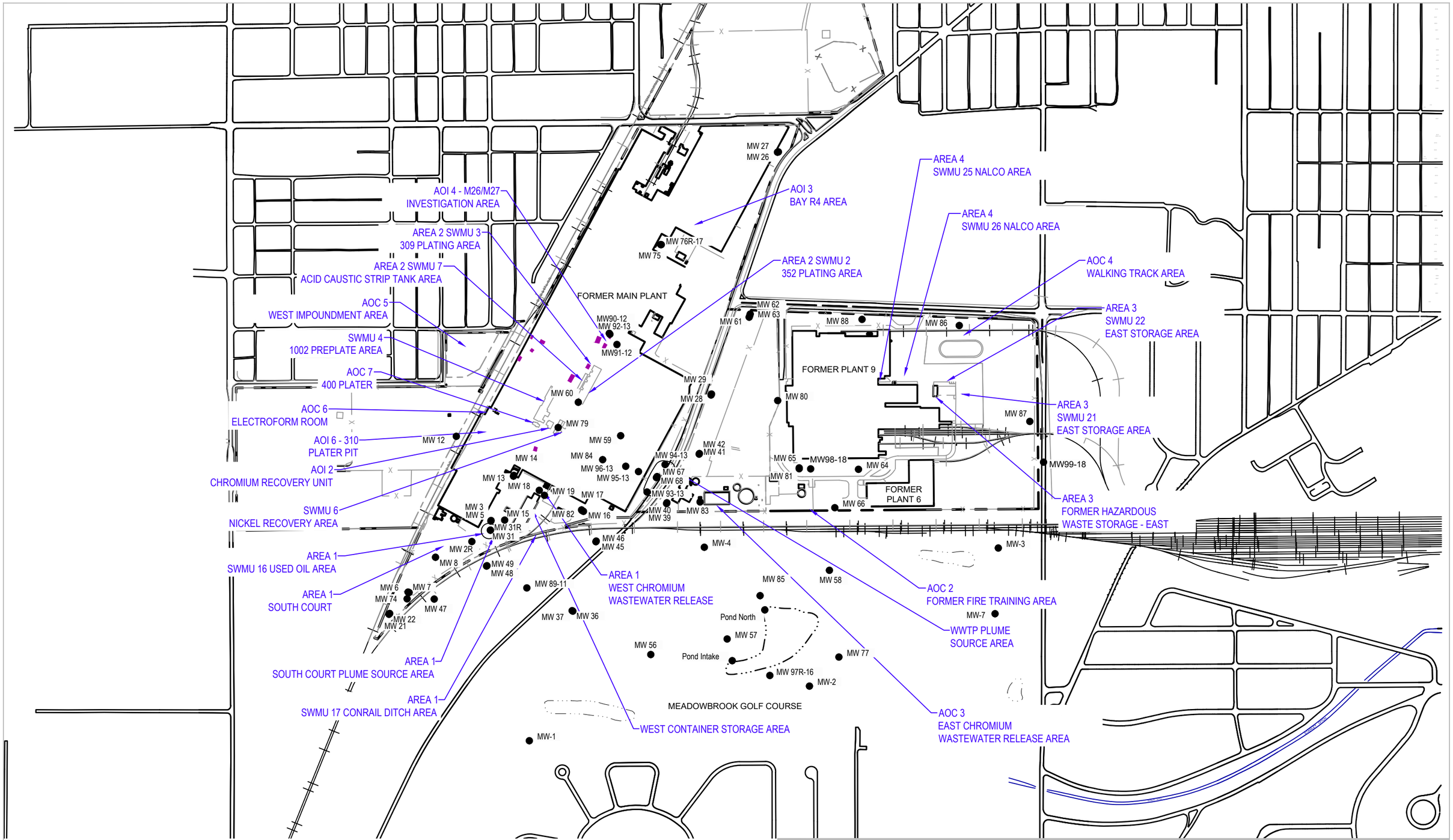

LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- BUILDING
- MONITORING WELL LOCATION
- AOI 5 AREA OF STAINED SOIL BENEATH CONCRETE

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

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REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT

AREAS OF INTEREST

Project No. **11209506**
Date **January 2021**

FIGURE 3

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC002.DWG
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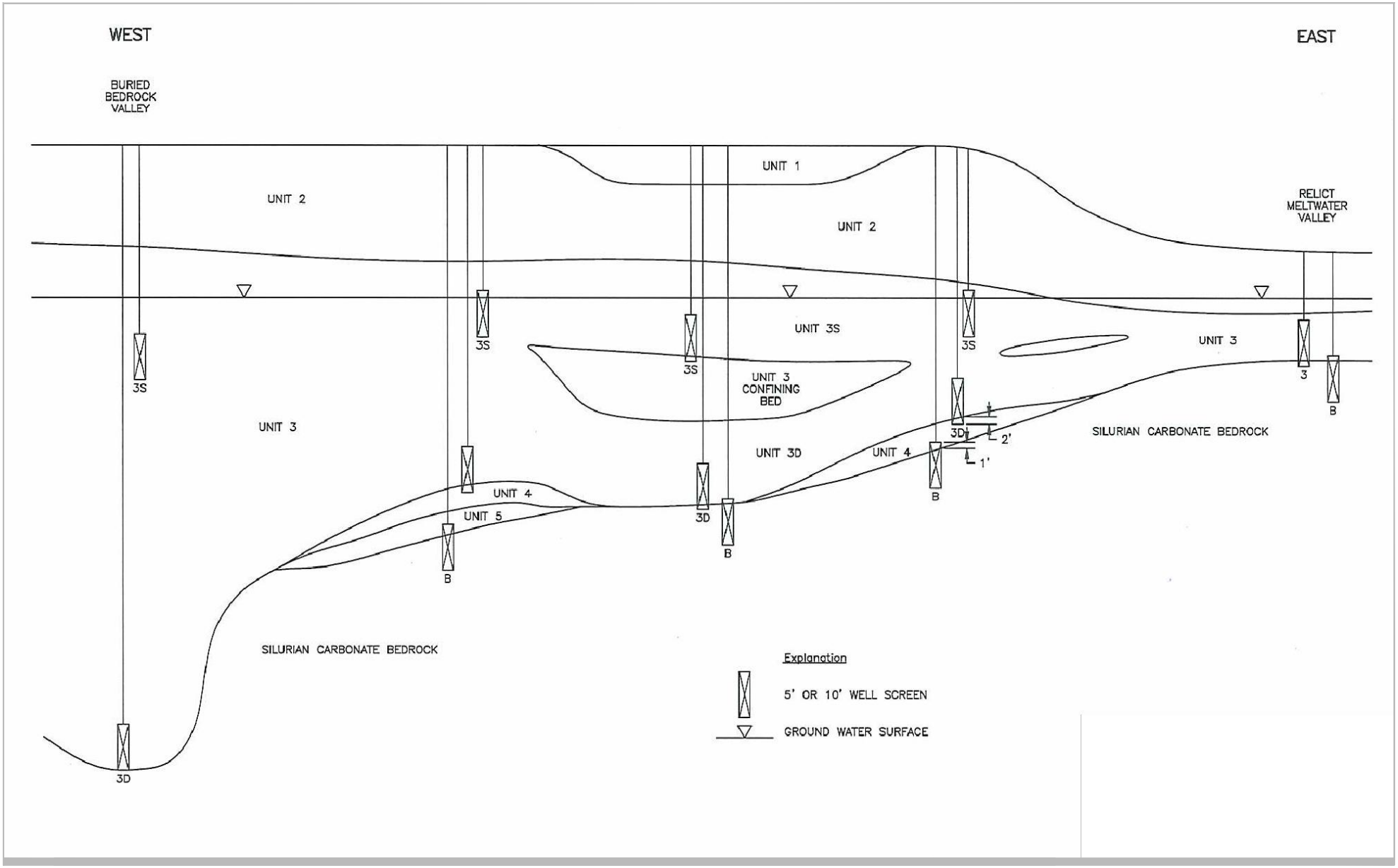

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT
GENERALIZED HYDROGEOLOGIC CROSS SECTION

Project No. **11209506**
Date **January 2021**

FIGURE 4

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC003.DWG
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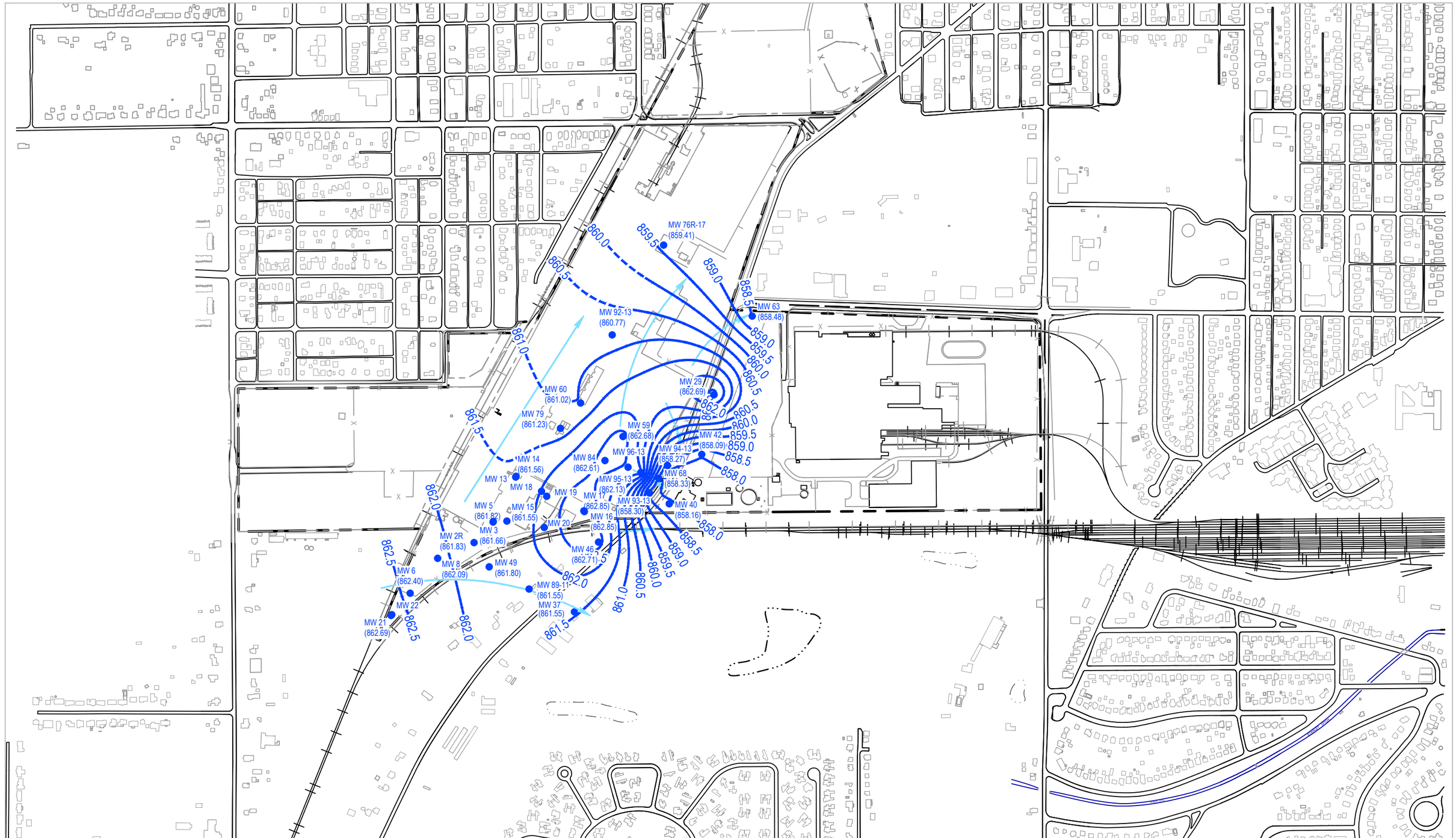

LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- FORMER BUILDING
- BUILDING
- MONITORING WELL USED TO DEVELOP CONTOURS
- (856.79) GROUNDWATER ELEVATION (FEET NAVD 88)
- 859.5 GROUNDWATER CONTOUR (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

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REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT
POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3S, NOV. 2020

Project No. **11209506**
Date **January 2021**

FIGURE 5

Data Source:AECOM, PROJECT NO. 60163563, DATE 2012-05-15

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC004.DWG
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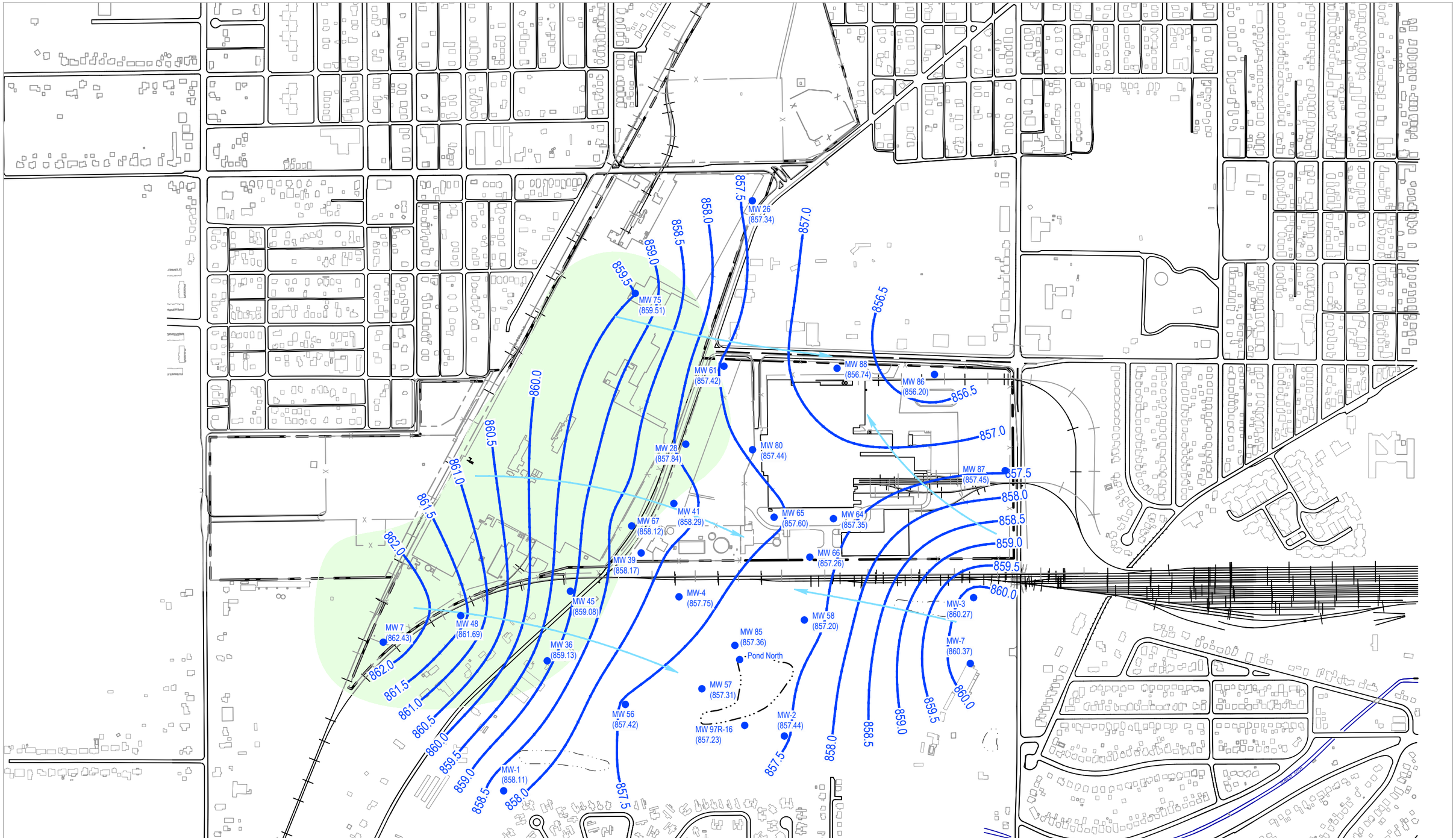

LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- FORMER BUILDING
- BUILDING
- MONITORING WELL USED TO DEVELOP CONTOURS
- BOUNDARY OF AREA WHERE UNIT 3 CLAY CONFINING BED IS PRESENT
- (856.79) GROUNDWATER ELEVATION (FEET NAVD 88)
- 859.5 GROUNDWATER CONTOUR (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

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REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT
POTENTIOMETRIC GROUNDWATER ELEVATIONS - UNIT 3D, NOV. 2020

Project No. **11209506**
Date **January 2021**

FIGURE 6

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC005.DWG
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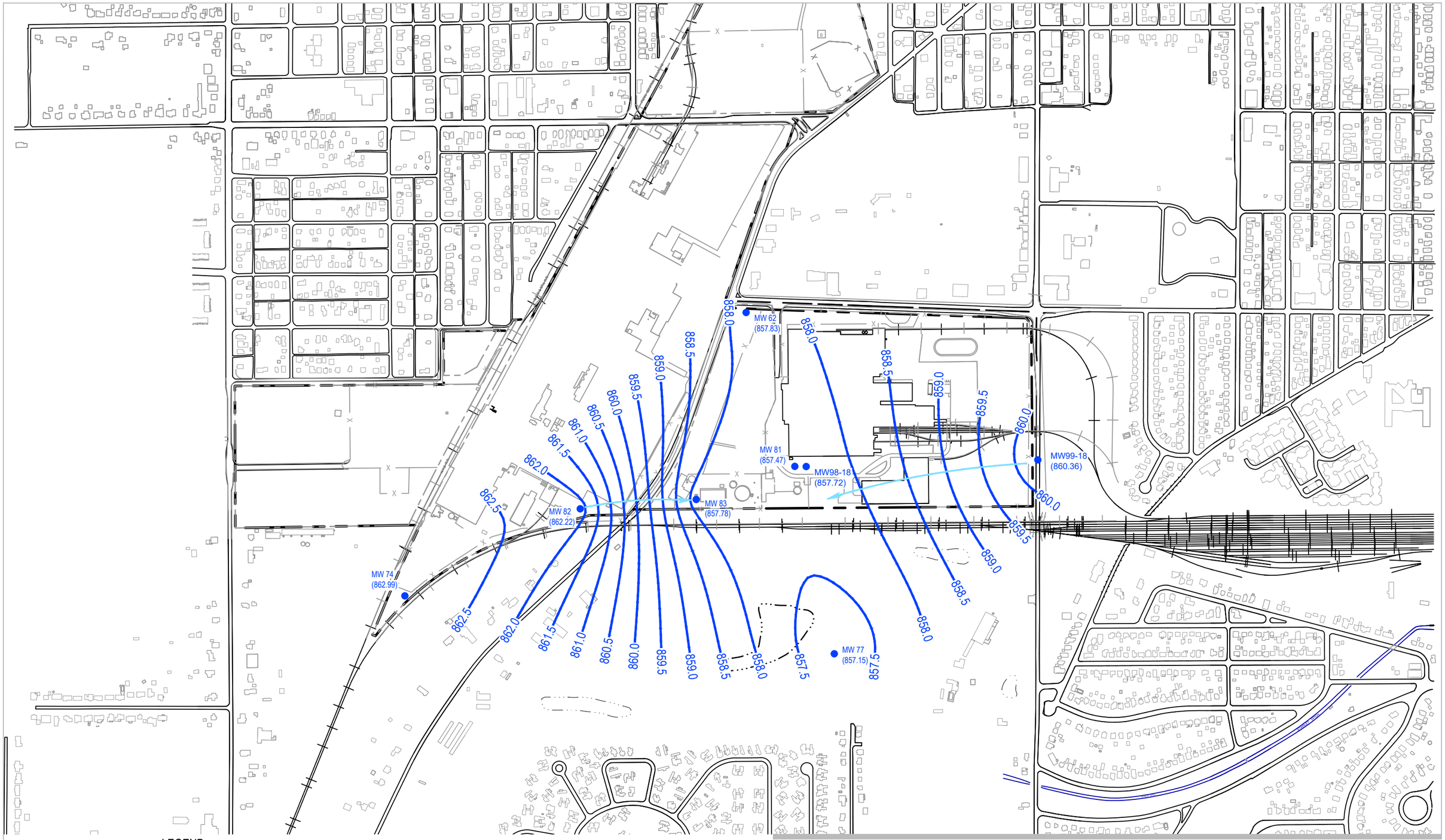


LEGEND

- SITE BOUNDARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- FORMER BUILDING
- BUILDING
- BEDROCK MONITORING WELL
- 859.5 (856.79) GROUNDWATER CONTOUR (FEET NAVD 88)
- GROUNDWATER ELEVATION (FEET NAVD 88)
- INFERRED DIRECTION OF GROUNDWATER FLOW

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

GHD

REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT

POTENTIOMETRIC GROUNDWATER ELEVATIONS - BEDROCK NOV. 2020

Project No. **11209506**
Date **January 2021**

FIGURE 7

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC006.DWG
Plot Date: 21 January 2021 11:01 AM

Data Source:AECOM, PROJECT NO. 60163563, DATE 2012-05-15

MW 51	04/20/2016	10/23/2016	04/18/2017	10/16/2017	04/10/2018	10/04/2018	04/29/2019
Benzene	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
Chloroform (Trichloromethane)	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
1,1-Dichloroethene	0.005 U	0.008 U	0.0033 U	0.0014 J	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
cis-1,2-Dichloroethene	0.011	0.012	0.015	0.028	0.0320/0.034	0.079	0.15/0.16
trans-1,2-Dichloroethene	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.0011 J
Ethylbenzene	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
Methylene chloride	0.005 U	0.008 U	0.0033 U	0.065	0.0066 U/0.0054 U	0.025 U	0.029 U/0.025 U
Tetrachloroethene	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
Toluene	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
1,1,1-Trichloroethane	0.005 U	0.008 U	0.0033 U	0.0033 U	0.0033 U/0.0033 U	0.005 U	0.0057 U/0.005 U
Trichloroethene	0.15 (A)	0.14 (A)	0.14 (A)	0.15 (A)	0.087 (A)/0.097 (A)	0.064 (A)	0.046 (A)/0.052 (A)
Vinyl chloride	0.0035 J	0.0053 J (B)	0.0041 (B)	0.0073 (B)	0.0038/0.0046 (B)	0.0035 J	0.0053 J (B)/0.0066 (B)

MW 75	10/23/2016	10/16/2017	10/02/2018	11/23/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.0007 J	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.013 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW 76R-17	10/18/2017	10/02/2018	11/11/2020
Benzene	0.001 U	0.001 U	0.0005 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.003 U
1,1-Dichloroethene	0.001 U	0.001 U	0.002 U
cis-1,2-Dichloroethene	0.0027	0.0028	0.0032
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.00028 J
Ethylbenzene	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.0016

MW 28	04/19/2016	10/22/2016	04/19/2017	10/09/2017	04/12/2018	10/04/2018	04/25/2019	11/06/2020
Benzene	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
Chloroform (Trichloromethane)	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
1,1-Dichloroethene	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
cis-1,2-Dichloroethene	0.77	0.86	0.85	0.92	0.97	1/1	1	1.3 (B)
trans-1,2-Dichloroethene	0.013 J	0.016 J	0.018 J	0.015 J	0.02 J	0.019 J/0.024 J	0.019 J	0.025 J
Ethylbenzene	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
Methylene chloride	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.33 U/0.33 U	0.2 U	0.33 U
Tetrachloroethene	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
Toluene	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
1,1,1-Trichloroethane	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
Trichloroethene	0.033 U	0.05 U	0.025 U	0.04 U	0.05 U	0.067 U/0.067 U	0.04 U	0.067 U
Vinyl chloride	0.15 (AB)	0.19 (AB)	0.1 (AB)	0.2 (AB)	0.17 (AB)	0.15 (AB)/0.16 (AB)	0.13 (AB)	0.18 (AB)

MW 29	10/17/2016
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.005 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

MW 41	10/22/2016	10/09/2017	10/04/2018	11/09/2020
Benzene	0.001 U	0.001 U	0.001 U	0.0005 U/0.0005 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.003 U/0.003 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.002 U/0.002 U
cis-1,2-Dichloroethene	0.00038 J	0.001 U	0.001 U	0.001 U/0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
Methylene chloride	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U/0.001 U
Vinyl chloride	0.00069 J	0.001 U	0.0013	0.00077 J/0.0011

MW 42	04/19/2016	10/23/2016	04/19/2017	10/09/2017	04/13/2018	10/04/2018	04/26/2019	11/09/2020
Benzene	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.00061
Chloroform (Trichloromethane)	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.003 U
1,1-Dichloroethene	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.023
cis-1,2-Dichloroethene	4.1 (B)	3.2 (B)	2.9 (B)	3.7 (B)	3.9 (B)	3.5 (B)	2.4 (B)	2.9 (B)
trans-1,2-Dichloroethene	0.19	0.14 J	0.09 J	0.095 J	0.14 J	0.15 J	0.1	0.13
Ethylbenzene	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.001 U
Methylene chloride	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	1 U	0.5 U	0.001 U
Tetrachloroethene	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.001 U
Toluene	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.001 U
1,1,1-Trichloroethane	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.001 U
Trichloroethene	0.17 U	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.0072
Vinyl chloride	0.092 J (AB)	0.1 J (AB)	0.22 (AB)	0.26 (AB)	0.11 J (AB)	0.2 U	0.087 J (AB)	0.22 (AB)

MW 84	10/24/2016	10/13/2017	10/04/2018	10/17/2019	11/09/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.003 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U
cis-1,2-Dichloroethene	0.001	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 59	10/17/2019
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.005 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

MW92-13	10/16/2019	11/05/2020
Benzene	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U
Methylene chloride	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U
Toluene	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U

MW 80	10/22/2016	10/06/2017	10/02/2018	11/06/2020
Benzene	0.0018 U	0.002 U	0.002 U	0.0005 U
Chloroform (Trichloromethane)	0.0018 U	0.002 U	0.002 U	0.003 U
1,1-Dichloroethene	0.0018 U	0.002 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	0.025	0.0086	0.015	0.013
trans-1,2-Dichloroethene	0.00078 J	0.002 U	0.001 J	0.00064 J
Ethylbenzene	0.0018 U	0.002 U	0.002 U	0.001 U
Methylene chloride	0.0018 U	0.002 U	0.01 U	0.001 U
Tetrachloroethene	0.0018 U	0.002 U	0.002 U	0.001 U
Toluene	0.0018 U	0.002 U	0.002 U	0.001 U
1,1,1-Trichloroethane	0.0018 U	0.002 U	0.002 U	0.001 U
Trichloroethene	0.0018 U	0.002 U	0.002 U	0.001 U
Vinyl chloride	0.049 (AB)	0.041 (AB)	0.001 (AB)	0.003 (AB)

MW 86	10/22/2016	10/13/2017	10/04/2018	11/04/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW 12	04/21/2016	10/25/2016	04/19/2017	10/06/2017	04/11/2018	10/04/2018	04/25/2019	11/04/2020
Benzene	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
Chloroform (Trichloromethane)	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
1,1-Dichloroethene	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
cis-1,2-Dichloroethene	0.13	0.12	0.11	0.1	0.08	0.09	0.072	
trans-1,2-Dichloroethene	0.0018 J	0.005 U	0.0012 J	0.0012 J	0.0067 U	0.005 U	0.0019 J	0.00089 J
Ethylbenzene	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
Methylene chloride	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.017 U	0.013 U
Tetrachloroethene	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
Toluene	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
1,1,1-Trichloroethane	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0025 U
Trichloroethene	0.005 U	0.005 U	0.00085 J	0.0033 U	0.0026 J	0.005 U	0.00048 J	0.00028 J
Vinyl chloride	0.005 U	0.005 U	0.0025 U	0.0033 U	0.0067 U	0.005 U	0.0033 U	0.0005 J

MW 14	04/19/2016	10/25/2016	04/18/2017	10/13/2017	04/12/2018	10/03/2018	04/29/2019	11/09/2020
Benzene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.00094
Chloroform (Trichloromethane)	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.003 U
1,1-Dichloroethene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.031
cis-1,2-Dichloroethene	4.4 (B)	4.4 (B)	4.1 (B)/3.9 (B)	4.1 (B)/4 (B)	4 (B)	4.1 (B)	3.2 (B)	3 (B)
trans-1,2-Dichloroethene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.024
Ethylbenzene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.001 U
Methylene chloride	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	1 U	0.71 U	0.001 U
Tetrachloroethene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.001 U
Toluene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.001 U
1,1,1-Trichloroethane	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.001 U
Trichloroethene	0.17 U	0.2 U	0.13 U/0.13 U	0.2 U/0.2 U	0.2 U	0.2 U	0.14 U	0.014
Vinyl chloride	0.14 J (AB)	0.12 J (AB)	0.13 (AB)/0.13 (AB)	0.15 J (AB)/0.15 J (AB)	0.11 J (AB)	0.13 J (AB)	0.1 J (AB)	0.13 (AB)

MW 16	10/23/2016	10/12/2017	10/03/2018	10/16/2019	11/10/2020
Benzene	0.001 U	0.001 U	0.005 U	0.63 U	0.00031 J
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.005 U	0.63 U	0.0018 J
1,1-Dichloroethene	0.001 U	0.001 U	0.005 U	0.63 U	0.047
cis-1,2-Dichloroethene	0.001 U	0.0019	0.005 U	9.6 (B)	5.6 (B)
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.005 U	0.63 U	0.081
Ethylbenzene	0.001 U	0.001 U	0.005 U	0.63 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.025 U	3.1 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.005 U	0.63 U	0.001 U
Toluene	0.001 U	0.00027 J	0.005 U	0.63 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.005 U	0.63 U	0.00046 J
Trichloroethene	0.001 U	0.00077	0.005 U	0.63 U	0.001 U
Vinyl chloride	0.001 U	0.03 (B)	0.22 (AB)	0.63 U	0.019 (B)

MW 02	10/23/2016	10/12/2017	10/10/2018	11/10/2020
Benzene	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.0005 U
Chloroform (Trichloromethane)	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.003 U
1,1-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.002 U
cis-1,2-Dichloroethene	0.001 U	0.0020/0.002	0.001 U/0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U/0.001 U	0.005 U/0.005 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Toluene	0.001 U	0.0004 J/0.00038 J	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U	0.00097 J/0.00096 J	0.00012 J/0.00014 J	0.001 U
Vinyl chloride	0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U

MW 15	10/21/2016	10/11/2017	10/02/2018	11/12/2020
Benzene	0.1 U	0.067 U	0.2 U	0.00028 J
Chloroform (Trichloromethane)	0.1 U	0.067 U	0.2 U	0.0065
1,1-Dichloroethene	0.1 U	0.079	0.049 J	0.029
cis-1,2-Dichloroethene	1.7 (B)	3.5 (B)	5.4 (B)	1.9 (B)
trans-1,2-Dichloroethene	0.1 U	0.042 J	0.056 J	0.027
Ethylbenzene	0.1 U	0.067 U	0.2 U	0.001 U
Methylene chloride	0.1 U	0.067 U	1 U	0.001 U
Tetrachloroethene	0.1 U	0.067 U	0.2 U	0.0027
Toluene	0.1 U	0.067 U	0.2 U	0.001 U
1,1,1-Trichloroethane	0.37	0.32	0.23	0.43
Trichloroethene	2.5 (A)	4.1 (A)	3.7 (A)	2.5 (A)
Vinyl chloride	0.1 U	0.052 J (AB)	0.063 J (AB)	0.041 (AB)

MW 3	04/20/2016	10/25/2016	04/18/2017	10/12/2017	04/11/2018	10/03/2018	04/28/2019	11/12/2020
Benzene	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.0005 U
Chloroform (Trichloromethane)	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.0018 J
1,1-Dichloroethene	0.5 U	0.25 U	0.075 J	0.074 J	0.5 U	0.068 J	0.063 J	0.015
cis-1,2-Dichloroethene	7.4 (B)	1.9 (B)	7.4 (B)	1.6 (B)	3.2 (B)	4.8 (B)	2.5 (B)	0.63
trans-1,2-Dichloroethene	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.012
Ethylbenzene	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.01 U
Methylene chloride	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	1.3 U	1 U	0.001 U
Tetrachloroethene	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.0027
Toluene	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.01 U
1,1,1-Trichloroethane	0.39 J	0.33	0.38	0.25	0.35 J	0.34	0.3	0.28
Trichloroethene	12 (A)	4.9 (A)	11 (A)	4.4 (A)	7.8 (A)	8.5 (A)	7.8 (A)	2.1 (A)
Vinyl chloride	0.5 U	0.25 U	0.25 U	0.1 U	0.5 U	0.25 U	0.2 U	0.026 (B)

MW 31R	04/20/2016	10/21/2016	04/19/2017	10/12/2017	04/10/2018	10/02/2018	04/28/2019	11/12/2020
Benzene	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	1 U/1 U	5 U	0.0034
Chloroform (Trichloromethane)	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	1 U/1 U	5 U	0.003 U
1,1-Dichloroethene	0.5 U	0.71 U/0.71 U	0.63 U	0.38 J	1 U	1 U/1 U	5 U	0.048
cis-1,2-Dichloroethene	15 (B)	18 (B)/18 (B)	18 (B)	69 (B)	20 (B)	33 (B)/32 (B)	95 (B)	16 (B)
trans-1,2-Dichloroethene	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	1 U/1 U	5 U	0.053
Ethylbenzene	0.46 J	0.760.69 J	0.68	0.74 J	0.36 J	0.65 J/0.59 J	0.66 J	0.57
Methylene chloride	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	5 U/5 U	25 U	0.0056
Tetrachloroethene	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	1 U/1 U	5 U	0.0011
Toluene	1.5	21.9	2	3.6	1.5	2.6/2.4	4.7 J	2.4
1,1,1-Trichloroethane	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	1 U/1 U	5 U	0.062
Trichloroethene	0.5 U	0.71 U/0.71 U	0.63 U	0.83 U	1 U	1 U/1 U	5 U	0.038 J
Vinyl chloride	1.5 (AB)	3.4 (AB)/3.4 (AB)	2 (AB)	9 (AB)	1.1 (AB)	2.4 (AB)/2.1 (AB)	5.7 (AB)	3.5 (AB)

MW 8	04/20/2016	10/21/2016	04/18/2017	10/12/2017	04/10/2018	10/02/2018	04/29/2019	11/11/2020
Benzene	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.0005 U
Chloroform (Trichloromethane)	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.003 U
1,1-Dichloroethene	0.2 U/0.2 U	0.2 U	0.1 U	0.049 J	0.2 U	0.1 U	0.067 U	0.014
cis-1,2-Dichloroethene	4.9 (B)/4.9 (B)	4.3 (B)	3.1 (B)	4 (B)	3.6 (B)	2.2 (B)	1.4 (B)	2.2 (B)
trans-1,2-Dichloroethene	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.018
Ethylbenzene	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.001 U
Methylene chloride	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.5 U	0.33 U	0.001 U
Tetrachloroethene	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.001 U
Toluene	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.001 U
1,1,1-Trichloroethane	0.2 U/0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.067 U	0.0067
Trichloroethene	0.17 J/0.16 J (A)	0.39 (A)	0.09 J (A)	0.37 (A)	0.15 J (A)	0.17 (A)	0.089 (A)	0.16 (A)
Vinyl chloride	2.1 (AB)/2 (AB)	1.3 (AB)	1.6 (AB)	1.3 (AB)	0.62 (AB)	0.64 (AB)	0.87 (AB)	0.71 (AB)

MW 21	10/21/2016	10/18/2017	10/03/2018	11/11/2020
Benzene	0.001 U	0.001 U	0.001 U	0.0005 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.003 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.002 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.00046 J	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.005 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.0013	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW 68	04/19/2016	10/20/2016	04/17/2017	10/11/2017	04/11/2018	10/02/2018	04/26/2019	11/12/2020
Benzene	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	0.2 U	0.2 U	0.0038/0.0043
Chloroform (Trichloromethane)	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	0.2 U	0.2 U	0.003 U/0.003 U
1,1-Dichloroethene	0.17 U	0.2 U	0.13 U	0.055 J	0.2 U	0.2 U	0.2 U	0.019/0.02
cis-1,2-Dichloroethene	4.5 (B)	3.5 (B)	3.7 (B)	4.2 (B)	3.7 (B)	4.4 (B)	4.4 (B)	3 (B)/3 (B)
trans-1,2-Dichloroethene	0.12 J	0.14 J	0.15	0.16	0.15 J	0.17 J	0.17 J	0.150.17
Ethylbenzene	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	0.2 U	0.2 U	0.001 U/0.001 U
Methylene chloride	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	1 U	1 U	0.001 U/0.001 U
Tetrachloroethene	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	0.2 U	0.2 U	0.001 U/0.001 U
Toluene	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	0.2 U	0.2 U	0.001 U/0.001 U
1,1,1-Trichloroethane	0.17 U	0.2 U	0.13 U	0.1 U	0.2 U	0.2 U	0.2 U	0.001 U/0.001 U
Trichloroethene	1 (A)	1.7 (A)	1.5 (A)	1.6 (A)	1.7 (A)	1.4 (A)	1.4 (A)	1.1 (A)/1.2 (A)
Vinyl chloride	0.15 J (AB)	0.15 J (AB)	0.13 (AB)	0.16 (AB)	0.099 J (AB)	0.11 J (AB)	0.16 J (AB)	0.22 (AB)/0.23 (AB)

MW 40	04/19/2016	10/20/2016	04/18/2017	10/10/2017	04/13/2018	10/03/2018	04/26/2019	11/12/2020
Benzene	0.2 U	0.25 U	0.13 U	0.13 U/0.13 U	0.33 U	0.2 U	0.2 U	0.0049
Chloroform (Trichloromethane)	0.2

MW 85	04/22/2016	10/24/2016	04/18/2017	10/17/2017	04/12/2018	10/08/2018	04/29/2019	11/03/2020
Benzene	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
Chloroform (Trichloromethane)	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
1,1-Dichloroethene	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
cis-1,2-Dichloroethene	9.9 (ADE)/10 (ADE)	8.4 (ADE)	8.4 (ADE)	8.6 (ADE)	7.3 (ADE)	9 (ADE)	4.4 (ADE)	6.1 (ADE)
trans-1,2-Dichloroethene	0.23 J (A)/0.26 J (A)	0.26 J (A)	0.28 J (A)	0.29 (A)	0.26 J (A)	0.28 J (A)	0.1 J	0.19 J (A)
Ethylbenzene	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
Methylene chloride	0.5 U/0.5 U	0.56 U	0.33 U	4.3 (A)	0.5 U	2.5 U	1 U	1.7 U
Tetrachloroethene	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
Toluene	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
1,1,1-Trichloroethane	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
Trichloroethene	0.5 U/0.5 U	0.56 U	0.33 U	0.2 U	0.5 U	0.5 U	0.2 U	0.33 U
Vinyl chloride	0.34 J (ABCDE)/0.35 J (ABCDE)	0.42 J (ABCDE)	0.42 (ABCDE)	0.45 (ABCDE)	0.35 J (ABCDE)	0.68 (ABCDE)	0.32 (ABCDE)	0.56 (ABCDE)

MW-4	04/22/2016	10/24/2016	04/18/2017	10/17/2017	04/12/2018	10/08/2018	04/29/2019	11/03/2020
Benzene	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
Chloroform (Trichloromethane)	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
1,1-Dichloroethene	0.5 U	0.56 U	0.33 U	0.12 J (A)/0.12 J (A)	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
cis-1,2-Dichloroethene	9.4 (ADE)	7.9 (ADE)	8.6 (ADE)	8.6 (ADE)/8 (ADE)	8.8 (ADE)/8.3 (ADE)	8.9 (ADE)	6.8 (ADE)	7.8 (ADE)
trans-1,2-Dichloroethene	0.23 J (A)	0.2 J (A)	0.26 J (A)	0.2 J(A)/0.19 (A)	0.21 J (A)/0.22 J (A)	0.2 J (A)	0.13 J (A)	0.14 J (A)
Ethylbenzene	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
Methylene chloride	0.5 U	0.56 U	0.33 U	3.2 (A)/3.5 (A)	0.5 U/0.5 U	2.5 U	1.3 U	1.7 U
Tetrachloroethene	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
Toluene	0.5 U	0.56 U	0.33 U	0.17 U/0.17 U	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
1,1,1-Trichloroethane	0.5 U	0.56 U	0.33 U	0.16 J/0.17 U	0.5 U/0.5 U	0.5 U	0.25 U	0.33 U
Trichloroethene	0.8 (ABCD)	1.7 (ABCD)	1.1 (ABCD)	2.4 (ABCD)/2.1 (ABCD)	1.3 (ABCD)/1.4 (ABCD)	1.6 (ABCD)	0.8 (ABCD)	1 (ABCD)
Vinyl chloride	0.53 (ABCDE)	0.63 (ABCDE)	0.84 (ABCDE)	0.73 (ABCDE)/0.66 (ABCDE)	0.68 (ABCDE)/0.65 (ABCDE)	0.68 (ABCDE)	0.5 (ABCDE)	0.56 (ABCDE)

MW 46	10/23/2016	10/16/2017	10/05/2018	10/16/2019	11/05/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.0005 J	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.012 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.00015 J	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 49	04/21/2016	04/11/2018	10/03/2018	04/25/2019	10/16/2019	11/05/2020
Benzene	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
Chloroform (Trichloromethane)	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
1,1-Dichloroethene	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
cis-1,2-Dichloroethene	0.83 (A)	0.89 (A)	0.89 (A)	0.83 (A)	0.69 (A)/0.7 (A)	0.6 (A)
trans-1,2-Dichloroethene	0.02 J	0.027 J	0.029 J	0.031 J	0.016 J/0.019 J	0.023 J
Ethylbenzene	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
Methylene chloride	0.033 U	0.05 U	0.2 U	0.17 U	0.25 U/0.25 U	0.17 U
Tetrachloroethene	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
Toluene	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
1,1,1-Trichloroethane	0.033 U	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U
Trichloroethene	0.033 U	0.05 U	0.047 (ABC)	0.029 J (AB)	0.05 U/0.05 U	0.021 J (AB)
Vinyl chloride	0.011 J (ABDE)	0.05 U	0.04 U	0.033 U	0.05 U/0.05 U	0.033 U

MW89-11	04/20/2016	10/25/2016	04/19/2017	10/17/2017	04/11/2018	10/08/2018	04/25/2019	11/05/2020
Benzene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.00059 J	0.001 U	0.00023 J	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.0003 J/0.001 U	0.0033 U	0.00059 J	0.001 U	0.001 U	0.00037 J	0.001 U
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U/0.001 U	0.0003B J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U/0.001 U	0.0008M J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.0019J/0.0019	0.00033 J	0.0026	0.00066 J	0.0029	0.00057 J	0.0062
Trichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.00036 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

MW 37	10/23/2016	10/16/2017	10/05/2018	11/04/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.013 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW 56	10/24/2016	10/18/2017	10/05/2018	11/03/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.00066 J

MW 57	10/24/2016	10/18/2017	10/08/2018	11/03/2020
Benzene	0.002 U	0.0033 U	0.001 U	0.05 U
Chloroform (Trichloromethane)	0.002 U	0.0033 U	0.001 U	0.05 U
1,1-Dichloroethene	0.002 U	0.0033 U	0.001 U	0.05 U
cis-1,2-Dichloroethene	0.0042	0.0033 U	0.0082 U	0.18 (A)
trans-1,2-Dichloroethene	0.002 U	0.0033 U	0.001 U	0.05 U
Ethylbenzene	0.002 U	0.0033 U	0.001 U	0.05 U
Methylene chloride	0.002 U	0.0037 U	0.005 U	0.25 U
Tetrachloroethene	0.002 U	0.0033 U	0.001 U	0.05 U
Toluene	0.002 U	0.0033 U	0.001 U	0.05 U
1,1,1-Trichloroethane	0.002 U	0.0033 U	0.001 U	0.05 U
Trichloroethene	0.002 U	0.0033 U	0.001 U	0.05 U
Vinyl chloride	0.046 (ABCDE)	0.096 (ABCDE)	0.02 (ABDE)	0.98 (ABCDE)

Pond North	04/22/2016	07/19/2016	10/24/2016	04/18/2017	07/12/2017	10/19/2017	04/09/2018	07/05/2018	10/09/2018	04/24/2019	10/08/2019	11/03/2020
Benzene	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
Chloroform (Trichloromethane)	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
1,1-Dichloroethene	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
cis-1,2-Dichloroethene	0.12 (A)	0.09 (A)/0.081 (A)	0.5 (A)	0.21 (A)/0.2 (A)	0.11 (A)/0.1 (A)	0.35 (A)	0.21 (A)/0.22 (A)	0.16 (A)	0.13 (A)/0.13 (A)	0.18 (A)	0.1 (A)/0.1 (A)	0.2 (A)/0.2 (A)
trans-1,2-Dichloroethene	0.0053	0.0030/0.0027	0.021 J	0.0084/0.0092	0.0041/0.004	0.014	0.0071 J/0.0087 J	0.0095	0.0033 J/0.0037 J	0.0066	0.0025 J/0.0027 J	0.0074 J/0.0071 J
Ethylbenzene	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
Methylene chloride	0.0053 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.034 U	0.031 U	0.033 U/0.033 U	0.025 U	0.025 U/0.025 U	0.05 U/0.05 U
Tetrachloroethene	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
Toluene	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0033 U/0.0033 U	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
1,1,1-Trichloroethane	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0009M J/0.00095 J	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.005 U	0.005 U/0.005 U	0.01 U/0.01 U
Trichloroethene	0.005 U	0.0025 U/0.0025 U	0.033 U	0.0067 U/0.0067 U	0.0071 (A)/0.0073 (A)	0.01 U	0.011 U/0.01 U	0.0063 U	0.0067 U/0.0067 U	0.0011 J	0.005 U/0.005 U	0.01 U/0.01 U
Vinyl chloride	0.0078 (ABDE)	0.0064 (ABDE)/0.0062 (ABDE)	0.033 U	0.01 (ABDE)/0.011 (ABDE)	0.0053 (ABDE)/0.0052 (ABDE)	0.017 (ABDE)	0.014 (ABDE)/0.018 (ABDE)	0.023 J (ABDE)	0.0059 J (ABDE)/0.0064 J (ABDE)	0.0099 (ABDE)	0.0039 J (ABDE)/0.004 J (ABDE)	0.011 (ABDE)/0.0091 J (ABDE)

MW 58	10/25/2016	10/17/2017	10/08/2018	11/03/2020
Benzene	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
Chloroform (Trichloromethane)	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
1,1-Dichloroethene	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
cis-1,2-Dichloroethene	1.1 (ADE)	2.2 (ADE)	3 (ADE)	2.9 (ADE)/2.9 (ADE)
trans-1,2-Dichloroethene	0.025 J	0.081	0.13 J (A)	0.14 J(A)/0.14 (A)
Ethylbenzene	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
Methylene chloride	0.05 U	1.1 (A)	1 U	0.71 U/0.71 U
Tetrachloroethene	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
Toluene	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
1,1,1-Trichloroethane	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
Trichloroethene	0.05 U	0.05 U	0.2 U	0.14 U/0.14 U
Vinyl chloride	0.085 (ABCDE)	0.059 (ABCDE)	0.064 J (ABCDE)	0.13 J (ABCDE)/0.12 J (ABCDE)

MW-7	10/18/2017	10/09/2018	11/03/2020
Benzene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U/0.001 U	0.00018 J/0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Ethylbenzene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Methylene chloride	0.001 U/0.001 U	0.005 U/0.005 U	0.005 U
Tetrachloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Toluene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Vinyl chloride	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U

MW97-14	10/20/2015
	3d
Benzene	0.001 U
Chloroform (Trichloromethane)	0.001 U
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
trans-1,2-Dichloroethene	0.001 U
Ethylbenzene	0.001 U
Methylene chloride	0.001 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,1,1-Trichloroethane	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

MW97N-16	10/25/2016	10/18/2017	10/09/2018	11/03/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.0012	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

MW-2	10/24/2016	10/17/2017	10/08/2018	11/03/2020
Benzene	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.0014	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.001 U	0.001 U	0.005 U	0.005 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U

Pond Intake	04/22/2016	07/19/2016	10/24/2016	04/18/2017	07/12/2017	10/19/2017	04/09/2018	07/05/2018	10/09/2018	04/24/2019	10/08/2019	11/03/2020
Benzene	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
Chloroform (Trichloromethane)	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
1,1-Dichloroethene	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
cis-1,2-Dichloroethene	0.077 (A)	0.055	0.036/0.034	0.059	0.11 (A)	0.052	0.12 (A)	0.077 (A)/0.072 (A)	0.1 (A)	0.12 J+ (A)/0.1 (A)	0.061	0.076 (A)
trans-1,2-Dichloroethene	0.003	0.0016 J	0.001 J/0.0009 J	0.0023	0.0043	0.0014 J	0.0046 J	0.0019 J/0.0017 J	0.0025 J	0.0041 J+/0.0038	0.001 J	0.0024 J
Ethylbenzene	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
Methylene chloride	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.016 U	0.017 U/0.017 U	0.025 U	0.017 U/0.017 U	0.0084 U	0.013 U
Tetrachloroethene	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
Toluene	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.004 U	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
1,1,1-Trichloroethane	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.00092 J	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.0033 U/0.0033 U	0.0017 U	0.0025 U
Trichloroethene	0.0025 U	0.0017 U	0.0018 U/0.002 U	0.0017 U	0.0073 (A)	0.002 U	0.005 U	0.0033 U/0.0033 U	0.005 U	0.001 J+/0.0009 J	0.0017 U	0.0025 U
Vinyl chloride	0.0044 (ABDE)	0.0049 (ABDE)	0.0031 (ABD)/0.0029 (ABD)	0.0063 (ABDE)	0.0051 (ABDE)	0.0048 (ABDE)	0.013 (ABDE)	0.0073 (ABDE)/0.0076 (ABDE)	0.005 (ABDE)	0.0088 J+ (ABDE)/0.0086 (ABDE)	0.0039 (ABDE)	0.0039 (ABDE)

LEGEND

- SITE BOUNDARY
- LOT LINE
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- BUILDING
- MONITORING WELL LOCATION

- SAMPLE LOCATION
- SAMPLE DATE
- GEOLOGIC UNIT
  - WS - SURFACE WATER
  - 1 - UNIT 1, PERCHED GROUNDWATER IN FILL
  - 3S - UNIT 3, SHALLOW GROUNDWATER IN UPPERMOST AQUIFER
  - 3I - UNIT 3, INTERMEDIATE GROUNDWATER IN UPPERMOST AQUIFER
  - 3D - UNIT 3, DEEP GROUNDWATER IN UPPERMOST AQUIFER
  - B - BEDROCK, GROUNDWATER IN BEDROCK AQUIFER
- CONCENTRATION (mg/L)
- PARAMETER
- 0.34 (A) EXCEEDANCE OF ONE OR MORE SCREENING CRITERIA
- SAMPLE LOCATIONS INCLUDED IN GMP

SCREENING CRITERIA

CHEMICAL NAME	A	B	C	D	E	UNIT
Benzene	0.005	0.028	0.12	-	-	mg/L
Chloroform (Trichloromethane)	0.08	-	-	-	-	mg/L
1,1-Dichloroethene	0.007	0.3	1.3	24.1	5.1	mg/L
cis-1,2-Dichloroethene	0.07	-	-	1	1	mg/L
trans-1,2-Dichloroethene	0.1	-	-	10	2	mg/L
Ethylbenzene	0.7	-	-	-	-	mg/L
Methylene chloride	0.005	-	-	-	-	mg/L
Tetrachloroethene	0.005	0.11	0.47	-	-	mg/L
Toluene	1	-	54	-	-	mg/L
1,1,1-Trichloroethane	0.2	13	54	818	29	mg/L
Trichloroethene	0.005	0.0091	0.038	0.127	29	mg/L
Vinyl chloride	0.002	0.0021	0.035	0.000848	0.0038	mg/L

A IDEM Residential Tap Water (2019)
B IDEM Vapor Exp Residential Criteria (2019)
C IDEM Vapor Exp Comm/Ind Criteria (2019)
D Site-Specific Closure Level (SSCL/RCR)
E Site-Specific Closure Level (SSCL/CITW)

NOTES:
1. Parameters that do not appear in the databox for a particular sample were not analyzed.
2. Sample results rounded to three decimal places.
3. Screening criteria and sample results are compared to two significant digits. Results equal to screening criteria are not highlighted as exceedances.
4. The concentrations of chlorobenzene (0.15 mg/L, J), tetrachloroethene (0.43 mg/L J), and styrene (0.14 mg/L J) in the June 2008 sample from monitoring well MW-40 exceed the drinking water criteria. However, these VOCs were not detected at MW-40 in December 2008, and have been either not detected (chlorobenzene and styrene) or detected sporadically (tetrachloroethene) at other wells in the groundwater monitoring network. Because these VOCs have been detected so sporadically, they have essentially no spatial or temporal distribution, and as such, they have not been added to the databoxes.
5. CITW - Commercial/Industrial Tap Water Use
6. U - Not detected at the associated reporting limit
7. J - Estimated concentration

0 150 300 ft
Coordinate System: STATE PLANE INDIANA EAST - NAD83

N

GHD

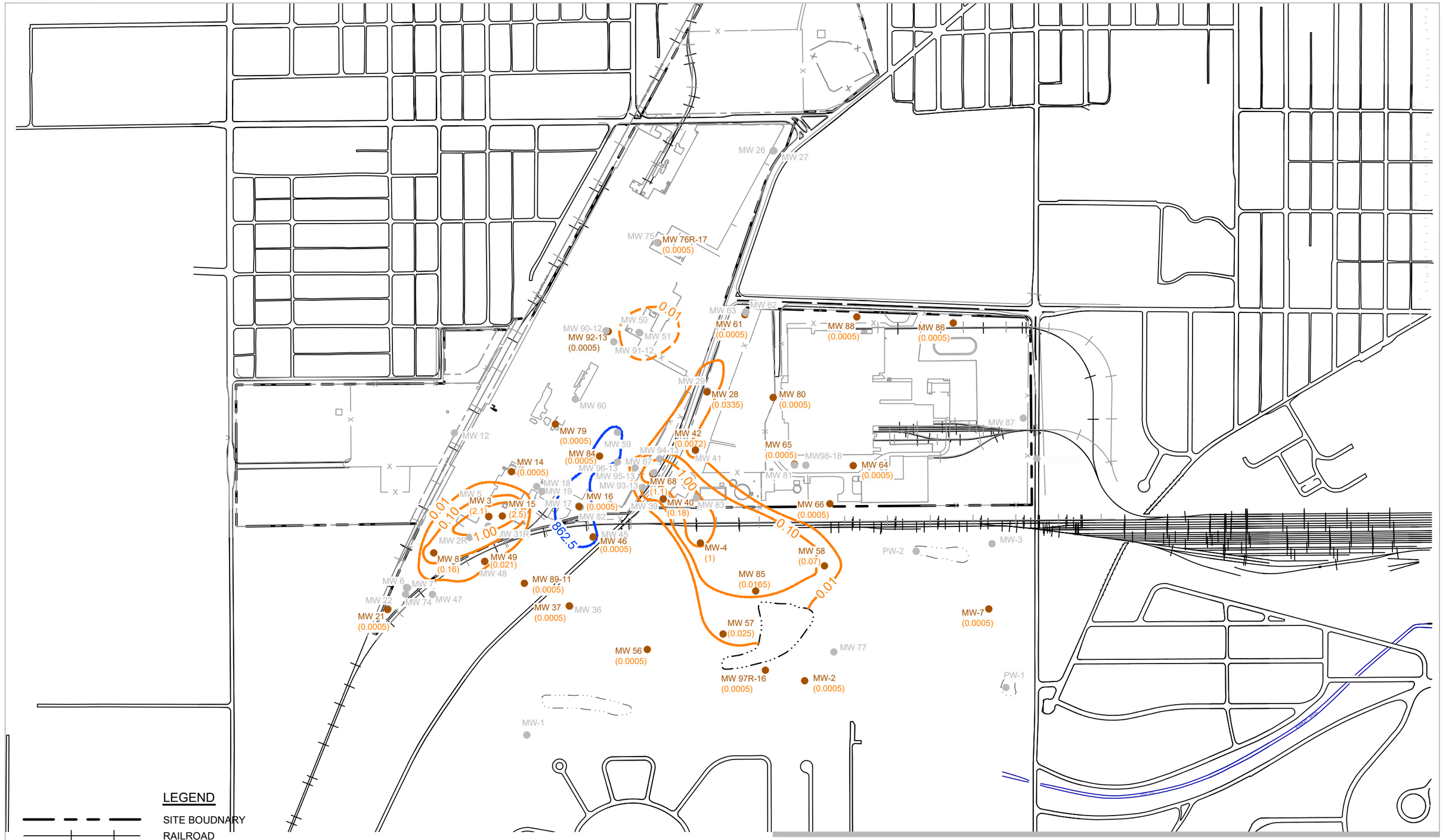
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT
OFF-SITE VOC GROUNDWATER/SURFACE WATER RESULTS (2016 - 2020)

Project No. 11209506
Date January 2021

FIGURE 9

Data Source:

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC008.DWG
Plot Date: 21 January 2021 12:52 PM



GHD

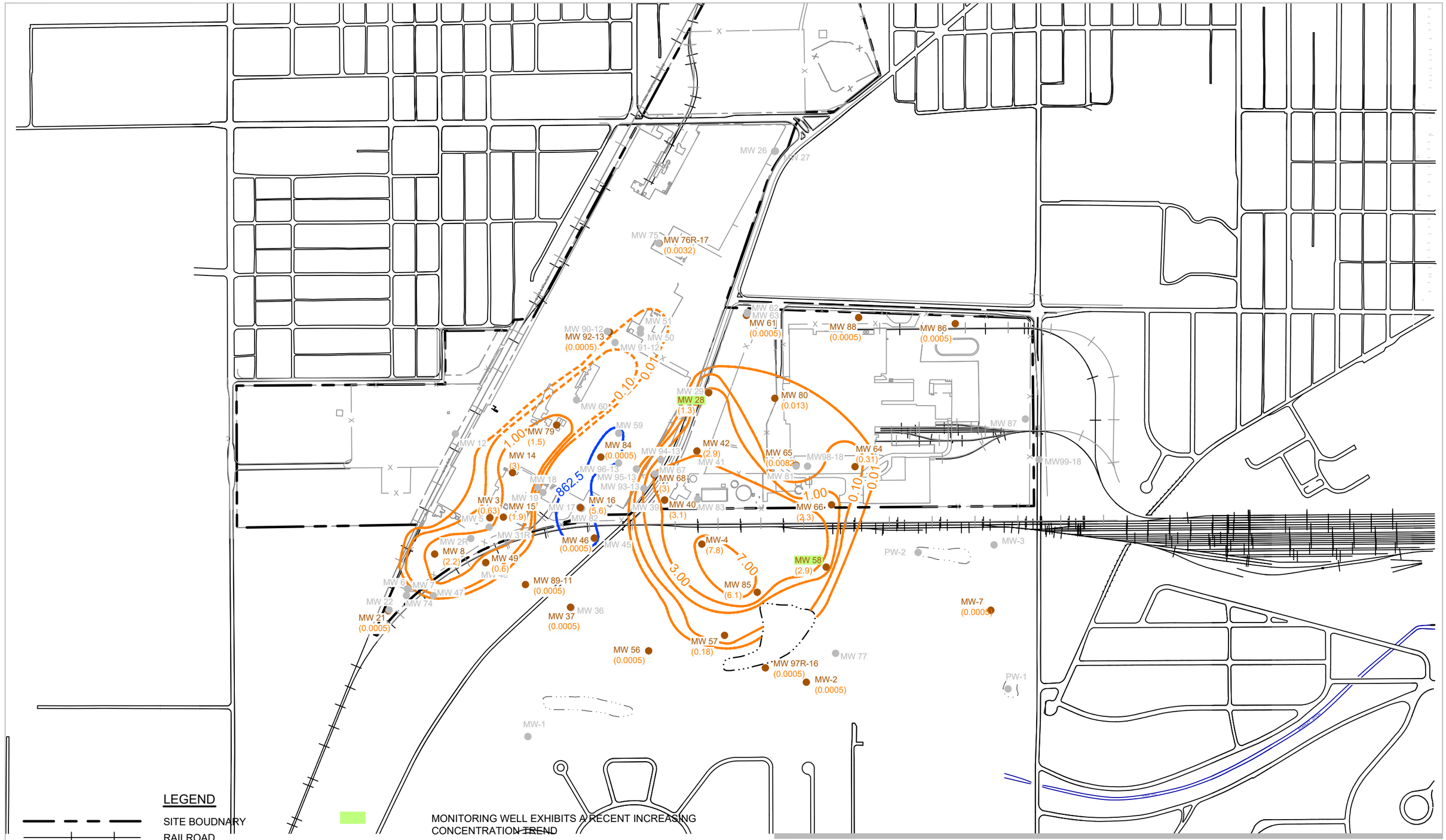
REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT
CONCENTRATION OF TCE
IN GROUNDWATER - UNIT 3

Project No. **11209506**
Date **January 2021**

FIGURE 10

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC009.DWG
Plot Date: 22 January 2021 8:11 AM

Data Source:AECOM, PROJECT NO. 60163563, DATE 2012-05-15



LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- BUILDING
- MONITORING WELL LOCATION
- MONITORING WELL EXHIBITS A RECENT INCREASING CONCENTRATION TREND
- 1.00 ISOCONCENTRATION CONTOUR (mg/L)
- 863.5 GROUNDWATER MOUND (FEET NAVD 88)

NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

GHD

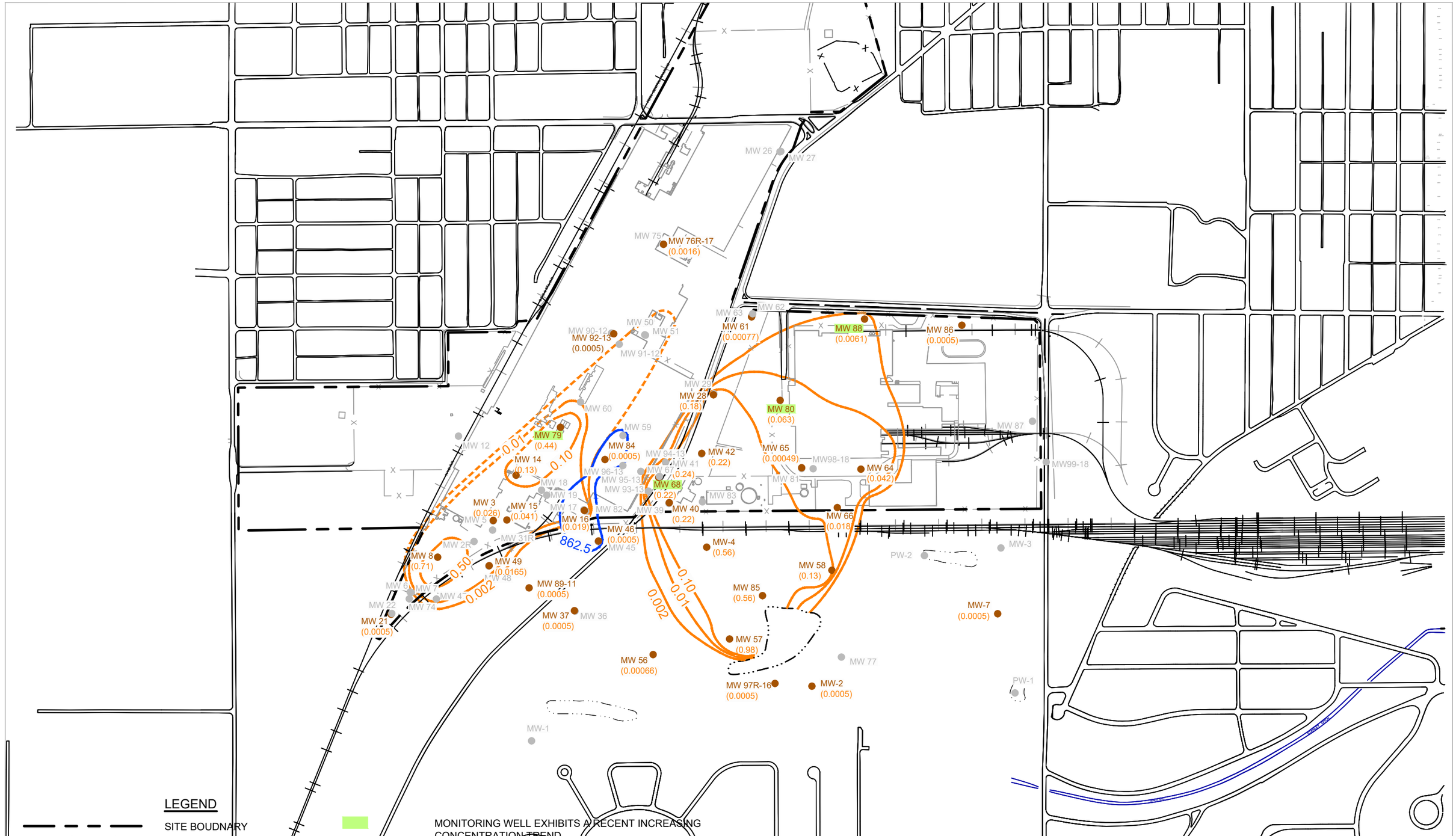
REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT
CONCENTRATION OF CIS-1,2-DCE
IN GROUNDWATER - UNIT 3

Project No. 11209506
Date January 2021

FIGURE 11

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC010.DWG
Plot Date: 22 January 2021 8:13 AM

Data Source:AECOM, PROJECT NO. 60163563, DATE 2012-05-15



LEGEND

- SITE BOUDNARY
- RAILROAD
- FENCE LINE
- POND BOUNDARY
- BUILDING
- MONITORING WELL LOCATION

MONITORING WELL EXHIBITS A RECENT INCREASING CONCENTRATION TREND

1.00 ISOCONCENTRATION CONTOUR (mg/L)

863.5 GROUNDWATER MOUND (FEET NAVD 88)

NOTES: NON DETECT RESULTS ARE SHOWN AS HALF THE ASSOCIATED REPORT LIMIT

0 300 600 ft

Coordinate System:
STATE PLANE INDIANA
EAST - NAD83

N

GHD

REVITALIZING AUTO COMMUNITIES
ENVIRONMENTAL RESPONSE TRUST
2915 DR. MARTIN LUTHER KING JR. BLVD.
ANDERSON, INDIANA
2020 ANNUAL MONITORING REPORT

CONCENTRATION OF VINYL CHLORIDE IN GROUNDWATER - UNIT 3

Project No. **11209506**
Date **January 2021**

FIGURE 12

Filename: N:\CA\St Catharines\Projects\562\11209506\Digital_Design\ACAD 2020\Figures\RPT-003\11209506(RPT-003)GN-SC011.DWG
Plot Date: 22 January 2021 10:29 AM

Data Source:AECOM, PROJECT NO. 60163563, DATE 2012-05-15

Tables

Table 1

Site-Wide Groundwater Monitoring Program
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Year Installed*	*Plume Position* [6]	*Annual Monitoring* [7]
MW-2	3d	2003	WWTP, Margin	X
MW 3	3s	1992	AOC 1, Source	X
MW-4	3d	2003	WWTP, Tail	X
MW-7 [5]	3d	2003	WWTP, Margin	X
MW 8	3s	1993	AOC 1, Source	X
MW 12	3i	1993	AOC 1, Tail	X
MW 14	3s	1993	AOC 1, Tail	X
MW 15 [3]	3s	1993	AOC 1, Source	X
MW 16 [4]	3s	1993	AOC 1, Margin	X
MW 21 [3]	3s	2000	AOC 1, Margin	X
MW 28	3d	2000	WWTP, Tail	X
MW 31R [1]	1	2000	AOC 1, Source	X
MW 37 [1]	3s	2001	AOC 1, Margin	X
MW 40	3s	2003	WWTP, Source	X
MW 41	3d	2003	WWTP, Source	X
MW 42	3s	2003	WWTP, Source	X
MW 46 [1]	3s	2003	AOC 1, Margin	X
MW 49	3s	2003	AOC 1, Tail	X
MW 51	3s	2003	AOC 1, Tail	X
MW 56	3d	2004	WWTP, Margin	X
MW 57	3d	2004	WWTP, Margin	X
MW 58	3d	2004	WWTP, Margin	X
MW 61	3d	2004	WWTP, Margin	X
MW 64	3d	2004	WWTP, Margin	X
MW 65	3d	2004	WWTP, Margin	X
MW 66	3d	2004	WWTP, Tail	X
MW 68	3s	2004	WWTP, Source	X
MW 75	3d	2004	AOC 1, Margin	X
MW 76R-17	3s	2017	AOC 1, Margin	X
MW 79	3s	2004	AOC 1, Tail	X
MW 80	3d	2005	WWTP, Margin	X
MW 81	B	2005	WWTP, Margin	X
MW 82	B	2005	AOC 1, Margin	X
MW 83	B	2005	WWTP, Margin	X
MW 84 [4]	3S	2005	WWTP, Margin	X
MW 85	3d	2007	WWTP, Tail	X
MW 86	3d	2010	WWTP, Tail	X
MW 88	3d	2010	WWTP, Tail	X
MW 89-11 [2]	3s	2011	AOC 1, Tail	X
MW 97R-16 [3]	3d	2015	WWTP, Margin	X
Pond (Intake)	Surface Water	N/A	Surface Water	X
Pond (North)	Surface Water	N/A	Surface Water	X

Notes:
(1) Well added to the monitoring program based on IDEM review comments 5/2/2008
(2) Well added to the monitoring program based on recommendation letter dated 4/18/2012 and approved by IDEM on 5/11/2012
(3) Well added to the monitoring program based on recommendation from the 2014 Annual Monitoring Report (2/2/2015) and approved by IDEM on 6/1/2015
(4) Well added to the monitoring program based on IDEM review comments 5/7/2015
(5) Well added to the monitoring program based on recommendation from the 2016 Annual Monitoring Report (1/31/2017) and approved by IDEM on 8/10/2017
(6) AOC 1 = VOC plume originating at AOC 1 - South Court
WWTP = VOC plume originating from former WWTP Area
Source = VOC source area well
(7) TCL VOCs: Target Compound List Volatile Organic Compounds

Table 2

Monitoring Well Construction and Surface Water Benchmark Details
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Northing* [1]	*Easting* [1]	*Datum El.* [2,3]	*Revised Datum El.* [2,3]	*Screen Top* [2]	*Screen Bottom* [2]
MW 1	3s	1761110.3	317311.1	880.86(4)	880.86[4]	864.50	860.21
MW 2	3s	1761003.2	317244.7	879.70		864.75	860.47
MW2 R	3s	1760999.3	317243.9	879.68	879.25[4]	864.46	860.18
MW 3	3s	1761137.6	317370.2	880.51	880.41[4]	864.53	860.25
MW 4	3s	1761089.4	317240.2	880.78		865.97	861.48
MW 5	3s	1761134.5	317368.7	880.54		852.93	843.53
MW 6	3s	1760666.3	316823.5	878.22		864.80	855.18
MW 7	3d	1760663.6	316830.5	878.18		835.40	830.82
MW 8	3s	1760896.0	317004.4	878.41		863.33	853.74
MW 9	3s	1761218.5	316990.4	881.65		866.31	856.70
MW 10	3s	1761128.0	317115.5	880.88		866.30	856.67
MW 11	3s	1761699.0	317145.5	882.68		861.51	851.88
MW 12	3i	1761692.8	317141.2	882.78		833.84	829.26
MW 13	3s	1761430.2	317517.7	881.25		866.13	856.50
MW 14	3s	1761435.2	317520.1	881.36		852.63	848.06
MW 15	3s	1761140.7	317459.5	879.67		864.76	855.13
MW 16	3s	1761203.4	317969.5	878.65	879.83[4]	864.01	854.40
MW 17	3s	1761207.9	317966.4	878.30	879.86[4]	853.30	848.72
MW 18	3s	1761337.0	317687.7	878.88	881.08[5]	858.88	854.15
MW 19	3s	1761304.0	317721.7	878.54	880.75[5]	858.75	854.04
MW 20	3s	1761098.7	317705.5	877.70		852.50	847.76
MW 21	3s	1760520.1	316698.0	878.74		850.92	846.20
MW 22	3s	1760525.5	316702.1	879.11		861.67	856.92
MW 23	3s	1761096.0	317715.2	877.68		860.71	855.97
MW 24	3d	1762007.5	317041.2	882.77		803.78	794.03
MW 25	3s	1762008.7	317047.0	882.85		853.75	844.00
MW 26	3d	1763564.6	319256.7	883.09		840.65	830.82
MW 27	1	1763566.5	319262.7	883.04		853.15	848.42
MW 28	3d	1761964.9	318819.0	877.44		834.40	824.66
MW 29	3s	1761971.1	318822.0	877.53		862.21	852.49
MW 30	1	1760992.0	317335.2	878.50		868.64	863.95
MW 31	1	1761074.5	317365.6	879.22		872.17	867.91
MW 31R	1	1761074.5	317365.6	879.71		871.58	866.90
MW 32	1	1760855.5	316937.0	878.88		871.99	867.71
MW 33	1	1760961.5	316889.2	880.01		873.05	868.76
MW 34	1	1761281.2	316498.1	883.67		858.38	849.03
MW 35	3d	1761273.9	316512.3	883.96		828.90	819.56
MW 36	3d	1760540.9	317908.8	870.09		850.97	846.24
MW 37	3s	1760543.9	317904.2	869.95		860.74	856.00
MW 38	3d	1760964.00	317719.32	877.65		846.42	836.74
MW 39	3d	1761249.83	318526.24	879.51		836.29	826.56
MW 40	3s	1761254.51	318528.40	879.51		851.37	841.64
MW 41	3d	1761575.05	318740.73	878.58	878.26[5]	839.63	834.92
MW 42	3s	1761579.24	318742.21	878.54	878.19[5]	854.93	845.20
MW 43	3d	1762141.24	318947.24	876.00		818.86	814.13
MW 44	3s	1762145.28	318948.82	876.02		853.74	844.02
MW 45	3d	1760998.51	318060.78	873.72		833.77	824.04
MW 46	3s	1761002.51	318062.71	873.64		859.63	854.92
MW 47	3s	1760620.47	316995.56	880.27		856.99	852.27
MW 48	3d	1760837.68	317340.18	877.96		838.96	834.25
MW 49	3s	1760839.93	317343.16	877.93		855.69	845.98
MW 50	3d	1762359.73	318367.08	878.27		839.92	835.20
MW 51	3s	1762357.18	318371.66	878.19		855.93	851.20
MW 52	3d	1761696.65	317137.65	882.69		797.11	787.39
MW 53	3d	1761894.20	317087.64	881.43		758.27	748.62
MW 54	3d	1761482.29	316871.62	880.37		820.55	810.82
MW 55	3s	1761482.41	316867.16	880.28		851.42	841.69
MW 56	3d	1760254.76	318422.25	859.32		847.93	838.27
MW 57	3d	1760357.35	318925.21	862.52		842.68	833.38
MW 58	3d	1760809.76	319598.52	861.46		854.35	849.69
MW 59	3s	1761696.70	318223.89	882.00		852.77	848.03

Table 2

Monitoring Well Construction and Surface Water Benchmark Details
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Monitoring Well Location	*Hydro-Geologic Unit*	*Northing* [1]	*Easting* [1]	*Datum El.* [2,3]	*Revised Datum El.* [2,3]	*Screen Top* [2]	*Screen Bottom* [2]
MW 60	3s	1761917.38	317944.64	881.77		847.95	843.24
MW 61	3d	1762477.48	319069.90	876.57		823.11	813.40
MW 62	B	1762498.26	319076.96	876.70		783.65	773.95
MW 63	3s	1762488.77	319074.19	876.53		846.17	841.45
MW 64	3d	1761475.47	319789.86	863.97		853.22	843.56
MW 65	3d	1761484.84	319399.81	864.22		853.47	843.80
MW 66	3d	1761222.31	319634.36	861.67		853.73	844.02
MW 67	3d	1761427.43	318463.83	877.03		835.69	831.02
MW 68	3s	1761420.80	318459.32	876.98		846.75	842.09
MW 69	3d	1760874.10	316649.68	882.08		833.90	829.23
MW 70	3s	1760874.50	316644.87	881.82		849.98	840.32
MW 71	B	1762665.14	317640.98	878.16		761.95	752.31
MW 72	3s	1762672.70	317638.05	877.74		847.86	838.06
MW 73	3d	1762677.33	317644.90	877.96		797.57	787.91
MW 74	B	1760621.78	316817.18	881.10		818.81	809.07
MW 75	3d	1762950.00	318486.45	881.42	882.39[5]	801.31	791.63
MW 76	3s	1762951.84	318492.81	881.11		831.97	822.34
MW 76R-17	3s	1762955.72	318491.34	882.54		832.65	822.65
MW 77	B	1760238.33	319661.11	862.77		851.67	842.04
MW 78	3s	1761873.71	317734.00	882.25		855.48	850.75
MW 79	3s	1761750.49	317811.99	881.92		841.69	836.96
MW 80	3d	1761928.33	319258.30	865.49		841.54	836.84
MW 81	B	1761479.01	319399.60	864.38		839.58	829.88
MW 82	B	1761198.31	317978.59	878.55	879.70[4]	782.27	772.54
MW 83	B	1761260.12	318746.50	876.23		801.58	791.93
MW 84	3s	1761539.65	318105.07	881.95		848.97	844.25
MW 85	3d	1760642.54	319141.95	866.11		851.62	842.11
MW 86	3d	1762422.91	320453.85	859.12		841.15	836.67
MW 87	3d	1761790.75	320918.50	861.51		848.40	843.91
MW 88	3d	1762463.35	319813.49	859.59		829.41	819.91
MW 89-11	3s	1760693.90	317605.91	875.39		865.74	855.74
MW 90-12	1	1762368.16	318146.02	884.31		878.01	873.01
MW91-12	1	1762277.18	318106.74	884.50		877.30	872.30
MW 92-13	3s	1762364.98	318152.94	884.31		853.21	848.21
MW 93-13	3s	1761325.52	318397.91	880.71		848.09	843.09
MW 94-13	3s	1761506.98	318516.06	880.77		843.09	838.09
MW 95-13	3s	1761465.96	318360.70	884.13		856.53	851.53
MW 96-13	3s	1761495.10	318257.10	884.18		854.14	849.14
MW 97-14	3d	1760141.03	319196.24	860.14		849.35	844.35
MW 97R-16	3d	1760065.02	319224.15	864.87		852.54	847.54
MW 98-18	B	1761478.34	319419.65	864.52		816.52	806.52
MW 99-18	B	1761544.64	320973.65	864.84		829.84	819.84
ER-1	1	1761864.90	317412.04	881.93		868.16	858.16
ER-2	1	1761856.43	317394.55	881.96		872.19	862.19
ER-3	1	1761856.37	317361.47	882.09		872.28	862.28
Meadowbrook Golf Course Wells							
MW-1	3d	1759686.91	317622.12	859.18		855.67	847.67
MW-2	3d	1760047.06	319467.27	860.08		857.31	851.31
MW-3	3d	1760956.57	320710.96	862.68		860.06	851.36
MW-4	3d	1760961.86	318774.81	861.67		859.08	839.08
MW-5	3d	1760305.51	320618.11	871.01		866.49	853.49
MW-6	3d	1760511.36	320752.07	868.92		862.30	844.30
MW-7	3d	1760523.65	320689.67	869.69		864.01	844.01
Surface Water							
TBM-1	3d	1759953.34	320818.16	862.50		NA	NA
TBM-2	3d	1760924.00	320538.74	860.41		NA	NA
TBM-3	3d	1760214.40	318958.42	858.97		NA	NA
TBM-4	3d	1759888.87	318295.42	860.51		NA	NA
TBM-5	3d	1759672.93	318693.89	857.49		NA	NA
TBM-6	3d	1759806.90	319657.43	857.82		NA	NA
Culvert 1	3d	1760552.00	319168.00	857.79		NA	NA

Notes:

(1) Coordinates are Indiana State Plane Coordinate System, 1301 East, NAD 83, US Survey Feet.
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.
(3) Datum for elevation and depth is marked on top of PVC riser pipe.
(4) Survey revised in 2010
(5) Survey revised in 2017
NA - Not Applicable

Table 3

Groundwater Elevation Data 2020
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

			1-Oct-18		*15-Oct-19*		*2-Nov-20*	
Monitoring Well Location	***Hydro-Geologic Unit***	***Riser Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***
MW2 R	3s	879.25	-	-	17.21	862.04	17.42	861.83
MW 3	3s	880.41	17.08	863.33	18.52	861.89	18.75	861.66
MW 5	3s	880.54	17.01	863.53	18.46	862.08	18.72	861.82
MW 6	3s	878.22	13.86	864.36	15.62	862.60	15.82	862.40
MW 7	3d	878.18	13.88	864.30	15.69	862.49	15.75	862.43
MW 8	3s	878.41	14.47	863.94	16.12	862.29	16.32	862.09
MW 12	3i	882.78	18.98	863.80	20.37	862.41	20.59	862.19
MW 13	3s	881.25	18.14	863.11	19.54	861.71	19.68	861.57
MW 14	3s	881.36	18.25	863.11	19.68	861.68	19.8	861.56
MW 15	3s	879.67	16.48	863.19	17.91	861.76	18.12	861.55
MW 16	3s	879.83	16.02	863.81	17.07	862.76	16.98	862.85
MW 17	3s	879.86	16.13	863.73	17.12	862.74	17.01	862.85
MW 19	3s	880.75	2.77	877.98	3.61	877.14	3.54	877.21
MW 21	3s	878.74	14.08	864.66	16.02	862.72	16.05	862.69
MW 22	3s	879.11	14.45	864.66	-	-	16.41	862.70
MW 26	3d	883.09	25.52	857.57	26.23	856.86	25.75	857.34
MW 27	1	883.04	22.74	860.30	23.44	859.60	22.91	860.13
MW 28	3d	877.44	19.46	857.98	20.09	857.35	19.6	857.84
MW 29	3s	877.53	14.52	863.01	15.22	862.31	14.98	862.55
MW 31R	1	879.71	7.50	872.21	8.89	870.82	7.52	872.19
MW 36	3d	870.09	10.53	859.56	11.3	858.79	10.96	859.13
MW 37	3s	869.95	7.92	862.03	9.06	860.89	8.4	861.55
MW 39	3d	879.51	21.21	858.30	21.79	857.72	21.34	858.17
MW 40	3s	879.51	21.22	858.29	21.78	857.73	21.35	858.16
MW 41	3d	878.26	20.23	858.03	20.85	857.41	19.97	858.29
MW 42	3s	878.19	19.99	858.20	20.64	857.55	20.1	858.09
MW 45	3d	873.72	14.18	859.54	14.97	858.75	14.64	859.08
MW 46	3s	873.64	10.08	863.56	11.21	862.43	10.93	862.71
MW 47	3s	880.27	16.72	863.55	17.6	862.67	16.25	864.02
MW 48	3d	877.96	-	-	16.17	861.79	16.27	861.69
MW 49	3s	877.93	14.55	863.38	16.02	861.91	16.13	861.80
MW 56	3d	859.32	2.03	857.29	2.30	857.02	1.9	857.42
MW 57	3d	862.52	5.39	857.13	5.61	856.91	5.21	857.31
MW 58	3d	861.46	4.42	857.04	4.67	856.79	4.26	857.20
MW 59	3s	882.00	18.45	863.55	19.21	862.79	19.32	862.68
MW 60	3s	881.77	19.50	862.27	20.67	861.10	20.75	861.02
MW 61	3d	876.57	18.92	857.65	19.58	856.99	19.15	857.42
MW 62	B	876.70	18.31	858.39	19.28	857.42	18.87	857.83
MW 63	3s	876.53	17.46	859.07	18.36	858.17	18.05	858.48
MW 64	3d	863.97	6.70	857.27	7.22	856.75	6.62	857.35
MW 65	3d	864.22	6.71	857.51	7.22	857.00	6.62	857.60
MW 66	3d	861.67	4.42	857.25	4.83	856.84	4.41	857.26
MW 67	3d	877.03	18.70	858.33	19.3	857.73	18.91	858.12
MW 68	3s	876.98	18.47	858.51	19.08	857.90	18.65	858.33
MW 74	B	881.10	16.02	865.08	17.98	863.12	18.11	862.99
MW 75	3d	882.23	21.79	860.44	22.82	859.41	22.72	859.51
MW 76R-17	3s	882.54	22.24	860.30	23.13	859.41	23.13	859.41
MW 77	B	862.77	5.78	856.99	5.98	856.79	5.62	857.15
MW 79	3s	881.92	19.32	862.60	20.58	861.34	20.69	861.23
MW 80	3d	865.49	8.09	857.40	8.68	856.81	8.05	857.44
MW 81	B	864.38	6.97	857.41	7.42	856.96	6.91	857.47
MW 82	B	879.70	15.61	864.09	17.25	862.45	17.48	862.22
MW 83	B	876.23	-	-	19.03	857.20	18.45	857.78
MW 84	3s	881.95	18.48	863.47	19.31	862.64	19.34	862.61
MW 85	3d	866.11	8.95	857.16	9.18	856.93	8.75	857.36
MW 86	3d	859.12	3.08	856.04	3.69	855.43	2.92	856.20
MW 87	3d	861.51	1.82	859.69	2.85	858.66	4.06	857.45
MW 88	3d	859.59	2.91	856.68	3.52	856.07	2.85	856.74
MW 89-11	3s	875.39	12.58	862.81	13.83	861.56	13.84	861.55
MW 90-12	1	884.31	7.88	876.43	10.95	873.36	10.65	873.66
MW91-12	1	884.50	7.18	877.32	10.42	874.08	11.05	873.45
MW 92-13	3s	884.31	22.38	861.93	23.57	860.74	23.54	860.77
MW 93-13	3s	880.71	22.19	858.52	22.84	857.87	22.41	858.30
MW 94-13	3s	880.77	22.27	858.50	22.93	857.84	22.5	858.27
MW 95-13	3s	884.13	21.17	862.96	21.99	862.14	22	862.13

Table 3

Groundwater Elevation Data 2020
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			1-Oct-18		*15-Oct-19*		*2-Nov-20*	
Monitoring Well Location	***Hydro-Geologic Unit***	***Riser Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***	***Depth to Water (f btor)***	***Groundwater Elevation (f NAVD 88)***
MW 96-13	3s	884.18	20.54	863.64	-	-	21.42	862.76
MW 97R-16	3d	864.87	7.92	856.95	8.05	856.82	7.64	857.23
MW 98-18	B	864.52	-	-	7.37	857.15	6.8	857.72
MW 99-18	B	864.84	-	-	5.53	859.31	4.48	860.36
Meadowbrook Golf Course Wells								
MW-1	3d	859.18	1.02	858.16	1.46	857.72	1.07	858.11
MW-2	3d	860.08	3.01	857.07	3.21	856.87	2.64	857.44
MW-3	3d	862.68	2.48	860.20	3.46	859.22	2.41	860.27
MW-4	3d	861.67	4.08	857.59	4.53	857.14	3.92	857.75
MW-7	3d	869.69	9.46	860.23	10.29	859.40	9.32	860.37

Notes:
(1) btor - below top of riser (i.e., reference elevation).
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.
(3) Datum for elevation and depth is marked on top of PVC riser pipe.
(4) Blank table entries indicate that reference location was not installed at the time measurements were taken. A dash (-) indicates that the location was not measured.

Table 4

Sample Key
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Sample Location	*Sample Identification*	*Sample Date*	*Time*	*Matrix*	*Sample Type*	*Parent Sample*	*TCL VOCs*
MW-2	GW-110320-SS-001	11/03/20	11:25	GW	N	--	X
MW-3	GW-111220-BE-040	11/12/20	11:36	GW	N	--	X
MW-4	GW-110320-SS-007	11/03/20	15:23	GW	N	--	X
MW-7	GW-110320-BE-002	11/03/20	11:18	GW	N	--	X
MW 8	GW-111120-BE-036	11/12/20	12:25	GW	N	--	X
MW 12	GW-110420-BE-010	11/04/20	10:29	GW	N	--	X
MW 14	GW-110920-BE-026	11/9/2020	10:07	GW	N	--	X
MW 15	GW-111220-BE-038	11/12/2020	9:50	GW	N	--	X
MW 16	GW-111020-BE-033	11/10/2020	9:53	GW	N	--	X
MW 21	GW-111120-BE-035	11/11/2020	10:28	GW	N	--	X
MW 28	GW-110520-BE-018	11/5/2020	16:05	GW	N	--	X
MW 31R	GW-111220-BE-039	11/12/2020	10:38	GW	N	--	X
MW 37	GW-110420-BE-011	11/4/2020	11:33	GW	N	--	X
MW 40	GW-111220-BE-043	11/12/2020	14:02	GW	N	--	X
MW 41	GW-110920-BE-028	11/9/2020	13:03	GW	N	--	X
MW 42	GW-110920-BE-029	11/9/2020	14:28	GW	N	--	X
MW 46	GW-110520-BE-014	11/05/20	10:00	GW	N	--	X
MW 49	GW-110520-BE-015	11/05/20	11:11	GW	N	--	X
MW 56	GW-110320-SS-005	11/3/2020	13:58	GW	N	--	X
MW 57	GW-110320-BE-004	11/3/2020	12:59	GW	N	--	X
MW 58	GW-110320-BE-006	11/3/2020	14:12	GW	N	--	X
MW 58	GW-110320-BE-008	11/3/2020	14:20	GW	FD	GW-110320-BE-006	X
MW 61	GW-110920-BE-030	11/09/20	15:36	GW	N	--	X
MW 61	GW-110920-BE-031	11/09/20	15:44	GW	FD	GW-110920-BE-030	X
MW 64	GW-110620-BE-020	11/06/20	11:06	GW	N	--	X
MW 64	GW-110620-BE-021	11/06/20	11:10	GW	FD	GW-110620-BE-020	X
MW 65	GW-110620-BE-023	11/06/20	13:48	GW	N	--	X
MW 66	GW-110620-BE-019	11/06/20	9:28	GW	N	--	X
MW 68	GW-111220-BE-041	11/12/20	13:08	GW	N	--	X
MW 68	GW-111220-BE-042	11/12/20	13:15	GW	FD	GW-111220-BE-041	X
MW 75	GW-112320-BE-044	11/23/20	12:24	GW	N	--	X
MW 76R-17	GW-111120-BE-037	11/11/20	14:57	GW	N	--	X
MW 79	GW-110920-BE-025	11/09/20	9:16	GW	N	--	X
MW 80	GW-110620-BE-022	11/06/20	12:45	GW	N	--	X
MW 81	GW-110620-BE-024	11/06/20	14:53	GW	N	--	X
MW 82	GW-111020-BE-032	11/10/20	9:12	GW	N	--	X
MW 83	GW-111120-BE-034	11/11/20	9:19	GW	N	--	X
MW 84	GW-110920-BE-027	11/09/20	11:59	GW	N	--	X
MW 85	GW-110320-BE-009	11/03/20	16:04	GW	N	--	X
MW 86	GW-110420-BE-013	11/04/20	15:21	GW	N	--	X
MW 88	GW-110420-BE-012	11/04/20	13:38	GW	N	--	X
MW 89-11	GW-110520-BE-016	11/05/20	12:33	GW	N	--	X
MW 92-13	GW-110520-BE-017	11/05/20	14:09	GW	N	--	X
MW 97R-16	GW-110320-SS-003	11/03/20	12:28	WG	N	--	X
Pond (Intake)	SW-110320-BE-003	11/03/20	16:20	SW	N	--	X
Pond (North)	SW-110320-BE-001	11/03/20	16:08	SW	N	--	X
Pond (North)	SW-110320-BE-002	11/03/20	16:12	SW	FD	SW-110320-BE-001	X
Equipment Blank	EB-110520-BE-001	11/05/20	14:27	GW	EB	--	X
Trip Blank	TB-110320-BE-001	11/3/2020	16:30	GW	TB	--	X
Trip Blank	TB-110520-BE-002	11/5/2020	16:45	GW	TB	--	X
Trip Blank	TB-111220-BE-003	11/12/2020	9:00	GW	TB	--	X
Trip Blank	TB-111220-BE-004	11/12/2020	15:10	GW	TB	--	X
Trip Blank	TB-112320-BE-005	11/23/2020	13:00	GW	TB	--	X

Notes:
X - Sample collected and analyzed at the laboratory for the noted parameters
GW - Groundwater
SW - Surface Water
TB - Trip Blank
EB - Equipment Blank
N - Normal
FD - Field Duplicate
TCL VOCs - Target Compound List Volatile Organic Compounds

Table 5

Well Stabilization Parameters
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW-2	11/3/2020	11:00 AM	15.99	0.968	0.02	1.96	7.34	-79
		11:05 AM	15.9	0.947	0.02	0.99	7.29	-76
		11:10 AM	15.92	0.931	0.02	0.91	7.34	-80
		11:15 AM	15.8	0.928	0.02	0.95	7.38	-82
MW 3	11/12/2020	11:24 AM	15.01	0.71	0.45	1.73	7.09	13.6
		11:29 AM	14.77	0.71	0.4	0.96	7.09	16.5
		11:34 AM	15.19	0.71	0.47	0.89	7.08	17
MW-4	11/3/2020	3:05 PM	15.99	0.822	0	4.02	7.83	-152
		3:10 PM	16.02	0.822	0	3.82	7.79	-149
		3:15 PM	16.01	0.823	0	2.7	7.76	-147
		3:20 PM	16.01	0.824	0	2.52	7.74	-145
MW-7	11/3/2020	10:50 AM	--	--	--	103	--	--
		11:00 AM	--	--	--	29.6	--	--
		11:05 AM	12.55	1.46	0.94	22.2	6.47	-94.5
		11:10 AM	13.7	1.41	0.13	16	6.56	-100.2
		11:15 AM	14	1.4	0.1	10.1	6.61	-100.7
		11:20 AM	13.83	1.4	0.1	5.66	6.64	-99.3
MW 8	11/11/2020	12:08 PM	13.53	1	0.15	4.2	6.95	-109
		12:13 PM	13.83	0.98	0.11	3.5	6.96	-114.1
		12:18 PM	13.72	0.98	0.09	3.17	6.97	-116.1
		12:23 PM	13.71	0.99	0.09	2.11	6.97	-116.5
MW 12	11/4/2020	9:53 AM	15.25	0.86	0.18	29.4	6.98	-74.3
		9:58 AM	15.29	0.86	0.16	22.3	6.98	-76.2
		10:03 AM	15.37	0.86	0.13	14.3	6.98	-77.9
		10:08 AM	15.41	0.86	0.13	10.66	6.99	-78.3
		10:13 AM	15.37	0.85	0.09	7.44	6.99	79.1
		10:18 AM	15.28	0.85	0.07	6.05	6.99	-80.1
		10:23 AM	15.55	0.85	0.06	3.69	6.99	-80.6
MW 14	11/9/2020	9:54 AM	15.19	0.84	0.31	7.83	7.03	-92.9
		9:59 AM	15.37	0.84	0.29	7.5	7.03	-93.5
		10:04 AM	15.37	0.84	0.27	5.2	7.03	-93.7
MW 15	11/12/2020	9:37 AM	13.73	0.71	0.28	18.3	7.04	21.2
		9:42 AM	13.83	0.7	0.27	7.87	7.04	21.4
		9:47 AM	13.87	0.7	0.25	6.28	7.05	21.1
MW 16	11/10/2020	9:35 AM	15.19	0.66	0.31	16.5	7.16	-112
		9:40 AM	15.24	0.66	0.26	11.9	7.16	-104.8
		9:45 AM	15.33	0.67	0.24	9.1	7.17	-91.3
		9:50 AM	15.32	0.67	0.22	7.3	7.17	-92
MW 21	11/11/2020	10:15 AM	12.72	0.82	0.32	31.1	7.12	-202.3
		10:20 AM	12.64	0.82	0.29	13.9	7.11	-196.2
		10:25 AM	12.6	0.82	0.26	7.51	7.1	-194.3
MW 28	11/5/2020	3:08 PM	--	--	--	197	--	--
		3:18 PM	--	--	--	83.8	--	--
		3:28 PM	--	--	--	37.6	--	--
		3:38 PM	16.4	0.91	0.22	28.6	7.01	-98.1
		3:43 PM	16.23	0.92	0.19	24.2	7.01	-99.9
		3:48 PM	16.27	0.92	0.18	14	7.01	-101.1
		3:53 PM	16.18	0.92	0.16	12	7.01	-102
		3:58 PM	16.2	0.92	0.16	10.4	7.01	-102.5
		4:03 PM	16.08	0.92	0.14	8.5	7.01	-103.4
MW 31R	11/12/2020	10:25 AM	14.57	1.06	0.11	5.88	6.98	-132.3
		10:30 AM	14.36	1.07	0.11	4.74	6.98	-135
		10:35 AM	14.47	1.06	0.1	2.26	6.98	-136.6
MW 37	11/4/2020	11:20 AM	18.77	0.91	0.34	7.1	6.83	-29.3
		11:25 AM	19.17	0.91	0.33	5.15	6.82	-35.3
		11:30 AM	19.35	0.91	0.29	5.64	6.81	-39.5

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Location	Date	Time (24 hr)	Temperature (^{O}C)	Conductivity (mS/cm)	DO mg/L	Turbidity (NTU)	pH (s.u.)	ORP (mV)
MW 40	11/12/2020	1:50 PM	13.86	0.87	0.1	2.98	7.04	-100.5
		1:55 PM	13.86	0.85	0.08	2.71	7.05	-101
		2:00 PM	13.88	0.84	0.08	2.67	7.05	-100.9
MW 41	11/9/2020	12:35 PM	16.44	0.92	0.53	8.05	7.02	-72.4
		12:40 PM	16.22	0.95	0.28	6.82	7.01	-81.7
		12:45 PM	15.26	0.96	0.16	3.47	7.01	-88.1
		12:50 PM	16.22	0.96	0.13	3.2	7.01	-90.5
		12:55 PM	16.19	0.96	0.11	2.64	7.01	-91.9
		1:00 PM	16.14	0.96	0.09	1.33	7.01	-93.3
MW 42	11/9/2020	1:55 PM	--	--	--	21.2	--	--
		2:00 PM	17.7	0.94	0.5	15.9	7.01	-72
		2:05 PM	17.34	0.96	0.24	34.9	6.99	-82
		2:10 PM	17.07	0.96	0.1	33.1	7	-87.2
		2:15 PM	16.76	0.95	0.07	19.9	7	-87
		2:20 PM	16.52	0.95	0.06	11.8	6.99	-87
		2:25 PM	16.67	0.95	0.05	8.89	6.99	-87.9
MW 46	11/5/2020	9:42 AM	14.97	0.84	0.36	4.7	7.11	61.4
		9:47 AM	15.01	0.86	0.31	7.57	7.1	59.1
		9:52 AM	15.06	0.83	0.36	3.58	7.1	55.5
		9:57 AM	15.01	0.83	0.36	2.75	7.1	49.8
MW 49	11/5/2020	10:43 AM				86.3		
		10:48 AM	14.38	0.85	0.3	41.6	6.96	-15
		10:53 AM	14.78	0.85	0.26	24.5	6.96	-16.3
		10:58 AM	14.38	0.85	0.19	14.2	6.96	-16.7
		11:03 AM	14.28	0.85	0.19	8.95	6.96	-16.7
		11:08 AM	14.21	0.85	0.17	7.27	6.96	-17.7
MW 56	11/3/2020	1:25 PM	17.46	0.78	0	13.5	7.97	-94
		1:35 PM	17.18	0.77	0	6.97	7.84	-99
		1:40 PM	17.09	0.768	0	3.72	7.88	-98
		1:45 PM	17.07	0.77	0	4.38	7.87	-99
		1:50 PM	16.99	0.774	0	3.27	7.84	-99
		1:55 PM	17.01	0.776	0	3.1	7.81	-99
MW 57	11/3/2020	12:30 PM	--	--	--	21	--	--
		12:35 PM	17.26	0.86	0.31	15	6.85	-73.3
		12:40 PM	17.39	0.86	0.2	8.93	6.85	-79
		12:45 PM	17.01	0.86	0.17	7.24	6.85	-85.2
		12:50 PM	16.94	0.86	0.14	5.23	6.85	-88.6
		12:55 PM	16.91	0.86	0.12	3.59	6.84	-91.1
MW 58	11/3/2020	1:50 PM	--	--	--	9.82	--	--
		1:55 PM	16.19	0.89	0.2	5.17	6.86	-61.3
		2:00 PM	16.04	0.89	0.13	3.71	6.86	-63.2
		2:05 PM	16.05	0.89	0.12	2.75	6.86	-64.5
		2:10 PM	16.04	0.89	0.1	2.72	6.86	-66.2
MW 61	11/9/2020	3:18 PM	16	0.95	0.17	10.9	7.09	-247.7
		3:23 PM	15.95	0.96	0.13	12.4	7.08	-248.1
		3:28 PM	15.91	0.96	0.11	15.6	7.08	-241.9
		3:33 PM	15.89	0.96	0.09	15.3	7.07	-236.2
MW 64	11/6/2020	10:18 AM	17.16	0.79	0.42	41.1	7.15	-144.5
		10:28 AM	17.9	0.79	0.27	28.5	7.14	-155.5
		10:38 AM	18.02	0.78	0.19	17.9	7.12	-152.3
		10:43 AM	18.19	0.78	0.17	13.8	7.11	-148.2
		10:48 AM	18.22	0.78	0.15	12.3	7.11	-145.7
		10:53 AM	18.19	0.78	0.11	9.51	7.11	-145
		10:58 AM	18.23	0.78	0.1	6.22	7.1	-142.3
		11:03 AM	18.3	0.78	0.09	6.1	7.1	-141

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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 65	11/6/2020	1:25 PM	18.35	0.8	0.47	29.3	7.23	-114.2
		1:30 PM	19.35	0.8	0.43	19.9	7.22	-116.2
		1:35 PM	17.64	0.8	0.09	7.2	7.24	-126.9
		1:40 PM	17.49	0.8	0.07	4.74	7.24	-128.7
		1:45 PM	17.48	0.8	0.07	3.03	7.24	-127.3
MW 66	11/6/2020	9:10 AM	15.16	0.76	0.17	10.1	7.08	-70
		9:15 AM	15.19	0.76	0.15	7.78	7.07	-70.7
		9:20 AM	15.31	0.76	0.14	7.21	7.07	-70.3
		9:25 AM	15.46	0.76	0.13	5.36	7.07	-69.5
MW 68	11/12/2020	12:50 PM	14.33	0.79	0.3	17.3	7.09	-114.9
		12:55 PM	14.17	0.8	0.19	14.1	7.07	-129.3
		1:00 PM	14.06	0.8	0.16	12.9	7.05	-132.2
		1:05 PM	14.13	0.8	0.13	13.4	7.06	-137.7
MW 75	11/23/2020	11:35 AM	12.64	0.37	1.68	18.9	7.3	-216.5
		11:40 AM	12.65	0.37	1.24	16.1	7.32	-225.2
		11:45 AM	12.87	0.37	1.06	13.8	7.29	-234.7
		11:50 AM	12.88	0.37	0.98	13.1	7.27	-243.3
		11:55 AM	12.78	0.37	0.9	14.8	7.19	-250.5
		12:00 PM	12.72	0.37	0.89	13.4	7.18	-252.6
		12:05 PM	12.51	0.37	0.82	12.8	7.07	-259.1
		12:10 PM	12.82	0.37	0.82	14.2	6.95	-263.9
		12:15 PM	13.11	0.37	0.77	13.5	6.87	-268.3
		12:20 PM	13.13	0.37	0.8	15.4	6.85	-269.3
MW 76R-17	11/11/2020	2:03 PM	--	--	--	632	--	--
		2:18 PM	14.85	0.85	0.1	114	7.06	-88.8
		2:33 PM	15.06	0.86	0.07	54.1	7.06	-93.6
		2:43 PM	14.74	0.87	0.07	22.1	7.06	-94.9
		2:48 PM	14.79	0.86	0.07	19	7.06	-95.3
		2:53 PM	14.75	0.87	0.08	19.2	7.06	-95.5
MW 79	11/9/2020	9:03 AM	14.22	0.87	0.27	10.2	7.05	-129.7
		9:08 AM	14.29	0.87	0.26	7.63	7.04	-129.5
		9:13 AM	14.38	0.87	0.24	3.94	7.05	-127.4
MW 80	11/6/2020	12:11 PM	18.21	0.89	0.18	30.3	7.17	-212
		12:16 PM	17.97	0.9	0.08	26.7	7.2	-234.4
		12:21 PM	18	0.9	0.05	20.9	7.2	-239.5
		12:26 PM	18.05	0.9	0.04	19.4	7.17	-243.6
		12:31 PM	18.06	0.89	0.04	17.4	7.16	-243.5
		12:36 PM	18.01	0.89	0.03	12.4	7.14	-241.8
		12:41 PM	18.06	0.89	0.03	9.76	7.13	-239.5
MW 81	11/6/2020	2:40 PM	16.83	0.82	0.18	10.2	7.09	-137.5
		2:45 PM	16.84	0.82	0.16	8.44	7.08	-137.8
		2:50 PM	16.81	0.83	0.16	8.57	7.08	-137.9
MW 82	11/10/2020	8:55 AM	15.73	0.23	0.18	7.77	6.33	-115.5
		9:00 AM	15.71	0.23	0.14	4.68	6.31	-118.6
		9:05 AM	15.83	0.23	0.13	4.93	6.29	-119.4
		9:10 AM	15.84	0.23	0.12	4.45	6.28	-118.9
MW 83	11/11/2020	8:55 AM	13.06	0.87	0.35	61.8	7.13	-266.8
		9:05 AM	13.74	0.88	0.09	6.05	7.08	-261.5
		9:10 AM	13.72	0.88	0.08	4.1	7.09	-255.4
		9:15 AM	13.65	0.88	0.07	4.2	7.09	-252.2

Table 5

Well Stabilization Parameters
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Location	*Date*	*Time (24 hr)*	*Temperature (^{O}C)*	*Conductivity (mS/cm)*	*DO mg/L*	*Turbidity (NTU)*	*pH (s.u.)*	*ORP (mV)*
MW 84	11/9/2020	10:45 AM	--	--	--	153	--	--
		10:55 AM	15.52	0.76	1.23	36.4	7.19	56.1
		11:05 AM	14.61	0.78	0.69	28.5	7.15	49.1
		11:15 AM	14.73	0.78	0.43	15.5	7.15	41.3
		11:20 AM	14.87	0.78	0.39	8.68	7.15	38.9
		11:25 AM	14.83	0.78	0.32	10.1	7.15	36.1
		11:30 AM	14.83	0.78	0.26	4.14	7.15	30.6
		11:35 AM	14.87	0.78	0.24	42.6	7.15	29
		11:40 AM	15.01	0.77	0.22	67.4	7.15	29.5
		11:45 AM	14.88	0.78	0.2	34.6	7.15	33.4
		11:50 AM	15.04	0.78	0.19	29.2	7.15	35.9
		11:55 AM	15.11	0.78	0.18	23.4	7.15	38.6
MW 85	11/3/2020	3:10 PM	--	--	--	275	--	--
		3:20 PM	--	--	--	97.6	--	--
		3:30 PM	16.07	0.98	0.11	31.1	6.95	-77.7
		3:35 PM	15.63	0.99	0.08	22.7	6.96	-86.5
		3:40 PM	15.55	0.99	0.07	21.3	6.96	-91.3
		3:45 PM	15.5	0.99	0.06	17.4	6.96	-95.1
		3:50 PM	15.46	0.99	0.06	14.2	6.96	-97.6
		3:55 PM	15.51	0.99	0.05	10.5	6.96	-99.8
		4:00 PM	15.51	0.99	0.06	9.14	6.96	-99.9
MW 86	11/4/2020	2:24 PM	16.54	1.1	0.43	43.8	6.83	-55.5
		2:39 PM	15.82	1.1	0.17	18.5	6.83	-60.1
		2:44 PM	15.73	1.1	0.16	16.4	6.83	-60.4
		2:49 PM	15.77	1.1	0.14	15.1	6.83	-60.4
		3:05 PM	15.5	1.1	0.07	10.7	6.83	-61.5
		3:10 PM	15.41	1.11	0.07	7.46	6.83	-61.6
		3:15 PM	15.46	1.11	0.07	6.01	6.83	-61.5
MW 88	11/4/2020	12:15 PM	--	--	--	427	--	--
		12:20 PM	--	--	--	223	--	--
		12:30 PM	17.3	1.05	0.66	118	6.94	-70.3
		12:40 PM	17.94	1.05	0.62	88.3	6.93	-72.9
		12:50 PM	17.61	1.05	0.42	65.1	6.94	-75.1
		1:00 PM	17.52	1.06	0.37	40.2	6.94	-76.8
		1:10 PM	16.72	1.05	0.14	28.7	6.95	-78.1
		1:20 PM	16.51	1.05	0.11	20	6.95	-78.7
		1:25 PM	16.53	1.05	0.09	13.1	6.95	-79.7
		1:30 PM	16.53	1.05	0.08	13.3	6.95	-80.3
		1:35 PM	16.49	1.05	0.07	7.27	6.95	-80.8
MW 89-11	11/5/2020	11:55 AM	15.15	0.85	2.29	20.6	6.86	63.8
		12:00 PM	15.19	0.85	2.1	27.9	6.87	66.9
		12:05 PM	14.99	0.85	2.07	17	6.88	68.5
		12:20 PM	15.1	0.85	2.27	48.1	6.88	70.5
		12:25 PM	15.19	0.86	2.25	13.9	6.88	71.6
		12:30 PM	15.19	0.86	2.24	6.21	6.88	71.7
MW 92-13	11/5/2020	1:50 PM	15.12	0.93	0.17	12.2	7.03	-54.4
		1:55 PM	15.01	0.92	0.14	9.46	7.04	-65.8
		2:00 PM	15.19	0.93	0.15	6.14	7.03	-68.2
		2:05 PM	15.5	0.93	0.16	7.05	7.03	-70.5
MW 97R-16	11/3/2020	12:05 PM	16.07	1.06	0	4.44	7.39	-64
		12:10 PM	16.1	1.06	0	5.09	7.35	-71
		12:15 PM	16.19	1.06	0	3.13	7.31	-74
		12:20 PM	16.12	1.06	0	2.46	7.36	-78
		12:25 PM	16.13	1.06	0	1.55	7.31	-78

Notes:

mg/L	milligram per litre
mS/cm	millisiemens per centimetre
mV	millivolts
s.u.	Standard Units
^{o}C	degrees Celsius
NTU	Nephelometric Turbidity Units

Table 6

Summary of Groundwater Analytical Data - VOCs
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2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		**MW-2**	**MW 3**	**MW-4**	**MW-7**	**MW 8**	**MW 12**
Sample ID:		**GW-110320-SS-001**	**GW-111220-BE-040**	**GW-110320-SS-007**	**GW-110320-BE-002**	**GW-111120-BE-036**	**GW-110420-BE-010**
Sample Date:		**11/03/2020**	**11/12/2020**	**11/03/2020**	**11/03/2020**	**11/11/2020**	**11/04/2020**
Geologic Unit:		***3d***	***3s***	***3d***	***3d***	***3s***	***3i***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.025 U
Benzene	mg/L	0.001 U	0.0005 U	0.33 U	0.001 U	0.0005 U	0.0025 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.0025 U
Bromoform	mg/L	0.001 U	0.005 U	0.33 U	0.001 U	0.005 U	0.0025 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.002 U	0.33 U	0.001 U	0.002 U	0.0025 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.025 U
Carbon disulfide	mg/L	0.001 UJ	0.001 U	0.33 UJ	0.001 UJ	0.001 U	0.0025 U
Carbon tetrachloride	mg/L	0.001 U	0.00076 J	0.33 U	0.001 U	0.002 U	0.0025 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.0025 U
Chloroethane	mg/L	0.001 U	0.04 U	0.33 U	0.001 U	0.004 U	0.0025 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.0018 J	0.33 U	0.001 U	0.003 U	0.0025 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.003 U	0.33 U	0.001 U	0.003 U	0.0025 U
Dibromochloromethane	mg/L	0.001 U	0.002 U	0.33 U	0.001 U	0.002 U	0.0025 U
1,1-Dichloroethane	mg/L	0.001 U	0.062	0.26 J	0.001 U	0.046	0.00074 J
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.0025 U
1,1-Dichloroethene	mg/L	0.001 U	0.015	0.33 U	0.001 U	0.014	0.0025 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.63	7.8	0.001 U	2.2	0.072
trans-1,2-Dichloroethene	mg/L	0.001 U	0.012	0.14 J	0.001 U	0.018	0.00089 J
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.0025 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.0005 U	0.33 U	0.001 U	0.0005 U	0.0025 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.0005 U	0.33 U	0.001 U	0.0005 U	0.0025 U
Ethylbenzene	mg/L	0.001 U	0.01 U	0.33 U	0.001 U	0.001 U	0.0025 U
2-Hexanone	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.025 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.025 U
Methylene chloride	mg/L	0.005 U	0.001 U	1.7 U	0.005 U	0.001 U	0.013 U
Styrene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.0025 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.0005 U	0.33 U	0.001 U	0.0005 U	0.0025 U
Tetrachloroethene	mg/L	0.001 U	0.0027	0.33 U	0.001 U	0.001 U	0.0025 U
Toluene	mg/L	0.001 U	0.01 U	0.33 U	0.001 U	0.001 U	0.0025 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.28	0.33 U	0.001 U	0.0067	0.0025 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.0005 U	0.33 U	0.001 U	0.0005 U	0.0025 U
Trichloroethene	mg/L	0.001 U	2.1	1	0.001 U	0.16	0.00028 J
Vinyl chloride	mg/L	0.001 U	0.026	0.56	0.001 U	0.71	0.0005 J
Xylenes (total)	mg/L	0.002 U	0.03 U	0.67 U	0.002 U	0.003 U	0.005 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		**MW 14**	**MW 15**	**MW 16**	**MW 21**	**MW 28**	**MW 31R**
Sample ID:		**GW-110920-BE-026**	**GW-111220-BE-038**	**GW-111020-BE-033**	**GW-111120-BE-035**	**GW-110520-BE-018**	**GW-111220-BE-039**
Sample Date:		**11/09/2020**	**11/12/2020**	**11/10/2020**	**11/11/2020**	**11/05/2020**	**11/12/2020**
Geologic Unit:		***3s***	***3s***	***3s***	***3s***	***3d***	***1***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.67 U	0.01 U
Benzene	mg/L	0.00094	0.00028 J	0.00031 J	0.0005 U	0.067 U	0.0034
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	0.001 U
Bromoform	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.067 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.067 U	0.002 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.67 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	0.001 U
Carbon tetrachloride	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.067 U	0.002 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	0.001 U
Chloroethane	mg/L	0.004 U	0.08 U	0.004 U	0.004 U	0.067 U	0.074 J
Chloroform (Trichloromethane)	mg/L	0.003 U	0.0065	0.0018 J	0.003 U	0.067 U	0.003 U
Chloromethane (Methyl chloride)	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.067 U	0.034
Dibromochloromethane	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.067 U	0.002 U
1,1-Dichloroethane	mg/L	0.028	0.091	0.022	0.001 U	0.067 U	0.46
1,2-Dichloroethane	mg/L	0.001 U	0.0011	0.001 U	0.001 U	0.067 U	0.0026
1,1-Dichloroethene	mg/L	0.031	0.029	0.047	0.002 U	0.067 U	0.048
cis-1,2-Dichloroethene	mg/L	3	1.9	5.6	0.001 U	1.3	16
trans-1,2-Dichloroethene	mg/L	0.024	0.027	0.081	0.001 U	0.025 J	0.053
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.067 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.067 U	0.0005 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	0.57
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.67 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.67 U	0.003 J
Methylene chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.33 U	0.0056
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.067 U	0.00079
Tetrachloroethene	mg/L	0.001 U	0.0027	0.001 U	0.001 U	0.067 U	0.0011
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.067 U	2.4
1,1,1-Trichloroethane	mg/L	0.014	0.43	0.00046 J	0.001 U	0.067 U	0.062
1,1,2-Trichloroethane	mg/L	0.0005 U	0.0003 J	0.0005 U	0.0005 U	0.067 U	0.00049 J
Trichloroethene	mg/L	0.001 U	2.5	0.001 U	0.001 U	0.067 U	0.038 J
Vinyl chloride	mg/L	0.13	0.041	0.019	0.001 U	0.18	3.5
Xylenes (total)	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.13 U	2.1

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
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Anderson, Indiana

Sample Location:		**MW 37**	**MW 40**	**MW 41**	**MW 42**	**MW 46**	**MW 49**
Sample ID:		**GW-110420-BE-011**	**GW-111220-BE-043**	**GW-110920-BE-028**	**GW-110920-BE-029**	**GW-110520-BE-014**	**GW-110520-BE-015**
Sample Date:		**11/04/2020**	**11/12/2020**	**11/09/2020**	**11/09/2020**	**11/05/2020**	**11/05/2020**
Geologic Unit:		***3s***	***3s***	***3d***	***3s***	***3s***	***3s***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.33 U
Benzene	mg/L	0.001 U	0.0049	0.00067	0.00061	0.001 U	0.033 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
Bromoform	mg/L	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.033 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.033 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.33 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
Carbon tetrachloride	mg/L	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.033 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
Chloroethane	mg/L	0.001 U	0.2 U	0.004 U	0.004 U	0.001 U	0.033 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.003 U	0.003 U	0.003 U	0.001 U	0.033 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.003 U	0.003 U	0.003 U	0.001 U	0.033 U
Dibromochloromethane	mg/L	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.033 U
1,1-Dichloroethane	mg/L	0.001 U	0.11	0.0046	0.015	0.001 U	0.033 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
1,1-Dichloroethene	mg/L	0.001 U	0.023	0.02 J	0.023	0.001 U	0.033 U
cis-1,2-Dichloroethene	mg/L	0.001 U	3.1	4.2	2.9	0.001 U	0.6
trans-1,2-Dichloroethene	mg/L	0.001 U	0.079	0.064	0.13	0.001 U	0.023 J
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.033 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.033 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.33 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.33 U
Methylene chloride	mg/L	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.17 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.033 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.033 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.033 U
Trichloroethene	mg/L	0.001 U	0.18	0.001 U	0.0072	0.001 U	0.021 J
Vinyl chloride	mg/L	0.001 U	0.22	0.24	0.22	0.001 U	0.033 U
Xylenes (total)	mg/L	0.002 U	0.003 U	0.003 U	0.003 U	0.002 U	0.067 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		**MW 56**	**MW 57**	**MW 58**	**MW 58**	**MW 61**	**MW 61**
Sample ID:		**GW-110320-SS-005**	**GW-110320-BE-004**	**GW-110320-BE-006**	**GW-110320-BE-008**	**GW-110920-BE-030**	**GW-110920-BE-031**
Sample Date:		**11/03/2020**	**11/03/2020**	**11/03/2020**	**11/03/2020**	**11/09/2020**	**11/09/2020**
Geologic Unit:		***3d***	***3d***	***3d***	***3d***	***3d***	***3d***
					Duplicate		***Duplicate***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.5 U	1.4 U	1.4 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.0005 U	0.0005 U
Bromodichloromethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.005 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.002 U	0.002 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.5 U	1.4 U	1.4 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.001 UJ	0.05 U	0.14 UJ	0.14 UJ	0.001 U	0.00047 J
Carbon tetrachloride	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.002 U	0.002 U
Chlorobenzene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.004 U	0.004 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.003 U	0.003 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.003 U	0.003 U
Dibromochloromethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.002 U	0.002 U
1,1-Dichloroethane	mg/L	0.001 U	0.05 U	0.11 J	0.11 J	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.18	2.9	2.9	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.05 U	0.14	0.14	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.0005 U	0.0005 U
Ethylbenzene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.5 U	1.4 U	1.4 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.5 U	1.4 U	1.4 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.005 U	0.25 U	0.71 U	0.71 U	0.001 U	0.001 U
Styrene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.0005 U	0.0005 U
Tetrachloroethene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.0005 U	0.0005 U
Trichloroethene	mg/L	0.001 U	0.05 U	0.14 U	0.14 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.00066 J	0.98	0.13 J	0.12 J	0.00077 J	0.0011
Xylenes (total)	mg/L	0.002 U	0.1 U	0.29 U	0.29 U	0.003 U	0.003 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		**MW 64**	**MW 64**	**MW 65**	**MW 66**	**MW 68**	**MW 68**
Sample ID:		**GW-110620-BE-020**	**GW-110620-BE-021**	**GW-110620-BE-023**	**GW-110620-BE-019**	**GW-111220-BE-041**	**GW-111220-BE-042**
Sample Date:		**11/06/2020**	**11/06/2020**	**11/06/2020**	**11/06/2020**	**11/12/2020**	**11/12/2020**
Geologic Unit:		***3d***	***3d***	***3d***	***3d***	***3s***	***3s***
			Duplicate				***Duplicate***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0038	0.0043
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloromethane (Methyl chloride)	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Dibromochloromethane	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
1,1-Dichloroethane	mg/L	0.013	0.013	0.00054 J	0.075	0.13	0.14
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.002 U	0.002 U	0.002 U	0.00097 J	0.019	0.02
cis-1,2-Dichloroethene	mg/L	0.31	0.32	0.0082	2.3	3	3
trans-1,2-Dichloroethene	mg/L	0.028	0.028	0.00028 J	0.14	0.15	0.17
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.00096 J	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	1.1	1.2
Vinyl chloride	mg/L	0.042	0.042	0.00049 J	0.018	0.22	0.23
Xylenes (total)	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		**MW 75**	**MW 76R-17**	**MW 79**	**MW 80**	**MW 81**	**MW 82**
Sample ID:		**GW-112320-BE-044**	**GW-111120-BE-037**	**GW-110920-BE-025**	**GW-110620-BE-022**	**GW-110620-BE-024**	**GW-111020-BE-032**
Sample Date:		**11/23/2020**	**11/11/2020**	**11/09/2020**	**11/06/2020**	**11/06/2020**	**11/10/2020**
Geologic Unit:		***3d***	***3s***	***3s***	***3d***	***B***	***B***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.013
Benzene	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.003 J
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00061 J
Carbon tetrachloride	mg/L	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.003 U	0.0041	0.003 U	0.003 U	0.003 U
Dibromochloromethane	mg/L	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.0033	0.001 U	0.0013	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.002 U	0.0047	0.002 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.0032	1.5	0.013	0.057	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.00028 J	0.065	0.00064 J	0.00031 J	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.0016	0.44	0.063	0.037	0.001 U
Xylenes (total)	mg/L	0.002 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		**MW 83**	**MW 84**	**MW 85**	**MW 86**	**MW 88**	**MW89-11**
Sample ID:		**GW-111120-BE-034**	**GW-110920-BE-027**	**GW-110320-BE-009**	**GW-110420-BE-013**	**GW-110420-BE-012**	**GW-110520-BE-016**
Sample Date:		**11/11/2020**	**11/09/2020**	**11/03/2020**	**11/04/2020**	**11/04/2020**	**11/05/2020**
Geologic Unit:		***B***	***3s***	***3d***	***3d***	***3d***	***3s***
Parameters	**Unit**						
Volatile Organic Compounds							
Acetone	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.0005 U	0.0005 U	0.33 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.005 U	0.005 U	0.33 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.002 U	0.002 U	0.33 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.002 U	0.002 U	0.33 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.004 U	0.004 U	0.33 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.003 U	0.003 U	0.33 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.003 U	0.003 U	0.33 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.002 U	0.002 U	0.33 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.27 J	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.002 U	0.002 U	0.33 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	6.1	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.19 J	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.0005 U	0.0005 U	0.33 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.0005 U	0.0005 U	0.33 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	3.3 U	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/L	0.001 U	0.001 U	1.7 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.0005 U	0.0005 U	0.33 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.0062
1,1,2-Trichloroethane	mg/L	0.0005 U	0.0005 U	0.33 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.33 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.015	0.001 U	0.56	0.001 U	0.0061	0.001 U
Xylenes (total)	mg/L	0.003 U	0.003 U	0.67 U	0.002 U	0.002 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 6

Summary of Groundwater Analytical Data - VOCs
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Sample Location:		**MW92-13**	**MW97R-16**
Sample ID:		**GW-110520-BE-017**	**GW-110320-SS-003**
Sample Date:		**11/05/2020**	**11/03/2020**
Geologic Unit:		***3s***	***3d***
Parameters	**Unit**		
Volatile Organic Compounds			
Acetone	mg/L	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U
Carbon disulfide	mg/L	0.001 U	0.001 UJ
Carbon tetrachloride	mg/L	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U
2-Hexanone	mg/L	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U
Methylene chloride	mg/L	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 7

Summary of Surface Water Analytical Data - VOCs
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Sample Location:		**Pond Intake**	**Pond North**	**Pond North**
Sample ID:		**SW-110320-BE-003**	**SW-110320-BE-001**	**SW-110320-BE-002**
Sample Date:		**11/03/2020**	**11/03/2020**	**11/03/2020**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
Acetone	mg/L	0.025 U	0.1 U	0.1 U
Benzene	mg/L	0.0025 U	0.01 U	0.01 U
Bromodichloromethane	mg/L	0.0025 U	0.01 U	0.01 U
Bromoform	mg/L	0.0025 U	0.01 U	0.01 U
Bromomethane (Methyl bromide)	mg/L	0.0025 U	0.01 U	0.01 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	0.1 U	0.1 U
Carbon disulfide	mg/L	0.0025 U	0.01 UJ	0.01 UJ
Carbon tetrachloride	mg/L	0.0025 U	0.01 U	0.01 U
Chlorobenzene	mg/L	0.0025 U	0.01 U	0.01 U
Chloroethane	mg/L	0.0025 U	0.01 U	0.01 U
Chloroform (Trichloromethane)	mg/L	0.0025 U	0.01 U	0.01 U
Chloromethane (Methyl chloride)	mg/L	0.0025 U	0.01 U	0.01 U
Dibromochloromethane	mg/L	0.0025 U	0.01 U	0.01 U
1,1-Dichloroethane	mg/L	0.0039	0.0081 J	0.0093 J
1,2-Dichloroethane	mg/L	0.0025 U	0.01 U	0.01 U
1,1-Dichloroethene	mg/L	0.0025 U	0.01 U	0.01 U
cis-1,2-Dichloroethene	mg/L	0.076	0.2	0.2
trans-1,2-Dichloroethene	mg/L	0.0024 J	0.0074 J	0.0071 J
1,2-Dichloropropane	mg/L	0.0025 U	0.01 U	0.01 U
cis-1,3-Dichloropropene	mg/L	0.0025 U	0.01 U	0.01 U
trans-1,3-Dichloropropene	mg/L	0.0025 U	0.01 U	0.01 U
Ethylbenzene	mg/L	0.0025 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.025 U	0.1 U	0.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.025 U	0.1 U	0.1 U
Methylene chloride	mg/L	0.013 U	0.05 U	0.05 U
Styrene	mg/L	0.0025 U	0.01 U	0.01 U
1,1,2,2-Tetrachloroethane	mg/L	0.0025 U	0.01 U	0.01 U
Tetrachloroethene	mg/L	0.0025 U	0.01 U	0.01 U
Toluene	mg/L	0.0025 U	0.01 U	0.01 U
1,1,1-Trichloroethane	mg/L	0.0025 U	0.01 U	0.01 U
1,1,2-Trichloroethane	mg/L	0.0025 U	0.01 U	0.01 U
Trichloroethene	mg/L	0.0025 U	0.01 U	0.01 U
Vinyl chloride	mg/L	0.0039	0.011	0.0091 J
Xylenes (total)	mg/L	0.005 U	0.02 U	0.02 U

Notes:
mg/L - milligram per litre
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Trend Test Summary
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Hydro-Geologic Unit	Plume Position	Date Range	Analyte		
				TCE	cis-1,2-DCE	Vinyl chloride
MW-2	3d	WWTP, Margin	2007 -- 2020	--	--	--
MW 3	3s	AOC 1, Source	2005 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing [1]
MW-4	3d	WWTP, Tail	2005 -- 2020	**Increasing [1]**	NT or Decreasing	NT or Decreasing
MW-7	3d	WWTP, Margin	2012 -- 2020	--	--	--
MW 8	3s	AOC 1, Source	2005 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	3i	AOC 1, Tail	2005 -- 2020	NT or Decreasing [1]	NT or Decreasing	--
MW 14	3s	AOC 1, Tail	2005 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 15 [2][3]	3s	AOC 1, Source	2005 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 16	3s	AOC 1, Margin	2005 -- 2020	--	--	--
MW 21 [2]	3s	AOC 1, Margin	2005 -- 2020	--	--	--
MW 28	3d	WWTP, Tail	2005 -- 2020	--	**Increasing [1]**	**Increasing**
MW 31R	1	AOC 1, Source	2005 -- 2020	NT or Decreasing [1]	**Increasing**	NT or Decreasing
MW 37	3s	AOC 1, Margin	2005 -- 2020	--	--	--
MW 40	3s	WWTP, Source	2005 -- 2020	**Increasing [1]**	NT or Decreasing	NT or Decreasing
MW 41	3d	WWTP, Source	2005 -- 2020	--	NT or Decreasing	**Increasing**
MW 42	3s	WWTP, Source	2005 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 46	3s	AOC 1, Margin	2005 -- 2020	--	--	--
MW 49	3s	AOC 1, Tail	2005 -- 2020	--	**Increasing**	NT or Decreasing [1]
MW 51	3s	AOC 1, Tail	2008 -- 2019	NT or Decreasing	**Increasing**	**Increasing [1]**
MW 56	3d	WWTP, Margin	2005 -- 2020	--	--	--
MW 57	3d	WWTP, Margin	2005 -- 2020	--	--	--
MW 58	3d	WWTP, Margin	2005 -- 2020	--	--	**Increasing**
MW 61	3d	WWTP, Margin	2005 -- 2020	--	--	--
MW 64	3d	WWTP, Margin	2005 -- 2020	--	--	**Increasing**
MW 65	3d	WWTP, Margin	2005 -- 2020	--	NT or Decreasing	NT or Decreasing [1]
MW 66	3d	WWTP, Tail	2005 -- 2020	--	**Increasing [1]**	**Increasing [4]**
MW 68	3s	WWTP, Source	2005 -- 2020	**Increasing**	NT or Decreasing	NT or Decreasing
MW 75	3d	AOC 1, Margin	2005 -- 2020	--	--	--
MW 76/MW 76R-17	3s	AOC 1, Margin	2005 -- 2020	--	--	--
MW 79	3s	AOC 1, Tail	2005 -- 2020	--	**Increasing**	NT or Decreasing
MW 80	3d	WWTP, Margin	2005 -- 2020	--	--	NT or Decreasing
MW 81	B	WWTP, Margin	2005 -- 2020	--	**Increasing [1]**	**Increasing**
MW 82	B	AOC 1, Margin	2005 -- 2020	--	--	--
MW 83	B	WWTP, Margin	2005 -- 2020	--	--	**Increasing [1]**
MW 84	3S	WWTP, Margin	2005 -- 2020	--	--	--
MW 85	3d	WWTP, Tail	2008 -- 2020	--	**Increasing**	NT or Decreasing
MW 86	3d	WWTP, Tail	2010 -- 2020	--	--	--
MW 88	3d	WWTP, Tail	2010 -- 2020	--	--	**Increasing [1]**
MW 89-11	3s	AOC 1, Tail	2011 -- 2020	--	--	--
MW97R-16	3d	WWTP, Margin	2016 -- 2020	--	--	--
Pond Intake [2]	Surface Water	Surface Water	2005 -- 2020	--	**Increasing [1]**	**Increasing [1]**
Pond North [2]	Surface Water	Surface Water	2005 -- 2020	--	**Increasing [1]**	**Increasing [1]**

Notes:

[1] Tend test was calculated using detected values only, due to elevated detection limits for non-detects or due to detection frequency close to 75 percent.

[2] Due to changes in sampling frequency, earlier sampling events were excluded from the Mann-Kendall trend test to provide a consistent sampling interval corresponding to current program.

[3] Due a gap in the montirong record, the assumption of data equally spaced through time was not met. Therefore supplementary tests were performed (see text for details).

[4] Two observations (0.2 U mg/L in April and October 2018) were excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

-- -Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. ' Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

Table 9

Trend Test Summary - Recent Period
2020 Annual Monitoring Report
2915 Dr. Martin Luther King Jr. Boulevard,
Anderson, Indiana

Location	Hydro-Geologic Unit	Plume Position	Date Range	Analyte		
				TCE	cis-1,2-DCE	Vinyl chloride
MW-2	3d	WWTP, Margin	2015 -- 2020	--	--	--
MW 3	3s	AOC 1, Source	2016 -- 2020	NT or Decreasing	NT or Decreasing	--
MW-4	3d	WWTP, Tail	2016 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW-7	3d	WWTP, Margin	2017 -- 2020	--	--	--
MW 8	3s	AOC 1, Source	2016 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 12	3i	AOC 1, Tail	2016 -- 2020	--	NT or Decreasing	--
MW 14	3s	AOC 1, Tail	2016 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 15	3s	AOC 1, Source	2015 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 16	3s	AOC 1, Margin	2015 -- 2020	--	--	--
MW 21	3s	AOC 1, Margin	2015 -- 2020	--	--	--
MW 28	3d	WWTP, Tail	2016 -- 2020	--	**Increasing**	NT or Decreasing
MW 31R	1	AOC 1, Source	2016 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 37	3s	AOC 1, Margin	2015 -- 2020	--	--	--
MW 40	3s	WWTP, Source	2016 -- 2020	NT or Decreasing	NT or Decreasing	NT or Decreasing
MW 41	3d	WWTP, Source	2016 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 42	3s	WWTP, Source	2016 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 46	3s	AOC 1, Margin	2015 -- 2020	--	--	--
MW 49	3s	AOC 1, Tail	2018 -- 2020	--	NT or Decreasing	--
MW 51	3s	AOC 1, Tail	2016 -- 2019	NT or Decreasing	**Increasing**	NT or Decreasing
MW 56	3d	WWTP, Margin	2015 -- 2020	--	--	--
MW 57	3d	WWTP, Margin	2015 -- 2020	--	--	NT or Decreasing
MW 58	3d	WWTP, Margin	2015 -- 2020	--	**Increasing**	NT or Decreasing
MW 61	3d	WWTP, Margin	2015 -- 2020	--	--	NT or Decreasing
MW 64	3d	WWTP, Margin	2015 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 65	3d	WWTP, Margin	2015 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 66	3d	WWTP, Tail	2016 -- 2020	--	NT or Decreasing	NT or Decreasing [(1)]
MW 68	3s	WWTP, Source	2016 -- 2020	NT or Decreasing	NT or Decreasing	**Increasing**
MW 75	3d	AOC 1, Margin	2016 -- 2020	--	--	--
MW 76/MW 76R-17	3s	AOC 1, Margin	2017 -- 2020	--	--	--
MW 79	3s	AOC 1, Tail	2016 -- 2020	--	NT or Decreasing	**Increasing**
MW 80	3d	WWTP, Margin	2015 -- 2020	--	NT or Decreasing	**Increasing**
MW 81	B	WWTP, Margin	2015 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 82	B	AOC 1, Margin	2015 -- 2020	--	--	--
MW 83	B	WWTP, Margin	2015 -- 2020	--	--	**Increasing**
MW 84	3S	WWTP, Margin	2015 -- 2020	--	--	--
MW 85	3d	WWTP, Tail	2016 -- 2020	--	NT or Decreasing	NT or Decreasing
MW 86	3d	WWTP, Tail	2015 -- 2020	--	--	--
MW 88	3d	WWTP, Tail	2015 -- 2020	--	--	**Increasing**
MW 89-11	3s	AOC 1, Tail	2016 -- 2020	--	--	--
MW97R-16	3d	WWTP, Margin	2016 -- 2020	--	--	--
Pond Intake	Surface Water	Surface Water	2016 -- 2020	--	NT or Decreasing	NT or Decreasing
Pond North	Surface Water	Surface Water	2016 -- 2020	--	NT or Decreasing	NT or Decreasing

Notes:
[(1)] One observation (0.2 U mg/L in October 2018) was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.
-- - Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).
NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

Appendices

Appendix A
Laboratory Certificates of Analysis

ANALYTICAL REPORT

Job Number: 240-139669-1

Job Description: 11209506-T07, MLK - Anderson, IN

For:
GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, MI 48331

Attention: Ms. Ruth Mickle

Approved for release.
Denise D Heckler
Project Manager II
11/23/2020 10:42 AM

Denise D Heckler, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9477
Denise.Heckler@Eurofinset.com
11/23/2020

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Definitions/Glossary

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
240-139669-1

Comments
No additional comments.

Receipt
The samples were received on 11/6/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260B: The Laboratory Check Sample (LCS) for analytical batch 461048 exceeded control criteria for multiple compounds. The samples associated with this LCS were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

Method 8260B: The Laboratory Control Sample (LCS) for analytical batch 461088 exceeded control criteria for multiple compounds. The samples associated with this LCS were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

Method 8260B: The continuing calibration verification (CCV) associated with batch 461088 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: GW-110320-BE-004 (240-139669-4), GW-110320-BE-009 (240-139669-9), GW-110420-BE-010 (240-139669-10), GW-110420-BE-011 (240-139669-11), GW-110420-BE-012 (240-139669-12) and GW-110420-BE-013 (240-139669-13).

Method 8260B: There is no MS/MSD in batch 461088 due to an instrument fault.

Method 8260B: The continuing calibration verification (CCV) for analytical batch 461535 exceeded control criteria for one or multiple compounds. The samples associated with this CCV were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

Method 8260B: The Laboratory Control Sample (LCS) for analytical batch 4615345 was outside control criteria for one or multiple compounds. The samples associated with this LCS were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: GW-110320-SS-001 Lab Sample ID: 240-139669-1

No Detections.

Client Sample ID: GW-110320-BE-002 Lab Sample ID: 240-139669-2

No Detections.

Client Sample ID: GW-110320-SS-003 Lab Sample ID: 240-139669-3

No Detections.

Client Sample ID: GW-110320-BE-004 Lab Sample ID: 240-139669-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		50	8.0	ug/L	50		8260B	Total/NA
Vinyl chloride	980		50	10	ug/L	50		8260B	Total/NA

Client Sample ID: GW-110320-SS-005 Lab Sample ID: 240-139669-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.66	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-110320-BE-006 Lab Sample ID: 240-139669-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	110	J	140	24	ug/L	142.86		8260B	Total/NA
cis-1,2-Dichloroethene	2900		140	23	ug/L	142.86		8260B	Total/NA
trans-1,2-Dichloroethene	140		140	27	ug/L	142.86		8260B	Total/NA
Vinyl chloride	130	J	140	29	ug/L	142.86		8260B	Total/NA

Client Sample ID: GW-110320-SS-007 Lab Sample ID: 240-139669-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	260	J	330	57	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	7800		330	53	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	140	J	330	63	ug/L	333.33		8260B	Total/NA
Trichloroethene	1000		330	33	ug/L	333.33		8260B	Total/NA
Vinyl chloride	560		330	67	ug/L	333.33		8260B	Total/NA

Client Sample ID: GW-110320-BE-008 Lab Sample ID: 240-139669-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	110	J	140	24	ug/L	142.86		8260B	Total/NA
cis-1,2-Dichloroethene	2900		140	23	ug/L	142.86		8260B	Total/NA
trans-1,2-Dichloroethene	140		140	27	ug/L	142.86		8260B	Total/NA
Vinyl chloride	120	J	140	29	ug/L	142.86		8260B	Total/NA

Client Sample ID: GW-110320-BE-009 Lab Sample ID: 240-139669-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	270	J	330	57	ug/L	333.33		8260B	Total/NA
cis-1,2-Dichloroethene	6100		330	53	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	190	J	330	63	ug/L	333.33		8260B	Total/NA
Vinyl chloride	560		330	67	ug/L	333.33		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: GW-110420-BE-010 — Lab Sample ID: 240-139669-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.74	J	2.5	0.43	ug/L	2.5		8260B	Total/NA
cis-1,2-Dichloroethene	72		2.5	0.40	ug/L	2.5		8260B	Total/NA
trans-1,2-Dichloroethene	0.89	J	2.5	0.48	ug/L	2.5		8260B	Total/NA
Trichloroethene	0.28	J	2.5	0.25	ug/L	2.5		8260B	Total/NA
Vinyl chloride	0.50	J	2.5	0.50	ug/L	2.5		8260B	Total/NA

Client Sample ID: GW-110420-BE-011 — Lab Sample ID: 240-139669-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.45	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: GW-110420-BE-012 — Lab Sample ID: 240-139669-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.25	J	1.0	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	6.1		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: GW-110420-BE-013 — Lab Sample ID: 240-139669-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.21	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: GW-110520-BE-014 — Lab Sample ID: 240-139669-14

No Detections.

Client Sample ID: GW-110520-BE-015 — Lab Sample ID: 240-139669-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	600		33	5.3	ug/L	33.33		8260B	Total/NA
trans-1,2-Dichloroethene	23	J	33	6.3	ug/L	33.33		8260B	Total/NA
Trichloroethene	21	J	33	3.3	ug/L	33.33		8260B	Total/NA

Client Sample ID: GW-110520-BE-016 — Lab Sample ID: 240-139669-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.2		1.0	0.24	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.38	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: GW-110520-BE-017 — Lab Sample ID: 240-139669-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.92	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: EB-110520-BE-001 — Lab Sample ID: 240-139669-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1		1.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: GW-110520-BE-018 — Lab Sample ID: 240-139669-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1300		67	11	ug/L	66.67		8260B	Total/NA
trans-1,2-Dichloroethene	25	J	67	13	ug/L	66.67		8260B	Total/NA
Vinyl chloride	180		67	13	ug/L	66.67		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: TB-110520-BE-002
Lab Sample ID: 240-139669-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.17	J	1.0	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-110320-SS-001 Lab Sample ID: 240-139669-1

Date Collected: 11/03/20 11:18 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 14:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 14:05	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/15/20 14:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 14:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 14:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 14:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 14:05	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 14:05	1
Acetone	10	U	10	5.4	ug/L			11/15/20 14:05	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 14:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 14:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 14:05	1
Carbon disulfide	1.0	U *	1.0	0.28	ug/L			11/15/20 14:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 14:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 14:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 14:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 14:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 14:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 14:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 14:05	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 14:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 14:05	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 14:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 14:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 14:05	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 14:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 14:05	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 14:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 14:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 14:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 14:05	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 14:05	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 14:05	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*11/15/20 14:05*	*1*
4-Bromofluorobenzene (Surr)	*83*		*47 - 134*		*11/15/20 14:05*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*11/15/20 14:05*	*1*
Dibromofluoromethane (Surr)	*82*		*78 - 129*		*11/15/20 14:05*	*1*

Client Sample ID: GW-110320-BE-002 Lab Sample ID: 240-139669-2

Date Collected: 11/03/20 11:25 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 14:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 14:27	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/15/20 14:27	1

Client Sample ID: GW-110320-BE-002 — Lab Sample ID: 240-139669-2

Date Collected: 11/03/20 11:25 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 14:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 14:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 14:27	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 14:27	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 14:27	1
Acetone	10	U	10	5.4	ug/L			11/15/20 14:27	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 14:27	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 14:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 14:27	1
Carbon disulfide	1.0	U *	1.0	0.28	ug/L			11/15/20 14:27	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 14:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 14:27	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 14:27	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 14:27	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 14:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 14:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 14:27	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 14:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 14:27	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 14:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 14:27	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 14:27	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 14:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 14:27	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 14:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 14:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 14:27	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 14:27	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 14:27	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 14:27	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*11/15/20 14:27*	*1*
4-Bromofluorobenzene (Surr)	*84*		*47 - 134*		*11/15/20 14:27*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*11/15/20 14:27*	*1*
Dibromofluoromethane (Surr)	*82*		*78 - 129*		*11/15/20 14:27*	*1*

Client Sample ID: GW-110320-SS-003 — Lab Sample ID: 240-139669-3

Date Collected: 11/03/20 12:28 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 14:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 14:49	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/15/20 14:49	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 14:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 14:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 14:49	1

Client Sample ID: GW-110320-SS-003 — Lab Sample ID: 240-139669-3

Date Collected: 11/03/20 12:28 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 14:49	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 14:49	1
Acetone	10	U	10	5.4	ug/L			11/15/20 14:49	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 14:49	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 14:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 14:49	1
Carbon disulfide	1.0	U *	1.0	0.28	ug/L			11/15/20 14:49	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 14:49	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 14:49	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 14:49	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 14:49	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 14:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 14:49	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 14:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 14:49	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 14:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 14:49	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 14:49	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 14:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 14:49	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 14:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 14:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 14:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 14:49	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 14:49	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*11/15/20 14:49*	*1*
4-Bromofluorobenzene (Surr)	*83*		*47 - 134*		*11/15/20 14:49*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*11/15/20 14:49*	*1*
Dibromofluoromethane (Surr)	*83*		*78 - 129*		*11/15/20 14:49*	*1*

Client Sample ID: GW-110320-BE-004 — Lab Sample ID: 240-139669-4

Date Collected: 11/03/20 12:59 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	50	U	50	12	ug/L			11/16/20 16:46	50
1,1,2,2-Tetrachloroethane	50	U *	50	6.5	ug/L			11/16/20 16:46	50
1,1,2-Trichloroethane	50	U *	50	4.5	ug/L			11/16/20 16:46	50
1,1-Dichloroethane	50	U	50	8.5	ug/L			11/16/20 16:46	50
1,1-Dichloroethene	50	U	50	9.5	ug/L			11/16/20 16:46	50
1,2-Dichloroethane	50	U	50	11	ug/L			11/16/20 16:46	50
1,2-Dichloropropane	50	U	50	7.5	ug/L			11/16/20 16:46	50
2-Hexanone	500	U *	500	27	ug/L			11/16/20 16:46	50
Acetone	500	U	500	270	ug/L			11/16/20 16:46	50

Client Sample ID: GW-110320-BE-004 — Lab Sample ID: 240-139669-4

Date Collected: 11/03/20 12:59 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	50	U	50	6.5	ug/L			11/16/20 16:46	50
Bromoform	50	U	50	38	ug/L			11/16/20 16:46	50
Bromomethane	50	U	50	21	ug/L			11/16/20 16:46	50
Carbon disulfide	50	U	50	14	ug/L			11/16/20 16:46	50
Carbon tetrachloride	50	U	50	13	ug/L			11/16/20 16:46	50
Chlorobenzene	50	U	50	7.0	ug/L			11/16/20 16:46	50
Chloroethane	50	U	50	42	ug/L			11/16/20 16:46	50
Chloroform	50	U	50	6.5	ug/L			11/16/20 16:46	50
Chloromethane	50	U	50	10	ug/L			11/16/20 16:46	50
cis-1,2-Dichloroethene	**180**		50	8.0	ug/L			11/16/20 16:46	50
cis-1,3-Dichloropropene	50	U	50	31	ug/L			11/16/20 16:46	50
Dichlorobromomethane	50	U	50	8.5	ug/L			11/16/20 16:46	50
Ethylbenzene	50	U	50	5.5	ug/L			11/16/20 16:46	50
2-Butanone (MEK)	500	U	500	58	ug/L			11/16/20 16:46	50
4-Methyl-2-pentanone (MIBK)	500	U	500	21	ug/L			11/16/20 16:46	50
Methylene Chloride	250	U	250	130	ug/L			11/16/20 16:46	50
Styrene	50	U	50	5.0	ug/L			11/16/20 16:46	50
Tetrachloroethene	50	U	50	7.5	ug/L			11/16/20 16:46	50
Toluene	50	U *	50	7.0	ug/L			11/16/20 16:46	50
trans-1,2-Dichloroethene	50	U	50	9.5	ug/L			11/16/20 16:46	50
trans-1,3-Dichloropropene	50	U	50	34	ug/L			11/16/20 16:46	50
Trichloroethene	50	U	50	5.0	ug/L			11/16/20 16:46	50
Vinyl chloride	**980**		50	10	ug/L			11/16/20 16:46	50
Xylenes, Total	100	U	100	7.5	ug/L			11/16/20 16:46	50
Chlorodibromomethane	50	U	50	20	ug/L			11/16/20 16:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*11/16/20 16:46*	*50*
4-Bromofluorobenzene (Surr)	*85*		*47 - 134*		*11/16/20 16:46*	*50*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/16/20 16:46*	*50*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*11/16/20 16:46*	*50*

Client Sample ID: GW-110320-SS-005 — Lab Sample ID: 240-139669-5

Date Collected: 11/03/20 13:58 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 15:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 15:32	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/15/20 15:32	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 15:32	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 15:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 15:32	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 15:32	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 15:32	1
Acetone	10	U	10	5.4	ug/L			11/15/20 15:32	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 15:32	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 15:32	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 15:32	1

Client Sample ID: GW-110320-SS-005 — Lab Sample ID: 240-139669-5

Date Collected: 11/03/20 13:58 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U *	1.0	0.28	ug/L			11/15/20 15:32	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 15:32	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 15:32	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 15:32	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 15:32	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 15:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 15:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 15:32	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 15:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 15:32	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 15:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 15:32	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 15:32	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 15:32	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 15:32	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 15:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 15:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 15:32	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 15:32	1
Vinyl chloride	**0.66**	**J**	1.0	0.20	ug/L			11/15/20 15:32	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 15:32	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*11/15/20 15:32*	*1*
4-Bromofluorobenzene (Surr)	*80*		*47 - 134*		*11/15/20 15:32*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*11/15/20 15:32*	*1*
Dibromofluoromethane (Surr)	*84*		*78 - 129*		*11/15/20 15:32*	*1*

Client Sample ID: GW-110320-BE-006 — Lab Sample ID: 240-139669-6

Date Collected: 11/03/20 14:12 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	140	U	140	34	ug/L			11/15/20 15:54	142.86
1,1,2,2-Tetrachloroethane	140	U	140	19	ug/L			11/15/20 15:54	142.86
1,1,2-Trichloroethane	140	U *	140	13	ug/L			11/15/20 15:54	142.86
1,1-Dichloroethane	**110**	**J**	140	24	ug/L			11/15/20 15:54	142.86
1,1-Dichloroethene	140	U	140	27	ug/L			11/15/20 15:54	142.86
1,2-Dichloroethane	140	U	140	30	ug/L			11/15/20 15:54	142.86
1,2-Dichloropropane	140	U	140	21	ug/L			11/15/20 15:54	142.86
2-Hexanone	1400	U	1400	77	ug/L			11/15/20 15:54	142.86
Acetone	1400	U	1400	770	ug/L			11/15/20 15:54	142.86
Benzene	140	U	140	19	ug/L			11/15/20 15:54	142.86
Bromoform	140	U	140	110	ug/L			11/15/20 15:54	142.86
Bromomethane	140	U	140	60	ug/L			11/15/20 15:54	142.86
Carbon disulfide	140	U *	140	40	ug/L			11/15/20 15:54	142.86
Carbon tetrachloride	140	U	140	37	ug/L			11/15/20 15:54	142.86
Chlorobenzene	140	U	140	20	ug/L			11/15/20 15:54	142.86

Client Sample ID: GW-110320-BE-006 — Lab Sample ID: 240-139669-6

Date Collected: 11/03/20 14:12 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	140	U	140	120	ug/L			11/15/20 15:54	142.86
Chloroform	140	U	140	19	ug/L			11/15/20 15:54	142.86
Chloromethane	140	U	140	29	ug/L			11/15/20 15:54	142.86
cis-1,2-Dichloroethene	**2900**		140	23	ug/L			11/15/20 15:54	142.86
cis-1,3-Dichloropropene	140	U	140	87	ug/L			11/15/20 15:54	142.86
Dichlorobromomethane	140	U	140	24	ug/L			11/15/20 15:54	142.86
Ethylbenzene	140	U	140	16	ug/L			11/15/20 15:54	142.86
2-Butanone (MEK)	1400	U	1400	170	ug/L			11/15/20 15:54	142.86
4-Methyl-2-pentanone (MIBK)	1400	U	1400	60	ug/L			11/15/20 15:54	142.86
Methylene Chloride	710	U	710	370	ug/L			11/15/20 15:54	142.86
Styrene	140	U	140	14	ug/L			11/15/20 15:54	142.86
Tetrachloroethene	140	U	140	21	ug/L			11/15/20 15:54	142.86
Toluene	140	U	140	20	ug/L			11/15/20 15:54	142.86
trans-1,2-Dichloroethene	**140**		140	27	ug/L			11/15/20 15:54	142.86
trans-1,3-Dichloropropene	140	U	140	96	ug/L			11/15/20 15:54	142.86
Trichloroethene	140	U	140	14	ug/L			11/15/20 15:54	142.86
Vinyl chloride	**130**	**J**	140	29	ug/L			11/15/20 15:54	142.86
Xylenes, Total	290	U	290	21	ug/L			11/15/20 15:54	142.86
Chlorodibromomethane	140	U	140	56	ug/L			11/15/20 15:54	142.86

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*11/15/20 15:54*	*142.86*
4-Bromofluorobenzene (Surr)	*83*		*47 - 134*		*11/15/20 15:54*	*142.86*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/15/20 15:54*	*142.86*
Dibromofluoromethane (Surr)	*83*		*78 - 129*		*11/15/20 15:54*	*142.86*

Client Sample ID: GW-110320-SS-007 — Lab Sample ID: 240-139669-7

Date Collected: 11/03/20 15:23 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	80	ug/L			11/15/20 16:16	333.33
1,1,2,2-Tetrachloroethane	330	U	330	43	ug/L			11/15/20 16:16	333.33
1,1,2-Trichloroethane	330	U *	330	30	ug/L			11/15/20 16:16	333.33
1,1-Dichloroethane	**260**	**J**	330	57	ug/L			11/15/20 16:16	333.33
1,1-Dichloroethene	330	U	330	63	ug/L			11/15/20 16:16	333.33
1,2-Dichloroethane	330	U	330	70	ug/L			11/15/20 16:16	333.33
1,2-Dichloropropane	330	U	330	50	ug/L			11/15/20 16:16	333.33
2-Hexanone	3300	U	3300	180	ug/L			11/15/20 16:16	333.33
Acetone	3300	U	3300	1800	ug/L			11/15/20 16:16	333.33
Benzene	330	U	330	43	ug/L			11/15/20 16:16	333.33
Bromoform	330	U	330	250	ug/L			11/15/20 16:16	333.33
Bromomethane	330	U	330	140	ug/L			11/15/20 16:16	333.33
Carbon disulfide	330	U *	330	93	ug/L			11/15/20 16:16	333.33
Carbon tetrachloride	330	U	330	87	ug/L			11/15/20 16:16	333.33
Chlorobenzene	330	U	330	47	ug/L			11/15/20 16:16	333.33
Chloroethane	330	U	330	280	ug/L			11/15/20 16:16	333.33
Chloroform	330	U	330	43	ug/L			11/15/20 16:16	333.33
Chloromethane	330	U	330	67	ug/L			11/15/20 16:16	333.33

Client Sample ID: GW-110320-SS-007 — Lab Sample ID: 240-139669-7

Date Collected: 11/03/20 15:23 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**7800**		330	53	ug/L			11/15/20 16:16	333.33
cis-1,3-Dichloropropene	330	U	330	200	ug/L			11/15/20 16:16	333.33
Dichlorobromomethane	330	U	330	57	ug/L			11/15/20 16:16	333.33
Ethylbenzene	330	U	330	37	ug/L			11/15/20 16:16	333.33
2-Butanone (MEK)	3300	U	3300	390	ug/L			11/15/20 16:16	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	140	ug/L			11/15/20 16:16	333.33
Methylene Chloride	1700	U	1700	870	ug/L			11/15/20 16:16	333.33
Styrene	330	U	330	33	ug/L			11/15/20 16:16	333.33
Tetrachloroethene	330	U	330	50	ug/L			11/15/20 16:16	333.33
Toluene	330	U	330	47	ug/L			11/15/20 16:16	333.33
trans-1,2-Dichloroethene	**140**	**J**	330	63	ug/L			11/15/20 16:16	333.33
trans-1,3-Dichloropropene	330	U	330	220	ug/L			11/15/20 16:16	333.33
Trichloroethene	**1000**		330	33	ug/L			11/15/20 16:16	333.33
Vinyl chloride	**560**		330	67	ug/L			11/15/20 16:16	333.33
Xylenes, Total	670	U	670	50	ug/L			11/15/20 16:16	333.33
Chlorodibromomethane	330	U	330	130	ug/L			11/15/20 16:16	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*11/15/20 16:16*	*333.33*
4-Bromofluorobenzene (Surr)	*81*		*47 - 134*		*11/15/20 16:16*	*333.33*
Toluene-d8 (Surr)	*94*		*69 - 122*		*11/15/20 16:16*	*333.33*
Dibromofluoromethane (Surr)	*84*		*78 - 129*		*11/15/20 16:16*	*333.33*

Client Sample ID: GW-110320-BE-008 — Lab Sample ID: 240-139669-8

Date Collected: 11/03/20 14:20 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	140	U	140	34	ug/L			11/15/20 16:38	142.86
1,1,2,2-Tetrachloroethane	140	U	140	19	ug/L			11/15/20 16:38	142.86
1,1,2-Trichloroethane	140	U *	140	13	ug/L			11/15/20 16:38	142.86
1,1-Dichloroethane	**110**	**J**	140	24	ug/L			11/15/20 16:38	142.86
1,1-Dichloroethene	140	U	140	27	ug/L			11/15/20 16:38	142.86
1,2-Dichloroethane	140	U	140	30	ug/L			11/15/20 16:38	142.86
1,2-Dichloropropane	140	U	140	21	ug/L			11/15/20 16:38	142.86
2-Hexanone	1400	U	1400	77	ug/L			11/15/20 16:38	142.86
Acetone	1400	U	1400	770	ug/L			11/15/20 16:38	142.86
Benzene	140	U	140	19	ug/L			11/15/20 16:38	142.86
Bromoform	140	U	140	110	ug/L			11/15/20 16:38	142.86
Bromomethane	140	U	140	60	ug/L			11/15/20 16:38	142.86
Carbon disulfide	140	U *	140	40	ug/L			11/15/20 16:38	142.86
Carbon tetrachloride	140	U	140	37	ug/L			11/15/20 16:38	142.86
Chlorobenzene	140	U	140	20	ug/L			11/15/20 16:38	142.86
Chloroethane	140	U	140	120	ug/L			11/15/20 16:38	142.86
Chloroform	140	U	140	19	ug/L			11/15/20 16:38	142.86
Chloromethane	140	U	140	29	ug/L			11/15/20 16:38	142.86
cis-1,2-Dichloroethene	**2900**		140	23	ug/L			11/15/20 16:38	142.86
cis-1,3-Dichloropropene	140	U	140	87	ug/L			11/15/20 16:38	142.86
Dichlorobromomethane	140	U	140	24	ug/L			11/15/20 16:38	142.86

Client Sample ID: GW-110320-BE-008 Lab Sample ID: 240-139669-8

Date Collected: 11/03/20 14:20 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	140	U	140	16	ug/L			11/15/20 16:38	142.86
2-Butanone (MEK)	1400	U	1400	170	ug/L			11/15/20 16:38	142.86
4-Methyl-2-pentanone (MIBK)	1400	U	1400	60	ug/L			11/15/20 16:38	142.86
Methylene Chloride	710	U	710	370	ug/L			11/15/20 16:38	142.86
Styrene	140	U	140	14	ug/L			11/15/20 16:38	142.86
Tetrachloroethene	140	U	140	21	ug/L			11/15/20 16:38	142.86
Toluene	140	U	140	20	ug/L			11/15/20 16:38	142.86
trans-1,2-Dichloroethene	**140**		140	27	ug/L			11/15/20 16:38	142.86
trans-1,3-Dichloropropene	140	U	140	96	ug/L			11/15/20 16:38	142.86
Trichloroethene	140	U	140	14	ug/L			11/15/20 16:38	142.86
Vinyl chloride	**120**	**J**	140	29	ug/L			11/15/20 16:38	142.86
Xylenes, Total	290	U	290	21	ug/L			11/15/20 16:38	142.86
Chlorodibromomethane	140	U	140	56	ug/L			11/15/20 16:38	142.86

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*11/15/20 16:38*	*142.86*
4-Bromofluorobenzene (Surr)	*83*		*47 - 134*		*11/15/20 16:38*	*142.86*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/15/20 16:38*	*142.86*
Dibromofluoromethane (Surr)	*83*		*78 - 129*		*11/15/20 16:38*	*142.86*

Client Sample ID: GW-110320-BE-009 Lab Sample ID: 240-139669-9

Date Collected: 11/03/20 16:04 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	80	ug/L			11/16/20 17:13	333.33
1,1,2,2-Tetrachloroethane	330	U *	330	43	ug/L			11/16/20 17:13	333.33
1,1,2-Trichloroethane	330	U *	330	30	ug/L			11/16/20 17:13	333.33
1,1-Dichloroethane	**270**	**J**	330	57	ug/L			11/16/20 17:13	333.33
1,1-Dichloroethene	330	U	330	63	ug/L			11/16/20 17:13	333.33
1,2-Dichloroethane	330	U	330	70	ug/L			11/16/20 17:13	333.33
1,2-Dichloropropane	330	U	330	50	ug/L			11/16/20 17:13	333.33
2-Hexanone	3300	U *	3300	180	ug/L			11/16/20 17:13	333.33
Acetone	3300	U	3300	1800	ug/L			11/16/20 17:13	333.33
Benzene	330	U	330	43	ug/L			11/16/20 17:13	333.33
Bromoform	330	U	330	250	ug/L			11/16/20 17:13	333.33
Bromomethane	330	U	330	140	ug/L			11/16/20 17:13	333.33
Carbon disulfide	330	U	330	93	ug/L			11/16/20 17:13	333.33
Carbon tetrachloride	330	U	330	87	ug/L			11/16/20 17:13	333.33
Chlorobenzene	330	U	330	47	ug/L			11/16/20 17:13	333.33
Chloroethane	330	U	330	280	ug/L			11/16/20 17:13	333.33
Chloroform	330	U	330	43	ug/L			11/16/20 17:13	333.33
Chloromethane	330	U	330	67	ug/L			11/16/20 17:13	333.33
cis-1,2-Dichloroethene	**6100**		330	53	ug/L			11/16/20 17:13	333.33
cis-1,3-Dichloropropene	330	U	330	200	ug/L			11/16/20 17:13	333.33
Dichlorobromomethane	330	U	330	57	ug/L			11/16/20 17:13	333.33
Ethylbenzene	330	U	330	37	ug/L			11/16/20 17:13	333.33
2-Butanone (MEK)	3300	U	3300	390	ug/L			11/16/20 17:13	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	140	ug/L			11/16/20 17:13	333.33

Client Sample ID: GW-110320-BE-009 Lab Sample ID: 240-139669-9

Date Collected: 11/03/20 16:04 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1700	U	1700	870	ug/L			11/16/20 17:13	333.33
Styrene	330	U	330	33	ug/L			11/16/20 17:13	333.33
Tetrachloroethene	330	U	330	50	ug/L			11/16/20 17:13	333.33
Toluene	330	U *	330	47	ug/L			11/16/20 17:13	333.33
trans-1,2-Dichloroethene	**190**	**J**	330	63	ug/L			11/16/20 17:13	333.33
trans-1,3-Dichloropropene	330	U	330	220	ug/L			11/16/20 17:13	333.33
Trichloroethene	330	U	330	33	ug/L			11/16/20 17:13	333.33
Vinyl chloride	**560**		330	67	ug/L			11/16/20 17:13	333.33
Xylenes, Total	670	U	670	50	ug/L			11/16/20 17:13	333.33
Chlorodibromomethane	330	U	330	130	ug/L			11/16/20 17:13	333.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*11/16/20 17:13*	*333.33*
4-Bromofluorobenzene (Surr)	*85*		*47 - 134*		*11/16/20 17:13*	*333.33*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/16/20 17:13*	*333.33*
Dibromofluoromethane (Surr)	*86*		*78 - 129*		*11/16/20 17:13*	*333.33*

Client Sample ID: GW-110420-BE-010 Lab Sample ID: 240-139669-10

Date Collected: 11/04/20 10:29 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	2.5	0.60	ug/L			11/16/20 17:40	2.5
1,1,2,2-Tetrachloroethane	2.5	U *	2.5	0.33	ug/L			11/16/20 17:40	2.5
1,1,2-Trichloroethane	2.5	U *	2.5	0.23	ug/L			11/16/20 17:40	2.5
1,1-Dichloroethane	**0.74**	**J**	2.5	0.43	ug/L			11/16/20 17:40	2.5
1,1-Dichloroethene	2.5	U	2.5	0.48	ug/L			11/16/20 17:40	2.5
1,2-Dichloroethane	2.5	U	2.5	0.53	ug/L			11/16/20 17:40	2.5
1,2-Dichloropropane	2.5	U	2.5	0.38	ug/L			11/16/20 17:40	2.5
2-Hexanone	25	U *	25	1.4	ug/L			11/16/20 17:40	2.5
Acetone	25	U	25	14	ug/L			11/16/20 17:40	2.5
Benzene	2.5	U	2.5	0.33	ug/L			11/16/20 17:40	2.5
Bromoform	2.5	U	2.5	1.9	ug/L			11/16/20 17:40	2.5
Bromomethane	2.5	U	2.5	1.1	ug/L			11/16/20 17:40	2.5
Carbon disulfide	2.5	U	2.5	0.70	ug/L			11/16/20 17:40	2.5
Carbon tetrachloride	2.5	U	2.5	0.65	ug/L			11/16/20 17:40	2.5
Chlorobenzene	2.5	U	2.5	0.35	ug/L			11/16/20 17:40	2.5
Chloroethane	2.5	U	2.5	2.1	ug/L			11/16/20 17:40	2.5
Chloroform	2.5	U	2.5	0.33	ug/L			11/16/20 17:40	2.5
Chloromethane	2.5	U	2.5	0.50	ug/L			11/16/20 17:40	2.5
cis-1,2-Dichloroethene	**72**		2.5	0.40	ug/L			11/16/20 17:40	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	1.5	ug/L			11/16/20 17:40	2.5
Dichlorobromomethane	2.5	U	2.5	0.43	ug/L			11/16/20 17:40	2.5
Ethylbenzene	2.5	U	2.5	0.28	ug/L			11/16/20 17:40	2.5
2-Butanone (MEK)	25	U	25	2.9	ug/L			11/16/20 17:40	2.5
4-Methyl-2-pentanone (MIBK)	25	U	25	1.1	ug/L			11/16/20 17:40	2.5
Methylene Chloride	13	U	13	6.6	ug/L			11/16/20 17:40	2.5
Styrene	2.5	U	2.5	0.25	ug/L			11/16/20 17:40	2.5
Tetrachloroethene	2.5	U	2.5	0.38	ug/L			11/16/20 17:40	2.5

Client Sample ID: GW-110420-BE-010 — Lab Sample ID: 240-139669-10

Date Collected: 11/04/20 10:29 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	2.5	U *	2.5	0.35	ug/L			11/16/20 17:40	2.5
trans-1,2-Dichloroethene	**0.89**	**J**	2.5	0.48	ug/L			11/16/20 17:40	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	1.7	ug/L			11/16/20 17:40	2.5
Trichloroethene	**0.28**	**J**	2.5	0.25	ug/L			11/16/20 17:40	2.5
Vinyl chloride	**0.50**	**J**	2.5	0.50	ug/L			11/16/20 17:40	2.5
Xylenes, Total	5.0	U	5.0	0.38	ug/L			11/16/20 17:40	2.5
Chlorodibromomethane	2.5	U	2.5	0.98	ug/L			11/16/20 17:40	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*11/16/20 17:40*	*2.5*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/16/20 17:40*	*2.5*
Toluene-d8 (Surr)	*93*		*69 - 122*		*11/16/20 17:40*	*2.5*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*11/16/20 17:40*	*2.5*

Client Sample ID: GW-110420-BE-011 — Lab Sample ID: 240-139669-11

Date Collected: 11/04/20 11:33 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/20 18:06	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13	ug/L			11/16/20 18:06	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/16/20 18:06	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/16/20 18:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 18:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/16/20 18:06	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/16/20 18:06	1
2-Hexanone	10	U *	10	0.54	ug/L			11/16/20 18:06	1
Acetone	10	U	10	5.4	ug/L			11/16/20 18:06	1
Benzene	1.0	U	1.0	0.13	ug/L			11/16/20 18:06	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/16/20 18:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/16/20 18:06	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/16/20 18:06	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/16/20 18:06	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/16/20 18:06	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/16/20 18:06	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/16/20 18:06	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/16/20 18:06	1
cis-1,2-Dichloroethene	**0.45**	**J**	1.0	0.16	ug/L			11/16/20 18:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/16/20 18:06	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/16/20 18:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/16/20 18:06	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/16/20 18:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/16/20 18:06	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/16/20 18:06	1
Styrene	1.0	U	1.0	0.10	ug/L			11/16/20 18:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/16/20 18:06	1
Toluene	1.0	U *	1.0	0.14	ug/L			11/16/20 18:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 18:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/16/20 18:06	1

Client Sample ID: GW-110420-BE-011 — Lab Sample ID: 240-139669-11

Date Collected: 11/04/20 11:33 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/16/20 18:06	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/16/20 18:06	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/16/20 18:06	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/16/20 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 130*		*11/16/20 18:06*	*1*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/16/20 18:06*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/16/20 18:06*	*1*
Dibromofluoromethane (Surr)	*84*		*78 - 129*		*11/16/20 18:06*	*1*

Client Sample ID: GW-110420-BE-012 — Lab Sample ID: 240-139669-12

Date Collected: 11/04/20 13:38 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/20 18:33	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13	ug/L			11/16/20 18:33	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/16/20 18:33	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/16/20 18:33	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 18:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/16/20 18:33	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/16/20 18:33	1
2-Hexanone	10	U *	10	0.54	ug/L			11/16/20 18:33	1
Acetone	10	U	10	5.4	ug/L			11/16/20 18:33	1
Benzene	1.0	U	1.0	0.13	ug/L			11/16/20 18:33	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/16/20 18:33	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/16/20 18:33	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/16/20 18:33	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/16/20 18:33	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/16/20 18:33	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/16/20 18:33	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/16/20 18:33	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/16/20 18:33	1
cis-1,2-Dichloroethene	**0.25**	**J**	1.0	0.16	ug/L			11/16/20 18:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/16/20 18:33	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/16/20 18:33	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/16/20 18:33	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/16/20 18:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/16/20 18:33	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/16/20 18:33	1
Styrene	1.0	U	1.0	0.10	ug/L			11/16/20 18:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/16/20 18:33	1
Toluene	1.0	U *	1.0	0.14	ug/L			11/16/20 18:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 18:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/16/20 18:33	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/16/20 18:33	1
Vinyl chloride	**6.1**		1.0	0.20	ug/L			11/16/20 18:33	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/16/20 18:33	1

Client Sample ID: GW-110420-BE-012 — Lab Sample ID: 240-139669-12

Date Collected: 11/04/20 13:38 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/16/20 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 130*		*11/16/20 18:33*	*1*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/16/20 18:33*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*11/16/20 18:33*	*1*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*11/16/20 18:33*	*1*

Client Sample ID: GW-110420-BE-013 — Lab Sample ID: 240-139669-13

Date Collected: 11/04/20 15:21 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/20 19:00	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13	ug/L			11/16/20 19:00	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/16/20 19:00	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/16/20 19:00	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 19:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/16/20 19:00	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/16/20 19:00	1
2-Hexanone	10	U *	10	0.54	ug/L			11/16/20 19:00	1
Acetone	10	U	10	5.4	ug/L			11/16/20 19:00	1
Benzene	1.0	U	1.0	0.13	ug/L			11/16/20 19:00	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/16/20 19:00	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/16/20 19:00	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/16/20 19:00	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/16/20 19:00	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/16/20 19:00	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/16/20 19:00	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/16/20 19:00	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/16/20 19:00	1
cis-1,2-Dichloroethene	**0.21**	**J**	1.0	0.16	ug/L			11/16/20 19:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/16/20 19:00	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/16/20 19:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/16/20 19:00	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/16/20 19:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/16/20 19:00	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/16/20 19:00	1
Styrene	1.0	U	1.0	0.10	ug/L			11/16/20 19:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/16/20 19:00	1
Toluene	1.0	U *	1.0	0.14	ug/L			11/16/20 19:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 19:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/16/20 19:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/16/20 19:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/16/20 19:00	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/16/20 19:00	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/16/20 19:00	1

Client Sample ID: GW-110420-BE-013 Lab Sample ID: 240-139669-13

Date Collected: 11/04/20 15:21 **Matrix: Water**
Date Received: 11/06/20 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*11/16/20 19:00*	*1*
4-Bromofluorobenzene (Surr)	*80*		*47 - 134*		*11/16/20 19:00*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*11/16/20 19:00*	*1*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*11/16/20 19:00*	*1*

Client Sample ID: GW-110520-BE-014 Lab Sample ID: 240-139669-14

Date Collected: 11/05/20 10:00 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/18/20 12:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/18/20 12:08	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/18/20 12:08	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/18/20 12:08	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 12:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/18/20 12:08	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/18/20 12:08	1
2-Hexanone	10	U	10	0.54	ug/L			11/18/20 12:08	1
Acetone	10	U	10	5.4	ug/L			11/18/20 12:08	1
Benzene	1.0	U	1.0	0.13	ug/L			11/18/20 12:08	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/18/20 12:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/18/20 12:08	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/18/20 12:08	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/18/20 12:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/18/20 12:08	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/18/20 12:08	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/18/20 12:08	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/18/20 12:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/18/20 12:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/18/20 12:08	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/18/20 12:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/18/20 12:08	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/18/20 12:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/18/20 12:08	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/18/20 12:08	1
Styrene	1.0	U	1.0	0.10	ug/L			11/18/20 12:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 12:08	1
Toluene	1.0	U	1.0	0.14	ug/L			11/18/20 12:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 12:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/18/20 12:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 12:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 12:08	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/18/20 12:08	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 130*		*11/18/20 12:08*	*1*
4-Bromofluorobenzene (Surr)	*83*		*47 - 134*		*11/18/20 12:08*	*1*
Toluene-d8 (Surr)	*100*		*69 - 122*		*11/18/20 12:08*	*1*
Dibromofluoromethane (Surr)	*87*		*78 - 129*		*11/18/20 12:08*	*1*

Client Sample ID: GW-110520-BE-015 — Lab Sample ID: 240-139669-15

Date Collected: 11/05/20 11:11 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	33	U F1	33	8.0	ug/L			11/18/20 12:30	33.33
1,1,2,2-Tetrachloroethane	33	U	33	4.3	ug/L			11/18/20 12:30	33.33
1,1,2-Trichloroethane	33	U *	33	3.0	ug/L			11/18/20 12:30	33.33
1,1-Dichloroethane	33	U	33	5.7	ug/L			11/18/20 12:30	33.33
1,1-Dichloroethene	33	U F1	33	6.3	ug/L			11/18/20 12:30	33.33
1,2-Dichloroethane	33	U	33	7.0	ug/L			11/18/20 12:30	33.33
1,2-Dichloropropane	33	U	33	5.0	ug/L			11/18/20 12:30	33.33
2-Hexanone	330	U	330	18	ug/L			11/18/20 12:30	33.33
Acetone	330	U	330	180	ug/L			11/18/20 12:30	33.33
Benzene	33	U	33	4.3	ug/L			11/18/20 12:30	33.33
Bromoform	33	U	33	25	ug/L			11/18/20 12:30	33.33
Bromomethane	33	U	33	14	ug/L			11/18/20 12:30	33.33
Carbon disulfide	33	U F1	33	9.3	ug/L			11/18/20 12:30	33.33
Carbon tetrachloride	33	U F1	33	8.7	ug/L			11/18/20 12:30	33.33
Chlorobenzene	33	U	33	4.7	ug/L			11/18/20 12:30	33.33
Chloroethane	33	U	33	28	ug/L			11/18/20 12:30	33.33
Chloroform	33	U	33	4.3	ug/L			11/18/20 12:30	33.33
Chloromethane	33	U	33	6.7	ug/L			11/18/20 12:30	33.33
cis-1,2-Dichloroethene	**600**		33	5.3	ug/L			11/18/20 12:30	33.33
cis-1,3-Dichloropropene	33	U	33	20	ug/L			11/18/20 12:30	33.33
Dichlorobromomethane	33	U	33	5.7	ug/L			11/18/20 12:30	33.33
Ethylbenzene	33	U	33	3.7	ug/L			11/18/20 12:30	33.33
2-Butanone (MEK)	330	U	330	39	ug/L			11/18/20 12:30	33.33
4-Methyl-2-pentanone (MIBK)	330	U	330	14	ug/L			11/18/20 12:30	33.33
Methylene Chloride	170	U	170	87	ug/L			11/18/20 12:30	33.33
Styrene	33	U	33	3.3	ug/L			11/18/20 12:30	33.33
Tetrachloroethene	33	U	33	5.0	ug/L			11/18/20 12:30	33.33
Toluene	33	U	33	4.7	ug/L			11/18/20 12:30	33.33
trans-1,2-Dichloroethene	**23**	**J**	33	6.3	ug/L			11/18/20 12:30	33.33
trans-1,3-Dichloropropene	33	U	33	22	ug/L			11/18/20 12:30	33.33
Trichloroethene	**21**	**J**	33	3.3	ug/L			11/18/20 12:30	33.33
Vinyl chloride	33	U F2	33	6.7	ug/L			11/18/20 12:30	33.33
Xylenes, Total	67	U	67	5.0	ug/L			11/18/20 12:30	33.33
Chlorodibromomethane	33	U	33	13	ug/L			11/18/20 12:30	33.33

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*11/18/20 12:30*	*33.33*
4-Bromofluorobenzene (Surr)	*79*		*47 - 134*		*11/18/20 12:30*	*33.33*
Toluene-d8 (Surr)	*99*		*69 - 122*		*11/18/20 12:30*	*33.33*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*11/18/20 12:30*	*33.33*

Client Sample ID: GW-110520-BE-016 — Lab Sample ID: 240-139669-16

Date Collected: 11/05/20 12:33 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**6.2**		1.0	0.24	ug/L			11/18/20 13:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/18/20 13:35	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/18/20 13:35	1

Client Sample ID: GW-110520-BE-016 Lab Sample ID: 240-139669-16

Date Collected: 11/05/20 12:33 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/18/20 13:35	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 13:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/18/20 13:35	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/18/20 13:35	1
2-Hexanone	10	U	10	0.54	ug/L			11/18/20 13:35	1
Acetone	10	U	10	5.4	ug/L			11/18/20 13:35	1
Benzene	1.0	U	1.0	0.13	ug/L			11/18/20 13:35	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/18/20 13:35	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/18/20 13:35	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/18/20 13:35	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/18/20 13:35	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/18/20 13:35	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/18/20 13:35	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/18/20 13:35	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/18/20 13:35	1
cis-1,2-Dichloroethene	**0.38**	**J**	1.0	0.16	ug/L			11/18/20 13:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/18/20 13:35	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/18/20 13:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/18/20 13:35	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/18/20 13:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/18/20 13:35	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/18/20 13:35	1
Styrene	1.0	U	1.0	0.10	ug/L			11/18/20 13:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 13:35	1
Toluene	1.0	U	1.0	0.14	ug/L			11/18/20 13:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 13:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/18/20 13:35	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 13:35	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 13:35	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/18/20 13:35	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 130*		*11/18/20 13:35*	*1*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/18/20 13:35*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*11/18/20 13:35*	*1*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*11/18/20 13:35*	*1*

Client Sample ID: GW-110520-BE-017 Lab Sample ID: 240-139669-17

Date Collected: 11/05/20 14:09 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/18/20 13:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/18/20 13:57	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/18/20 13:57	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/18/20 13:57	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 13:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/18/20 13:57	1

Client Sample ID: GW-110520-BE-017 — Lab Sample ID: 240-139669-17

Date Collected: 11/05/20 14:09 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/18/20 13:57	1
2-Hexanone	10	U	10	0.54	ug/L			11/18/20 13:57	1
Acetone	10	U	10	5.4	ug/L			11/18/20 13:57	1
Benzene	1.0	U	1.0	0.13	ug/L			11/18/20 13:57	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/18/20 13:57	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/18/20 13:57	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/18/20 13:57	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/18/20 13:57	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/18/20 13:57	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/18/20 13:57	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/18/20 13:57	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/18/20 13:57	1
cis-1,2-Dichloroethene	**0.92**	**J**	1.0	0.16	ug/L			11/18/20 13:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/18/20 13:57	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/18/20 13:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/18/20 13:57	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/18/20 13:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/18/20 13:57	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/18/20 13:57	1
Styrene	1.0	U	1.0	0.10	ug/L			11/18/20 13:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 13:57	1
Toluene	1.0	U	1.0	0.14	ug/L			11/18/20 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 13:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/18/20 13:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 13:57	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 13:57	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/18/20 13:57	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*11/18/20 13:57*	*1*
4-Bromofluorobenzene (Surr)	*79*		*47 - 134*		*11/18/20 13:57*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*11/18/20 13:57*	*1*
Dibromofluoromethane (Surr)	*85*		*78 - 129*		*11/18/20 13:57*	*1*

Client Sample ID: EB-110520-BE-001 — Lab Sample ID: 240-139669-18

Date Collected: 11/05/20 14:27 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/18/20 14:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/18/20 14:19	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/18/20 14:19	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/18/20 14:19	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 14:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/18/20 14:19	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/18/20 14:19	1
2-Hexanone	10	U	10	0.54	ug/L			11/18/20 14:19	1
Acetone	10	U	10	5.4	ug/L			11/18/20 14:19	1

Client Sample ID: EB-110520-BE-001 — Lab Sample ID: 240-139669-18

Date Collected: 11/05/20 14:27 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			11/18/20 14:19	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/18/20 14:19	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/18/20 14:19	1
Carbon disulfide	**1.1**		1.0	0.28	ug/L			11/18/20 14:19	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/18/20 14:19	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/18/20 14:19	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/18/20 14:19	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/18/20 14:19	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/18/20 14:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/18/20 14:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/18/20 14:19	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/18/20 14:19	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/18/20 14:19	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/18/20 14:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/18/20 14:19	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/18/20 14:19	1
Styrene	1.0	U	1.0	0.10	ug/L			11/18/20 14:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 14:19	1
Toluene	1.0	U	1.0	0.14	ug/L			11/18/20 14:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 14:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/18/20 14:19	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 14:19	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 14:19	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/18/20 14:19	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 130*		*11/18/20 14:19*	*1*
4-Bromofluorobenzene (Surr)	*79*		*47 - 134*		*11/18/20 14:19*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*11/18/20 14:19*	*1*
Dibromofluoromethane (Surr)	*87*		*78 - 129*		*11/18/20 14:19*	*1*

Client Sample ID: GW-110520-BE-018 — Lab Sample ID: 240-139669-19

Date Collected: 11/05/20 16:05 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	67	U	67	16	ug/L			11/18/20 14:41	66.67
1,1,2,2-Tetrachloroethane	67	U	67	8.7	ug/L			11/18/20 14:41	66.67
1,1,2-Trichloroethane	67	U *	67	6.0	ug/L			11/18/20 14:41	66.67
1,1-Dichloroethane	67	U	67	11	ug/L			11/18/20 14:41	66.67
1,1-Dichloroethene	67	U	67	13	ug/L			11/18/20 14:41	66.67
1,2-Dichloroethane	67	U	67	14	ug/L			11/18/20 14:41	66.67
1,2-Dichloropropane	67	U	67	10	ug/L			11/18/20 14:41	66.67
2-Hexanone	670	U	670	36	ug/L			11/18/20 14:41	66.67
Acetone	670	U	670	360	ug/L			11/18/20 14:41	66.67
Benzene	67	U	67	8.7	ug/L			11/18/20 14:41	66.67
Bromoform	67	U	67	51	ug/L			11/18/20 14:41	66.67
Bromomethane	67	U	67	28	ug/L			11/18/20 14:41	66.67

Client Sample ID: GW-110520-BE-018 — Lab Sample ID: 240-139669-19

Date Collected: 11/05/20 16:05 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	67	U	67	19	ug/L			11/18/20 14:41	66.67
Carbon tetrachloride	67	U	67	17	ug/L			11/18/20 14:41	66.67
Chlorobenzene	67	U	67	9.3	ug/L			11/18/20 14:41	66.67
Chloroethane	67	U	67	55	ug/L			11/18/20 14:41	66.67
Chloroform	67	U	67	8.7	ug/L			11/18/20 14:41	66.67
Chloromethane	67	U	67	13	ug/L			11/18/20 14:41	66.67
cis-1,2-Dichloroethene	**1300**		67	11	ug/L			11/18/20 14:41	66.67
cis-1,3-Dichloropropene	67	U	67	41	ug/L			11/18/20 14:41	66.67
Dichlorobromomethane	67	U	67	11	ug/L			11/18/20 14:41	66.67
Ethylbenzene	67	U	67	7.3	ug/L			11/18/20 14:41	66.67
2-Butanone (MEK)	670	U	670	77	ug/L			11/18/20 14:41	66.67
4-Methyl-2-pentanone (MIBK)	670	U	670	28	ug/L			11/18/20 14:41	66.67
Methylene Chloride	330	U	330	170	ug/L			11/18/20 14:41	66.67
Styrene	67	U	67	6.7	ug/L			11/18/20 14:41	66.67
Tetrachloroethene	67	U	67	10	ug/L			11/18/20 14:41	66.67
Toluene	67	U	67	9.3	ug/L			11/18/20 14:41	66.67
trans-1,2-Dichloroethene	**25**	**J**	67	13	ug/L			11/18/20 14:41	66.67
trans-1,3-Dichloropropene	67	U	67	45	ug/L			11/18/20 14:41	66.67
Trichloroethene	67	U	67	6.7	ug/L			11/18/20 14:41	66.67
Vinyl chloride	**180**		67	13	ug/L			11/18/20 14:41	66.67
Xylenes, Total	130	U	130	10	ug/L			11/18/20 14:41	66.67
Chlorodibromomethane	67	U	67	26	ug/L			11/18/20 14:41	66.67

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*11/18/20 14:41*	*66.67*
4-Bromofluorobenzene (Surr)	*78*		*47 - 134*		*11/18/20 14:41*	*66.67*
Toluene-d8 (Surr)	*98*		*69 - 122*		*11/18/20 14:41*	*66.67*
Dibromofluoromethane (Surr)	*89*		*78 - 129*		*11/18/20 14:41*	*66.67*

Client Sample ID: TB-110520-BE-002 — Lab Sample ID: 240-139669-20

Date Collected: 11/05/20 16:45 — **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/18/20 15:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/18/20 15:03	1
1,1,2-Trichloroethane	1.0	U *	1.0	0.090	ug/L			11/18/20 15:03	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/18/20 15:03	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 15:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/18/20 15:03	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/18/20 15:03	1
2-Hexanone	10	U	10	0.54	ug/L			11/18/20 15:03	1
Acetone	10	U	10	5.4	ug/L			11/18/20 15:03	1
Benzene	1.0	U	1.0	0.13	ug/L			11/18/20 15:03	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/18/20 15:03	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/18/20 15:03	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/18/20 15:03	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/18/20 15:03	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/18/20 15:03	1

Client Sample ID: TB-110520-BE-002 Lab Sample ID: 240-139669-20

Date Collected: 11/05/20 16:45 **Matrix: Water**
Date Received: 11/06/20 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			11/18/20 15:03	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/18/20 15:03	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/18/20 15:03	1
cis-1,2-Dichloroethene	**0.17**	**J**	1.0	0.16	ug/L			11/18/20 15:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/18/20 15:03	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/18/20 15:03	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/18/20 15:03	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/18/20 15:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/18/20 15:03	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/18/20 15:03	1
Styrene	1.0	U	1.0	0.10	ug/L			11/18/20 15:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 15:03	1
Toluene	1.0	U	1.0	0.14	ug/L			11/18/20 15:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 15:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/18/20 15:03	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 15:03	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 15:03	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/18/20 15:03	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*11/18/20 15:03*	*1*
4-Bromofluorobenzene (Surr)	*78*		*47 - 134*		*11/18/20 15:03*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*11/18/20 15:03*	*1*
Dibromofluoromethane (Surr)	*87*		*78 - 129*		*11/18/20 15:03*	*1*

Surrogate Summary

Client: GHD Services Inc.
Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)
240-139669-1	GW-110320-SS-001	105	83	94	82
240-139669-2	GW-110320-BE-002	103	84	94	82
240-139669-3	GW-110320-SS-003	101	83	93	83
240-139669-4	GW-110320-BE-004	106	85	95	85
240-139669-5	GW-110320-SS-005	105	80	93	84
240-139669-6	GW-110320-BE-006	107	83	95	83
240-139669-7	GW-110320-SS-007	106	81	94	84
240-139669-8	GW-110320-BE-008	106	83	95	83
240-139669-9	GW-110320-BE-009	107	85	95	86
240-139669-10	GW-110420-BE-010	106	82	93	85
240-139669-11	GW-110420-BE-011	108	82	95	84
240-139669-12	GW-110420-BE-012	108	82	92	85
240-139669-13	GW-110420-BE-013	107	80	93	85
240-139669-14	GW-110520-BE-014	108	83	100	87
240-139669-15	GW-110520-BE-015	107	79	99	88
240-139669-15 MS	GW-110520-BE-015	95	99	106	83
240-139669-15 MSD	GW-110520-BE-015	98	101	105	83
240-139669-16	GW-110520-BE-016	102	82	99	85
240-139669-17	GW-110520-BE-017	103	79	98	85
240-139669-18	EB-110520-BE-001	108	79	98	87
240-139669-19	GW-110520-BE-018	105	78	98	89
240-139669-20	TB-110520-BE-002	106	78	98	87
LCS 240-461048/4	Lab Control Sample	93	104	103	80
LCS 240-461088/4	Lab Control Sample	93	104	105	80
LCS 240-461535/4	Lab Control Sample	95	100	104	81
MB 240-461048/7	Method Blank	102	82	94	81
MB 240-461088/7	Method Blank	105	82	91	82
MB 240-461535/7	Method Blank	104	80	99	84

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-461048/7
Matrix: Water
Analysis Batch: 461048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 10:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 10:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			11/15/20 10:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 10:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 10:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 10:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 10:05	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 10:05	1
Acetone	10	U	10	5.4	ug/L			11/15/20 10:05	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 10:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 10:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 10:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/15/20 10:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 10:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 10:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 10:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 10:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 10:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 10:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 10:05	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 10:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 10:05	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 10:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 10:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 10:05	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 10:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 10:05	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 10:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 10:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 10:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 10:05	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 10:05	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 10:05	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 130*		*11/15/20 10:05*	*1*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/15/20 10:05*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*11/15/20 10:05*	*1*
Dibromofluoromethane (Surr)	*81*		*78 - 129*		*11/15/20 10:05*	*1*

Lab Sample ID: LCS 240-461048/4
Matrix: Water
Analysis Batch: 461048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			10.0	8.04		ug/L		80	65 - 141		
1,1,2,2-Tetrachloroethane			10.0	14.4		ug/L		144	45 - 151		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-461048/4
Matrix: Water
Analysis Batch: 461048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	12.5	*	ug/L		125	79 - 121
1,1-Dichloroethane	10.0	10.1		ug/L		101	74 - 126
1,1-Dichloroethene	10.0	8.14		ug/L		81	73 - 129
1,2-Dichloroethane	10.0	10.3		ug/L		103	66 - 129
1,2-Dichloropropane	10.0	11.2		ug/L		112	79 - 127
2-Hexanone	20.0	27.0		ug/L		135	43 - 142
Acetone	20.0	20.6		ug/L		103	33 - 155
Benzene	10.0	10.5		ug/L		105	77 - 123
Bromoform	10.0	7.00		ug/L		70	47 - 133
Bromomethane	10.0	6.13		ug/L		61	48 - 144
Carbon disulfide	10.0	6.46	*	ug/L		65	67 - 127
Carbon tetrachloride	10.0	6.90		ug/L		69	61 - 142
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Chloroethane	10.0	6.53		ug/L		65	41 - 147
Chloroform	10.0	9.74		ug/L		97	74 - 127
Chloromethane	10.0	10.9		ug/L		109	46 - 148
cis-1,2-Dichloroethene	10.0	9.37		ug/L		94	75 - 124
cis-1,3-Dichloropropene	10.0	8.83		ug/L		88	68 - 128
Dichlorobromomethane	10.0	9.33		ug/L		93	73 - 122
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	79 - 121
2-Butanone (MEK)	20.0	21.7		ug/L		108	41 - 151
4-Methyl-2-pentanone (MIBK)	20.0	22.0		ug/L		110	43 - 145
Methylene Chloride	10.0	10.6		ug/L		106	63 - 134
o-Xylene	10.0	9.49		ug/L		95	75 - 123
Styrene	10.0	10.2		ug/L		102	75 - 121
Tetrachloroethene	10.0	8.23		ug/L		82	70 - 125
Toluene	10.0	11.2		ug/L		112	79 - 122
trans-1,2-Dichloroethene	10.0	9.11		ug/L		91	74 - 130
trans-1,3-Dichloropropene	10.0	9.41		ug/L		94	64 - 120
Trichloroethene	10.0	7.44		ug/L		74	71 - 121
Vinyl chloride	10.0	9.09		ug/L		91	61 - 134
Xylenes, Total	20.0	20.2		ug/L		101	78 - 122
Chlorodibromomethane	10.0	7.94		ug/L		79	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*
Toluene-d8 (Surr)	*103*		*69 - 122*
Dibromofluoromethane (Surr)	*80*		*78 - 129*

Lab Sample ID: MB 240-461088/7
Matrix: Water
Analysis Batch: 461088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/16/20 11:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/16/20 11:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-461088/7
Matrix: Water
Analysis Batch: 461088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			11/16/20 11:25	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/16/20 11:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 11:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/16/20 11:25	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/16/20 11:25	1
2-Hexanone	10	U	10	0.54	ug/L			11/16/20 11:25	1
Acetone	10	U	10	5.4	ug/L			11/16/20 11:25	1
Benzene	1.0	U	1.0	0.13	ug/L			11/16/20 11:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/16/20 11:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/16/20 11:25	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/16/20 11:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/16/20 11:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/16/20 11:25	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/16/20 11:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/16/20 11:25	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/16/20 11:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/16/20 11:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/16/20 11:25	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/16/20 11:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/16/20 11:25	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/16/20 11:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/16/20 11:25	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/16/20 11:25	1
Styrene	1.0	U	1.0	0.10	ug/L			11/16/20 11:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/16/20 11:25	1
Toluene	1.0	U	1.0	0.14	ug/L			11/16/20 11:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/16/20 11:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/16/20 11:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/16/20 11:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/16/20 11:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/16/20 11:25	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/16/20 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*11/16/20 11:25*	*1*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/16/20 11:25*	*1*
Toluene-d8 (Surr)	*91*		*69 - 122*		*11/16/20 11:25*	*1*
Dibromofluoromethane (Surr)	*82*		*78 - 129*		*11/16/20 11:25*	*1*

Lab Sample ID: LCS 240-461088/4
Matrix: Water
Analysis Batch: 461088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.23		ug/L		92	65 - 141
1,1,2,2-Tetrachloroethane	10.0	16.1	*	ug/L		161	45 - 151
1,1,2-Trichloroethane	10.0	13.7	*	ug/L		137	79 - 121
1,1-Dichloroethane	10.0	11.7		ug/L		117	74 - 126

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-461088/4
Matrix: Water
Analysis Batch: 461088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.38		ug/L		94	73 - 129
1,2-Dichloroethane	10.0	11.3		ug/L		113	66 - 129
1,2-Dichloropropane	10.0	12.3		ug/L		123	79 - 127
2-Hexanone	20.0	28.7	*	ug/L		144	43 - 142
Acetone	20.0	20.2		ug/L		101	33 - 155
Benzene	10.0	11.7		ug/L		117	77 - 123
Bromoform	10.0	7.48		ug/L		75	47 - 133
Bromomethane	10.0	6.35		ug/L		63	48 - 144
Carbon disulfide	10.0	7.23		ug/L		72	67 - 127
Carbon tetrachloride	10.0	8.10		ug/L		81	61 - 142
Chlorobenzene	10.0	11.2		ug/L		112	80 - 120
Chloroethane	10.0	6.50		ug/L		65	41 - 147
Chloroform	10.0	10.9		ug/L		109	74 - 127
Chloromethane	10.0	11.3		ug/L		113	46 - 148
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	75 - 124
cis-1,3-Dichloropropene	10.0	9.50		ug/L		95	68 - 128
Dichlorobromomethane	10.0	10.4		ug/L		104	73 - 122
Ethylbenzene	10.0	11.4		ug/L		114	80 - 120
m-Xylene & p-Xylene	10.0	11.8		ug/L		118	79 - 121
2-Butanone (MEK)	20.0	22.6		ug/L		113	41 - 151
4-Methyl-2-pentanone (MIBK)	20.0	22.6		ug/L		113	43 - 145
Methylene Chloride	10.0	11.5		ug/L		115	63 - 134
o-Xylene	10.0	10.9		ug/L		109	75 - 123
Styrene	10.0	11.2		ug/L		112	75 - 121
Tetrachloroethene	10.0	9.53		ug/L		95	70 - 125
Toluene	10.0	12.9	*	ug/L		129	79 - 122
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	74 - 130
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	64 - 120
Trichloroethene	10.0	8.52		ug/L		85	71 - 121
Vinyl chloride	10.0	9.44		ug/L		94	61 - 134
Xylenes, Total	20.0	22.7		ug/L		114	78 - 122
Chlorodibromomethane	10.0	8.63		ug/L		86	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*
Toluene-d8 (Surr)	*105*		*69 - 122*
Dibromofluoromethane (Surr)	*80*		*78 - 129*

Lab Sample ID: MB 240-461535/7
Matrix: Water
Analysis Batch: 461535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/18/20 11:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/18/20 11:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			11/18/20 11:46	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/18/20 11:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-461535/7
Matrix: Water
Analysis Batch: 461535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 11:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/18/20 11:46	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/18/20 11:46	1
2-Hexanone	10	U	10	0.54	ug/L			11/18/20 11:46	1
Acetone	10	U	10	5.4	ug/L			11/18/20 11:46	1
Benzene	1.0	U	1.0	0.13	ug/L			11/18/20 11:46	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/18/20 11:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/18/20 11:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/18/20 11:46	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/18/20 11:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/18/20 11:46	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/18/20 11:46	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/18/20 11:46	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/18/20 11:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/18/20 11:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/18/20 11:46	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/18/20 11:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/18/20 11:46	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/18/20 11:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/18/20 11:46	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/18/20 11:46	1
Styrene	1.0	U	1.0	0.10	ug/L			11/18/20 11:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 11:46	1
Toluene	1.0	U	1.0	0.14	ug/L			11/18/20 11:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 11:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/18/20 11:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 11:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 11:46	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/18/20 11:46	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*11/18/20 11:46*	*1*
4-Bromofluorobenzene (Surr)	*80*		*47 - 134*		*11/18/20 11:46*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*11/18/20 11:46*	*1*
Dibromofluoromethane (Surr)	*84*		*78 - 129*		*11/18/20 11:46*	*1*

Lab Sample ID: LCS 240-461535/4
Matrix: Water
Analysis Batch: 461535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	7.94		ug/L		79	65 - 141
1,1,2,2-Tetrachloroethane	10.0	14.6		ug/L		146	45 - 151
1,1,2-Trichloroethane	10.0	12.4	*	ug/L		124	79 - 121
1,1-Dichloroethane	10.0	11.3		ug/L		113	74 - 126
1,1-Dichloroethene	10.0	8.09		ug/L		81	73 - 129
1,2-Dichloroethane	10.0	10.3		ug/L		103	66 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-461535/4
Matrix: Water
Analysis Batch: 461535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	10.7		ug/L		107	79 - 127
2-Hexanone	20.0	22.6		ug/L		113	43 - 142
Acetone	20.0	21.9		ug/L		109	33 - 155
Benzene	10.0	10.6		ug/L		106	77 - 123
Bromoform	10.0	6.69		ug/L		67	47 - 133
Bromomethane	10.0	8.04		ug/L		80	48 - 144
Carbon disulfide	10.0	7.48		ug/L		75	67 - 127
Carbon tetrachloride	10.0	6.57		ug/L		66	61 - 142
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	9.79		ug/L		98	41 - 147
Chloroform	10.0	10.7		ug/L		107	74 - 127
Chloromethane	10.0	10.5		ug/L		105	46 - 148
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	75 - 124
cis-1,3-Dichloropropene	10.0	8.38		ug/L		84	68 - 128
Dichlorobromomethane	10.0	8.98		ug/L		90	73 - 122
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
m-Xylene & p-Xylene	10.0	11.3		ug/L		113	79 - 121
2-Butanone (MEK)	20.0	19.6		ug/L		98	41 - 151
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/L		99	43 - 145
Methylene Chloride	10.0	11.5		ug/L		115	63 - 134
o-Xylene	10.0	10.7		ug/L		107	75 - 123
Styrene	10.0	10.5		ug/L		105	75 - 121
Tetrachloroethene	10.0	8.90		ug/L		89	70 - 125
Toluene	10.0	12.0		ug/L		120	79 - 122
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 130
trans-1,3-Dichloropropene	10.0	9.64		ug/L		96	64 - 120
Trichloroethene	10.0	7.79		ug/L		78	71 - 121
Vinyl chloride	10.0	8.91		ug/L		89	61 - 134
Xylenes, Total	20.0	22.0		ug/L		110	78 - 122
Chlorodibromomethane	10.0	7.77		ug/L		78	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*
Toluene-d8 (Surr)	*104*		*69 - 122*
Dibromofluoromethane (Surr)	*81*		*78 - 129*

Lab Sample ID: 240-139669-15 MS
Matrix: Water
Analysis Batch: 461535

Client Sample ID: GW-110520-BE-015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	33	U F1	333	204	F1	ug/L		61	62 - 135
1,1,2,2-Tetrachloroethane	33	U	333	441		ug/L		132	37 - 149
1,1,2-Trichloroethane	33	U *	333	389		ug/L		117	73 - 122
1,1-Dichloroethane	33	U	333	321		ug/L		96	71 - 121
1,1-Dichloroethene	33	U F1	333	212	F1	ug/L		63	64 - 132
1,2-Dichloroethane	33	U	333	324		ug/L		97	65 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-139669-15 MS
Client Sample ID: GW-110520-BE-015
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 461535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	33	U	333	321		ug/L		96	73 - 125
2-Hexanone	330	U	667	681		ug/L		102	44 - 142
Acetone	330	U	667	502		ug/L		75	32 - 157
Benzene	33	U	333	298		ug/L		89	70 - 121
Bromoform	33	U	333	213		ug/L		64	41 - 128
Bromomethane	33	U	333	220		ug/L		66	41 - 136
Carbon disulfide	33	U F1	333	167	F1	ug/L		50	54 - 131
Carbon tetrachloride	33	U F1	333	162	F1	ug/L		49	53 - 142
Chlorobenzene	33	U	333	307		ug/L		92	73 - 120
Chloroethane	33	U	333	247		ug/L		74	37 - 142
Chloroform	33	U	333	310		ug/L		93	66 - 126
Chloromethane	33	U	333	281		ug/L		84	33 - 146
cis-1,2-Dichloroethene	600		333	879		ug/L		84	68 - 121
cis-1,3-Dichloropropene	33	U	333	244		ug/L		73	56 - 121
Dichlorobromomethane	33	U	333	276		ug/L		83	69 - 120
Ethylbenzene	33	U	333	279		ug/L		84	66 - 122
m-Xylene & p-Xylene	67	U	333	296		ug/L		89	65 - 123
2-Butanone (MEK)	330	U	667	602		ug/L		90	40 - 147
4-Methyl-2-pentanone (MIBK)	330	U	667	544		ug/L		82	40 - 147
Methylene Chloride	170	U	333	352		ug/L		106	59 - 127
o-Xylene	33	U	333	290		ug/L		87	63 - 124
Styrene	33	U	333	302		ug/L		91	57 - 126
Tetrachloroethene	33	U	333	227		ug/L		68	52 - 129
Toluene	33	U	333	334		ug/L		100	68 - 124
trans-1,2-Dichloroethene	23	J	333	287		ug/L		79	69 - 126
trans-1,3-Dichloropropene	33	U	333	289		ug/L		87	53 - 120
Trichloroethene	21	J	333	225		ug/L		61	56 - 124
Vinyl chloride	33	U F2	333	204		ug/L		61	49 - 136
Xylenes, Total	67	U	667	586		ug/L		88	64 - 124
Chlorodibromomethane	33	U	333	248		ug/L		74	66 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*
Toluene-d8 (Surr)	*106*		*69 - 122*
Dibromofluoromethane (Surr)	*83*		*78 - 129*

Lab Sample ID: 240-139669-15 MSD
Client Sample ID: GW-110520-BE-015
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 461535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	33	U F1	333	225		ug/L		67	62 - 135	9	35
1,1,2,2-Tetrachloroethane	33	U	333	439		ug/L		132	37 - 149	0	35
1,1,2-Trichloroethane	33	U *	333	383		ug/L		115	73 - 122	2	35
1,1-Dichloroethane	33	U	333	332		ug/L		100	71 - 121	3	35
1,1-Dichloroethene	33	U F1	333	247		ug/L		74	64 - 132	15	35
1,2-Dichloroethane	33	U	333	330		ug/L		99	65 - 127	2	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-139669-15 MSD
Client Sample ID: GW-110520-BE-015
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 461535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	33	U	333	338		ug/L		101	73 - 125	5	35
2-Hexanone	330	U	667	722		ug/L		108	44 - 142	6	35
Acetone	330	U	667	586		ug/L		88	32 - 157	16	35
Benzene	33	U	333	315		ug/L		95	70 - 121	6	35
Bromoform	33	U	333	212		ug/L		64	41 - 128	1	35
Bromomethane	33	U	333	274		ug/L		82	41 - 136	22	35
Carbon disulfide	33	U F1	333	200		ug/L		60	54 - 131	18	35
Carbon tetrachloride	33	U F1	333	182		ug/L		54	53 - 142	11	35
Chlorobenzene	33	U	333	321		ug/L		96	73 - 120	4	35
Chloroethane	33	U	333	314		ug/L		94	37 - 142	24	35
Chloroform	33	U	333	318		ug/L		95	66 - 126	3	35
Chloromethane	33	U	333	345		ug/L		103	33 - 146	20	35
cis-1,2-Dichloroethene	600		333	878		ug/L		83	68 - 121	0	35
cis-1,3-Dichloropropene	33	U	333	258		ug/L		77	56 - 121	5	35
Dichlorobromomethane	33	U	333	285		ug/L		86	69 - 120	3	35
Ethylbenzene	33	U	333	291		ug/L		87	66 - 122	4	35
m-Xylene & p-Xylene	67	U	333	318		ug/L		95	65 - 123	7	35
2-Butanone (MEK)	330	U	667	623		ug/L		94	40 - 147	4	35
4-Methyl-2-pentanone (MIBK)	330	U	667	580		ug/L		87	40 - 147	6	35
Methylene Chloride	170	U	333	352		ug/L		106	59 - 127	0	32
o-Xylene	33	U	333	310		ug/L		93	63 - 124	7	35
Styrene	33	U	333	316		ug/L		95	57 - 126	5	35
Tetrachloroethene	33	U	333	247		ug/L		74	52 - 129	8	35
Toluene	33	U	333	350		ug/L		105	68 - 124	5	35
trans-1,2-Dichloroethene	23	J	333	304		ug/L		84	69 - 126	6	35
trans-1,3-Dichloropropene	33	U	333	299		ug/L		90	53 - 120	3	35
Trichloroethene	21	J	333	237		ug/L		65	56 - 124	5	35
Vinyl chloride	33	U F2	333	293	F2	ug/L		88	49 - 136	36	35
Xylenes, Total	67	U	667	628		ug/L		94	64 - 124	7	35
Chlorodibromomethane	33	U	333	243		ug/L		73	66 - 120	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 130*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*
Toluene-d8 (Surr)	*105*		*69 - 122*
Dibromofluoromethane (Surr)	*83*		*78 - 129*

QC Association Summary

Client: GHD Services Inc.
Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

GC/MS VOA

Analysis Batch: 461048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139669-1	GW-110320-SS-001	Total/NA	Water	8260B	
240-139669-2	GW-110320-BE-002	Total/NA	Water	8260B	
240-139669-3	GW-110320-SS-003	Total/NA	Water	8260B	
240-139669-5	GW-110320-SS-005	Total/NA	Water	8260B	
240-139669-6	GW-110320-BE-006	Total/NA	Water	8260B	
240-139669-7	GW-110320-SS-007	Total/NA	Water	8260B	
240-139669-8	GW-110320-BE-008	Total/NA	Water	8260B	
MB 240-461048/7	Method Blank	Total/NA	Water	8260B	
LCS 240-461048/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 461088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139669-4	GW-110320-BE-004	Total/NA	Water	8260B	
240-139669-9	GW-110320-BE-009	Total/NA	Water	8260B	
240-139669-10	GW-110420-BE-010	Total/NA	Water	8260B	
240-139669-11	GW-110420-BE-011	Total/NA	Water	8260B	
240-139669-12	GW-110420-BE-012	Total/NA	Water	8260B	
240-139669-13	GW-110420-BE-013	Total/NA	Water	8260B	
MB 240-461088/7	Method Blank	Total/NA	Water	8260B	
LCS 240-461088/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 461535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139669-14	GW-110520-BE-014	Total/NA	Water	8260B	
240-139669-15	GW-110520-BE-015	Total/NA	Water	8260B	
240-139669-16	GW-110520-BE-016	Total/NA	Water	8260B	
240-139669-17	GW-110520-BE-017	Total/NA	Water	8260B	
240-139669-18	EB-110520-BE-001	Total/NA	Water	8260B	
240-139669-19	GW-110520-BE-018	Total/NA	Water	8260B	
240-139669-20	TB-110520-BE-002	Total/NA	Water	8260B	
MB 240-461535/7	Method Blank	Total/NA	Water	8260B	
LCS 240-461535/4	Lab Control Sample	Total/NA	Water	8260B	
240-139669-15 MS	GW-110520-BE-015	Total/NA	Water	8260B	
240-139669-15 MSD	GW-110520-BE-015	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: GW-110320-SS-001 — Lab Sample ID: 240-139669-1

Date Collected: 11/03/20 11:18 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461048	11/15/20 14:05	LEE	TAL CAN

Client Sample ID: GW-110320-BE-002 — Lab Sample ID: 240-139669-2

Date Collected: 11/03/20 11:25 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461048	11/15/20 14:27	LEE	TAL CAN

Client Sample ID: GW-110320-SS-003 — Lab Sample ID: 240-139669-3

Date Collected: 11/03/20 12:28 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461048	11/15/20 14:49	LEE	TAL CAN

Client Sample ID: GW-110320-BE-004 — Lab Sample ID: 240-139669-4

Date Collected: 11/03/20 12:59 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	461088	11/16/20 16:46	LEE	TAL CAN

Client Sample ID: GW-110320-SS-005 — Lab Sample ID: 240-139669-5

Date Collected: 11/03/20 13:58 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461048	11/15/20 15:32	LEE	TAL CAN

Client Sample ID: GW-110320-BE-006 — Lab Sample ID: 240-139669-6

Date Collected: 11/03/20 14:12 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		142.86	461048	11/15/20 15:54	LEE	TAL CAN

Client Sample ID: GW-110320-SS-007 — Lab Sample ID: 240-139669-7

Date Collected: 11/03/20 15:23 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	461048	11/15/20 16:16	LEE	TAL CAN

Lab Chronicle

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: GW-110320-BE-008 — Lab Sample ID: 240-139669-8

Date Collected: 11/03/20 14:20 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		142.86	461048	11/15/20 16:38	LEE	TAL CAN

Client Sample ID: GW-110320-BE-009 — Lab Sample ID: 240-139669-9

Date Collected: 11/03/20 16:04 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	461088	11/16/20 17:13	LEE	TAL CAN

Client Sample ID: GW-110420-BE-010 — Lab Sample ID: 240-139669-10

Date Collected: 11/04/20 10:29 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	461088	11/16/20 17:40	LEE	TAL CAN

Client Sample ID: GW-110420-BE-011 — Lab Sample ID: 240-139669-11

Date Collected: 11/04/20 11:33 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461088	11/16/20 18:06	LEE	TAL CAN

Client Sample ID: GW-110420-BE-012 — Lab Sample ID: 240-139669-12

Date Collected: 11/04/20 13:38 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461088	11/16/20 18:33	LEE	TAL CAN

Client Sample ID: GW-110420-BE-013 — Lab Sample ID: 240-139669-13

Date Collected: 11/04/20 15:21 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461088	11/16/20 19:00	LEE	TAL CAN

Client Sample ID: GW-110520-BE-014 — Lab Sample ID: 240-139669-14

Date Collected: 11/05/20 10:00 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461535	11/18/20 12:08	LEE	TAL CAN

Lab Chronicle

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: GW-110520-BE-015 — Lab Sample ID: 240-139669-15

Date Collected: 11/05/20 11:11 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.33	461535	11/18/20 12:30	LEE	TAL CAN

Client Sample ID: GW-110520-BE-016 — Lab Sample ID: 240-139669-16

Date Collected: 11/05/20 12:33 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461535	11/18/20 13:35	LEE	TAL CAN

Client Sample ID: GW-110520-BE-017 — Lab Sample ID: 240-139669-17

Date Collected: 11/05/20 14:09 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461535	11/18/20 13:57	LEE	TAL CAN

Client Sample ID: EB-110520-BE-001 — Lab Sample ID: 240-139669-18

Date Collected: 11/05/20 14:27 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461535	11/18/20 14:19	LEE	TAL CAN

Client Sample ID: GW-110520-BE-018 — Lab Sample ID: 240-139669-19

Date Collected: 11/05/20 16:05 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		66.67	461535	11/18/20 14:41	LEE	TAL CAN

Client Sample ID: TB-110520-BE-002 — Lab Sample ID: 240-139669-20

Date Collected: 11/05/20 16:45 **Matrix: Water**
Date Received: 11/06/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461535	11/18/20 15:03	LEE	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Method Summary

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc. Job ID: 240-139669-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-139669-1	GW-110320-SS-001	Water	11/03/20 11:18	11/06/20 09:30	
240-139669-2	GW-110320-BE-002	Water	11/03/20 11:25	11/06/20 09:30	
240-139669-3	GW-110320-SS-003	Water	11/03/20 12:28	11/06/20 09:30	
240-139669-4	GW-110320-BE-004	Water	11/03/20 12:59	11/06/20 09:30	
240-139669-5	GW-110320-SS-005	Water	11/03/20 13:58	11/06/20 09:30	
240-139669-6	GW-110320-BE-006	Water	11/03/20 14:12	11/06/20 09:30	
240-139669-7	GW-110320-SS-007	Water	11/03/20 15:23	11/06/20 09:30	
240-139669-8	GW-110320-BE-008	Water	11/03/20 14:20	11/06/20 09:30	
240-139669-9	GW-110320-BE-009	Water	11/03/20 16:04	11/06/20 09:30	
240-139669-10	GW-110420-BE-010	Water	11/04/20 10:29	11/06/20 09:30	
240-139669-11	GW-110420-BE-011	Water	11/04/20 11:33	11/06/20 09:30	
240-139669-12	GW-110420-BE-012	Water	11/04/20 13:38	11/06/20 09:30	
240-139669-13	GW-110420-BE-013	Water	11/04/20 15:21	11/06/20 09:30	
240-139669-14	GW-110520-BE-014	Water	11/05/20 10:00	11/06/20 09:30	
240-139669-15	GW-110520-BE-015	Water	11/05/20 11:11	11/06/20 09:30	
240-139669-16	GW-110520-BE-016	Water	11/05/20 12:33	11/06/20 09:30	
240-139669-17	GW-110520-BE-017	Water	11/05/20 14:09	11/06/20 09:30	
240-139669-18	EB-110520-BE-001	Water	11/05/20 14:27	11/06/20 09:30	
240-139669-19	GW-110520-BE-018	Water	11/05/20 16:05	11/06/20 09:30	
240-139669-20	TB-110520-BE-002	Water	11/05/20 16:45	11/06/20 09:30	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VM50IS_00084	11/21/20	05/21/20	MEOH, Lot 177891	50 mL	VM568718_00017	10 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VM568718_00017	01/31/24		restek, Lot A0145169		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
VM50IS_00085	02/28/21	08/28/20	MEOH, Lot 177891	50 mL	VM568718_00018	10 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VM568718_00018	01/31/24		restek, Lot A0145169		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00086	03/28/21	09/28/20	MEOH, Lot 0000230446	200 mL	VM567650_00033	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00033	11/30/23		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00352	07/16/20	07/09/20	MEOH, Lot na	5 mL	VMACROLSTD_00085	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00085	08/01/20	07/01/20	MEOH, Lot 0000230446	20 mL	VM568720_00037	0.25 mL	Acrolein	250 ug/mL
..VM568720_00037	04/30/21		restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00025							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00003	1.25 mL	BFB	50 ug/mL
.vm30026_00003	08/31/23		restek, Lot A0141187		(Purchased Reagent)		BFB	2000 ug/mL
VMFASGW_00366	07/15/20	07/01/20	MEOH, Lot NA	5 mL	VMFASG_00096	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00096	08/01/20	07/01/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00384	11/21/20	11/14/20	MEOH, Lot NA	5 mL	VMFASG_00100	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00100	12/06/20	11/06/20	MEOH, Lot 0000258810	100 mL	vm569722S_00008	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00008	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASPW_00358	07/20/20	07/13/20	MEOH, Lot n/a	5 mL	VMRFASP_00067	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00067	09/18/20	06/18/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992S_00006	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00373	11/15/20	11/08/20	MEOH, Lot n/a	5 mL	VMRFASP_00071	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00071	12/31/20	11/05/20	MEOH, Lot 0000258810	100 mL	VM569721S_00005	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992S_00005	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992S_00005	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00374	11/23/20	11/16/20	MEOH, Lot n/a	5 mL	VMRFASP_00071	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00071	12/31/20	11/05/20	MEOH, Lot 0000258810	100 mL	VM569721S_00005	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992S_00005	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992S_00005	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMRA9W_00352	07/19/20	07/12/20	MEOH, Lot NA	5 mL	VMRA9_00031	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.VMRA9_00031	07/31/20	05/30/20	MEOH, Lot 0000230446	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00004	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00004	2 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					VM570808_00005	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00003	1 mL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
..VM569727_00004	01/31/22		RESTEK, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00004	04/30/22		Restek, Lot A0126447		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00004	02/28/22		Restek, Lot A0125050		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..VM570808_00005	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00003	07/31/20		restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
VMRGAS_00346	07/15/20	07/08/20	MEOH, Lot 0000230446	10 mL	vm569722_00015	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00015	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00362	11/20/20	11/13/20	MEOH, Lot 0000258810	10 mL	vm569722_00017	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00017	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00393	07/15/20	07/08/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00393	07/15/20	07/08/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	Xylenes, Total	100 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM571992_00003	1 mL	Xylenes, Total	100 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VMRPRIMW_00411	11/22/20	11/15/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992_00003	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL

Reagent

vm30026_00003

Rec: 11/28/18
VM30026-00063

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0141187

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,004.7 µg/mL	+/- 11.7645	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 112.4110	µg/mL	Unstressed
	Purity 99%		+/- 115.0408	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00033

VM567650_00033 Rec: 4/9/19

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Catalog No. : 567650 **Lot No.:** A0143613

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane	2,506.4 µg/mL	+/- 14.5724	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012017)		+/- 140.5314	µg/mL	Unstressed
	Purity 99%		+/- 143.8196	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,503.8 µg/mL	+/- 14.5570	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 140.3828	µg/mL	Unstressed
	Purity 99%		+/- 143.6676	µg/mL	Stressed
3	Toluene-d8	2,512.2 µg/mL	+/- 14.6059	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-27311)		+/- 140.8538	µg/mL	Unstressed
	Purity 99%		+/- 144.1496	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,501.8 µg/mL	+/- 14.5457	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.2734	µg/mL	Unstressed
	Purity 99%		+/- 143.5557	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568718_00017

VM568718-00017 Rec: 7/12/19

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0145169

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 (Lot CD-107) **Purity** 98%	5,044.0 µg/mL	+/- 29.3246 +/- 107.9918 +/- 111.1314	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 (Lot M-276) **Purity** 99%	1,254.2 µg/mL	+/- 7.2922 +/- 26.8533 +/- 27.6340	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 (Lot BCBK8171V) **Purity** 99%	252.1 µg/mL	+/- 1.4689 +/- 5.3977 +/- 5.5545	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 (Lot I-19942) **Purity** 99%	5,027.8 µg/mL	+/- 29.2304 +/- 107.6448 +/- 110.7743	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	250.6 µg/mL	+/- 1.4603 +/- 5.3661 +/- 5.5220	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	251.6 µg/mL	+/- 1.4660 +/- 5.3871 +/- 5.5436	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Reagent

VM568718_00018

Rec: 12/4/19
VM568718_00018

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0145169

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 (Lot CD-107) **Purity** 98%	5,044.0 µg/mL	+/- 29.3246 µg/mL +/- 107.9918 µg/mL +/- 111.1314 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 (Lot M-276) **Purity** 99%	1,254.2 µg/mL	+/- 7.2922 µg/mL +/- 26.8533 µg/mL +/- 27.6340 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 (Lot BCBK8171V) **Purity** 99%	252.1 µg/mL	+/- 1.4689 µg/mL +/- 5.3977 µg/mL +/- 5.5545 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 (Lot I-19942) **Purity** 99%	5,027.8 µg/mL	+/- 29.2304 µg/mL +/- 107.6448 µg/mL +/- 110.7743 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	250.6 µg/mL	+/- 1.4603 µg/mL +/- 5.3661 µg/mL +/- 5.5220 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	251.6 µg/mL	+/- 1.4660 µg/mL +/- 5.3871 µg/mL +/- 5.5436 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM568720_00037

Rec: 1/16/20 VM568720_000376

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0154578

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,810.7 µg/mL	+/- 115.9958	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot D0012019410)		+/- 395.7642	µg/mL	Unstressed
	Purity 99%		+/- 887.8866	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00006

RCL: 12/4/18

VM569721_00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0137509

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBH6933) **Purity** 99%	12,619.0 µg/mL	+/- 73.8870 µg/mL +/- 761.4104 µg/mL +/- 763.2179 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBF2461V) **Purity** 99%	12,602.0 µg/mL	+/- 73.7875 µg/mL +/- 760.3846 µg/mL +/- 762.1897 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBH7006) **Purity** 99%	12,531.0 µg/mL	+/- 73.3718 µg/mL +/- 756.1006 µg/mL +/- 757.8955 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBW0198V) **Purity** 99%	12,606.0 µg/mL	+/- 73.8109 µg/mL +/- 760.6260 µg/mL +/- 762.4316 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00005

Rec: 6/15/18 20 vials

VM569721S-00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0133078

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	12,504.8 µg/mL	+/- 73.2184	µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot P14A572)		+/- 754.5197	µg/mL	Unstressed
	Purity 99%		+/- 756.3109	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.0 µg/mL	+/- 73.2137	µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RA58J)		+/- 754.4715	µg/mL	Unstressed
	Purity 99%		+/- 756.2625	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,500.8 µg/mL	+/- 73.1949	µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.2784	µg/mL	Unstressed
	Purity 99%		+/- 756.0689	µg/mL	Stressed
4	2-Hexanone	12,503.6 µg/mL	+/- 73.2113	µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- 754.4473	µg/mL	Unstressed
	Purity 99%		+/- 756.2383	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

vm569722_00015

Rec: 4/14/20
VM569722_0005

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0154679

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.7 µg/mL	+/- 18.2705 +/- 140.7566 +/- 144.0300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.3 µg/mL	+/- 18.7547 +/- 140.6865 +/- 143.9553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,501.1 µg/mL	+/- 18.5858 +/- 140.7083 +/- 143.9787	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,497.1 µg/mL	+/- 17.5808 +/- 140.3628 +/- 143.6309	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.8 µg/mL	+/- 23.3138 +/- 141.3956 +/- 144.6498	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,499.0 µg/mL	+/- 21.4252 +/- 140.9973 +/- 144.2558	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 140.1725 +/- 143.4524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,499.6	µg/mL	+/-	21.2368	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot 25931)			+/-	141.0019	µg/mL	Unstressed
	Purity 99%				+/-	144.2618	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

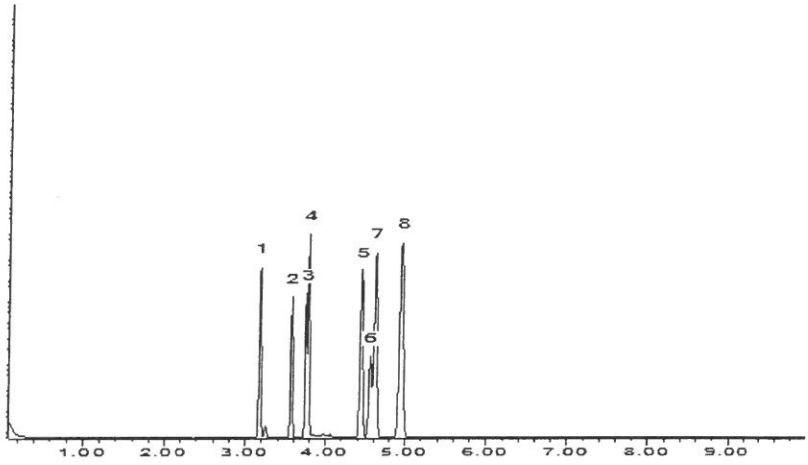
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 04-Nov-2019 **Balance:** B707717271

Feng-Yun Lo - QC Analyst

Date Passed: 10-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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VM569722-00017

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Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 +/- 140.5076 +/- 143.7858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 +/- 140.4038 +/- 143.6799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 +/- 140.4890 +/- 143.7623	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 +/- 140.5681 +/- 143.8406	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 +/- 140.4450 +/- 143.7217	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 +/- 140.5555 +/- 143.8274	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 140.1725 +/- 143.4524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

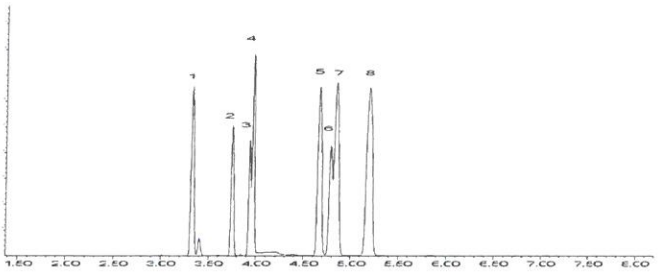
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

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Certificate #FM 80397

Reagent

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Re: 1-23-19

VM569722S-00007

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Catalog No. : 569722.SEC **Lot No.:** A0142117

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,503.0 µg/mL	+/- 23.3708 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 24847)		+/- 141.5277 µg/mL	Unstressed
	Purity 99%		+/- 144.7846 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,497.4 µg/mL	+/- 25.3963 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 141.5662 µg/mL	Unstressed
	Purity 99%		+/- 144.8078 µg/mL	Stressed
3	Vinyl chloride	2,501.8 µg/mL	+/- 19.5755 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 140.8855 µg/mL	Unstressed
	Purity 99%		+/- 144.1539 µg/mL	Stressed
4	1,3-Butadiene	2,505.3 µg/mL	+/- 20.9927 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 22331)		+/- 141.2797 µg/mL	Unstressed
	Purity 99%		+/- 144.5480 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,498.6 µg/mL	+/- 25.6449 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 141.6796 µg/mL	Unstressed
	Purity 99%		+/- 144.9218 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,498.9 µg/mL	+/- 24.9623 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 141.5741 µg/mL	Unstressed
	Purity 99%		+/- 144.8194 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.6714 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7766400)		+/- 140.1867 µg/mL	Unstressed
	Purity 99%		+/- 143.4662 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.7	µg/mL	+/-	23.1926	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	141.4285	µg/mL	Unstressed
	Purity 99%				+/-	144.6844	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

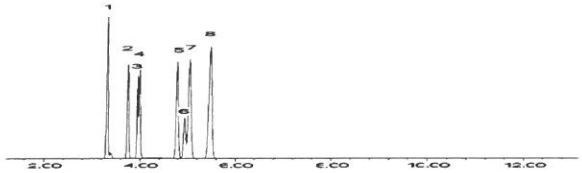
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 04-Oct-2018 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Oct-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

vm569722S_00008

Rec: 7/17/20
VM569722S-00008

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,496.5	µg/mL	+/-	17.7311	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	140.3462	µg/mL	Unstressed
	Purity 99%				+/-	143.6131	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

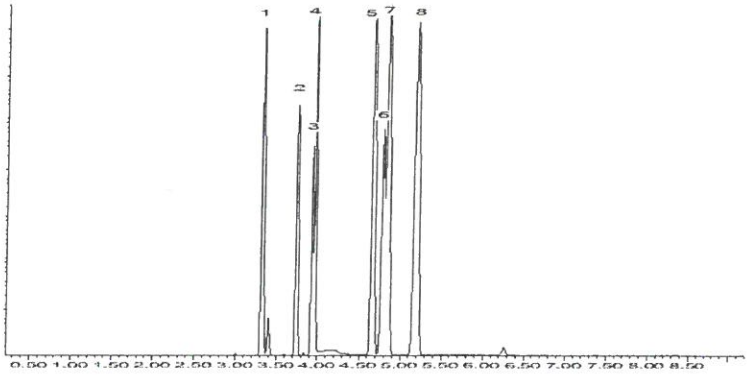
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM569723_00008

Rec: 9/9/19
VM569723-00008

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0146250

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.5253	µg/mL	Unstressed
	Purity 99%		+/- 55.0814	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569724_00024

Rcd 4-20-20 VM569724_00024

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0156559

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate		5,040.0 µg/mL	+/- 29.5103	µg/mL	Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/- 304.1056	µg/mL	Unstressed
	Purity 99%			+/- 304.8275	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
08 April 2020
Expiration date extended from July 31, 2020 to July 31, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569727_00004

Rec: 9/9/19
VM569727_00004
(10)

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727 **Lot No.:** A0145193

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,008.5 µg/mL	+/- 146.4305 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKCD4357)		+/- 1,508.9751 µg/mL	Unstressed
	Purity 99%		+/- 1,512.5572 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

---

vm570806_00004

VM570806_00004 Rec: 6/15/19 10 Vials

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570806 **Lot No.:** A0126447

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,519.0 µg/mL	+/- 14.7829	µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 160830B-BL2)		+/- 141.2521	µg/mL	Unstressed
	Purity 99%		+/- 144.5566	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807_00004

Rec: 6/15/18 10 Vials

VM570807_00004

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570807 **Lot No.:** A0125050

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBF0201V) **Purity** 95%	2,511.8 µg/mL	+/- 14.7406 µg/mL +/- 140.8484 µg/mL +/- 144.1434 µg/mL		Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0 (Lot 523400-9) **Purity** 98%	2,514.2 µg/mL	+/- 14.7547 µg/mL +/- 140.9824 µg/mL +/- 144.2806 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570808_00005

Rec: 4-9-19
VMS70808_00005

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Catalog No. : 570808 **Lot No.:** A0145375

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBH7211) **Purity** 99%	25,151.3 µg/mL	+/- 147.2666 µg/mL +/- 1,244.3044 µg/mL +/- 1,275.2391 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 180921JLM) **Purity** 99%	2,508.0 µg/mL	+/- 14.7183 µg/mL +/- 124.0815 µg/mL +/- 127.1661 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,161.0 µg/mL	+/- 147.3232 µg/mL +/- 1,244.7826 µg/mL +/- 1,275.7292 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBF8066V) **Purity** 99%	2,510.3 µg/mL	+/- 14.7320 µg/mL +/- 124.1969 µg/mL +/- 127.2844 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBK1866) **Purity** 99%	62,638.0 µg/mL	+/- 366.7403 µg/mL +/- 3,098.8687 µg/mL +/- 3,175.9100 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,032.0 µg/mL	+/- 29.4633 µg/mL +/- 248.9453 µg/mL +/- 255.1343 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,510.4 µg/mL	+/- 14.7326 µg/mL +/- 124.2019 µg/mL +/- 127.2895 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,514.7	µg/mL	+/-	14.7576	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-12)			+/-	124.4120	µg/mL	Unstressed
	Purity 98%				+/-	127.5048	µg/mL	Stressed
9	Benzyl chloride		2,516.7	µg/mL	+/-	14.7692	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/-	124.5103	µg/mL	Unstressed
	Purity 99%				+/-	127.6055	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,513.3	µg/mL	+/-	14.7496	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	124.3454	µg/mL	Unstressed
	Purity 99%				+/-	127.4365	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

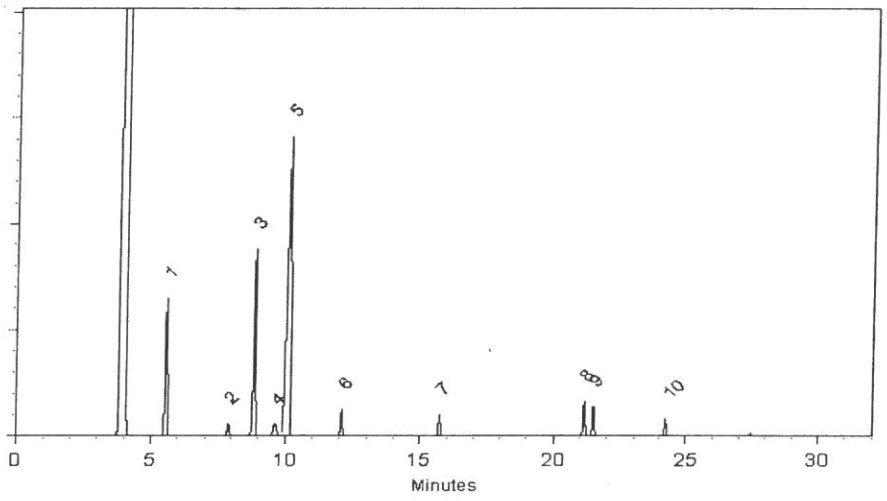
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham - Mix Technician

Date Mixed: 27-Jan-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 29-Jan-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM570809_00007

Rec: 4/20/20
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Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBL1336) **Purity** 99%	5,015.6 µg/mL	+/- 29.3674 µg/mL +/- 302.6333 µg/mL +/- 303.3517 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,508.8 µg/mL	+/- 14.7230 µg/mL +/- 151.3803 µg/mL +/- 151.7396 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKCG6589) **Purity** 99%	5,015.2 µg/mL	+/- 29.3651 µg/mL +/- 302.6092 µg/mL +/- 303.3275 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBK5137) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 151.5733 µg/mL +/- 151.9331 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00003

Rec: 5/31/19
VM571992_00003

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- +/- +/-	14.5493 150.9827 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- +/- +/-	7.2763 75.5085 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- +/- +/-	7.2683 75.4256 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- +/- +/-	14.5355 150.8389 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

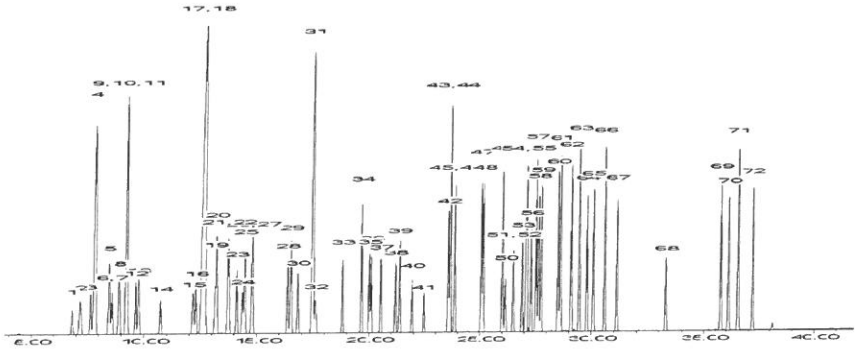
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00005

Rec: 5/31/19
VM571992S-00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

A2LA ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%		2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC (Lot MKBL1376V) **Purity** 99%		2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC (Lot UERIL) **Purity** 99%		25,001.2 µg/mL	+/- 145.3513 +/- 1,508.4304 +/- 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC (Lot ZHKYA) **Purity** 99%		2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot HGC01-BLKT) **Purity** 98%		2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC (Lot K24W001) **Purity** 97%		2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 5379000) **Purity** 99%		2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%		2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 97%		2,501.0 µg/mL	+/- 14.5409 +/- 150.8954 +/- 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC (Lot PH2XK) **Purity** 99%		62,508.3 µg/mL	+/- 363.4098 +/- 3,771.4029 +/- 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%		2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC (Lot 5670200) **Purity** 99%		2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC (Lot 8DAOJ) **Purity** 99%		5,006.7 µg/mL	+/- 29.1092 +/- 302.0744 +/- 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC (Lot 7998000) **Purity** 99%		2,507.7 µg/mL	+/- 14.5798 +/- 151.2986 +/- 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC (Lot YADRA) **Purity** 99%		2,508.0 µg/mL	+/- 14.5817 +/- 151.3188 +/- 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC (Lot 5221100) **Purity** 96%		2,502.4 µg/mL	+/- 14.5492 +/- 150.9809 +/- 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride		2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	151.4595	µg/mL	Unstressed
	Purity 99%				+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	151.5500	µg/mL	Unstressed
	Purity 99%				+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9165	µg/mL	Unstressed
	Purity 99%				+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	151.1076	µg/mL	Unstressed
	Purity 99%				+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	151.0774	µg/mL	Unstressed
	Purity 99%				+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)			+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	151.4093	µg/mL	Unstressed
	Purity 99%				+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	151.3690	µg/mL	Unstressed
	Purity 99%				+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	151.0098	µg/mL	Unstressed
	Purity 96%				+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.9970	µg/mL	Unstressed
	Purity 99%				+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4 µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)		+/-	150.9832	µg/mL	Unstressed
	Purity 97%			+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%			+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7 µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)		+/-	75.5202	µg/mL	Unstressed
	Purity 99%			+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7 µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)		+/-	75.6409	µg/mL	Unstressed
	Purity 99%			+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%			+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2 µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)		+/-	151.0875	µg/mL	Unstressed
	Purity 99%			+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2 µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)		+/-	151.2685	µg/mL	Unstressed
	Purity 99%			+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2 µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)		+/-	151.1478	µg/mL	Unstressed
	Purity 99%			+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)		+/-	150.8661	µg/mL	Unstressed
	Purity 97%			+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7 µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)		+/-	151.1780	µg/mL	Unstressed
	Purity 99%			+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2 µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)		+/-	151.6922	µg/mL	Unstressed
	Purity 98%			+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7 µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)		+/-	151.0573	µg/mL	Unstressed
	Purity 99%			+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2 µg/mL	+/- 14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)		+/- 151.2081	µg/mL	Unstressed
	Purity 99%			+/- 151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0 µg/mL	+/- 14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)		+/- 151.4394	µg/mL	Unstressed
	Purity 99%			+/- 151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7 µg/mL	+/- 14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)		+/- 151.1176	µg/mL	Unstressed
	Purity 99%			+/- 151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2 µg/mL	+/- 14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)		+/- 151.3891	µg/mL	Unstressed
	Purity 99%			+/- 151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8 µg/mL	+/- 14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)		+/- 151.1880	µg/mL	Unstressed
	Purity 99%			+/- 151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7 µg/mL	+/- 14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)		+/- 151.3590	µg/mL	Unstressed
	Purity 99%			+/- 151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7 µg/mL	+/- 14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)		+/- 151.1176	µg/mL	Unstressed
	Purity 99%			+/- 151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3 µg/mL	+/- 14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)		+/- 150.8562	µg/mL	Unstressed
	Purity 99%			+/- 151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3 µg/mL	+/- 14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)		+/- 151.2182	µg/mL	Unstressed
	Purity 99%			+/- 151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8 µg/mL	+/- 14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)		+/- 151.4294	µg/mL	Unstressed
	Purity 99%			+/- 151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7 µg/mL	+/- 14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)		+/- 151.6607	µg/mL	Unstressed
	Purity 99%			+/- 152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8 µg/mL	+/- 14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)		+/- 150.9467	µg/mL	Unstressed
	Purity 99%			+/- 151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5 µg/mL	+/- 14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)		+/- 151.3473	µg/mL	Unstressed
	Purity 98%			+/- 151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3 µg/mL	+/- 14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)		+/- 151.0372	µg/mL	Unstressed
	Purity 99%			+/- 151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4 µg/mL	+/- 14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)		+/- 151.1002	µg/mL	Unstressed
	Purity 97%			+/- 151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3 µg/mL	+/- 14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)		+/- 151.0372	µg/mL	Unstressed
	Purity 99%			+/- 151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

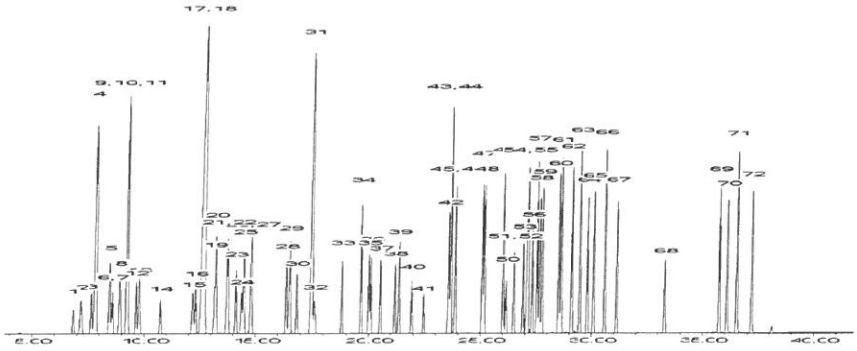
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00006

Rec: 9/9/19
VM571992S-00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC (Lot MKBL1376V) **Purity** 99%	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC (Lot UERIL) **Purity** 99%	25,001.2 µg/mL	+/- 145.3513 +/- 1,508.4304 +/- 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC (Lot ZHKYA) **Purity** 99%	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot HGC01-BLKT) **Purity** 98%	2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC (Lot K24W001) **Purity** 97%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 5379000) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 97%	2,501.0 µg/mL	+/- 14.5409 +/- 150.8954 +/- 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC (Lot PH2XK) **Purity** 99%	62,508.3 µg/mL	+/- 363.4098 +/- 3,771.4029 +/- 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC (Lot 5670200) **Purity** 99%	2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC (Lot 8DAOJ) **Purity** 99%	5,006.7 µg/mL	+/- 29.1092 +/- 302.0744 +/- 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC (Lot 7998000) **Purity** 99%	2,507.7 µg/mL	+/- 14.5798 +/- 151.2986 +/- 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC (Lot YADRA) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 +/- 151.3188 +/- 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC (Lot 5221100) **Purity** 96%	2,502.4 µg/mL	+/- 14.5492 +/- 150.9809 +/- 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride		2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	151.4595	µg/mL	Unstressed
	Purity 99%				+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	151.5500	µg/mL	Unstressed
	Purity 99%				+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9165	µg/mL	Unstressed
	Purity 99%				+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	151.1076	µg/mL	Unstressed
	Purity 99%				+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	151.0774	µg/mL	Unstressed
	Purity 99%				+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)			+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	151.4093	µg/mL	Unstressed
	Purity 99%				+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	151.3690	µg/mL	Unstressed
	Purity 99%				+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	151.0098	µg/mL	Unstressed
	Purity 96%				+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.9970	µg/mL	Unstressed
	Purity 99%				+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4 µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)		+/-	150.9832	µg/mL	Unstressed
	Purity 97%			+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%			+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7 µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)		+/-	75.5202	µg/mL	Unstressed
	Purity 99%			+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7 µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)		+/-	75.6409	µg/mL	Unstressed
	Purity 99%			+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%			+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2 µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)		+/-	151.0875	µg/mL	Unstressed
	Purity 99%			+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2 µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)		+/-	151.2685	µg/mL	Unstressed
	Purity 99%			+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2 µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)		+/-	151.1478	µg/mL	Unstressed
	Purity 99%			+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)		+/-	150.8661	µg/mL	Unstressed
	Purity 97%			+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7 µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)		+/-	151.1780	µg/mL	Unstressed
	Purity 99%			+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2 µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)		+/-	151.6922	µg/mL	Unstressed
	Purity 98%			+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7 µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)		+/-	151.0573	µg/mL	Unstressed
	Purity 99%			+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

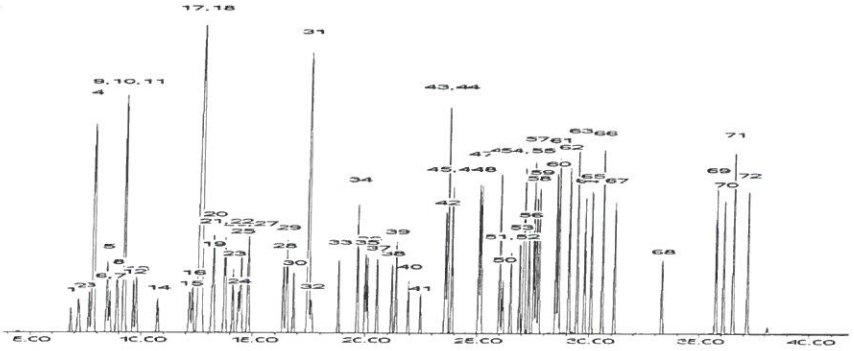
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571993_00003

VM571993-00003 Rec: 12/4/18

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0139911

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetonitrile		25,212.5 µg/mL	+/-	147.6247	µg/mL	Gravimetric
	CAS # 75-05-8	(Lot SHBH6233)		+/-	1,247.3304	µg/mL	Unstressed
	Purity 99%			+/-	1,278.3404	µg/mL	Stressed
2	Diisopropyl ether (DIPE)		2,525.0 µg/mL	+/-	14.8181	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBC0391V)		+/-	124.9226	µg/mL	Unstressed
	Purity 99%			+/-	128.0281	µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)		2,518.5 µg/mL	+/-	14.7800	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCC2702)		+/-	124.6010	µg/mL	Unstressed
	Purity 99%			+/-	127.6985	µg/mL	Stressed
4	Propionitrile		25,227.5 µg/mL	+/-	147.7126	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBV8545)		+/-	1,248.0725	µg/mL	Unstressed
	Purity 99%			+/-	1,279.1009	µg/mL	Stressed
5	tert-Amyl alcohol		25,152.5 µg/mL	+/-	147.2734	µg/mL	Gravimetric
	CAS # 75-85-4	(Lot STBB1898V)		+/-	1,244.3621	µg/mL	Unstressed
	Purity 99%			+/-	1,275.2982	µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)		2,525.0 µg/mL	+/-	14.8181	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBF8365V)		+/-	124.9226	µg/mL	Unstressed
	Purity 99%			+/-	128.0281	µg/mL	Stressed

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
GW-110320-SS-001	240-139669-1	82	105	94	83
GW-110320-BE-002	240-139669-2	82	103	94	84
GW-110320-SS-003	240-139669-3	83	101	93	83
GW-110320-BE-004	240-139669-4	85	106	95	85
GW-110320-SS-005	240-139669-5	84	105	93	80
GW-110320-BE-006	240-139669-6	83	107	95	83
GW-110320-SS-007	240-139669-7	84	106	94	81
GW-110320-BE-008	240-139669-8	83	106	95	83
GW-110320-BE-009	240-139669-9	86	107	95	85
GW-110420-BE-010	240-139669-10	85	106	93	82
GW-110420-BE-011	240-139669-11	84	108	95	82
GW-110420-BE-012	240-139669-12	85	108	92	82
GW-110420-BE-013	240-139669-13	85	107	93	80
GW-110520-BE-014	240-139669-14	87	108	100	83
GW-110520-BE-015	240-139669-15	88	107	99	79
GW-110520-BE-016	240-139669-16	85	102	99	82
GW-110520-BE-017	240-139669-17	85	103	98	79
EB-110520-BE-001	240-139669-18	87	108	98	79
GW-110520-BE-018	240-139669-19	89	105	98	78
TB-110520-BE-002	240-139669-20	87	106	98	78
	MB 240-461048/7	81	102	94	82
	MB 240-461088/7	82	105	91	82
	MB 240-461535/7	84	104	99	80
	LCS 240-461048/4	80	93	103	104
	LCS 240-461088/4	80	93	105	104
	LCS 240-461535/4	81	95	104	100
GW-110520-BE-015 MS	240-139669-15 MS	83	95	106	99
GW-110520-BE-015 MSD	240-139669-15 MSD	83	98	105	101

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3780.D

Lab ID: LCS 240-461048/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	8.04	80	65-141	
1,1,2,2-Tetrachloroethane	10.0	14.4	144	45-151	
1,1,2-Trichloroethane	10.0	12.5	125	79-121	*
1,1-Dichloroethane	10.0	10.1	101	74-126	
1,1-Dichloroethene	10.0	8.14	81	73-129	
1,2-Dichloroethane	10.0	10.3	103	66-129	
1,2-Dichloropropane	10.0	11.2	112	79-127	
2-Hexanone	20.0	27.0	135	43-142	
Acetone	20.0	20.6	103	33-155	
Benzene	10.0	10.5	105	77-123	
Bromoform	10.0	7.00	70	47-133	
Bromomethane	10.0	6.13	61	48-144	
Carbon disulfide	10.0	6.46	65	67-127	*
Carbon tetrachloride	10.0	6.90	69	61-142	
Chlorobenzene	10.0	10.1	101	80-120	
Chloroethane	10.0	6.53	65	41-147	
Chloroform	10.0	9.74	97	74-127	
Chloromethane	10.0	10.9	109	46-148	
cis-1,2-Dichloroethene	10.0	9.37	94	75-124	
cis-1,3-Dichloropropene	10.0	8.83	88	68-128	
Dichlorobromomethane	10.0	9.33	93	73-122	
Ethylbenzene	10.0	10.0	100	80-120	
m-Xylene & p-Xylene	10.0	10.7	107	79-121	
2-Butanone (MEK)	20.0	21.7	108	41-151	
4-Methyl-2-pentanone (MIBK)	20.0	22.0	110	43-145	
Methylene Chloride	10.0	10.6	106	63-134	
o-Xylene	10.0	9.49	95	75-123	
Styrene	10.0	10.2	102	75-121	
Tetrachloroethene	10.0	8.23	82	70-125	
Toluene	10.0	11.2	112	79-122	
trans-1,2-Dichloroethene	10.0	9.11	91	74-130	
trans-1,3-Dichloropropene	10.0	9.41	94	64-120	
Trichloroethene	10.0	7.44	74	71-121	
Vinyl chloride	10.0	9.09	91	61-134	
Xylenes, Total	20.0	20.2	101	78-122	
Chlorodibromomethane	10.0	7.94	79	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3811.D

Lab ID: LCS 240-461088/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.23	92	65-141	
1,1,2,2-Tetrachloroethane	10.0	16.1	161	45-151	*
1,1,2-Trichloroethane	10.0	13.7	137	79-121	*
1,1-Dichloroethane	10.0	11.7	117	74-126	
1,1-Dichloroethene	10.0	9.38	94	73-129	
1,2-Dichloroethane	10.0	11.3	113	66-129	
1,2-Dichloropropane	10.0	12.3	123	79-127	
2-Hexanone	20.0	28.7	144	43-142	*
Acetone	20.0	20.2	101	33-155	
Benzene	10.0	11.7	117	77-123	
Bromoform	10.0	7.48	75	47-133	
Bromomethane	10.0	6.35	63	48-144	
Carbon disulfide	10.0	7.23	72	67-127	
Carbon tetrachloride	10.0	8.10	81	61-142	
Chlorobenzene	10.0	11.2	112	80-120	
Chloroethane	10.0	6.50	65	41-147	
Chloroform	10.0	10.9	109	74-127	
Chloromethane	10.0	11.3	113	46-148	
cis-1,2-Dichloroethene	10.0	10.7	107	75-124	
cis-1,3-Dichloropropene	10.0	9.50	95	68-128	
Dichlorobromomethane	10.0	10.4	104	73-122	
Ethylbenzene	10.0	11.4	114	80-120	
m-Xylene & p-Xylene	10.0	11.8	118	79-121	
2-Butanone (MEK)	20.0	22.6	113	41-151	
4-Methyl-2-pentanone (MIBK)	20.0	22.6	113	43-145	
Methylene Chloride	10.0	11.5	115	63-134	
o-Xylene	10.0	10.9	109	75-123	
Styrene	10.0	11.2	112	75-121	
Tetrachloroethene	10.0	9.53	95	70-125	
Toluene	10.0	12.9	129	79-122	*
trans-1,2-Dichloroethene	10.0	10.6	106	74-130	
trans-1,3-Dichloropropene	10.0	10.4	104	64-120	
Trichloroethene	10.0	8.52	85	71-121	
Vinyl chloride	10.0	9.44	94	61-134	
Xylenes, Total	20.0	22.7	114	78-122	
Chlorodibromomethane	10.0	8.63	86	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3873A.D

Lab ID: LCS 240-461535/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	7.94	79	65-141	
1,1,2,2-Tetrachloroethane	10.0	14.6	146	45-151	
1,1,2-Trichloroethane	10.0	12.4	124	79-121	*
1,1-Dichloroethane	10.0	11.3	113	74-126	
1,1-Dichloroethene	10.0	8.09	81	73-129	
1,2-Dichloroethane	10.0	10.3	103	66-129	
1,2-Dichloropropane	10.0	10.7	107	79-127	
2-Hexanone	20.0	22.6	113	43-142	
Acetone	20.0	21.9	109	33-155	
Benzene	10.0	10.6	106	77-123	
Bromoform	10.0	6.69	67	47-133	
Bromomethane	10.0	8.04	80	48-144	
Carbon disulfide	10.0	7.48	75	67-127	
Carbon tetrachloride	10.0	6.57	66	61-142	
Chlorobenzene	10.0	10.6	106	80-120	
Chloroethane	10.0	9.79	98	41-147	
Chloroform	10.0	10.7	107	74-127	
Chloromethane	10.0	10.5	105	46-148	
cis-1,2-Dichloroethene	10.0	10.3	103	75-124	
cis-1,3-Dichloropropene	10.0	8.38	84	68-128	
Dichlorobromomethane	10.0	8.98	90	73-122	
Ethylbenzene	10.0	10.7	107	80-120	
m-Xylene & p-Xylene	10.0	11.3	113	79-121	
2-Butanone (MEK)	20.0	19.6	98	41-151	
4-Methyl-2-pentanone (MIBK)	20.0	19.8	99	43-145	
Methylene Chloride	10.0	11.5	115	63-134	
o-Xylene	10.0	10.7	107	75-123	
Styrene	10.0	10.5	105	75-121	
Tetrachloroethene	10.0	8.90	89	70-125	
Toluene	10.0	12.0	120	79-122	
trans-1,2-Dichloroethene	10.0	10.3	103	74-130	
trans-1,3-Dichloropropene	10.0	9.64	96	64-120	
Trichloroethene	10.0	7.79	78	71-121	
Vinyl chloride	10.0	8.91	89	61-134	
Xylenes, Total	20.0	22.0	110	78-122	
Chlorodibromomethane	10.0	7.77	78	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3880.D

Lab ID: 240-139669-15 MS Client ID: GW-110520-BE-015 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	333	33 U	204	61	62-135	F1
1,1,2,2-Tetrachloroethane	333	33 U	441	132	37-149	
1,1,2-Trichloroethane	333	33 U	389	117	73-122	
1,1-Dichloroethane	333	33 U	321	96	71-121	
1,1-Dichloroethene	333	33 U	212	63	64-132	F1
1,2-Dichloroethane	333	33 U	324	97	65-127	
1,2-Dichloropropane	333	33 U	321	96	73-125	
2-Hexanone	667	330 U	681	102	44-142	
Acetone	667	330 U	502	75	32-157	
Benzene	333	33 U	298	89	70-121	
Bromoform	333	33 U	213	64	41-128	
Bromomethane	333	33 U	220	66	41-136	
Carbon disulfide	333	33 U	167	50	54-131	F1
Carbon tetrachloride	333	33 U	162	49	53-142	F1
Chlorobenzene	333	33 U	307	92	73-120	
Chloroethane	333	33 U	247	74	37-142	
Chloroform	333	33 U	310	93	66-126	
Chloromethane	333	33 U	281	84	33-146	
cis-1,2-Dichloroethene	333	600	879	84	68-121	
cis-1,3-Dichloropropene	333	33 U	244	73	56-121	
Dichlorobromomethane	333	33 U	276	83	69-120	
Ethylbenzene	333	33 U	279	84	66-122	
m-Xylene & p-Xylene	333	67 U	296	89	65-123	
2-Butanone (MEK)	667	330 U	602	90	40-147	
4-Methyl-2-pentanone (MIBK)	667	330 U	544	82	40-147	
Methylene Chloride	333	170 U	352	106	59-127	
o-Xylene	333	33 U	290	87	63-124	
Styrene	333	33 U	302	91	57-126	
Tetrachloroethene	333	33 U	227	68	52-129	
Toluene	333	33 U	334	100	68-124	
trans-1,2-Dichloroethene	333	23 J	287	79	69-126	
trans-1,3-Dichloropropene	333	33 U	289	87	53-120	
Trichloroethene	333	21 J	225	61	56-124	
Vinyl chloride	333	33 U	204	61	49-136	
Xylenes, Total	667	67 U	586	88	64-124	
Chlorodibromomethane	333	33 U	248	74	66-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3881.D

Lab ID: 240-139669-15 MSD Client ID: GW-110520-BE-015 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	333	225	67	9	35	62-135	
1,1,2,2-Tetrachloroethane	333	439	132	0	35	37-149	
1,1,2-Trichloroethane	333	383	115	2	35	73-122	
1,1-Dichloroethane	333	332	100	3	35	71-121	
1,1-Dichloroethene	333	247	74	15	35	64-132	
1,2-Dichloroethane	333	330	99	2	35	65-127	
1,2-Dichloropropane	333	338	101	5	35	73-125	
2-Hexanone	667	722	108	6	35	44-142	
Acetone	667	586	88	16	35	32-157	
Benzene	333	315	95	6	35	70-121	
Bromoform	333	212	64	1	35	41-128	
Bromomethane	333	274	82	22	35	41-136	
Carbon disulfide	333	200	60	18	35	54-131	
Carbon tetrachloride	333	182	54	11	35	53-142	
Chlorobenzene	333	321	96	4	35	73-120	
Chloroethane	333	314	94	24	35	37-142	
Chloroform	333	318	95	3	35	66-126	
Chloromethane	333	345	103	20	35	33-146	
cis-1,2-Dichloroethene	333	878	83	0	35	68-121	
cis-1,3-Dichloropropene	333	258	77	5	35	56-121	
Dichlorobromomethane	333	285	86	3	35	69-120	
Ethylbenzene	333	291	87	4	35	66-122	
m-Xylene & p-Xylene	333	318	95	7	35	65-123	
2-Butanone (MEK)	667	623	94	4	35	40-147	
4-Methyl-2-pentanone (MIBK)	667	580	87	6	35	40-147	
Methylene Chloride	333	352	106	0	32	59-127	
o-Xylene	333	310	93	7	35	63-124	
Styrene	333	316	95	5	35	57-126	
Tetrachloroethene	333	247	74	8	35	52-129	
Toluene	333	350	105	5	35	68-124	
trans-1,2-Dichloroethene	333	304	84	6	35	69-126	
trans-1,3-Dichloropropene	333	299	90	3	35	53-120	
Trichloroethene	333	237	65	5	35	56-124	
Vinyl chloride	333	293	88	36	35	49-136	F2
Xylenes, Total	667	628	94	7	35	64-124	
Chlorodibromomethane	333	243	73	2	35	66-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: UXC3785.D Lab Sample ID: MB 240-461048/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 11/15/2020 10:05

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-461048/4	UXC3780.D	11/15/2020 08:15
GW-110320-SS-001	240-139669-1	UXC3796.D	11/15/2020 14:05
GW-110320-BE-002	240-139669-2	UXC3797.D	11/15/2020 14:27
GW-110320-SS-003	240-139669-3	UXC3798.D	11/15/2020 14:49
GW-110320-SS-005	240-139669-5	UXC3800.D	11/15/2020 15:32
GW-110320-BE-006	240-139669-6	UXC3801.D	11/15/2020 15:54
GW-110320-SS-007	240-139669-7	UXC3802.D	11/15/2020 16:16
GW-110320-BE-008	240-139669-8	UXC3803.D	11/15/2020 16:38

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: UXC3816.D Lab Sample ID: MB 240-461088/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 11/16/2020 11:25

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-461088/4	UXC3811.D	11/16/2020 09:35
GW-110320-BE-004	240-139669-4	UXC3828.D	11/16/2020 16:46
GW-110320-BE-009	240-139669-9	UXC3829.D	11/16/2020 17:13
GW-110420-BE-010	240-139669-10	UXC3830.D	11/16/2020 17:40
GW-110420-BE-011	240-139669-11	UXC3831.D	11/16/2020 18:06
GW-110420-BE-012	240-139669-12	UXC3832.D	11/16/2020 18:33
GW-110420-BE-013	240-139669-13	UXC3833.D	11/16/2020 19:00

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: UXC3877.D Lab Sample ID: MB 240-461535/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 11/18/2020 11:46

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-461535/4	UXC3873A.D	11/18/2020 10:19
GW-110520-BE-014	240-139669-14	UXC3878.D	11/18/2020 12:08
GW-110520-BE-015	240-139669-15	UXC3879.D	11/18/2020 12:30
GW-110520-BE-015 MS	240-139669-15 MS	UXC3880.D	11/18/2020 12:52
GW-110520-BE-015 MSD	240-139669-15 MSD	UXC3881.D	11/18/2020 13:13
GW-110520-BE-016	240-139669-16	UXC3882.D	11/18/2020 13:35
GW-110520-BE-017	240-139669-17	UXC3883.D	11/18/2020 13:57
EB-110520-BE-001	240-139669-18	UXC3884.D	11/18/2020 14:19
GW-110520-BE-018	240-139669-19	UXC3885.D	11/18/2020 14:41
TB-110520-BE-002	240-139669-20	UXC3886.D	11/18/2020 15:03

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: BFB715.D BFB Injection Date: 07/15/2020

Instrument ID: A3UX15 BFB Injection Time: 07:58

Analysis Batch No.: 442673

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	Greater than 50% of mass 95	86.8	
175	5.0 - 9.0 % of mass 174	6.4	(7.4) 1
176	95.0 - 101.0 % of mass 174	85.8	(98.8) 1
177	5.0 - 9.0 % of mass 176	4.7	(5.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-442673/2	UXC0317.D	07/15/2020	8:39
	STD8260 240-442673/3	UXC0318.D	07/15/2020	9:01
	STD8260 240-442673/4	UXC0319.D	07/15/2020	9:23
	STD8260 240-442673/5	UXC0320.D	07/15/2020	9:45
	STD8260 240-442673/6	UXC0321.D	07/15/2020	10:07
	STD8260 240-442673/7	UXC0322.D	07/15/2020	10:29
	ICV 240-442673/14	UXC0323.D	07/15/2020	10:50
	STD 240-442673/8	UXC0324.D	07/15/2020	11:12
	STD 240-442673/9	UXC0325.D	07/15/2020	11:34
	STD 240-442673/10	UXC0326.D	07/15/2020	11:56
	STD 240-442673/11	UXC0327.D	07/15/2020	12:17
	STD 240-442673/12	UXC0328.D	07/15/2020	12:39
	STD 240-442673/13	UXC0329.D	07/15/2020	13:01
	ICV 240-442673/15	UXC0330.D	07/15/2020	13:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: BFB1115A.D BFB Injection Date: 11/15/2020

Instrument ID: A3UX15 BFB Injection Time: 07:23

Analysis Batch No.: 461048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.9	
75	30.0 - 60.0 % of mass 95	56.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.4	(0.6) 1
174	Greater than 50% of mass 95	67.4	
175	5.0 - 9.0 % of mass 174	5.2	(7.8) 1
176	95.0 - 101.0 % of mass 174	66.9	(99.3) 1
177	5.0 - 9.0 % of mass 176	3.6	(5.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-461048/2	UXC3779.D	11/15/2020	7:53
	LCS 240-461048/4	UXC3780.D	11/15/2020	8:15
	CCV 240-461048/3	UXC3781.D	11/15/2020	8:37
	MB 240-461048/7	UXC3785.D	11/15/2020	10:05
GW-110320-SS-001	240-139669-1	UXC3796.D	11/15/2020	14:05
GW-110320-BE-002	240-139669-2	UXC3797.D	11/15/2020	14:27
GW-110320-SS-003	240-139669-3	UXC3798.D	11/15/2020	14:49
GW-110320-SS-005	240-139669-5	UXC3800.D	11/15/2020	15:32
GW-110320-BE-006	240-139669-6	UXC3801.D	11/15/2020	15:54
GW-110320-SS-007	240-139669-7	UXC3802.D	11/15/2020	16:16
GW-110320-BE-008	240-139669-8	UXC3803.D	11/15/2020	16:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: BFB1116B.D BFB Injection Date: 11/16/2020

Instrument ID: A3UX15 BFB Injection Time: 08:49

Analysis Batch No.: 461088

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.8	
173	Less than 2.0 % of mass 174	0.3	(0.6) 1
174	Greater than 50% of mass 95	62.2	
175	5.0 - 9.0 % of mass 174	4.4	(7.0) 1
176	95.0 - 101.0 % of mass 174	60.2	(96.8) 1
177	5.0 - 9.0 % of mass 176	3.7	(6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	LCS 240-461088/4	UXC3811.D	11/16/2020	9:35
	CCVIS 240-461088/2	UXC3812.D	11/16/2020	9:58
	CCV 240-461088/3	UXC3813.D	11/16/2020	10:20
	MB 240-461088/7	UXC3816.D	11/16/2020	11:25
GW-110320-BE-004	240-139669-4	UXC3828.D	11/16/2020	16:46
GW-110320-BE-009	240-139669-9	UXC3829.D	11/16/2020	17:13
GW-110420-BE-010	240-139669-10	UXC3830.D	11/16/2020	17:40
GW-110420-BE-011	240-139669-11	UXC3831.D	11/16/2020	18:06
GW-110420-BE-012	240-139669-12	UXC3832.D	11/16/2020	18:33
GW-110420-BE-013	240-139669-13	UXC3833.D	11/16/2020	19:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab File ID: BFB1118G.D BFB Injection Date: 11/18/2020

Instrument ID: A3UX15 BFB Injection Time: 09:35

Analysis Batch No.: 461535

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.3	
75	30.0 - 60.0 % of mass 95	59.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.4	(0.7) 1
174	Greater than 50% of mass 95	63.3	
175	5.0 - 9.0 % of mass 174	4.3	(6.8) 1
176	95.0 - 101.0 % of mass 174	61.6	(97.2) 1
177	5.0 - 9.0 % of mass 176	5.2	(8.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-461535/2	UXC3872A.D	11/18/2020	9:57
	LCS 240-461535/4	UXC3873A.D	11/18/2020	10:19
	CCV 240-461535/3	UXC3874A.D	11/18/2020	10:40
	MB 240-461535/7	UXC3877.D	11/18/2020	11:46
GW-110520-BE-014	240-139669-14	UXC3878.D	11/18/2020	12:08
GW-110520-BE-015	240-139669-15	UXC3879.D	11/18/2020	12:30
GW-110520-BE-015 MS	240-139669-15 MS	UXC3880.D	11/18/2020	12:52
GW-110520-BE-015 MSD	240-139669-15 MSD	UXC3881.D	11/18/2020	13:13
GW-110520-BE-016	240-139669-16	UXC3882.D	11/18/2020	13:35
GW-110520-BE-017	240-139669-17	UXC3883.D	11/18/2020	13:57
EB-110520-BE-001	240-139669-18	UXC3884.D	11/18/2020	14:19
GW-110520-BE-018	240-139669-19	UXC3885.D	11/18/2020	14:41
TB-110520-BE-002	240-139669-20	UXC3886.D	11/18/2020	15:03

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Sample No.: STD8260 240-442673/4 Date Analyzed: 07/15/2020 09:23

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC0319.D Heated Purge: (Y/N) N

Calibration ID: 57825

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1524094	5.05	1190685	7.72	707908	9.95
UPPER LIMIT		3048188	5.55	2381370	8.22	1415816	10.45
LOWER LIMIT		762047	4.55	595343	7.22	353954	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-442673/14		1403144	5.04	1095940	7.71	649329	9.95
ICV 240-442673/15		1288738	5.05	999150	7.72	537104	9.95
CCVIS 240-461048/2		2338180	5.05	1568080	7.72	795428	9.95
CCVIS 240-461088/2		2410345	5.05	1640178	7.72	818096	9.95
CCVIS 240-461535/2		2332883	5.04	1437554	7.71	750598	9.95

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Sample No.: CCVIS 240-461048/2 Date Analyzed: 11/15/2020 07:53

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC3779.D Heated Purge: (Y/N) N

Calibration ID: 57827

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2338180	5.05	1568080	7.72	795428	9.95
UPPER LIMIT		4676360	5.55	3136160	8.22	1590856	10.45
LOWER LIMIT		1169090	4.55	784040	7.22	397714	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-461048/4		2409752	5.05	1653674	7.72	829043	9.95
CCV 240-461048/3		2380799	5.05	1740259	7.72	659547	9.95
MB 240-461048/7		2089639	5.05	1493121	7.72	622083	9.95
240-139669-1	GW-110320-SS-001	2084356	5.05	1506221	7.72	614809	9.95
240-139669-2	GW-110320-BE-002	2050694	5.05	1458586	7.72	627771	9.95
240-139669-3	GW-110320-SS-003	2081128	5.05	1493514	7.72	618063	9.95
240-139669-5	GW-110320-SS-005	2020450	5.05	1448805	7.72	588427	9.95
240-139669-6	GW-110320-BE-006	2008251	5.05	1415803	7.72	592484	9.95
240-139669-7	GW-110320-SS-007	1999063	5.05	1413282	7.72	569625	9.95
240-139669-8	GW-110320-BE-008	1993602	5.05	1381531	7.72	552003	9.95

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Sample No.: CCVIS 240-461088/2 Date Analyzed: 11/16/2020 09:58

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC3812.D Heated Purge: (Y/N) N

Calibration ID: 57827

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2410345	5.05	1640178	7.72	818096	9.95
UPPER LIMIT		4820690	5.55	3280356	8.22	1636192	10.45
LOWER LIMIT		1205173	4.55	820089	7.22	409048	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-461088/3		2340363	5.05	1714075	7.72	661662	9.95
MB 240-461088/7		2056063	5.05	1521959	7.72	603465	9.95
240-139669-4	GW-110320-BE-004	2019486	5.05	1446561	7.72	589951	9.95
240-139669-9	GW-110320-BE-009	2035817	5.05	1465705	7.72	597990	9.95
240-139669-10	GW-110420-BE-010	2073126	5.05	1479062	7.72	575732	9.95
240-139669-11	GW-110420-BE-011	2048646	5.05	1459958	7.72	588188	9.95
240-139669-12	GW-110420-BE-012	1984383	5.05	1452828	7.72	577131	9.95
240-139669-13	GW-110420-BE-013	1995695	5.05	1438930	7.72	560061	9.95

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Sample No.: CCVIS 240-461535/2 Date Analyzed: 11/18/2020 09:57

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC3872A.D Heated Purge: (Y/N) N

Calibration ID: 57827

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2332883	5.04	1437554	7.71	750598	9.95
UPPER LIMIT		4665766	5.54	2875108	8.21	1501196	10.45
LOWER LIMIT		1166442	4.54	718777	7.21	375299	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-461535/4		2400699	5.04	1459109	7.71	765712	9.95
CCV 240-461535/3		2255125	5.04	1380115	7.71	582533	9.95
MB 240-461535/7		2028008	5.04	1218777	7.71	532521	9.95
240-139669-14	GW-110520-BE-014	2056827	5.04	1270416	7.72	548459	9.95
240-139669-15	GW-110520-BE-015	2030504	5.04	1241983	7.72	537753	9.95
240-139669-15 MS	GW-110520-BE-015 MS	2298218	5.04	1370857	7.71	713939	9.95
240-139669-15 MSD	GW-110520-BE-015 MSD	2344815	5.04	1447169	7.71	751363	9.95
240-139669-16	GW-110520-BE-016	2109101	5.04	1284736	7.72	565603	9.95
240-139669-17	GW-110520-BE-017	2078660	5.05	1264951	7.72	529091	9.95
240-139669-18	EB-110520-BE-001	2027779	5.04	1271749	7.72	529963	9.95
240-139669-19	GW-110520-BE-018	2045941	5.04	1243069	7.72	523961	9.95
240-139669-20	TB-110520-BE-002	2029563	5.04	1198719	7.72	512794	9.95

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-001 Lab Sample ID: 240-139669-1

Matrix: Water Lab File ID: UXC3796.D

Analysis Method: 8260B Date Collected: 11/03/2020 11:18

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U *	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-001 Lab Sample ID: 240-139669-1

Matrix: Water Lab File ID: UXC3796.D

Analysis Method: 8260B Date Collected: 11/03/2020 11:18

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	83		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	82		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3796.D
Lims ID: 240-139669-B-1
Client ID: GW-110320-SS-001
Sample Type: Client
Inject. Date: 15-Nov-2020 14:05:30 ALS Bottle#: 18 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-046
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:57:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:40:43

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.049	5.048	0.000	98	2084356	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1506221	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	614809	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	408808	8.25	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	716716	10.5	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1763725	9.43	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	543244	8.29	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62		1.693				ND	
	13 Bromomethane	94		1.965				ND	
	14 Chloroethane	64		2.037				ND	
	19 1,1-Dichloroethene	96		2.653				ND	
	21 Acetone	58		2.689				ND	7
	24 Carbon disulfide	76		2.843				ND	
	28 Methylene Chloride	84		3.056				ND	
	32 trans-1,2-Dichloroethene	96		3.270				ND	
	35 1,1-Dichloroethane	63		3.626				ND	
	40 2-Butanone (MEK)	72		4.100				ND	
	41 cis-1,2-Dichloroethene	96		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.515				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.823				ND	
	56 1,2-Dichloroethane	62		4.835				ND	7
	60 Trichloroethene	130		5.357				ND	
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	
	73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

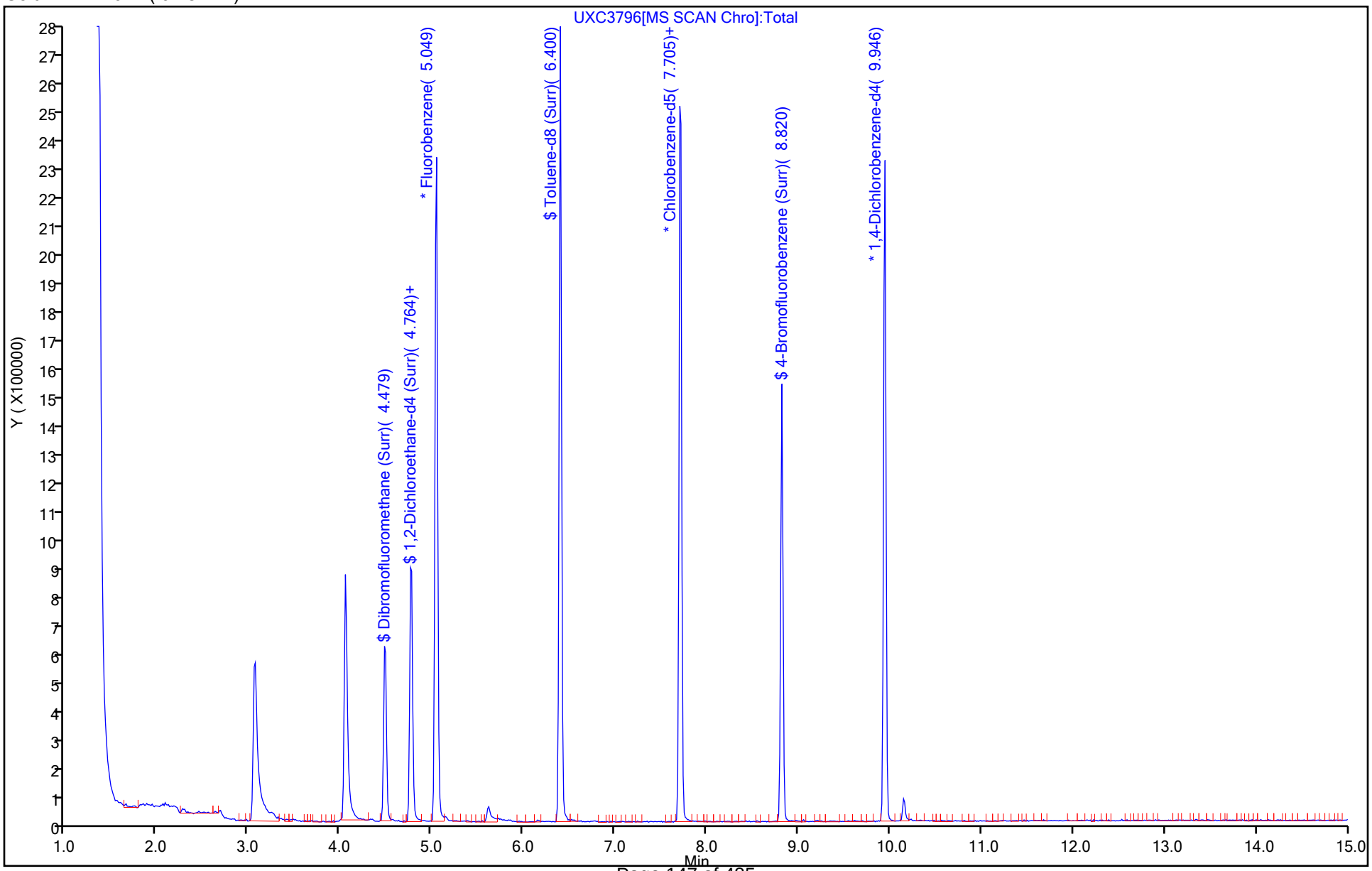
Report Date: 16-Nov-2020 07:57:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3796.D

Injection Date:	15-Nov-2020 14:05:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-1	Lab Sample ID:	240-139669-1	Worklist Smp#:	46
Client ID:	GW-110320-SS-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3796.D
Lims ID: 240-139669-B-1
Client ID: GW-110320-SS-001
Sample Type: Client
Inject. Date: 15-Nov-2020 14:05:30 ALS Bottle#: 18 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-046
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:57:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:40:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.25	82.48
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.81
$ 6 Toluene-d8 (Surr)	10.0	9.43	94.29
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.29	82.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-002 Lab Sample ID: 240-139669-2

Matrix: Water Lab File ID: UXC3797.D

Analysis Method: 8260B Date Collected: 11/03/2020 11:25

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U *	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-002 Lab Sample ID: 240-139669-2

Matrix: Water Lab File ID: UXC3797.D

Analysis Method: 8260B Date Collected: 11/03/2020 11:25

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 14:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
460-00-4	4-Bromofluorobenzene (Surr)	84		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	82		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3797.D
Lims ID: 240-139669-B-2
Client ID: GW-110320-BE-002
Sample Type: Client
Inject. Date: 15-Nov-2020 14:27:30 ALS Bottle#: 19 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-047
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:57:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:41:10

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.049	5.048	0.001	98	2050694	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1458586	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	627771	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	399366	8.19	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	694410	10.3	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1701743	9.39	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	533632	8.41	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62		1.693				ND	
	13 Bromomethane	94		1.965				ND	
	14 Chloroethane	64		2.037				ND	
	19 1,1-Dichloroethene	96		2.653				ND	
	21 Acetone	58	2.689	2.689	0.000	98	15231	0.2070	
	24 Carbon disulfide	76		2.843				ND	7
	28 Methylene Chloride	84		3.056				ND	
	32 trans-1,2-Dichloroethene	96		3.270				ND	
	35 1,1-Dichloroethane	63		3.626				ND	
	40 2-Butanone (MEK)	72		4.100				ND	
	41 cis-1,2-Dichloroethene	96		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.515				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.823				ND	
	56 1,2-Dichloroethane	62		4.835				ND	7
	60 Trichloroethene	130		5.357				ND	
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	7
	73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

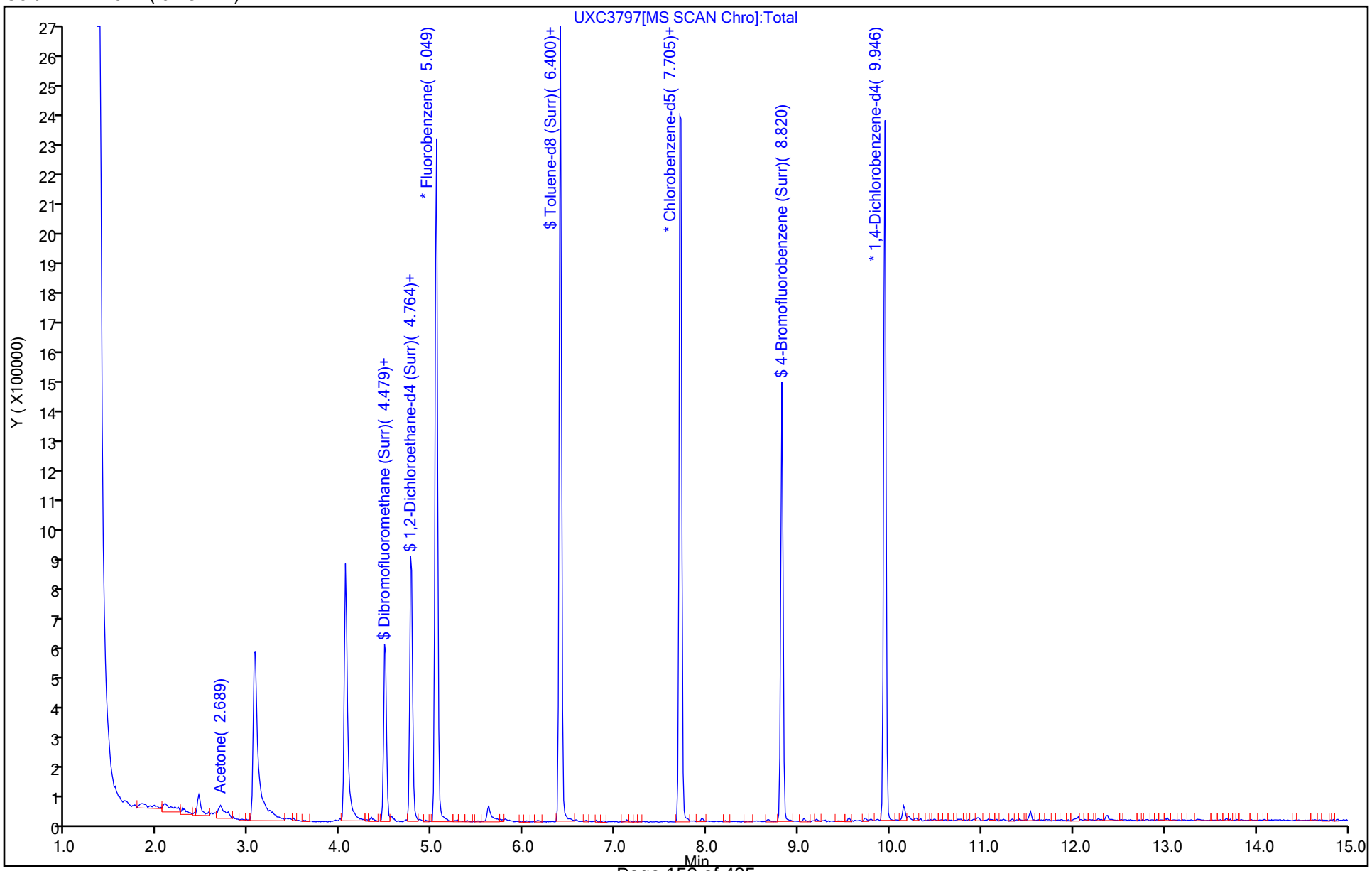
Report Date: 16-Nov-2020 07:57:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3797.D

Injection Date:	15-Nov-2020 14:27:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-2	Lab Sample ID:	240-139669-2	Worklist Smp#:	47
Client ID:	GW-110320-BE-002				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3797.D
Lims ID: 240-139669-B-2
Client ID: GW-110320-BE-002
Sample Type: Client
Inject. Date: 15-Nov-2020 14:27:30 ALS Bottle#: 19 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-047
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:57:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:41:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.19	81.90
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.21
$ 6 Toluene-d8 (Surr)	10.0	9.39	93.94
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.41	84.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-003 Lab Sample ID: 240-139669-3

Matrix: Water Lab File ID: UXC3798.D

Analysis Method: 8260B Date Collected: 11/03/2020 12:28

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U *	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-003 Lab Sample ID: 240-139669-3

Matrix: Water Lab File ID: UXC3798.D

Analysis Method: 8260B Date Collected: 11/03/2020 12:28

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
460-00-4	4-Bromofluorobenzene (Surr)	83		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	83		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3798.D
Lims ID: 240-139669-B-3
Client ID: GW-110320-SS-003
Sample Type: Client
Inject. Date: 15-Nov-2020 14:49:30 ALS Bottle#: 20 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-048
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:57:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	2081128	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1493514	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	618063	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	408661	8.26	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	692450	10.1	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1726575	9.31	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	82	539405	8.30	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62		1.693				ND	
13 Bromomethane	94		1.965				ND	
14 Chloroethane	64		2.037				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	
28 Methylene Chloride	84		3.056				ND	
32 trans-1,2-Dichloroethene	96		3.270				ND	
35 1,1-Dichloroethane	63		3.626				ND	
40 2-Butanone (MEK)	72		4.100				ND	
41 cis-1,2-Dichloroethene	96		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	
73 trans-1,3-Dichloropropene	75		6.649				ND	
75 1,1,2-Trichloroethane	97		6.815				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

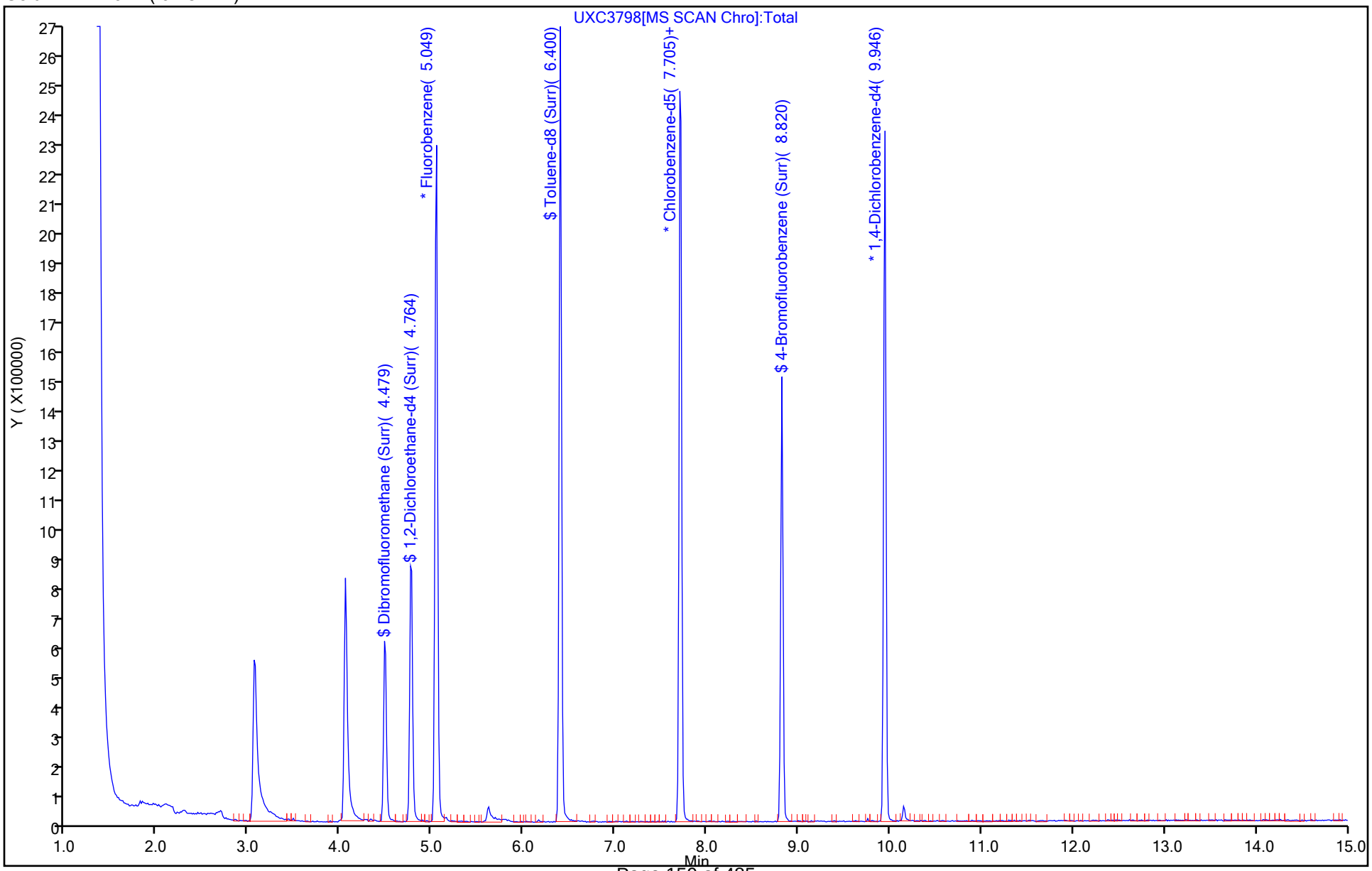
Report Date: 16-Nov-2020 07:57:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3798.D

Injection Date:	15-Nov-2020 14:49:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-3	Lab Sample ID:	240-139669-3	Worklist Smp#:	48
Client ID:	GW-110320-SS-003				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3798.D
Lims ID: 240-139669-B-3
Client ID: GW-110320-SS-003
Sample Type: Client
Inject. Date: 15-Nov-2020 14:49:30 ALS Bottle#: 20 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-048
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:57:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.26	82.58
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.42
$ 6 Toluene-d8 (Surr)	10.0	9.31	93.09
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.30	83.01

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-004 Lab Sample ID: 240-139669-4

Matrix: Water Lab File ID: UXC3828.D

Analysis Method: 8260B Date Collected: 11/03/2020 12:59

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 16:46

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50	U	50	12
79-34-5	1,1,2,2-Tetrachloroethane	50	U *	50	6.5
79-00-5	1,1,2-Trichloroethane	50	U *	50	4.5
75-34-3	1,1-Dichloroethane	50	U	50	8.5
75-35-4	1,1-Dichloroethene	50	U	50	9.5
107-06-2	1,2-Dichloroethane	50	U	50	11
78-87-5	1,2-Dichloropropane	50	U	50	7.5
591-78-6	2-Hexanone	500	U *	500	27
67-64-1	Acetone	500	U	500	270
71-43-2	Benzene	50	U	50	6.5
75-25-2	Bromoform	50	U	50	38
74-83-9	Bromomethane	50	U	50	21
75-15-0	Carbon disulfide	50	U	50	14
56-23-5	Carbon tetrachloride	50	U	50	13
108-90-7	Chlorobenzene	50	U	50	7.0
75-00-3	Chloroethane	50	U	50	42
67-66-3	Chloroform	50	U	50	6.5
74-87-3	Chloromethane	50	U	50	10
156-59-2	cis-1,2-Dichloroethene	180		50	8.0
10061-01-5	cis-1,3-Dichloropropene	50	U	50	31
75-27-4	Dichlorobromomethane	50	U	50	8.5
100-41-4	Ethylbenzene	50	U	50	5.5
78-93-3	2-Butanone (MEK)	500	U	500	58
108-10-1	4-Methyl-2-pentanone (MIBK)	500	U	500	21
75-09-2	Methylene Chloride	250	U	250	130
100-42-5	Styrene	50	U	50	5.0
127-18-4	Tetrachloroethene	50	U	50	7.5
108-88-3	Toluene	50	U *	50	7.0
156-60-5	trans-1,2-Dichloroethene	50	U	50	9.5
10061-02-6	trans-1,3-Dichloropropene	50	U	50	34
79-01-6	Trichloroethene	50	U	50	5.0
75-01-4	Vinyl chloride	980		50	10
1330-20-7	Xylenes, Total	100	U	100	7.5
124-48-1	Chlorodibromomethane	50	U	50	20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-004 Lab Sample ID: 240-139669-4

Matrix: Water Lab File ID: UXC3828.D

Analysis Method: 8260B Date Collected: 11/03/2020 12:59

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 16:46

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	85		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	85		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3828.D
Lims ID: 240-139669-A-4
Client ID: GW-110320-BE-004
Sample Type: Client
Inject. Date: 16-Nov-2020 16:46:30 ALS Bottle#: 19 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 240-0103981-047
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:46:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	98	2019486	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1446561	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	589951	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	406311	8.46	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.764	0.012	99	700752	10.6	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1698490	9.45	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	79	535620	8.51	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.693	1.693	0.000	99	1289735	19.7	
13 Bromomethane	94		1.954				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76	2.879	2.843	0.035	94	25176	0.1497	
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96		3.270				ND	
35 1,1-Dichloroethane	63		3.614				ND	
41 cis-1,2-Dichloroethene	96	4.100	4.088	0.012	84	213091	3.69	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.741				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

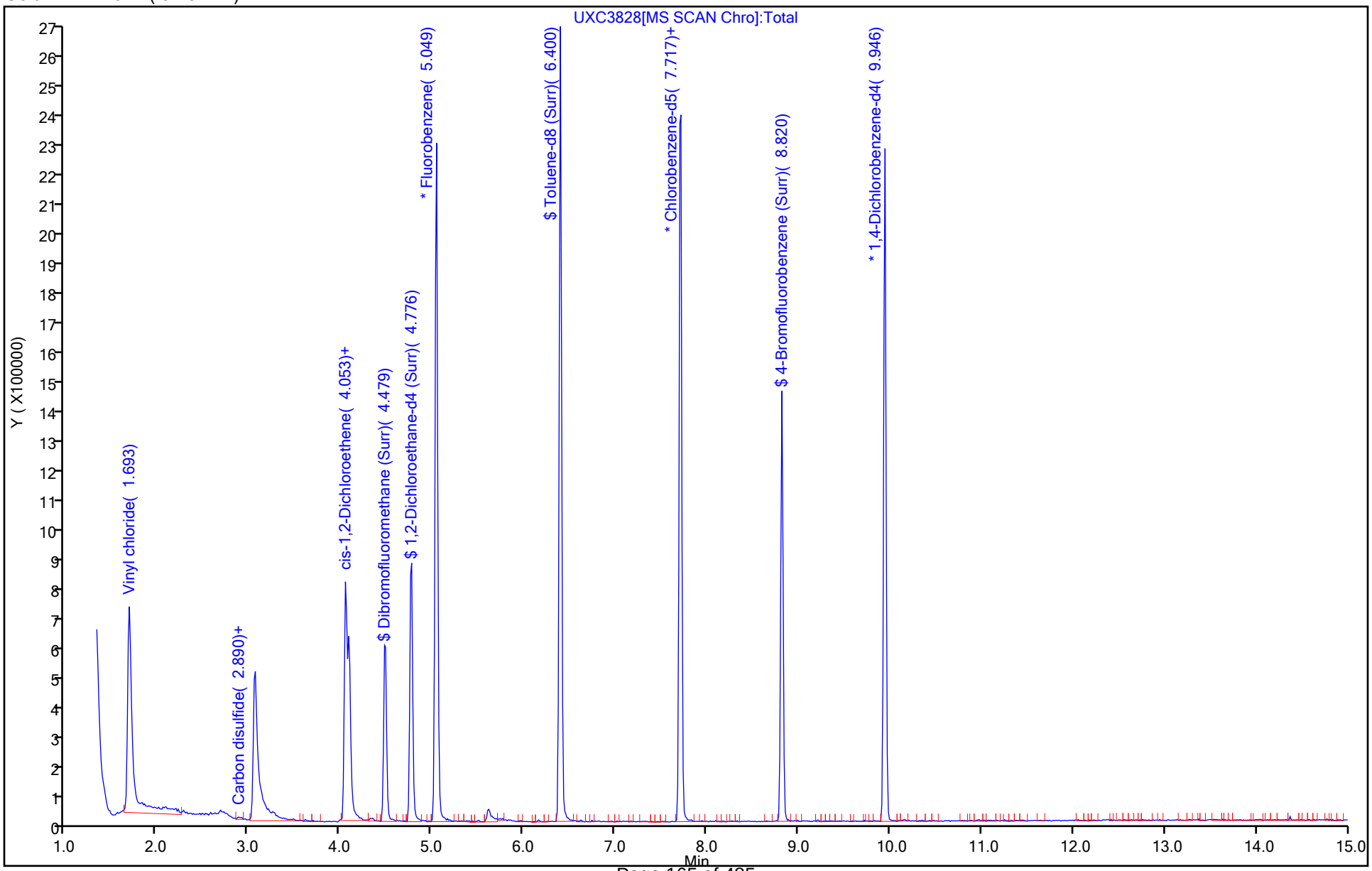
Report Date: 17-Nov-2020 08:57:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3828.D

Injection Date:	16-Nov-2020 16:46:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-A-4	Lab Sample ID:	240-139669-4	Worklist Smp#:	47
Client ID:	GW-110320-BE-004				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	19
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3828.D
Lims ID: 240-139669-A-4
Client ID: GW-110320-BE-004
Sample Type: Client
Inject. Date: 16-Nov-2020 16:46:30 ALS Bottle#: 19 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 240-0103981-047
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:46:58

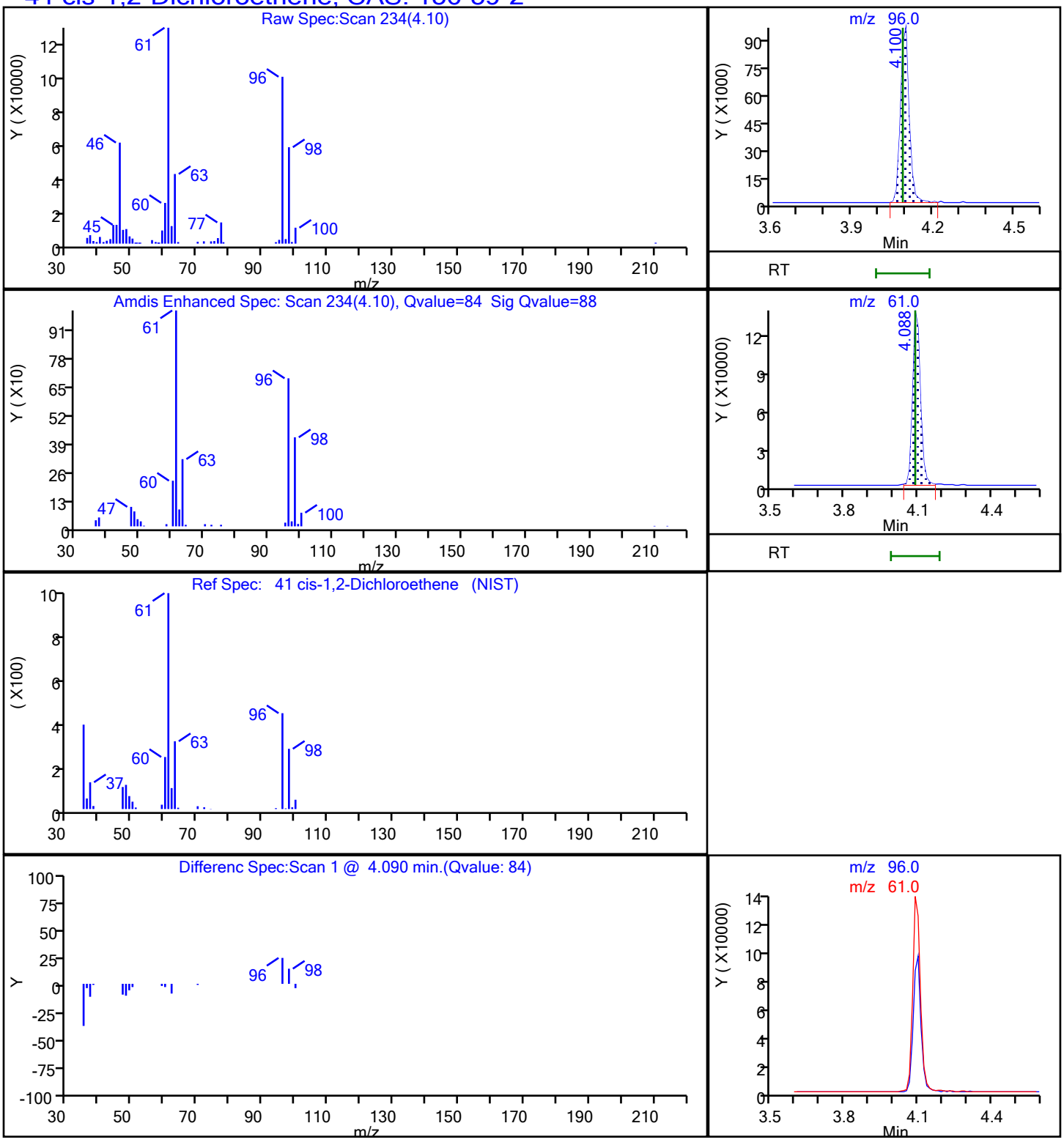
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.46	84.61
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.76
$ 6 Toluene-d8 (Surr)	10.0	9.45	94.54
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.51	85.10

Report Date: 17-Nov-2020 08:57:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3828.D				
Injection Date:	16-Nov-2020 16:46:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-A-4	Lab Sample ID:	240-139669-4		
Client ID:	GW-110320-BE-004				
Operator ID:	43582	ALS Bottle#:	19	Worklist Smp#:	47
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



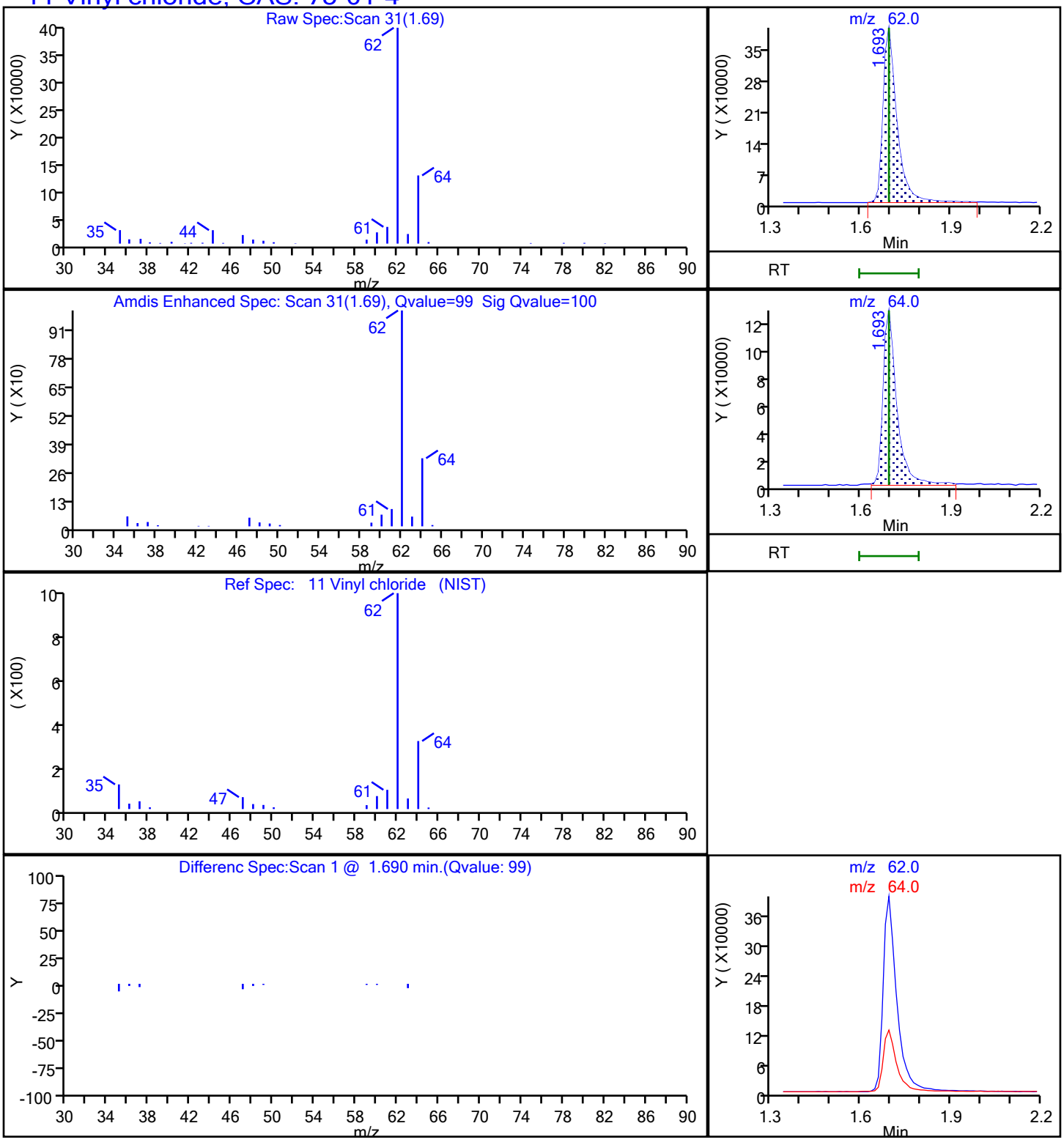
Report Date: 17-Nov-2020 08:57:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3828.D

Injection Date:	16-Nov-2020 16:46:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-A-4	Lab Sample ID:	240-139669-4		
Client ID:	GW-110320-BE-004				
Operator ID:	43582	ALS Bottle#:	19	Worklist Smp#:	47
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-005 Lab Sample ID: 240-139669-5

Matrix: Water Lab File ID: UXC3800.D

Analysis Method: 8260B Date Collected: 11/03/2020 13:58

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U *	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	0.66	J	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-005 Lab Sample ID: 240-139669-5

Matrix: Water Lab File ID: UXC3800.D

Analysis Method: 8260B Date Collected: 11/03/2020 13:58

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	80		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	84		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3800.D
Lims ID: 240-139669-B-5
Client ID: GW-110320-SS-005
Sample Type: Client
Inject. Date: 15-Nov-2020 15:32:30 ALS Bottle#: 22 Worklist Smp#: 50
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-050
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:21 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:44:12

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.048	5.048	0.000	98	2020450	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1448805	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	588427	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	405680	8.44	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	695612	10.5	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1667246	9.27	
$	7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	81	506301	8.03	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62	1.681	1.693	-0.012	97	43020	0.6559	
	13 Bromomethane	94		1.965				ND	
	14 Chloroethane	64		2.037				ND	7
	19 1,1-Dichloroethene	96		2.653				ND	
	21 Acetone	58		2.689				ND	7
	24 Carbon disulfide	76		2.843				ND	
	28 Methylene Chloride	84		3.056				ND	
	32 trans-1,2-Dichloroethene	96		3.270				ND	
	35 1,1-Dichloroethane	63		3.626				ND	
	40 2-Butanone (MEK)	72		4.100				ND	
	41 cis-1,2-Dichloroethene	96		4.100				ND	7
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.515				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.823				ND	7
	56 1,2-Dichloroethane	62		4.835				ND	
	60 Trichloroethene	130		5.357				ND	
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	7
	73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

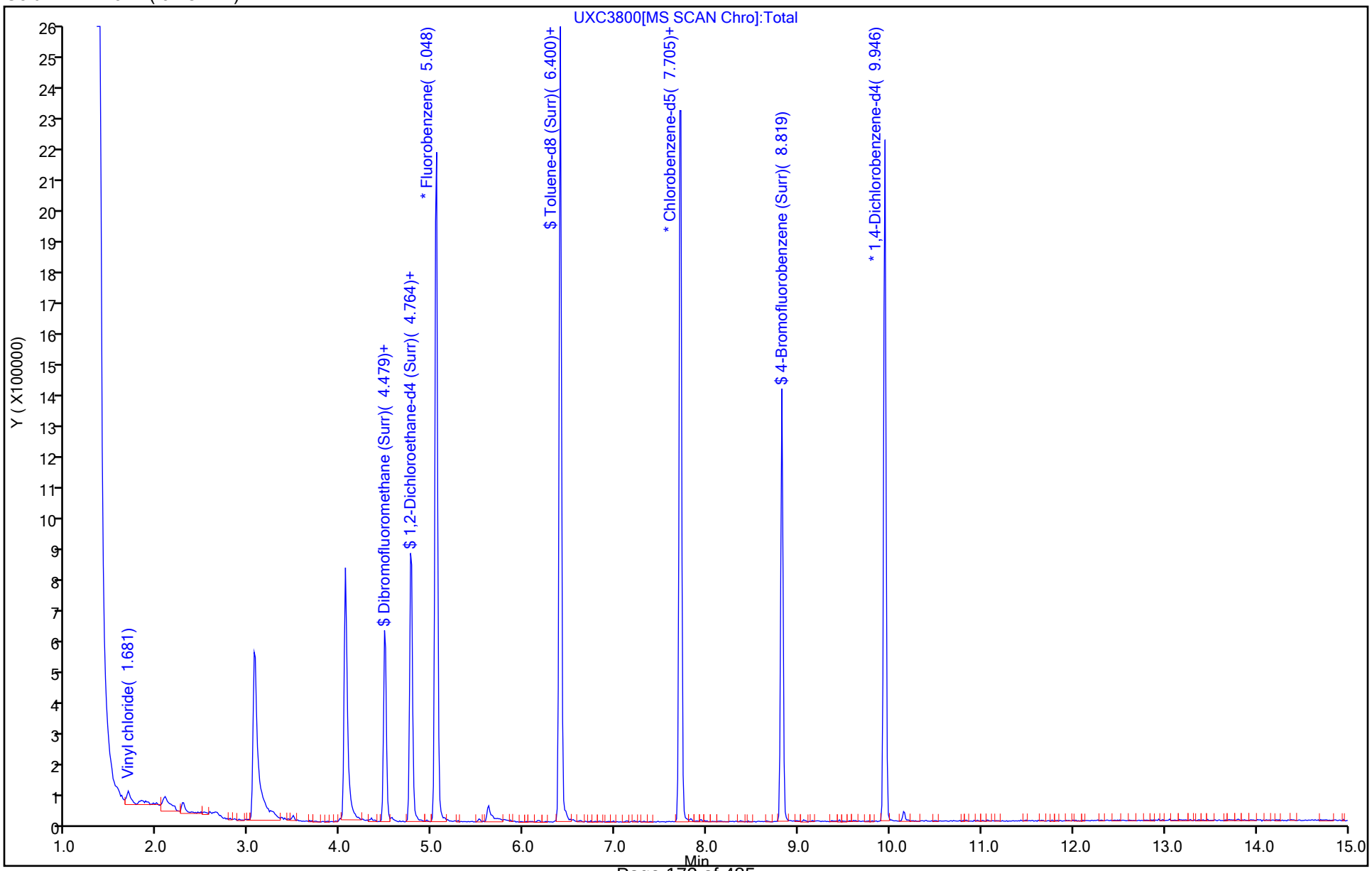
Report Date: 16-Nov-2020 07:53:22 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3800.D

Injection Date:	15-Nov-2020 15:32:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-5	Lab Sample ID:	240-139669-5	Worklist Smp#:	50
Client ID:	GW-110320-SS-005				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3800.D
Lims ID: 240-139669-B-5
Client ID: GW-110320-SS-005
Sample Type: Client
Inject. Date: 15-Nov-2020 15:32:30 ALS Bottle#: 22 Worklist Smp#: 50
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-050
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:21 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:44:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.44	84.44
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.94
$ 6 Toluene-d8 (Surr)	10.0	9.27	92.66
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.03	80.32

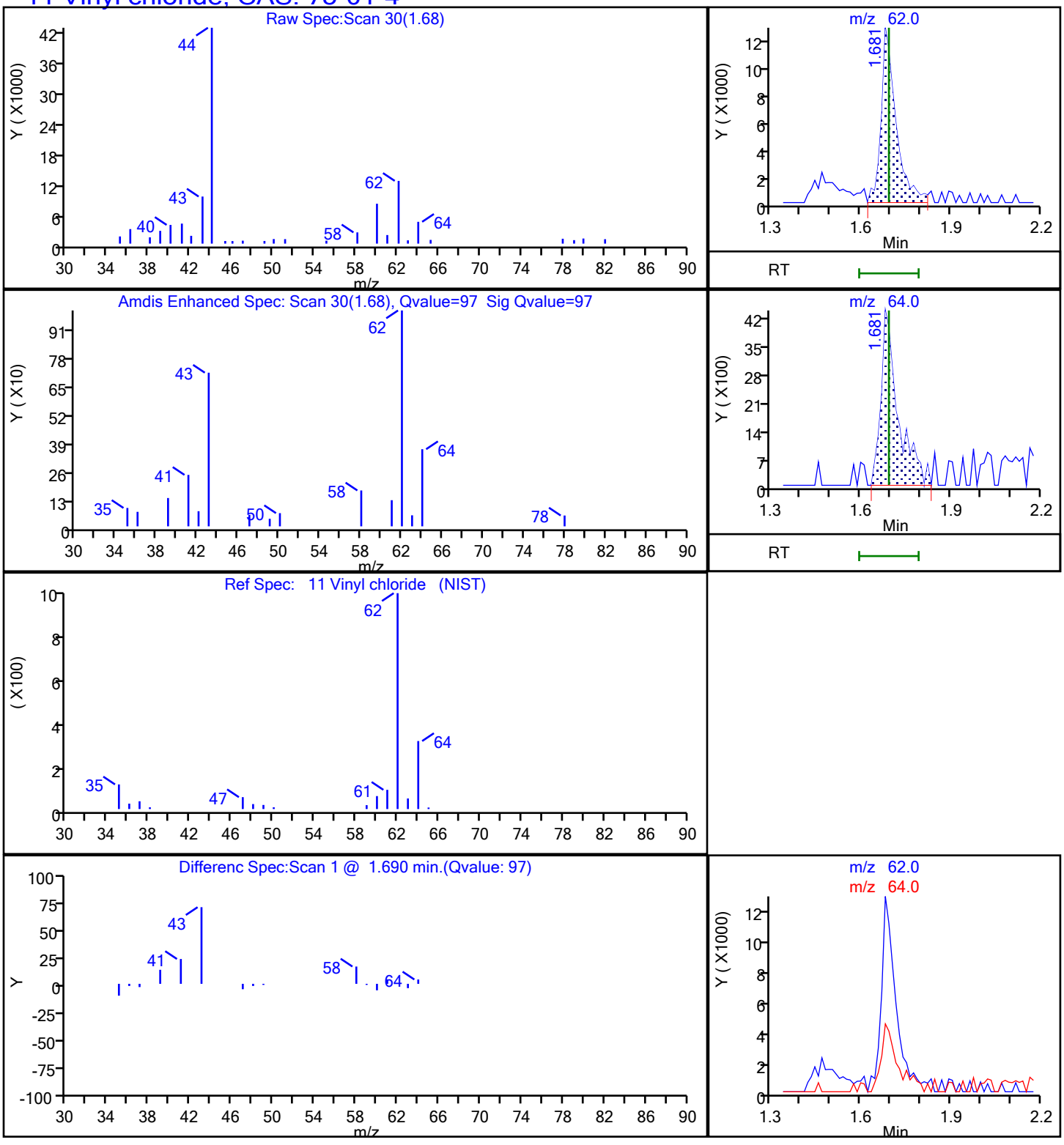
Report Date: 16-Nov-2020 07:53:22 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3800.D

Injection Date:	15-Nov-2020 15:32:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-5	Lab Sample ID:	240-139669-5		
Client ID:	GW-110320-SS-005				
Operator ID:	43582	ALS Bottle#:	22	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-006 Lab Sample ID: 240-139669-6

Matrix: Water Lab File ID: UXC3801.D

Analysis Method: 8260B Date Collected: 11/03/2020 14:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 15:54

Soil Aliquot Vol: Dilution Factor: 142.86

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	140	U	140	34
79-34-5	1,1,2,2-Tetrachloroethane	140	U	140	19
79-00-5	1,1,2-Trichloroethane	140	U *	140	13
75-34-3	1,1-Dichloroethane	110	J	140	24
75-35-4	1,1-Dichloroethene	140	U	140	27
107-06-2	1,2-Dichloroethane	140	U	140	30
78-87-5	1,2-Dichloropropane	140	U	140	21
591-78-6	2-Hexanone	1400	U	1400	77
67-64-1	Acetone	1400	U	1400	770
71-43-2	Benzene	140	U	140	19
75-25-2	Bromoform	140	U	140	110
74-83-9	Bromomethane	140	U	140	60
75-15-0	Carbon disulfide	140	U *	140	40
56-23-5	Carbon tetrachloride	140	U	140	37
108-90-7	Chlorobenzene	140	U	140	20
75-00-3	Chloroethane	140	U	140	120
67-66-3	Chloroform	140	U	140	19
74-87-3	Chloromethane	140	U	140	29
156-59-2	cis-1,2-Dichloroethene	2900		140	23
10061-01-5	cis-1,3-Dichloropropene	140	U	140	87
75-27-4	Dichlorobromomethane	140	U	140	24
100-41-4	Ethylbenzene	140	U	140	16
78-93-3	2-Butanone (MEK)	1400	U	1400	170
108-10-1	4-Methyl-2-pentanone (MIBK)	1400	U	1400	60
75-09-2	Methylene Chloride	710	U	710	370
100-42-5	Styrene	140	U	140	14
127-18-4	Tetrachloroethene	140	U	140	21
108-88-3	Toluene	140	U	140	20
156-60-5	trans-1,2-Dichloroethene	140		140	27
10061-02-6	trans-1,3-Dichloropropene	140	U	140	96
79-01-6	Trichloroethene	140	U	140	14
75-01-4	Vinyl chloride	130	J	140	29
1330-20-7	Xylenes, Total	290	U	290	21
124-48-1	Chlorodibromomethane	140	U	140	56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-006 Lab Sample ID: 240-139669-6

Matrix: Water Lab File ID: UXC3801.D

Analysis Method: 8260B Date Collected: 11/03/2020 14:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 15:54

Soil Aliquot Vol: Dilution Factor: 142.86

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	83		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	83		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D
Lims ID: 240-139669-B-6
Client ID: GW-110320-BE-006
Sample Type: Client
Inject. Date: 15-Nov-2020 15:54:30 ALS Bottle#: 23 Worklist Smp#: 51
Purge Vol: 5.000 mL Dil. Factor: 142.8600
Sample Info: 240-0103972-051
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:21 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:44:41

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.049	5.048	0.001	98	2008251	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1415803	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	592484	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.491	4.491	0.000	92	397621	8.33	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	704871	10.7	
$	6 Toluene-d8 (Surr)	98	6.401	6.400	0.000	95	1667109	9.48	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	511277	8.30	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62	1.693	1.693	0.000	97	58728	0.9008	
	13 Bromomethane	94		1.965				ND	
	14 Chloroethane	64		2.037				ND	
	19 1,1-Dichloroethene	96		2.653				ND	
	21 Acetone	58		2.689				ND	7
	24 Carbon disulfide	76		2.843				ND	7
	28 Methylene Chloride	84		3.056				ND	
	32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	94	53901	0.9759	
	35 1,1-Dichloroethane	63	3.614	3.626	-0.012	95	72626	0.7904	
	40 2-Butanone (MEK)	72		4.100				ND	
	41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	83	1170460	20.4	
	48 Chloroform	83		4.349				ND	7
	49 1,1,1-Trichloroethane	97		4.515				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.823				ND	
	56 1,2-Dichloroethane	62		4.835				ND	
	60 Trichloroethene	130		5.357				ND	
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	
	73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

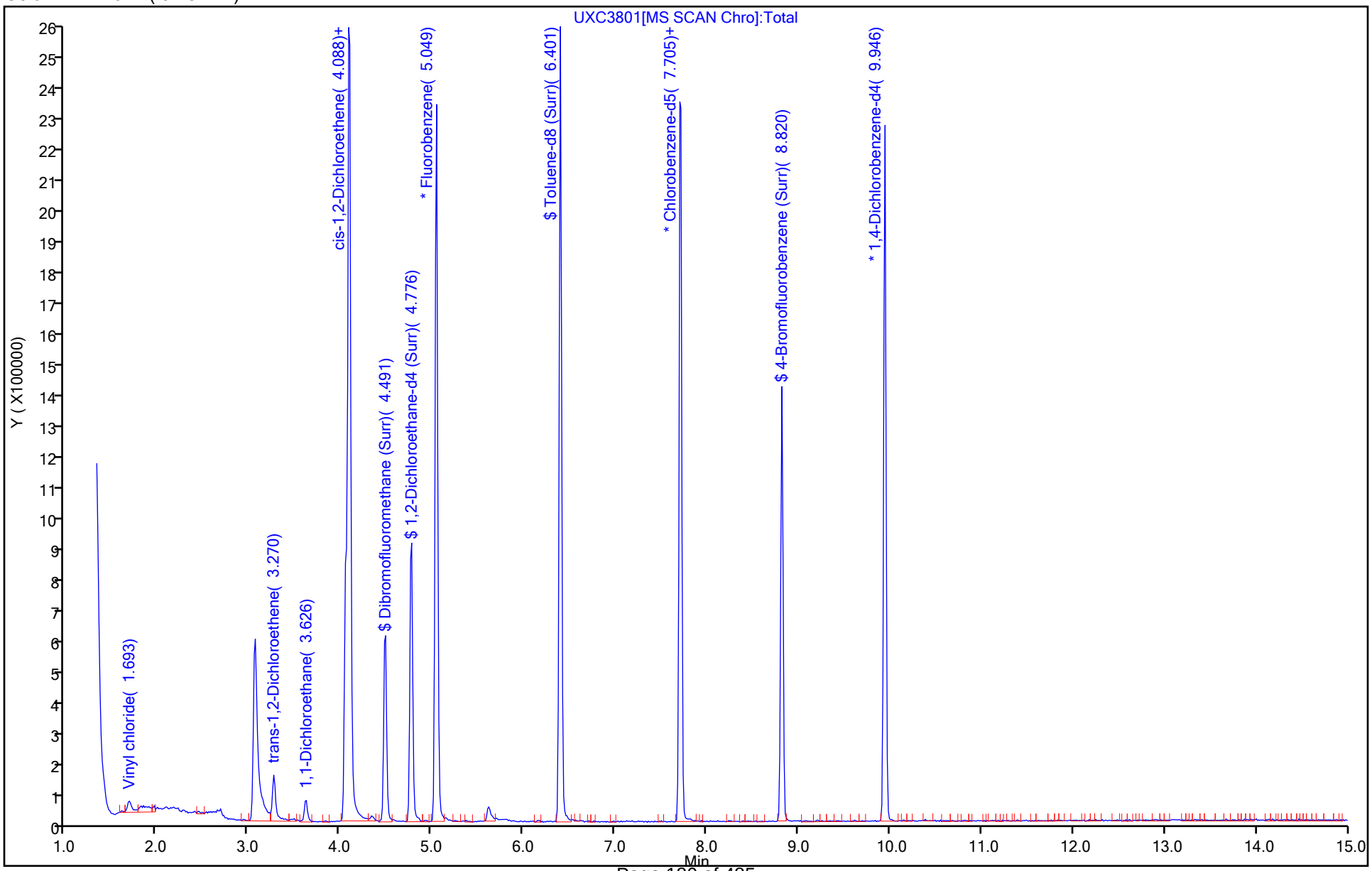
Report Date: 16-Nov-2020 07:53:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D

Injection Date:	15-Nov-2020 15:54:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-6	Lab Sample ID:	240-139669-6	Worklist Smp#:	51
Client ID:	GW-110320-BE-006				
Purge Vol:	5.000 mL	Dil. Factor:	142.8600	ALS Bottle#:	23
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D				
Lims ID:	240-139669-B-6				
Client ID:	GW-110320-BE-006				
Sample Type:	Client				
Inject. Date:	15-Nov-2020 15:54:30	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Sample Info:	240-0103972-051				
Misc. Info.:	C201115A,8260LLUX15,,43582				
Operator ID:	43582	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	16-Nov-2020 07:53:21	Calib Date:	15-Jul-2020 13:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1649				

First Level Reviewer: evansle Date: 16-Nov-2020 07:44:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.33	83.27
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.98
$ 6 Toluene-d8 (Surr)	10.0	9.48	94.81
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.30	83.00

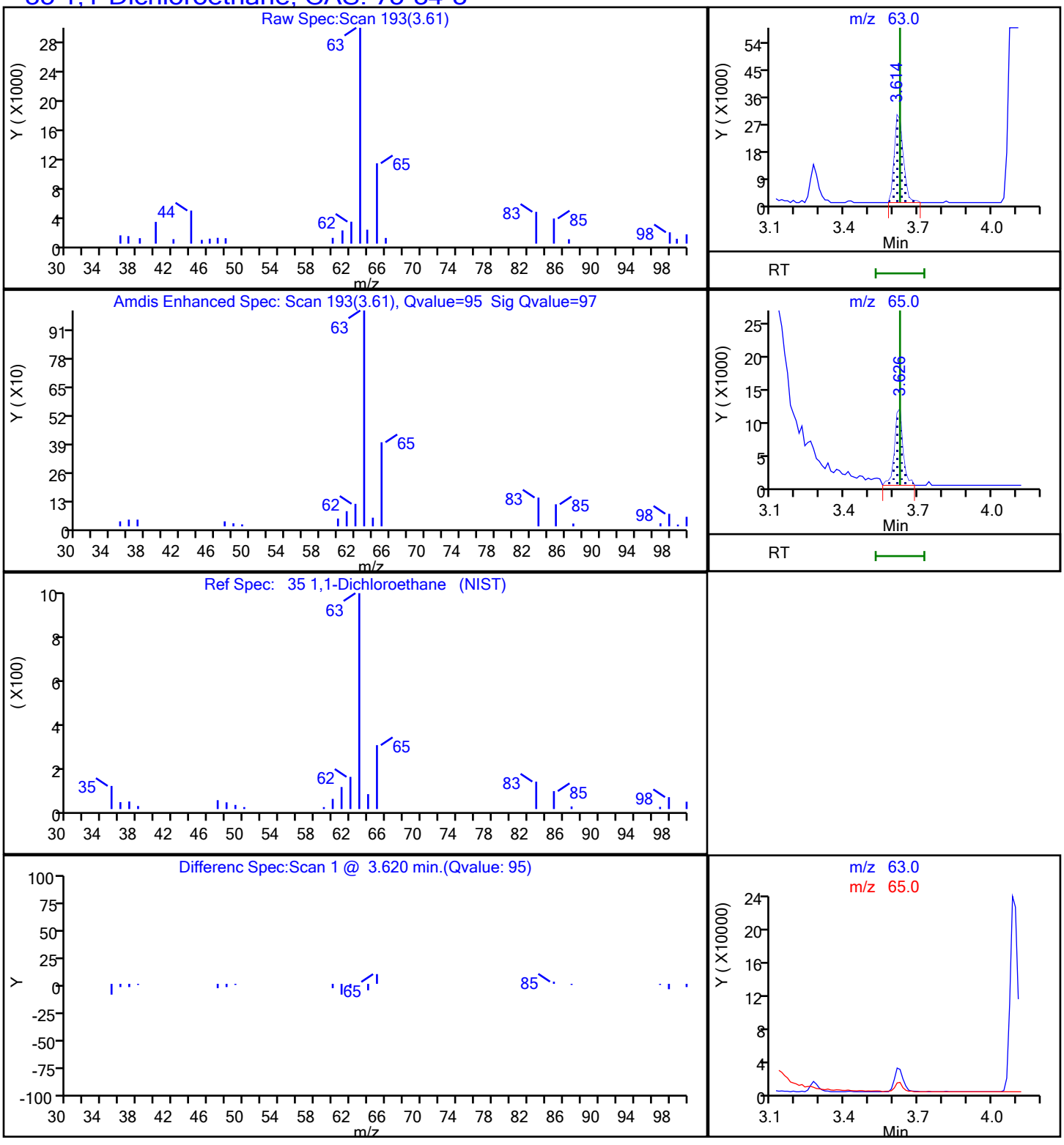
Report Date: 16-Nov-2020 07:53:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D

Injection Date:	15-Nov-2020 15:54:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-6	Lab Sample ID:	240-139669-6		
Client ID:	GW-110320-BE-006				
Operator ID:	43582	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

35 1,1-Dichloroethane, CAS: 75-34-3



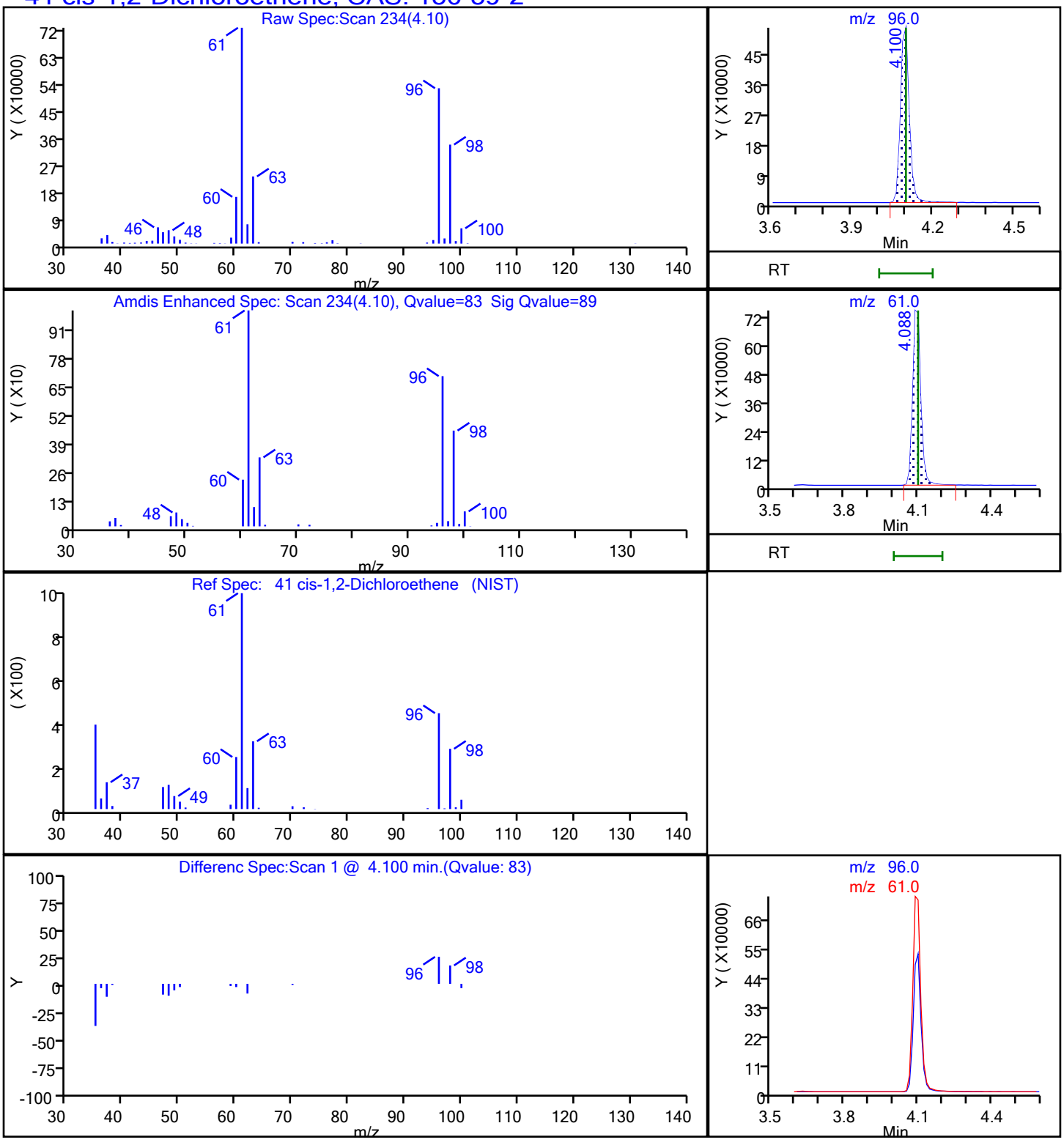
Report Date: 16-Nov-2020 07:53:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D

Injection Date:	15-Nov-2020 15:54:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-6	Lab Sample ID:	240-139669-6		
Client ID:	GW-110320-BE-006				
Operator ID:	43582	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



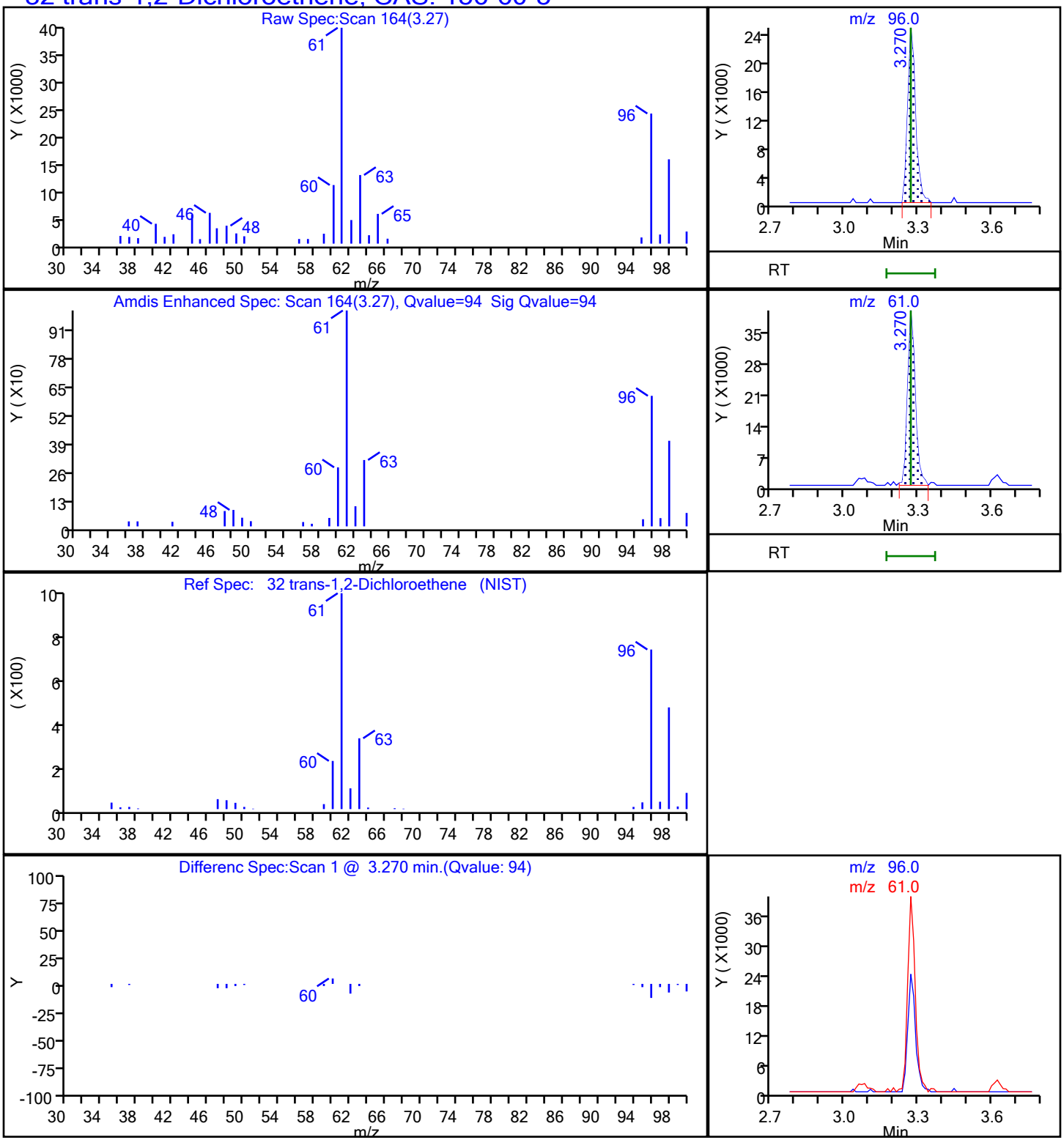
Report Date: 16-Nov-2020 07:53:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D

Injection Date:	15-Nov-2020 15:54:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-6	Lab Sample ID:	240-139669-6		
Client ID:	GW-110320-BE-006				
Operator ID:	43582	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



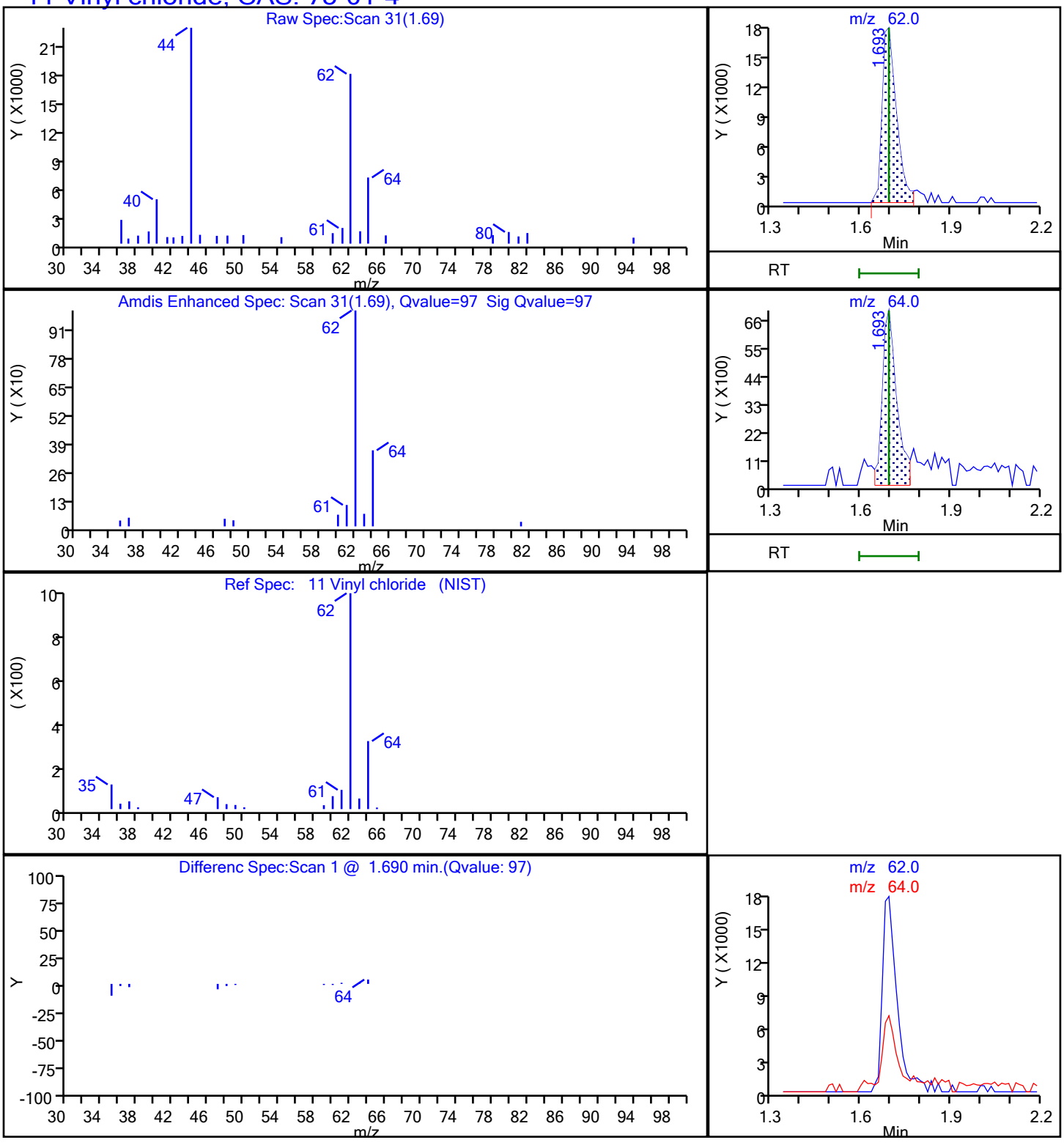
Report Date: 16-Nov-2020 07:53:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3801.D

Injection Date:	15-Nov-2020 15:54:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-6	Lab Sample ID:	240-139669-6		
Client ID:	GW-110320-BE-006				
Operator ID:	43582	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-007 Lab Sample ID: 240-139669-7

Matrix: Water Lab File ID: UXC3802.D

Analysis Method: 8260B Date Collected: 11/03/2020 15:23

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 16:16

Soil Aliquot Vol: Dilution Factor: 333.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	330	U	330	80
79-34-5	1,1,2,2-Tetrachloroethane	330	U	330	43
79-00-5	1,1,2-Trichloroethane	330	U *	330	30
75-34-3	1,1-Dichloroethane	260	J	330	57
75-35-4	1,1-Dichloroethene	330	U	330	63
107-06-2	1,2-Dichloroethane	330	U	330	70
78-87-5	1,2-Dichloropropane	330	U	330	50
591-78-6	2-Hexanone	3300	U	3300	180
67-64-1	Acetone	3300	U	3300	1800
71-43-2	Benzene	330	U	330	43
75-25-2	Bromoform	330	U	330	250
74-83-9	Bromomethane	330	U	330	140
75-15-0	Carbon disulfide	330	U *	330	93
56-23-5	Carbon tetrachloride	330	U	330	87
108-90-7	Chlorobenzene	330	U	330	47
75-00-3	Chloroethane	330	U	330	280
67-66-3	Chloroform	330	U	330	43
74-87-3	Chloromethane	330	U	330	67
156-59-2	cis-1,2-Dichloroethene	7800		330	53
10061-01-5	cis-1,3-Dichloropropene	330	U	330	200
75-27-4	Dichlorobromomethane	330	U	330	57
100-41-4	Ethylbenzene	330	U	330	37
78-93-3	2-Butanone (MEK)	3300	U	3300	390
108-10-1	4-Methyl-2-pentanone (MIBK)	3300	U	3300	140
75-09-2	Methylene Chloride	1700	U	1700	870
100-42-5	Styrene	330	U	330	33
127-18-4	Tetrachloroethene	330	U	330	50
108-88-3	Toluene	330	U	330	47
156-60-5	trans-1,2-Dichloroethene	140	J	330	63
10061-02-6	trans-1,3-Dichloropropene	330	U	330	220
79-01-6	Trichloroethene	1000		330	33
75-01-4	Vinyl chloride	560		330	67
1330-20-7	Xylenes, Total	670	U	670	50
124-48-1	Chlorodibromomethane	330	U	330	130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-SS-007 Lab Sample ID: 240-139669-7

Matrix: Water Lab File ID: UXC3802.D

Analysis Method: 8260B Date Collected: 11/03/2020 15:23

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 16:16

Soil Aliquot Vol: Dilution Factor: 333.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	81		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	84		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D
Lims ID: 240-139669-B-7
Client ID: GW-110320-SS-007
Sample Type: Client
Inject. Date: 15-Nov-2020 16:16:30 ALS Bottle#: 24 Worklist Smp#: 52
Purge Vol: 5.000 mL Dil. Factor: 333.3300
Sample Info: 240-0103972-052
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:21 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:45:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.048	5.048	0.000	98	1999063	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1413282	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	569625	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.491	4.491	0.000	92	400060	8.42	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	692946	10.6	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1647374	9.39	
$	7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	80	500641	8.14	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62	1.692	1.693	-0.001	99	108693	1.67	
	13 Bromomethane	94		1.965				ND	
	14 Chloroethane	64		2.037				ND	
	19 1,1-Dichloroethene	96	2.653	2.653	0.000	95	10444	0.1737	
	21 Acetone	58		2.689				ND	7
	24 Carbon disulfide	76		2.843				ND	7
	28 Methylene Chloride	84		3.056				ND	
	32 trans-1,2-Dichloroethene	96	3.281	3.270	0.011	96	23852	0.4339	
	35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	71356	0.7802	
	40 2-Butanone (MEK)	72		4.100				ND	
	41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	83	1346393	23.5	
	48 Chloroform	83		4.349				ND	7
	49 1,1,1-Trichloroethane	97	4.503	4.515	-0.012	95	8606	0.1137	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.823				ND	
	56 1,2-Dichloroethane	62		4.835				ND	7
	60 Trichloroethene	130	5.357	5.357	0.000	96	179534	3.07	
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	
	73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

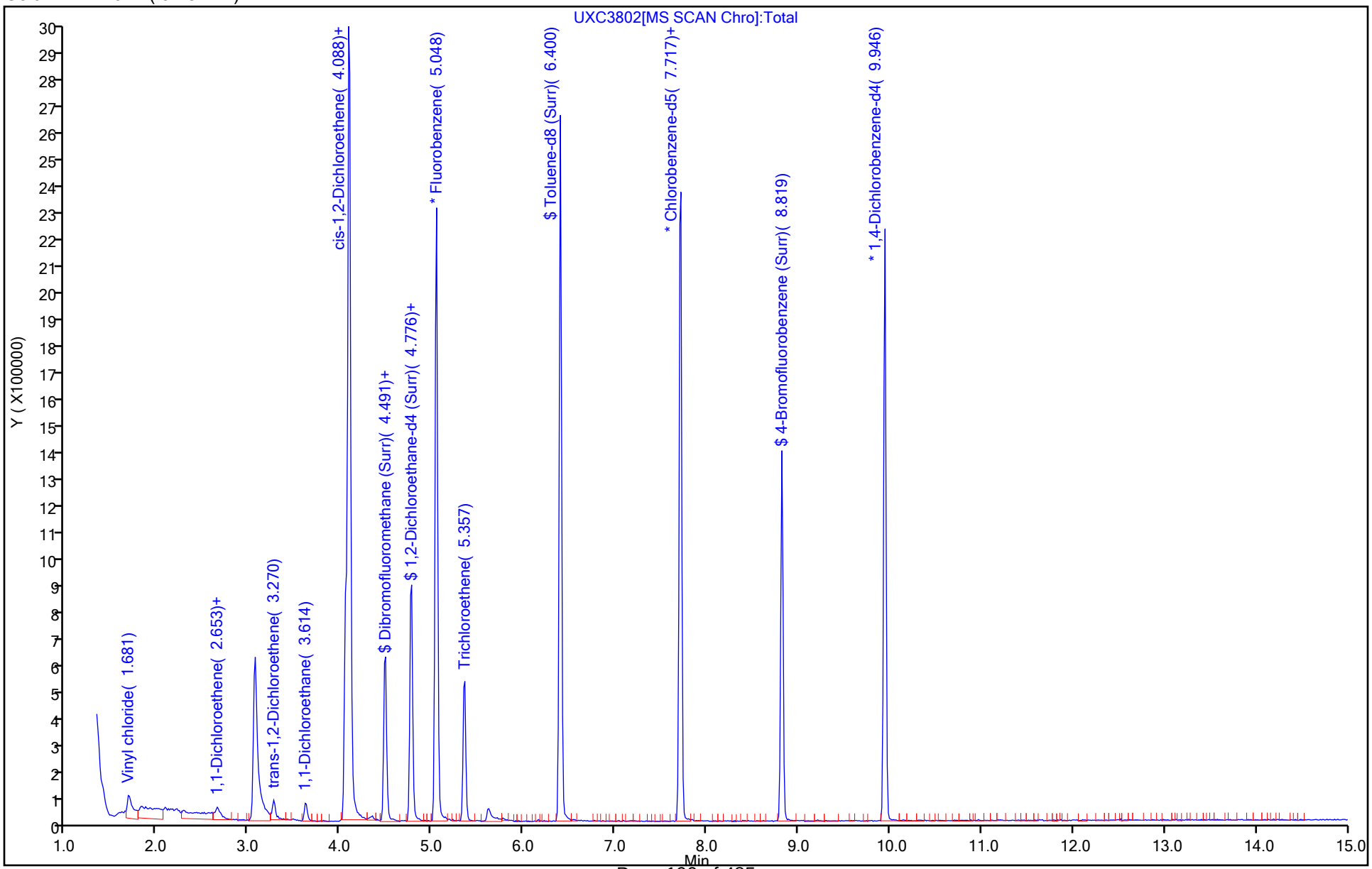
Report Date: 16-Nov-2020 07:53:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D

Injection Date:	15-Nov-2020 16:16:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-7	Lab Sample ID:	240-139669-7	Worklist Smp#:	52
Client ID:	GW-110320-SS-007				
Purge Vol:	5.000 mL	Dil. Factor:	333.3300	ALS Bottle#:	24
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D				
Lims ID:	240-139669-B-7				
Client ID:	GW-110320-SS-007				
Sample Type:	Client				
Inject. Date:	15-Nov-2020 16:16:30	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Sample Info:	240-0103972-052				
Misc. Info.:	C201115A,8260LLUX15,,43582				
Operator ID:	43582	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	16-Nov-2020 07:53:21	Calib Date:	15-Jul-2020 13:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1649				

First Level Reviewer: evansle Date: 16-Nov-2020 07:45:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.42	84.16
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.66
$ 6 Toluene-d8 (Surr)	10.0	9.39	93.86
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.14	81.42

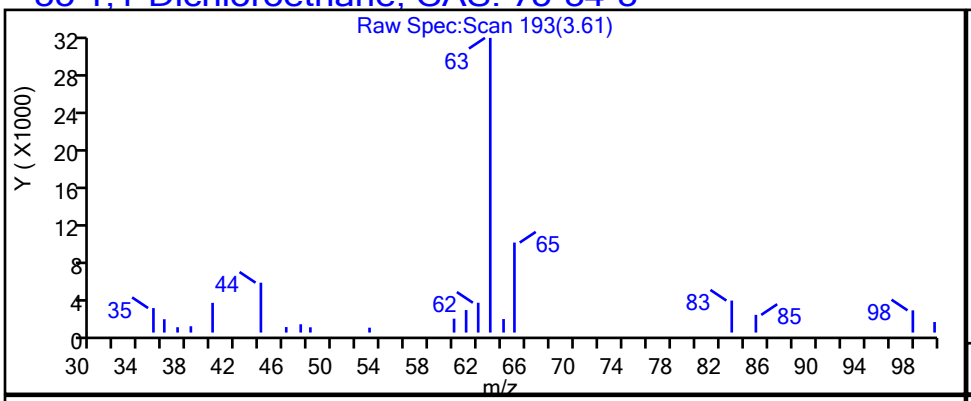
Report Date: 16-Nov-2020 07:53:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

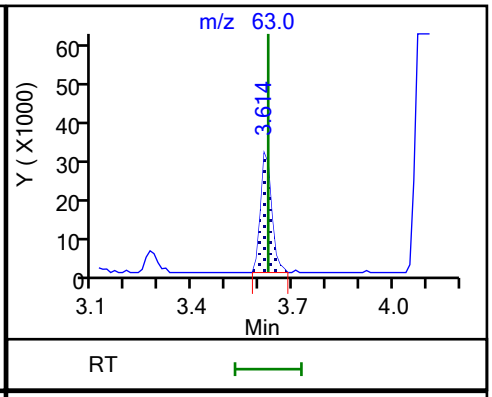
Eurofins TestAmerica, Canton

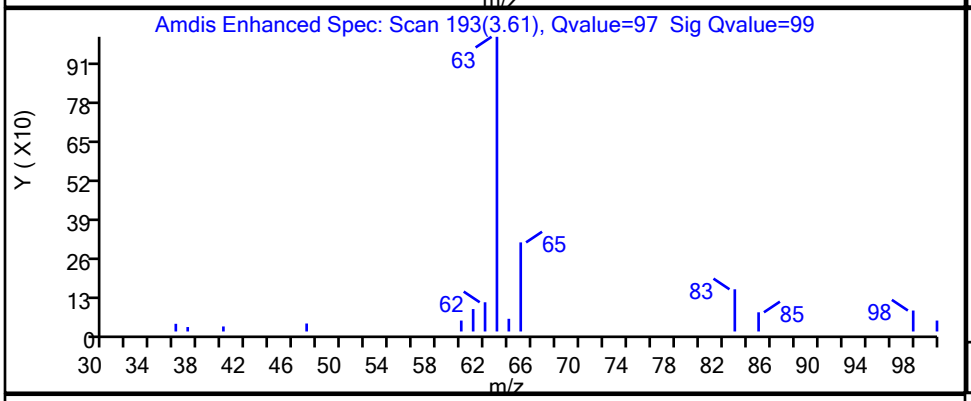
Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D

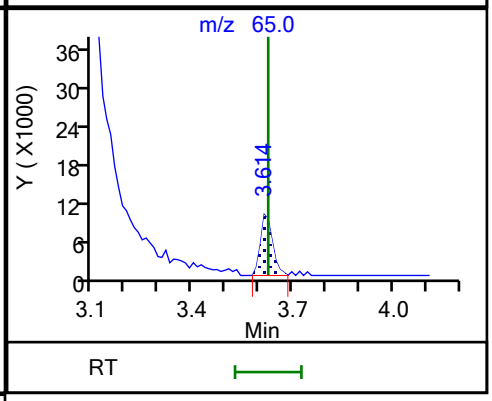
Injection Date:	15-Nov-2020 16:16:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-7	Lab Sample ID:	240-139669-7		
Client ID:	GW-110320-SS-007				
Operator ID:	43582	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

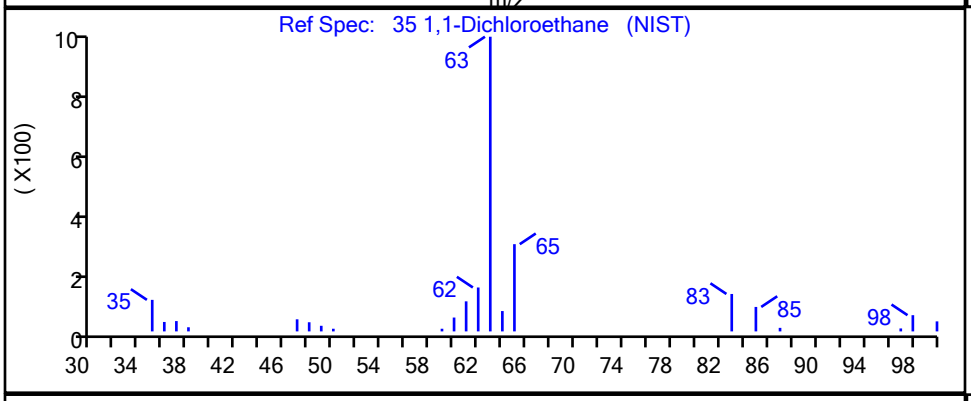
35 1,1-Dichloroethane, CAS: 75-34-3

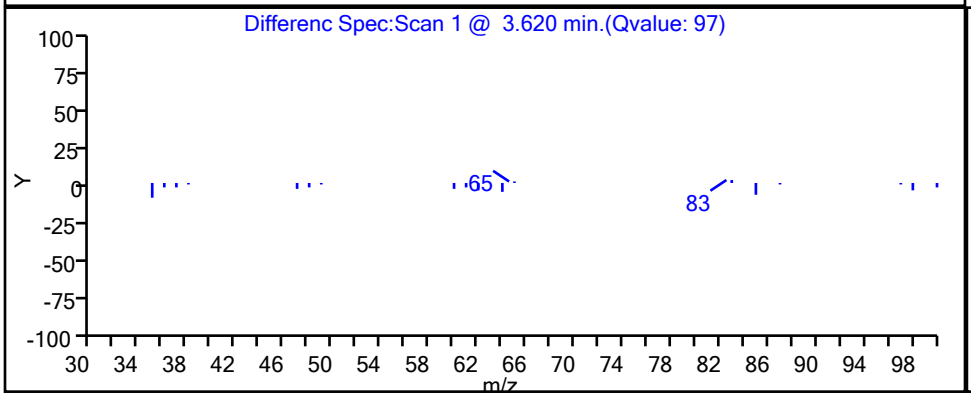


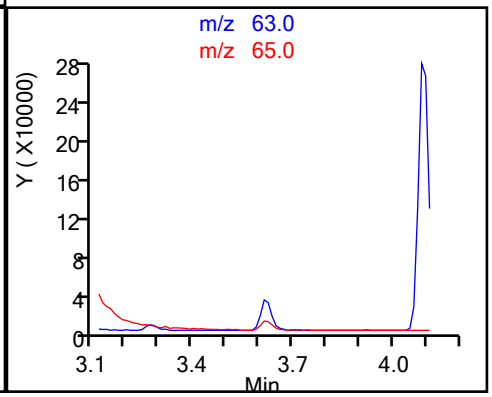












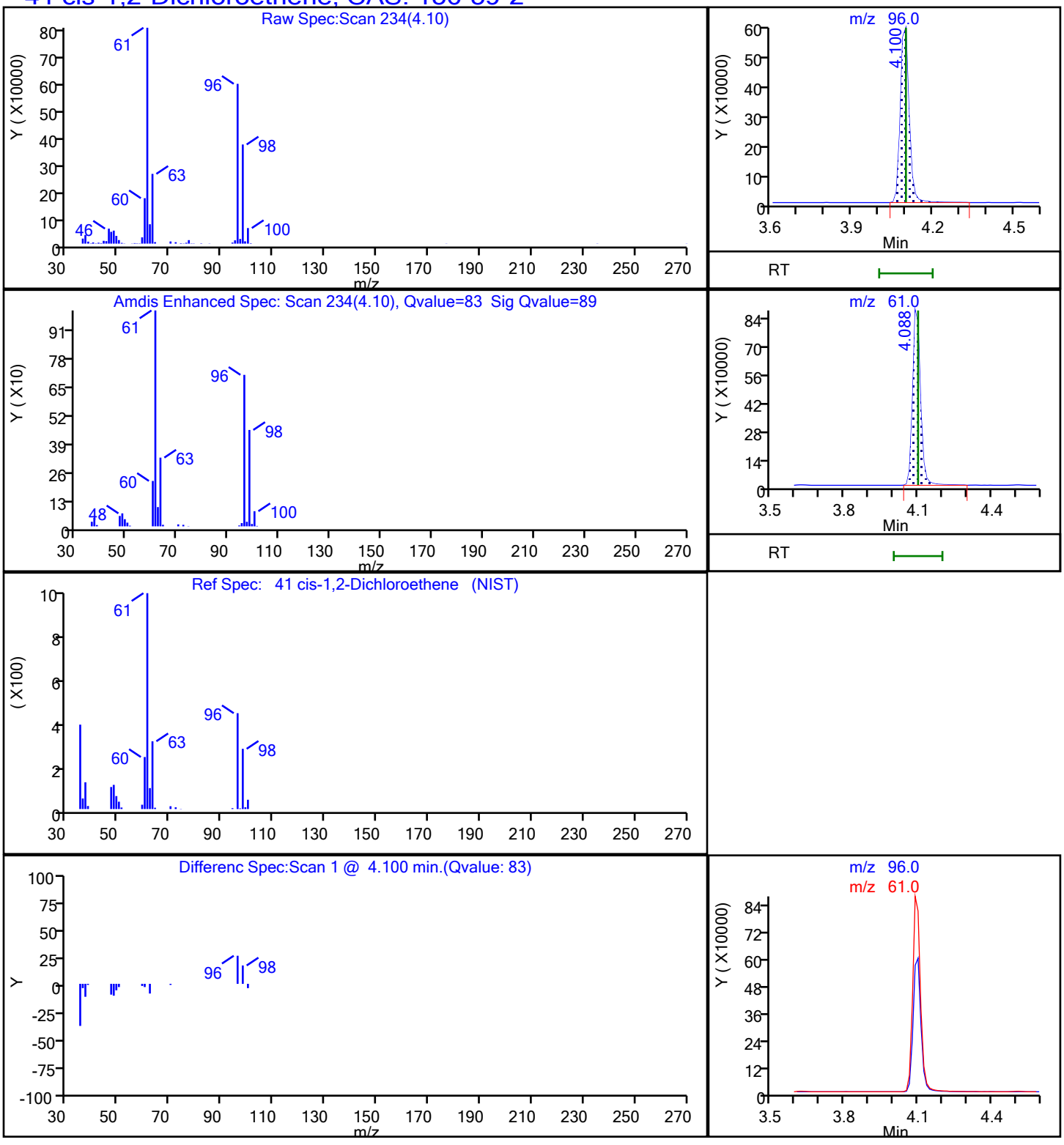
Report Date: 16-Nov-2020 07:53:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D

Injection Date:	15-Nov-2020 16:16:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-7	Lab Sample ID:	240-139669-7		
Client ID:	GW-110320-SS-007				
Operator ID:	43582	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



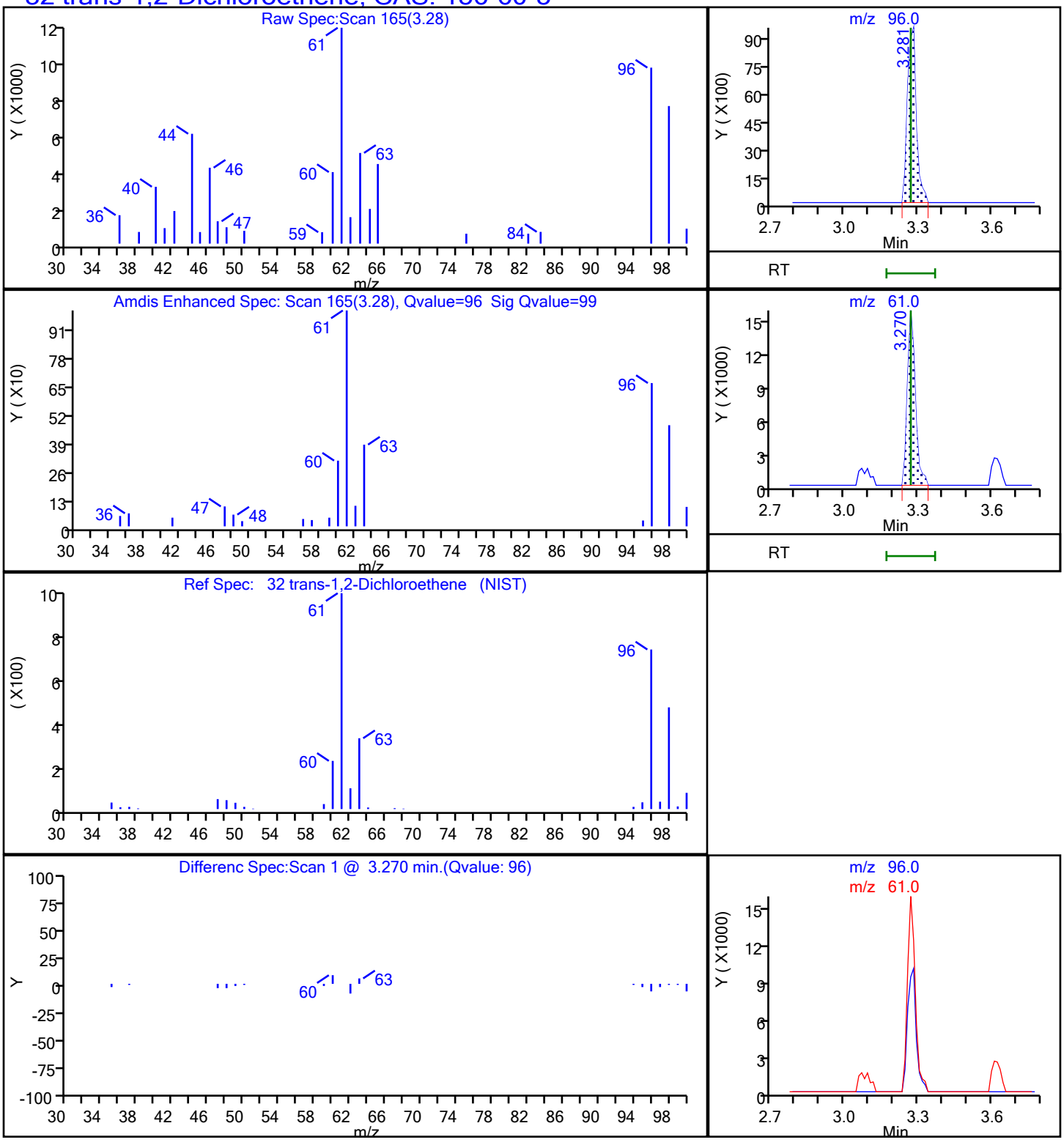
Report Date: 16-Nov-2020 07:53:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D

Injection Date:	15-Nov-2020 16:16:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-7	Lab Sample ID:	240-139669-7		
Client ID:	GW-110320-SS-007				
Operator ID:	43582	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



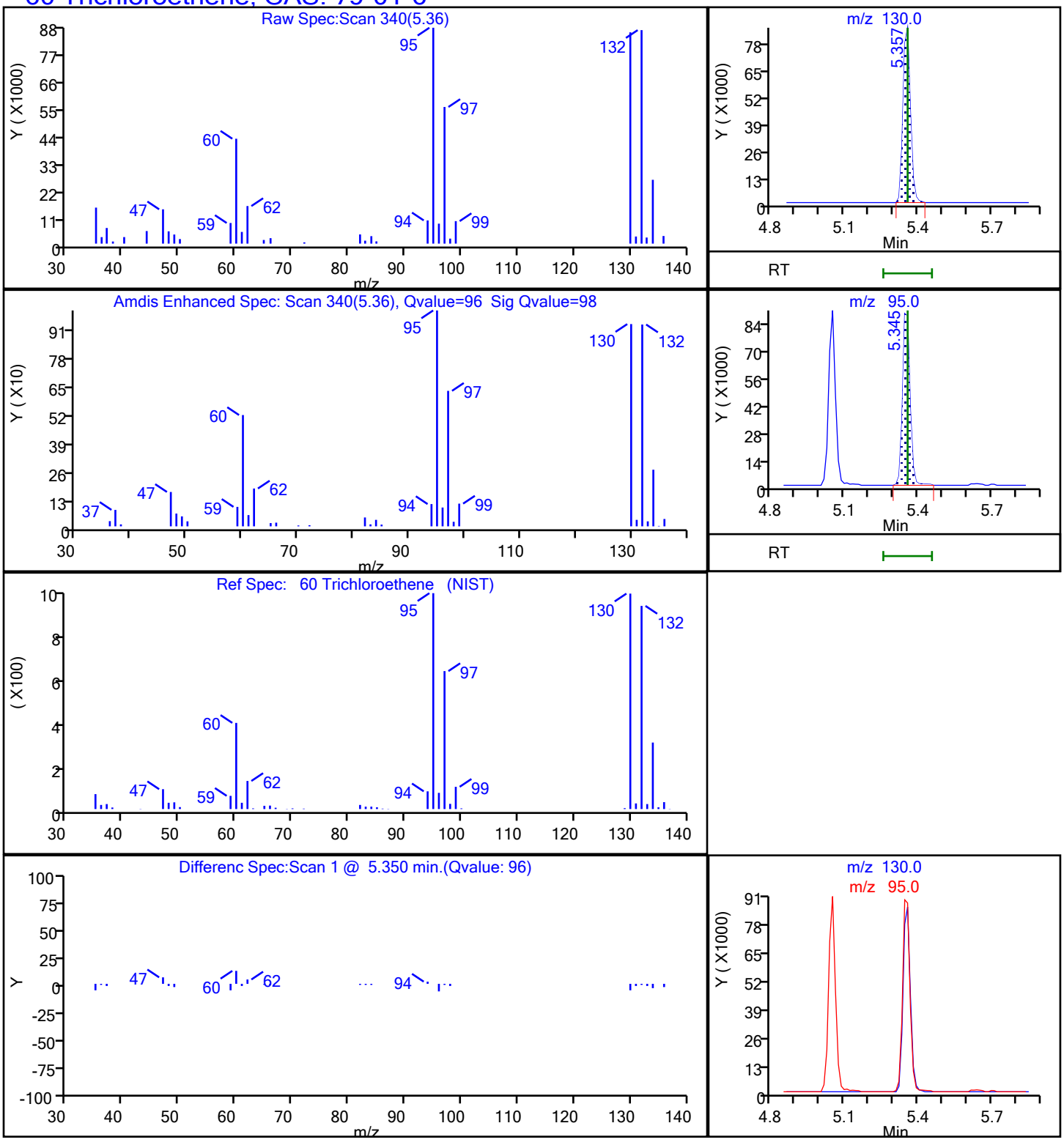
Report Date: 16-Nov-2020 07:53:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D

Injection Date:	15-Nov-2020 16:16:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-7	Lab Sample ID:	240-139669-7		
Client ID:	GW-110320-SS-007				
Operator ID:	43582	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6



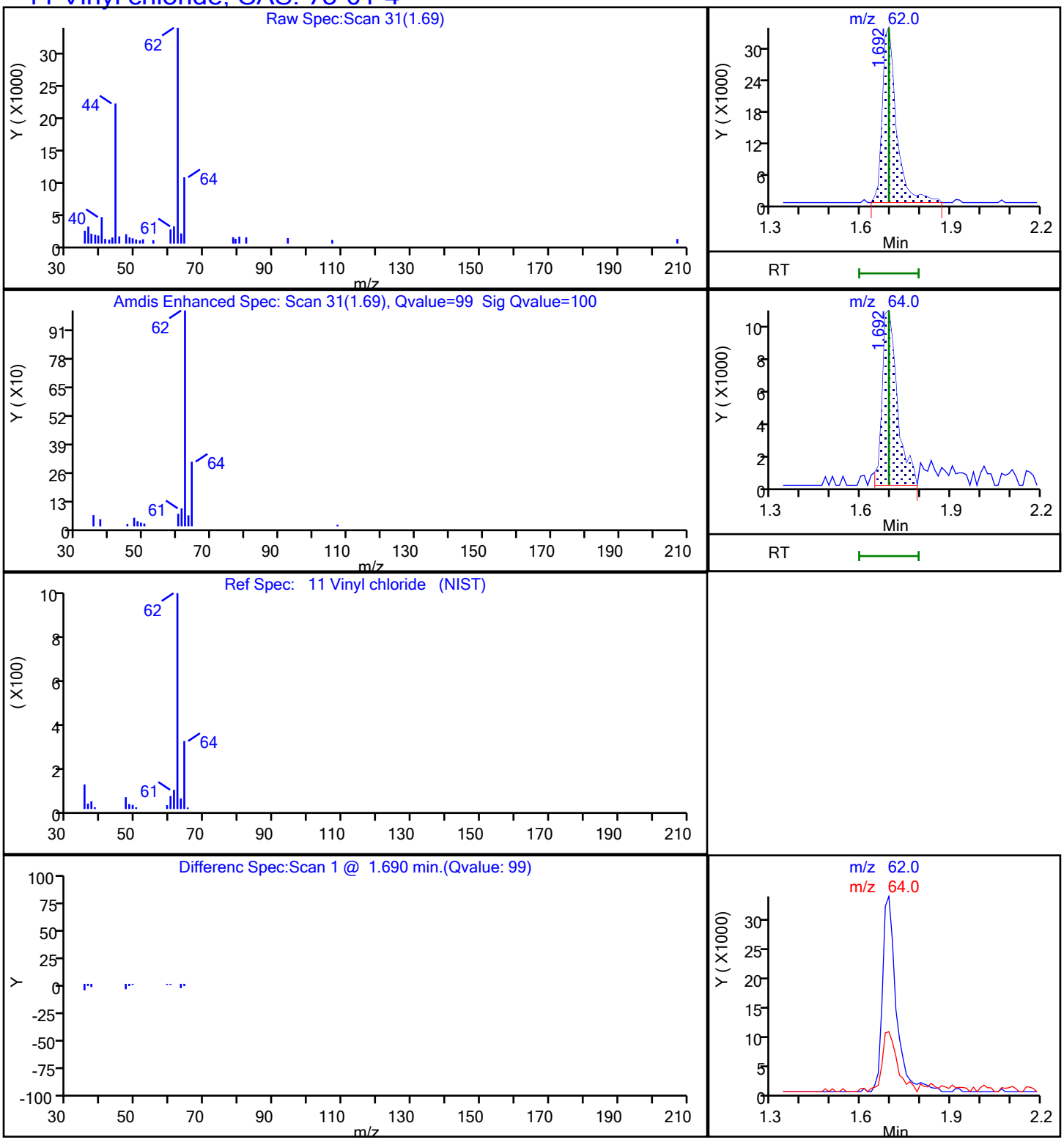
Report Date: 16-Nov-2020 07:53:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3802.D

Injection Date:	15-Nov-2020 16:16:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-7	Lab Sample ID:	240-139669-7		
Client ID:	GW-110320-SS-007				
Operator ID:	43582	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-008 Lab Sample ID: 240-139669-8

Matrix: Water Lab File ID: UXC3803.D

Analysis Method: 8260B Date Collected: 11/03/2020 14:20

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 16:38

Soil Aliquot Vol: Dilution Factor: 142.86

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	140	U	140	34
79-34-5	1,1,2,2-Tetrachloroethane	140	U	140	19
79-00-5	1,1,2-Trichloroethane	140	U *	140	13
75-34-3	1,1-Dichloroethane	110	J	140	24
75-35-4	1,1-Dichloroethene	140	U	140	27
107-06-2	1,2-Dichloroethane	140	U	140	30
78-87-5	1,2-Dichloropropane	140	U	140	21
591-78-6	2-Hexanone	1400	U	1400	77
67-64-1	Acetone	1400	U	1400	770
71-43-2	Benzene	140	U	140	19
75-25-2	Bromoform	140	U	140	110
74-83-9	Bromomethane	140	U	140	60
75-15-0	Carbon disulfide	140	U *	140	40
56-23-5	Carbon tetrachloride	140	U	140	37
108-90-7	Chlorobenzene	140	U	140	20
75-00-3	Chloroethane	140	U	140	120
67-66-3	Chloroform	140	U	140	19
74-87-3	Chloromethane	140	U	140	29
156-59-2	cis-1,2-Dichloroethene	2900		140	23
10061-01-5	cis-1,3-Dichloropropene	140	U	140	87
75-27-4	Dichlorobromomethane	140	U	140	24
100-41-4	Ethylbenzene	140	U	140	16
78-93-3	2-Butanone (MEK)	1400	U	1400	170
108-10-1	4-Methyl-2-pentanone (MIBK)	1400	U	1400	60
75-09-2	Methylene Chloride	710	U	710	370
100-42-5	Styrene	140	U	140	14
127-18-4	Tetrachloroethene	140	U	140	21
108-88-3	Toluene	140	U	140	20
156-60-5	trans-1,2-Dichloroethene	140		140	27
10061-02-6	trans-1,3-Dichloropropene	140	U	140	96
79-01-6	Trichloroethene	140	U	140	14
75-01-4	Vinyl chloride	120	J	140	29
1330-20-7	Xylenes, Total	290	U	290	21
124-48-1	Chlorodibromomethane	140	U	140	56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-008 Lab Sample ID: 240-139669-8

Matrix: Water Lab File ID: UXC3803.D

Analysis Method: 8260B Date Collected: 11/03/2020 14:20

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 16:38

Soil Aliquot Vol: Dilution Factor: 142.86

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	83		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	83		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D
Lims ID: 240-139669-B-8
Client ID: GW-110320-BE-008
Sample Type: Client
Inject. Date: 15-Nov-2020 16:38:30 ALS Bottle#: 25 Worklist Smp#: 53
Purge Vol: 5.000 mL Dil. Factor: 142.8600
Sample Info: 240-0103972-053
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:21 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:46:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	1993602	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1381531	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	552003	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	90	394619	8.32	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	691941	10.6	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1627926	9.49	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	501231	8.34	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.693	1.693	0.000	97	53828	0.8317	
13 Bromomethane	94		1.965				ND	
14 Chloroethane	64		2.037				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	
28 Methylene Chloride	84	3.044	3.056	-0.012	99	22624	0.4303	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	93	55142	1.01	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	67321	0.7381	
40 2-Butanone (MEK)	72		4.100				ND	
41 cis-1,2-Dichloroethene	96	4.088	4.100	-0.012	83	1174492	20.6	
48 Chloroform	83		4.349				ND	7
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	7
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	7
73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

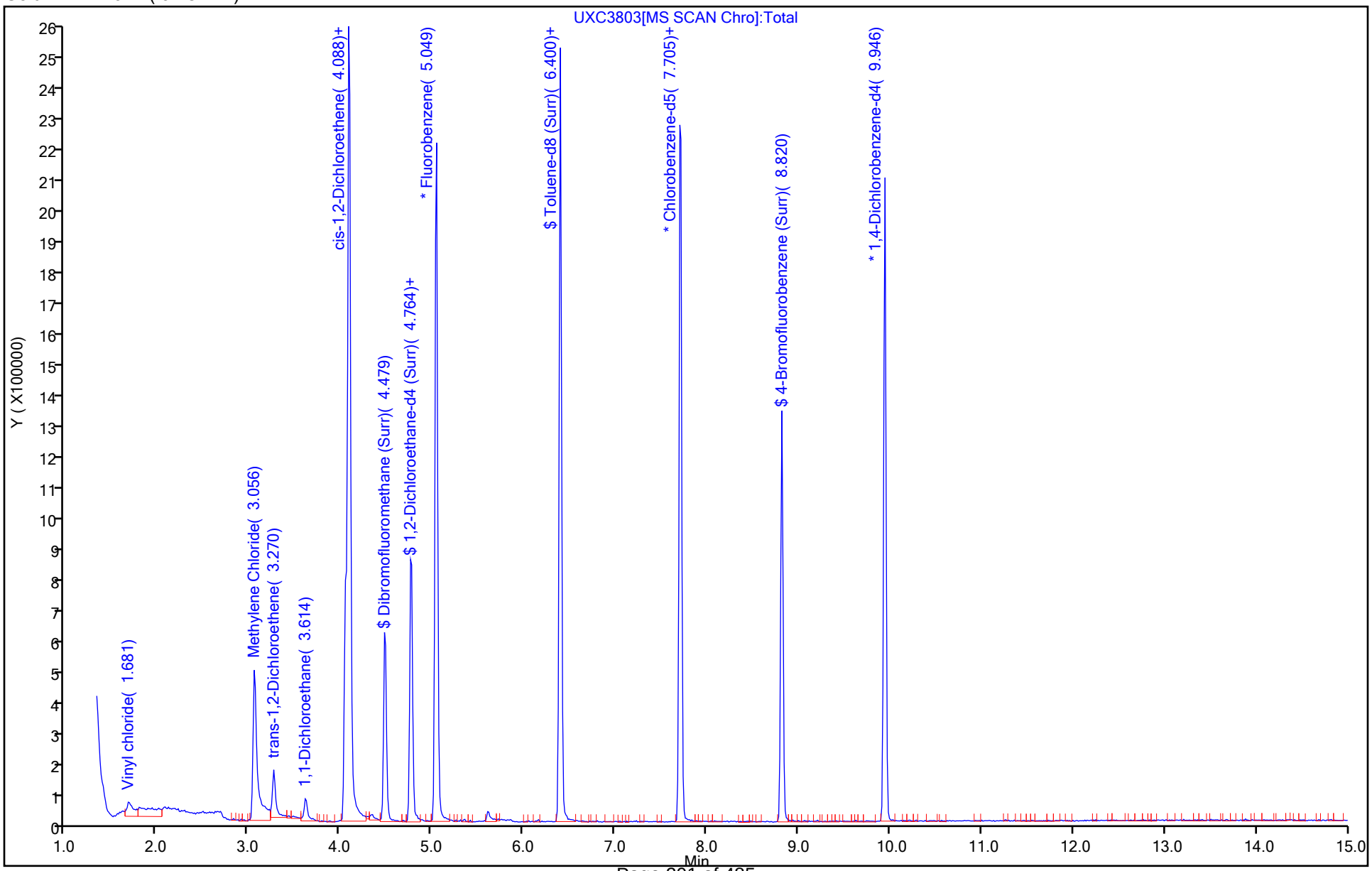
Report Date: 16-Nov-2020 07:53:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D

Injection Date:	15-Nov-2020 16:38:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-8	Lab Sample ID:	240-139669-8	Worklist Smp#:	53
Client ID:	GW-110320-BE-008				
Purge Vol:	5.000 mL	Dil. Factor:	142.8600	ALS Bottle#:	25
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D
Lims ID: 240-139669-B-8
Client ID: GW-110320-BE-008
Sample Type: Client
Inject. Date: 15-Nov-2020 16:38:30 ALS Bottle#: 25 Worklist Smp#: 53
Purge Vol: 5.000 mL Dil. Factor: 142.8600
Sample Info: 240-0103972-053
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:21 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:46:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.32	83.25
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.79
$ 6 Toluene-d8 (Surr)	10.0	9.49	94.88
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.34	83.39

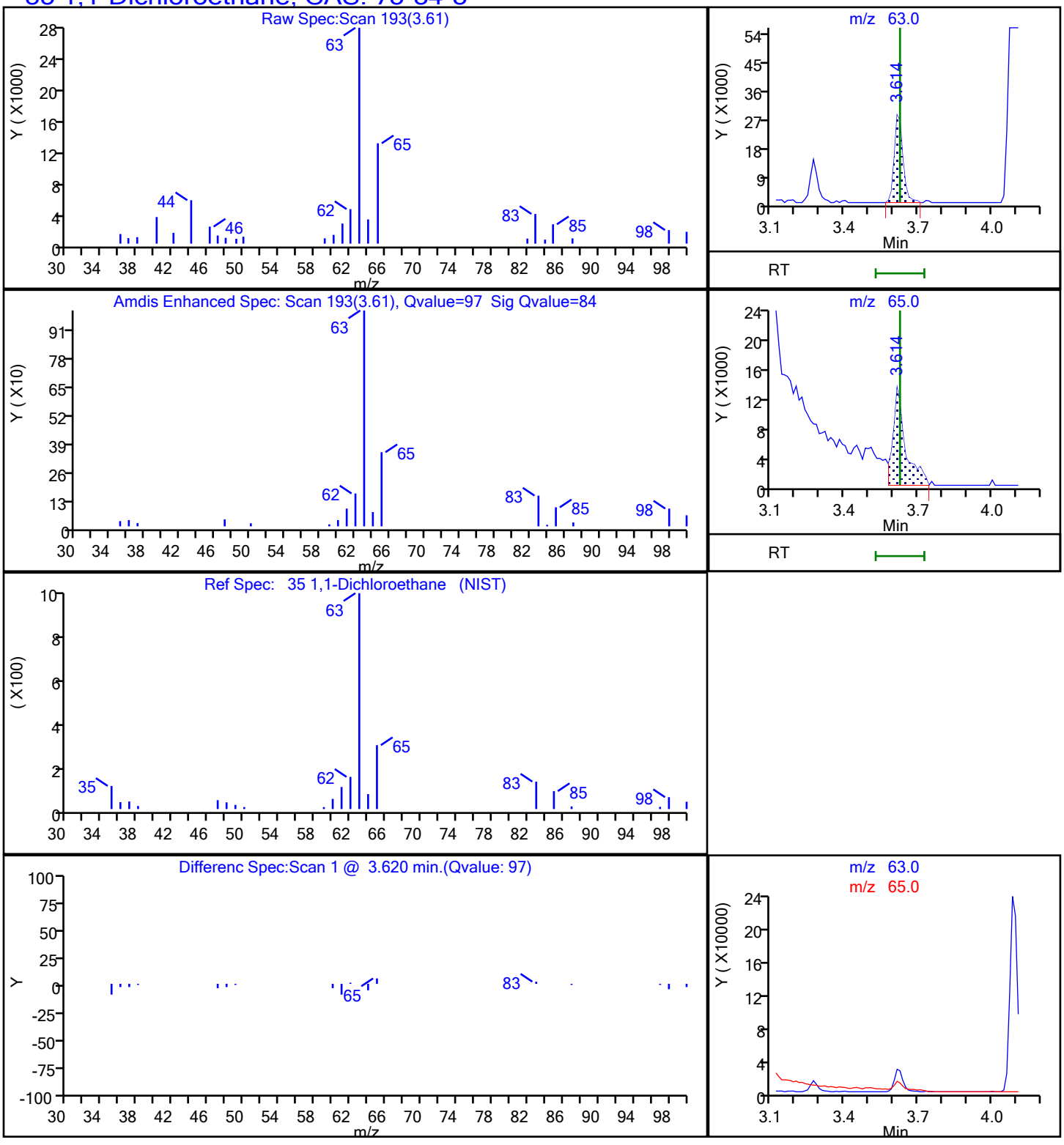
Report Date: 16-Nov-2020 07:53:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D

Injection Date:	15-Nov-2020 16:38:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-8	Lab Sample ID:	240-139669-8		
Client ID:	GW-110320-BE-008				
Operator ID:	43582	ALS Bottle#:	25	Worklist Smp#:	53
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

35 1,1-Dichloroethane, CAS: 75-34-3



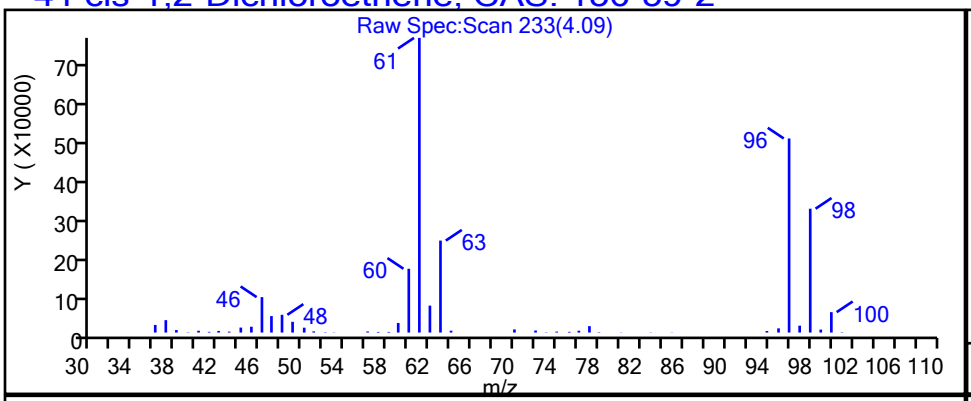
Report Date: 16-Nov-2020 07:53:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

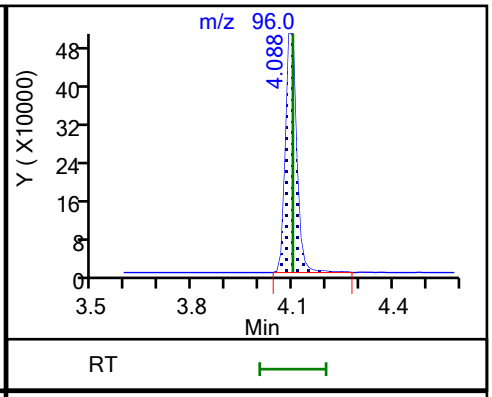
Eurofins TestAmerica, Canton

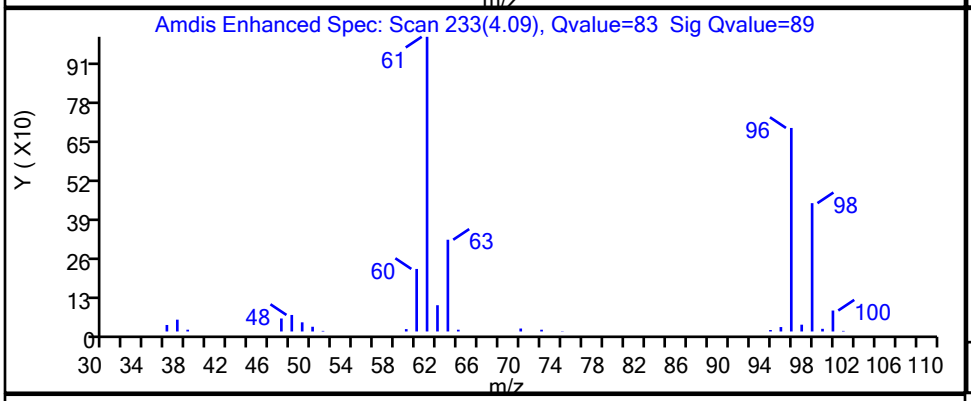
Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D

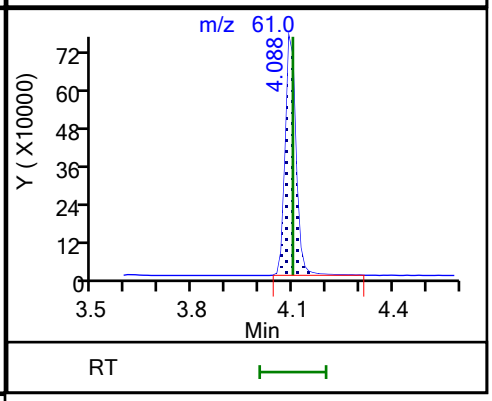
Injection Date:	15-Nov-2020 16:38:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-8	Lab Sample ID:	240-139669-8		
Client ID:	GW-110320-BE-008				
Operator ID:	43582	ALS Bottle#:	25	Worklist Smp#:	53
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

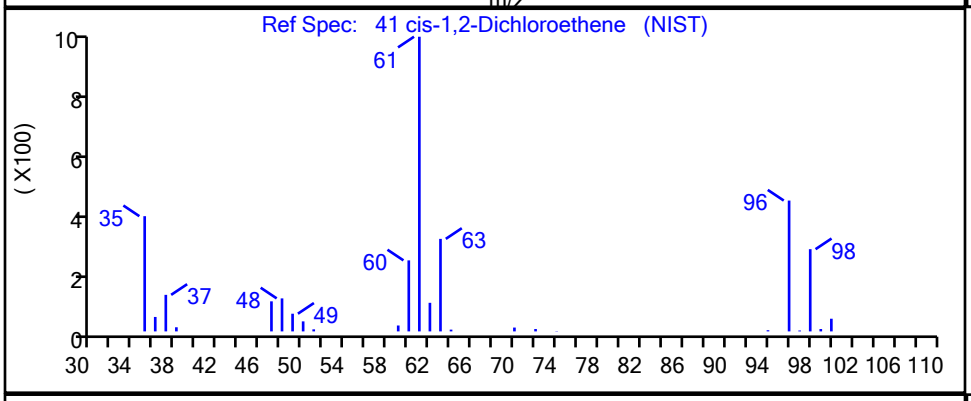
41 cis-1,2-Dichloroethene, CAS: 156-59-2

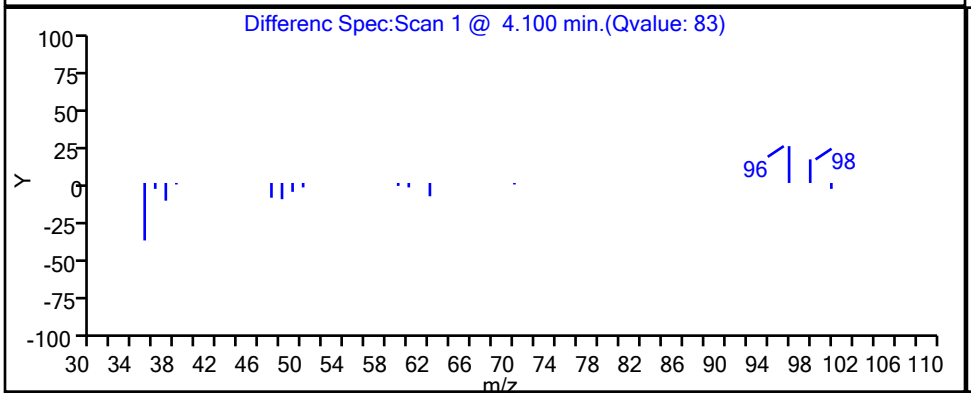


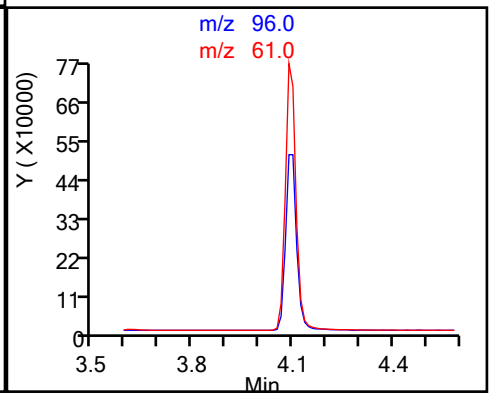












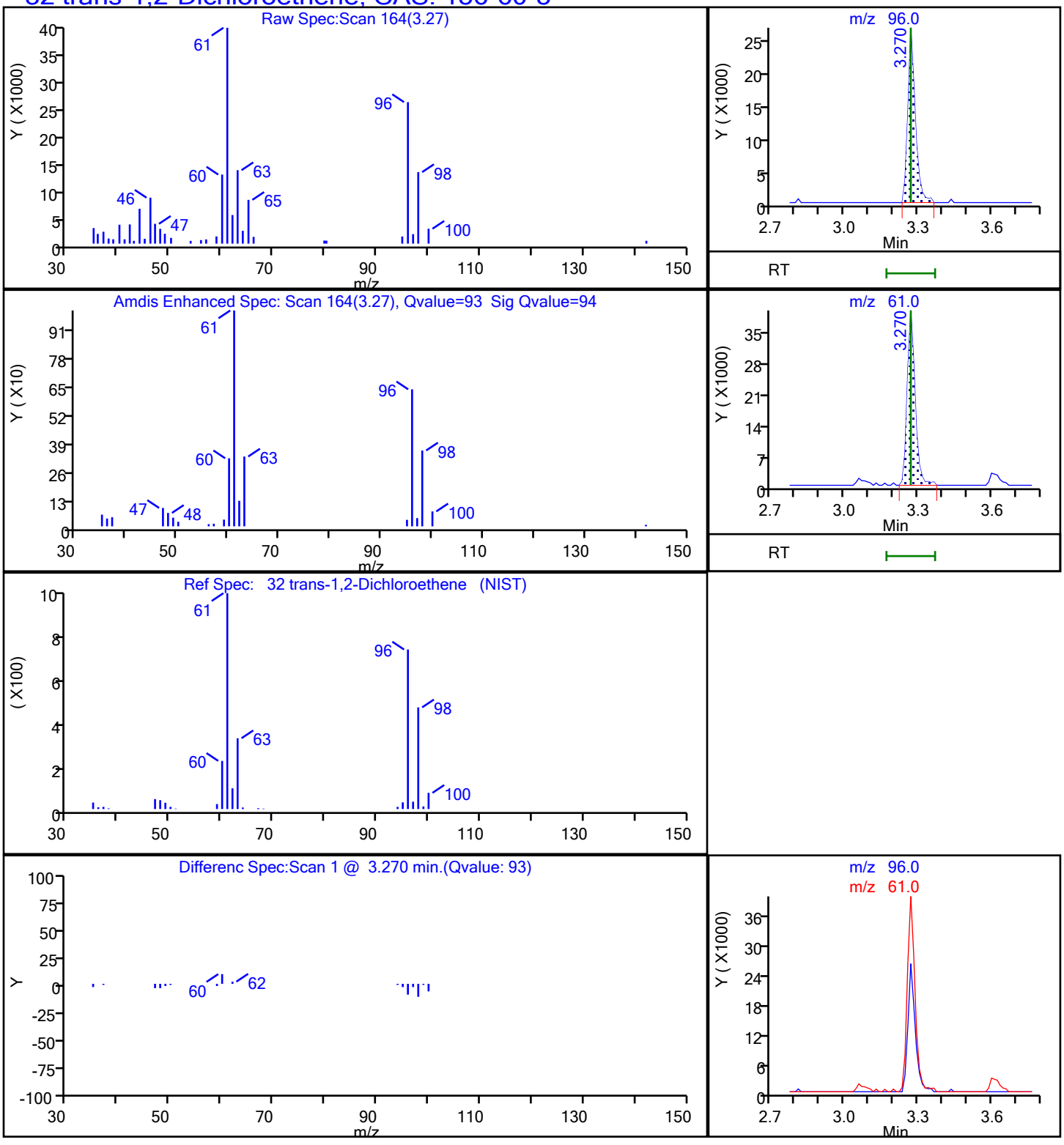
Report Date: 16-Nov-2020 07:53:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D

Injection Date:	15-Nov-2020 16:38:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-8	Lab Sample ID:	240-139669-8		
Client ID:	GW-110320-BE-008				
Operator ID:	43582	ALS Bottle#:	25	Worklist Smp#:	53
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



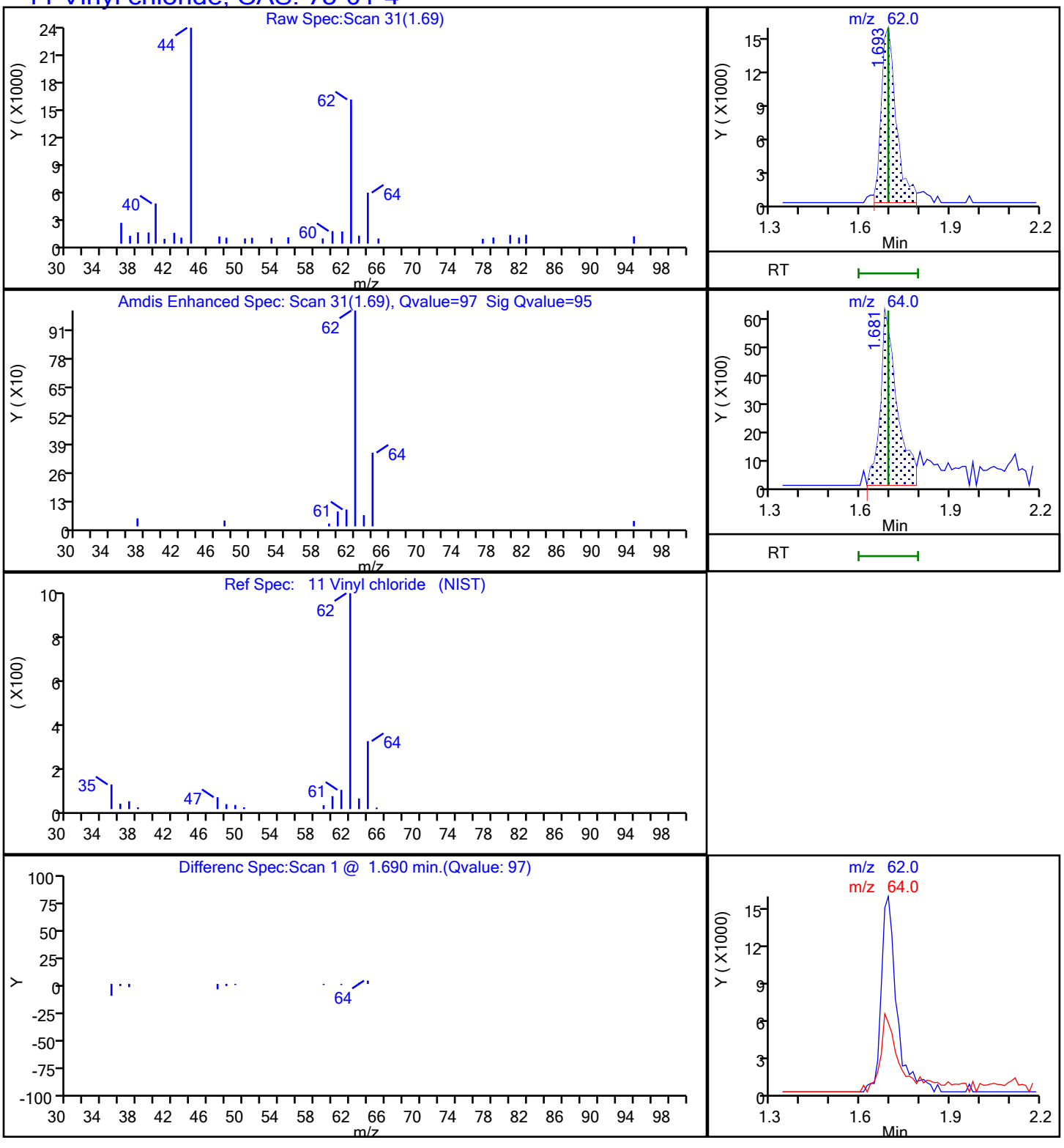
Report Date: 16-Nov-2020 07:53:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3803.D

Injection Date:	15-Nov-2020 16:38:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-8	Lab Sample ID:	240-139669-8		
Client ID:	GW-110320-BE-008				
Operator ID:	43582	ALS Bottle#:	25	Worklist Smp#:	53
Purge Vol:	5.000 mL	Dil. Factor:	142.8600		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-009 Lab Sample ID: 240-139669-9

Matrix: Water Lab File ID: UXC3829.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:04

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 17:13

Soil Aliquot Vol: Dilution Factor: 333.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	330	U	330	80
79-34-5	1,1,2,2-Tetrachloroethane	330	U *	330	43
79-00-5	1,1,2-Trichloroethane	330	U *	330	30
75-34-3	1,1-Dichloroethane	270	J	330	57
75-35-4	1,1-Dichloroethene	330	U	330	63
107-06-2	1,2-Dichloroethane	330	U	330	70
78-87-5	1,2-Dichloropropane	330	U	330	50
591-78-6	2-Hexanone	3300	U *	3300	180
67-64-1	Acetone	3300	U	3300	1800
71-43-2	Benzene	330	U	330	43
75-25-2	Bromoform	330	U	330	250
74-83-9	Bromomethane	330	U	330	140
75-15-0	Carbon disulfide	330	U	330	93
56-23-5	Carbon tetrachloride	330	U	330	87
108-90-7	Chlorobenzene	330	U	330	47
75-00-3	Chloroethane	330	U	330	280
67-66-3	Chloroform	330	U	330	43
74-87-3	Chloromethane	330	U	330	67
156-59-2	cis-1,2-Dichloroethene	6100		330	53
10061-01-5	cis-1,3-Dichloropropene	330	U	330	200
75-27-4	Dichlorobromomethane	330	U	330	57
100-41-4	Ethylbenzene	330	U	330	37
78-93-3	2-Butanone (MEK)	3300	U	3300	390
108-10-1	4-Methyl-2-pentanone (MIBK)	3300	U	3300	140
75-09-2	Methylene Chloride	1700	U	1700	870
100-42-5	Styrene	330	U	330	33
127-18-4	Tetrachloroethene	330	U	330	50
108-88-3	Toluene	330	U *	330	47
156-60-5	trans-1,2-Dichloroethene	190	J	330	63
10061-02-6	trans-1,3-Dichloropropene	330	U	330	220
79-01-6	Trichloroethene	330	U	330	33
75-01-4	Vinyl chloride	560		330	67
1330-20-7	Xylenes, Total	670	U	670	50
124-48-1	Chlorodibromomethane	330	U	330	130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110320-BE-009 Lab Sample ID: 240-139669-9

Matrix: Water Lab File ID: UXC3829.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:04

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 17:13

Soil Aliquot Vol: Dilution Factor: 333.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	85		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	86		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D
Lims ID: 240-139669-A-9
Client ID: GW-110320-BE-009
Sample Type: Client
Inject. Date: 16-Nov-2020 17:13:30 ALS Bottle#: 20 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 333.3300
Sample Info: 240-0103981-048
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:00

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.049	5.049	0.000	98	2035817	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1465705	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	597990	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.491	4.479	0.012	92	416148	8.60	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.764	0.012	99	714072	10.7	
$	6 Toluene-d8 (Surr)	98	6.401	6.401	0.000	95	1724640	9.47	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	539833	8.47	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62	1.693	1.693	0.000	99	110750	1.68	
	13 Bromomethane	94		1.954				ND	
	14 Chloroethane	64		2.025				ND	
	19 1,1-Dichloroethene	96		2.653				ND	7
	21 Acetone	58		2.689				ND	7
	24 Carbon disulfide	76		2.843				ND	
	28 Methylene Chloride	84		3.045				ND	
	32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	92	32475	0.5800	
	35 1,1-Dichloroethane	63	3.626	3.614	0.012	97	76068	0.8167	
	41 cis-1,2-Dichloroethene	96	4.100	4.088	0.012	83	1067458	18.3	
	40 2-Butanone (MEK)	72		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.515				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.823				ND	
	56 1,2-Dichloroethane	62		4.835				ND	
	60 Trichloroethene	130		5.357				ND	
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	
	73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.741				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

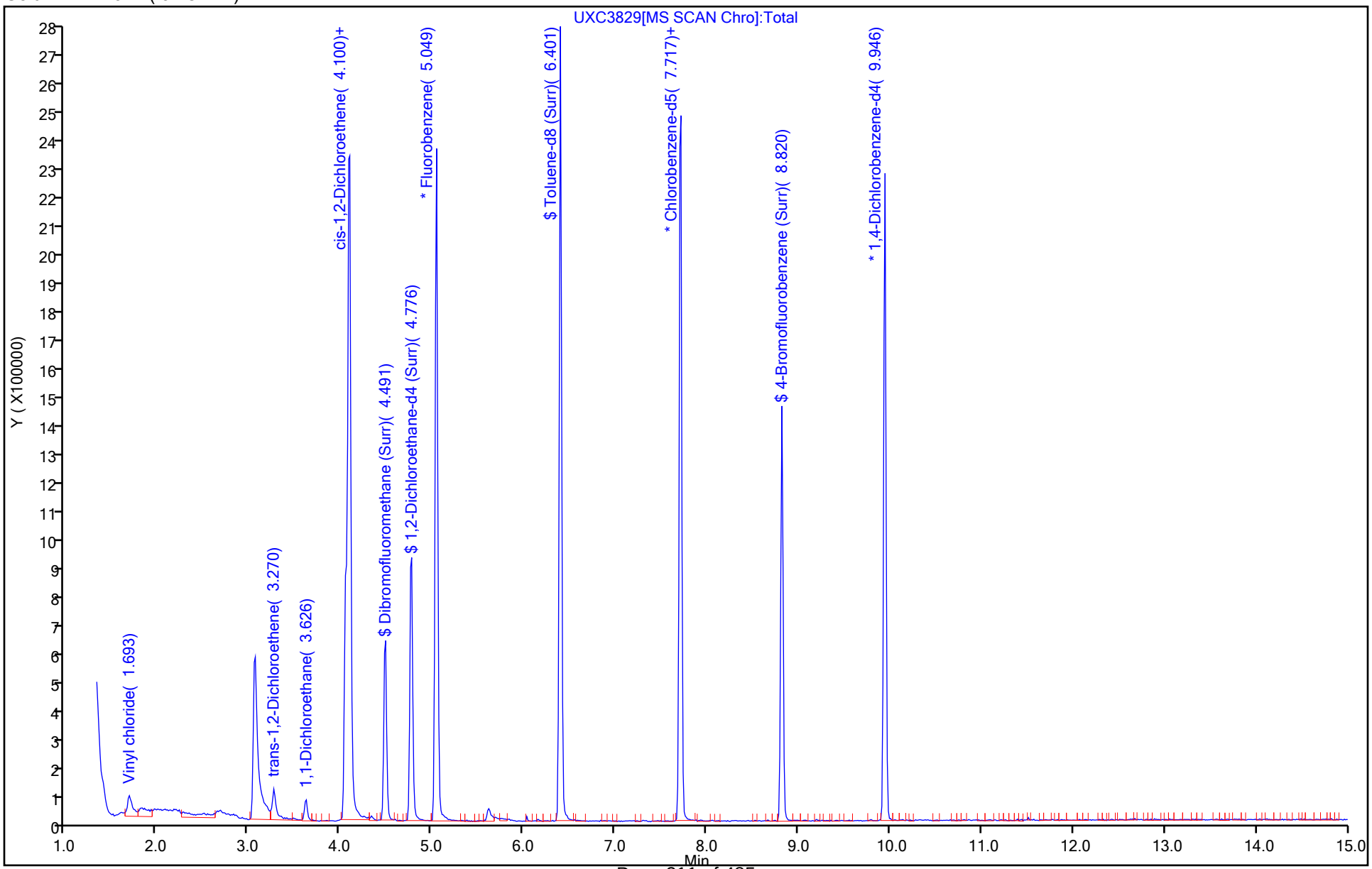
Report Date: 17-Nov-2020 08:57:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D

Injection Date:	16-Nov-2020 17:13:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-A-9	Lab Sample ID:	240-139669-9	Worklist Smp#:	48
Client ID:	GW-110320-BE-009				
Purge Vol:	5.000 mL	Dil. Factor:	333.3300	ALS Bottle#:	20
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D				
Lims ID:	240-139669-A-9				
Client ID:	GW-110320-BE-009				
Sample Type:	Client				
Inject. Date:	16-Nov-2020 17:13:30	ALS Bottle#:	20	Worklist Smp#:	48
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Sample Info:	240-0103981-048				
Misc. Info.:	C201116A,8260LLUX15,,43582				
Operator ID:	43582	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	17-Nov-2020 08:57:09	Calib Date:	15-Jul-2020 13:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.60	85.97
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.91
$ 6 Toluene-d8 (Surr)	10.0	9.47	94.74
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.47	84.65

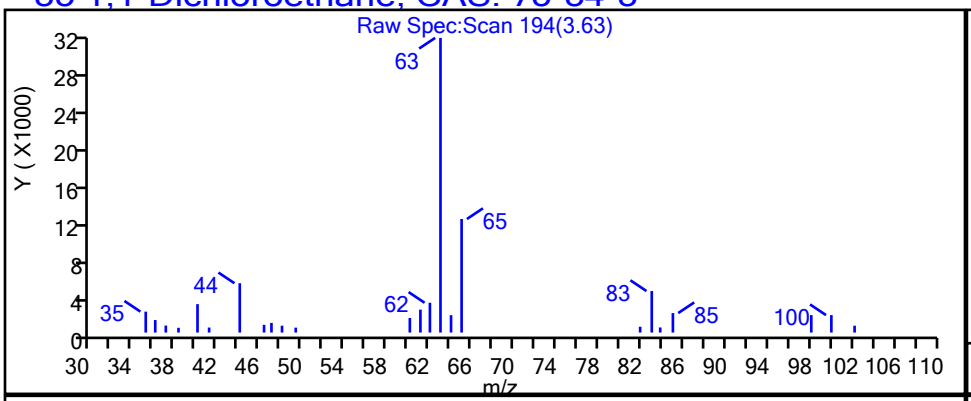
Report Date: 17-Nov-2020 08:57:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

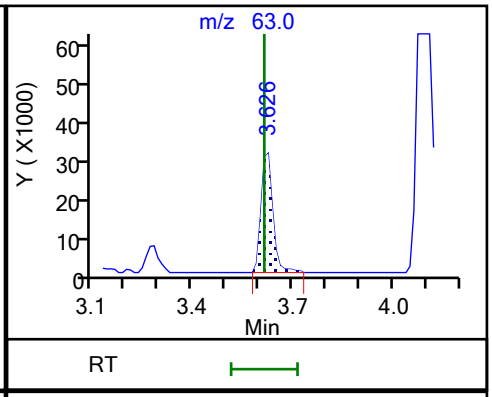
Eurofins TestAmerica, Canton

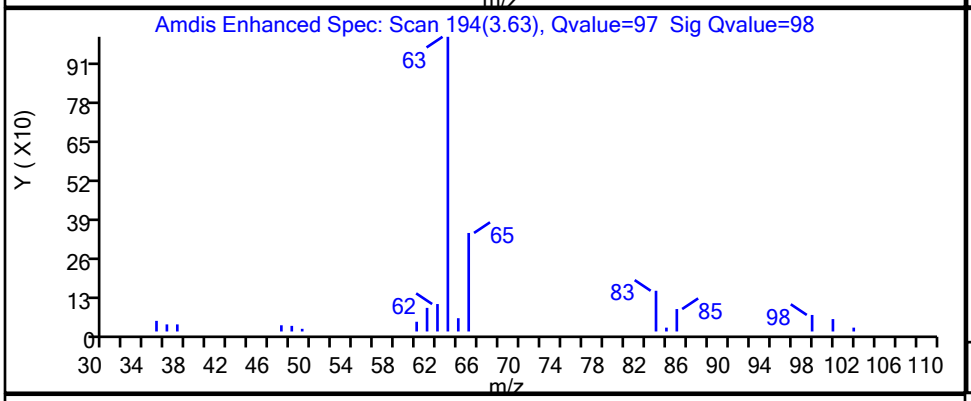
Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D

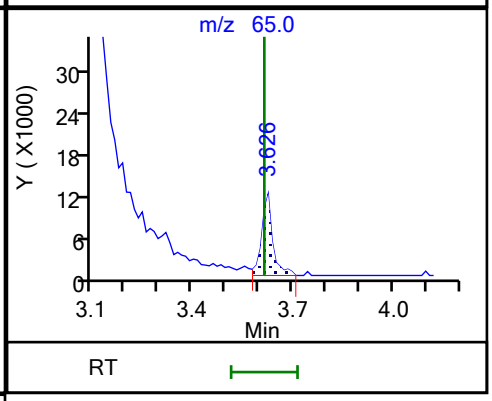
Injection Date:	16-Nov-2020 17:13:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-A-9	Lab Sample ID:	240-139669-9		
Client ID:	GW-110320-BE-009				
Operator ID:	43582	ALS Bottle#:	20	Worklist Smp#:	48
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

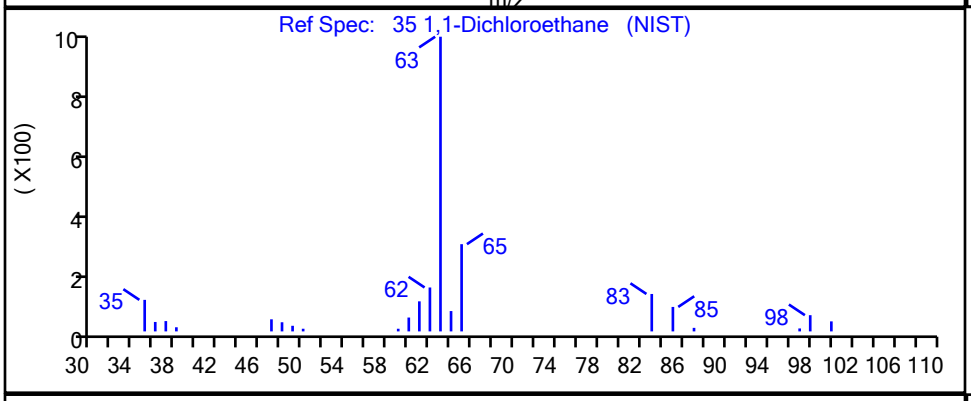
35 1,1-Dichloroethane, CAS: 75-34-3

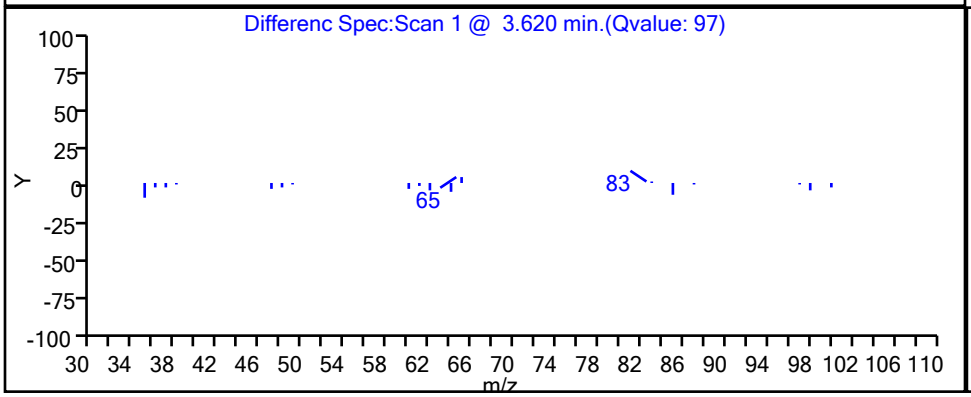


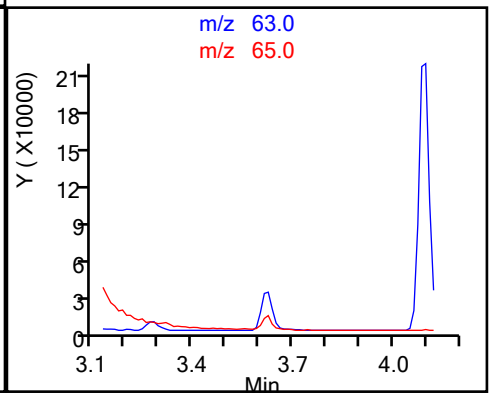










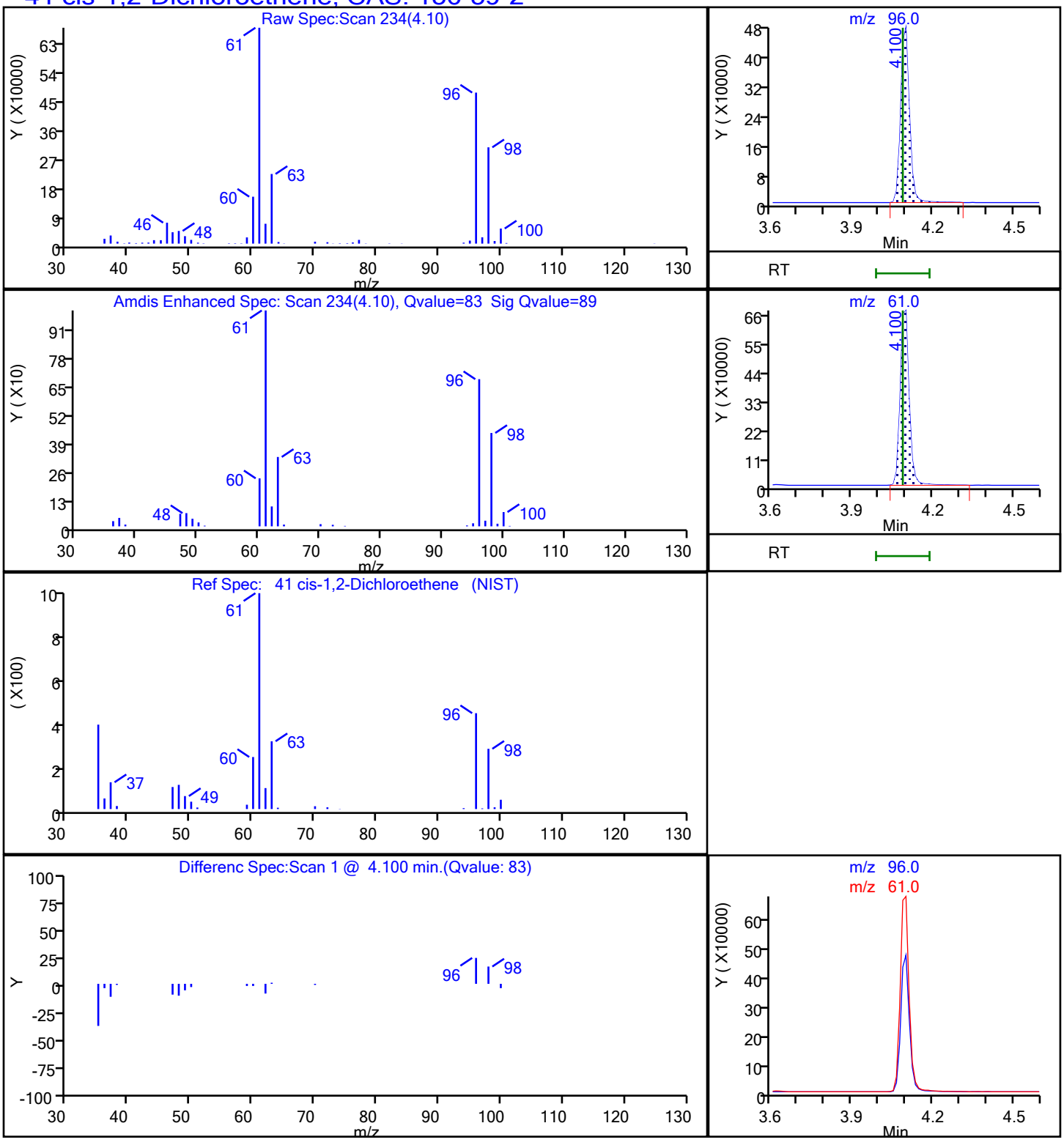


Report Date: 17-Nov-2020 08:57:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D				
Injection Date:	16-Nov-2020 17:13:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-A-9	Lab Sample ID:	240-139669-9		
Client ID:	GW-110320-BE-009				
Operator ID:	43582	ALS Bottle#:	20	Worklist Smp#:	48
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2

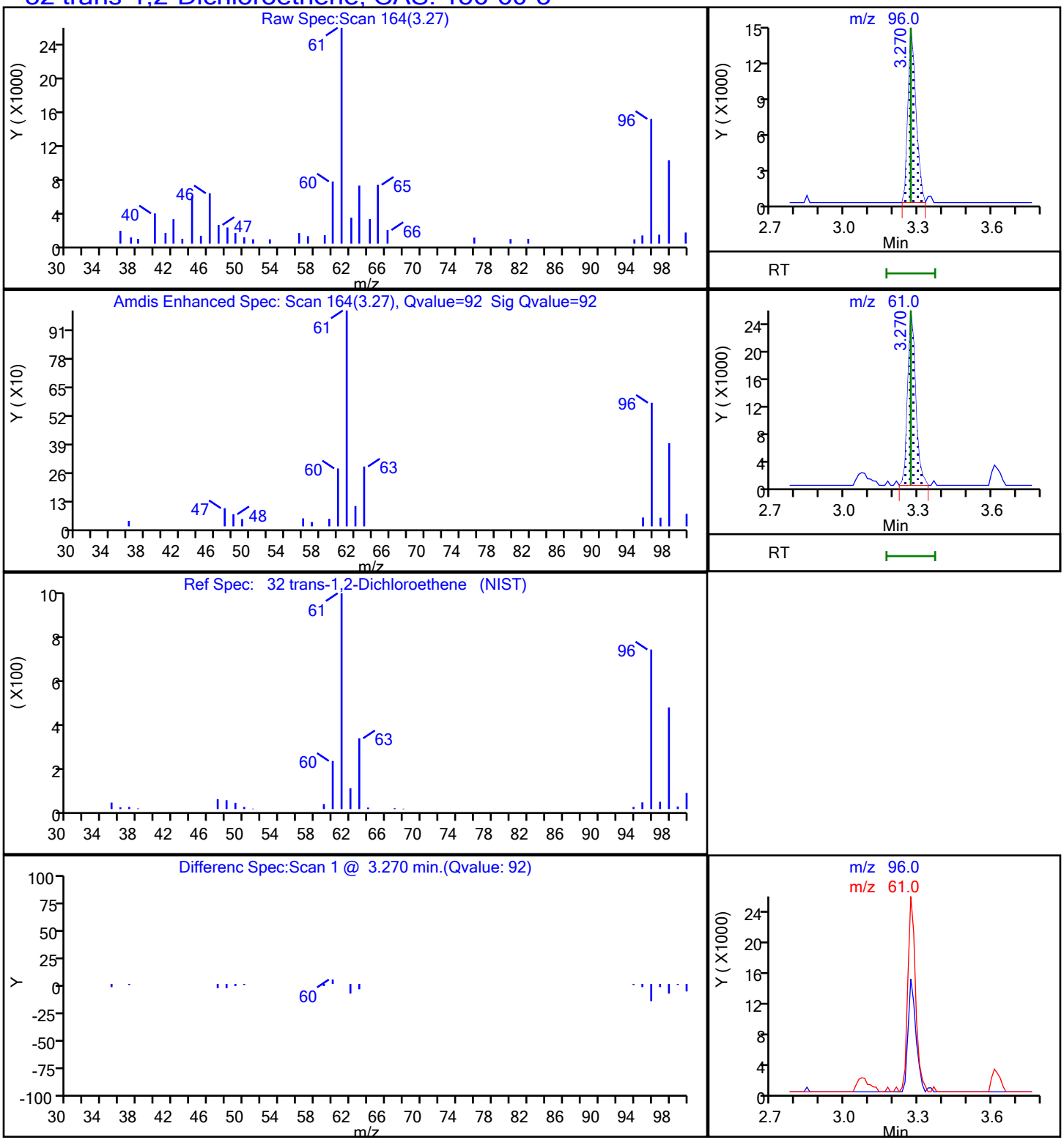


Report Date: 17-Nov-2020 08:57:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D				
Injection Date:	16-Nov-2020 17:13:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-A-9	Lab Sample ID:	240-139669-9		
Client ID:	GW-110320-BE-009				
Operator ID:	43582	ALS Bottle#:	20	Worklist Smp#:	48
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



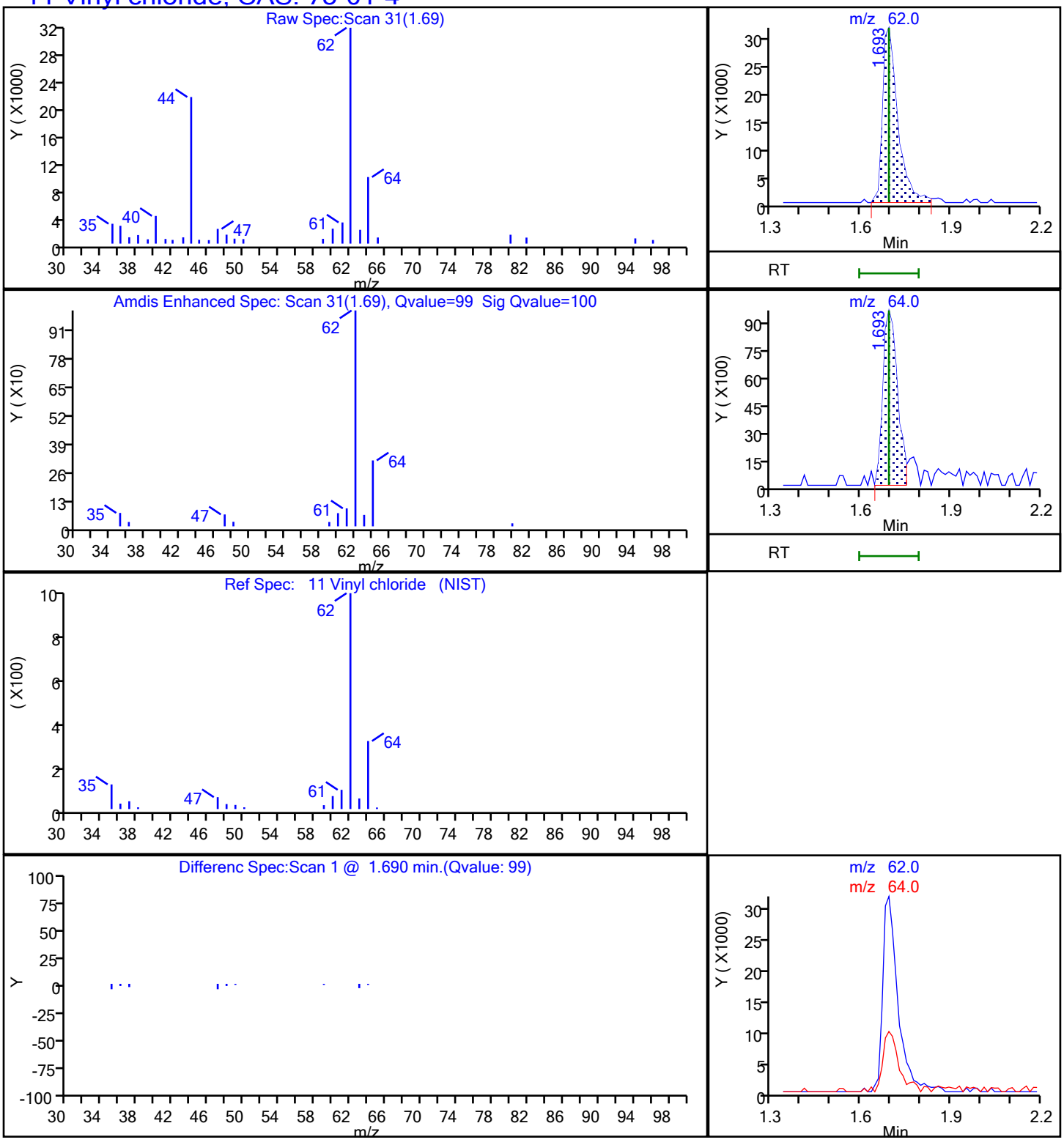
Report Date: 17-Nov-2020 08:57:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3829.D

Injection Date:	16-Nov-2020 17:13:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-A-9	Lab Sample ID:	240-139669-9		
Client ID:	GW-110320-BE-009				
Operator ID:	43582	ALS Bottle#:	20	Worklist Smp#:	48
Purge Vol:	5.000 mL	Dil. Factor:	333.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-010 Lab Sample ID: 240-139669-10

Matrix: Water Lab File ID: UXC3830.D

Analysis Method: 8260B Date Collected: 11/04/2020 10:29

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 17:40

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.5	U	2.5	0.60
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U *	2.5	0.33
79-00-5	1,1,2-Trichloroethane	2.5	U *	2.5	0.23
75-34-3	1,1-Dichloroethane	0.74	J	2.5	0.43
75-35-4	1,1-Dichloroethene	2.5	U	2.5	0.48
107-06-2	1,2-Dichloroethane	2.5	U	2.5	0.53
78-87-5	1,2-Dichloropropane	2.5	U	2.5	0.38
591-78-6	2-Hexanone	25	U *	25	1.4
67-64-1	Acetone	25	U	25	14
71-43-2	Benzene	2.5	U	2.5	0.33
75-25-2	Bromoform	2.5	U	2.5	1.9
74-83-9	Bromomethane	2.5	U	2.5	1.1
75-15-0	Carbon disulfide	2.5	U	2.5	0.70
56-23-5	Carbon tetrachloride	2.5	U	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	2.5	0.35
75-00-3	Chloroethane	2.5	U	2.5	2.1
67-66-3	Chloroform	2.5	U	2.5	0.33
74-87-3	Chloromethane	2.5	U	2.5	0.50
156-59-2	cis-1,2-Dichloroethene	72		2.5	0.40
10061-01-5	cis-1,3-Dichloropropene	2.5	U	2.5	1.5
75-27-4	Dichlorobromomethane	2.5	U	2.5	0.43
100-41-4	Ethylbenzene	2.5	U	2.5	0.28
78-93-3	2-Butanone (MEK)	25	U	25	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.1
75-09-2	Methylene Chloride	13	U	13	6.6
100-42-5	Styrene	2.5	U	2.5	0.25
127-18-4	Tetrachloroethene	2.5	U	2.5	0.38
108-88-3	Toluene	2.5	U *	2.5	0.35
156-60-5	trans-1,2-Dichloroethene	0.89	J	2.5	0.48
10061-02-6	trans-1,3-Dichloropropene	2.5	U	2.5	1.7
79-01-6	Trichloroethene	0.28	J	2.5	0.25
75-01-4	Vinyl chloride	0.50	J	2.5	0.50
1330-20-7	Xylenes, Total	5.0	U	5.0	0.38
124-48-1	Chlorodibromomethane	2.5	U	2.5	0.98

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-010 Lab Sample ID: 240-139669-10

Matrix: Water Lab File ID: UXC3830.D

Analysis Method: 8260B Date Collected: 11/04/2020 10:29

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 17:40

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	85		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D
Lims ID: 240-139669-B-10
Client ID: GW-110420-BE-010
Sample Type: Client
Inject. Date: 16-Nov-2020 17:40:30 ALS Bottle#: 21 Worklist Smp#: 49
Purge Vol: 5.000 mL Dil. Factor: 2.5000
Sample Info: 240-0103981-049
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	98	2073126	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1479062	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	575732	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	417970	8.48	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.764	0.012	99	719733	10.6	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1701515	9.26	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	79	527272	8.19	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.693	1.693	0.000	94	13506	0.2007	
13 Bromomethane	94		1.954				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96		2.653				ND	7
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	95	20341	0.3568	
35 1,1-Dichloroethane	63	3.626	3.614	0.012	96	28138	0.2967	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	83	1700969	28.7	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	7
60 Trichloroethene	130	5.357	5.357	0.000	94	6893	0.1136	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	7
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.741				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

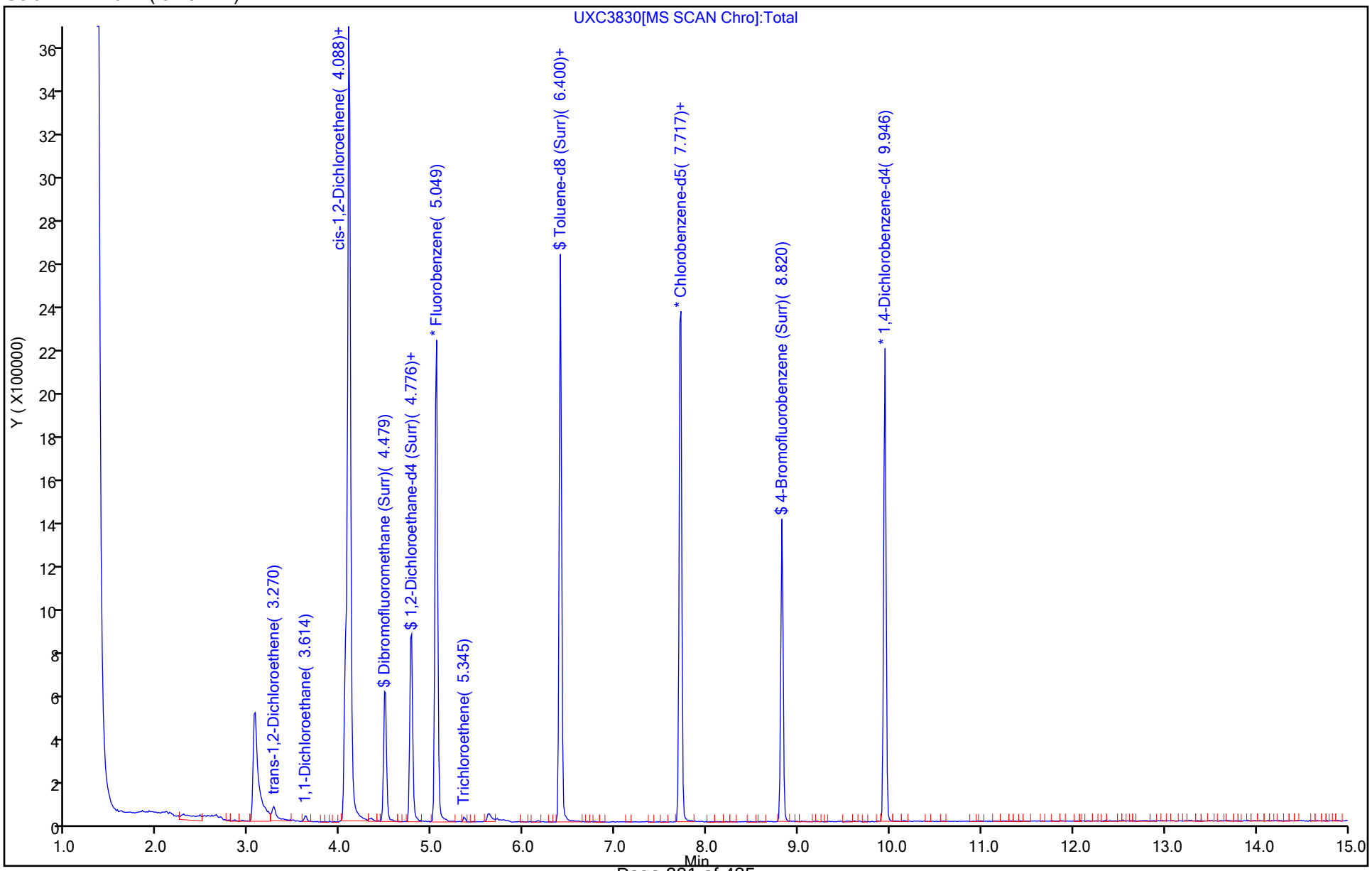
Report Date: 17-Nov-2020 08:57:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D

Injection Date:	16-Nov-2020 17:40:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-10	Lab Sample ID:	240-139669-10	Worklist Smp#:	49
Client ID:	GW-110420-BE-010				
Purge Vol:	5.000 mL	Dil. Factor:	2.5000	ALS Bottle#:	21
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D
Lims ID: 240-139669-B-10
Client ID: GW-110420-BE-010
Sample Type: Client
Inject. Date: 16-Nov-2020 17:40:30 ALS Bottle#: 21 Worklist Smp#: 49
Purge Vol: 5.000 mL Dil. Factor: 2.5000
Sample Info: 240-0103981-049
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.48	84.79
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.82
$ 6 Toluene-d8 (Surr)	10.0	9.26	92.63
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.19	81.94

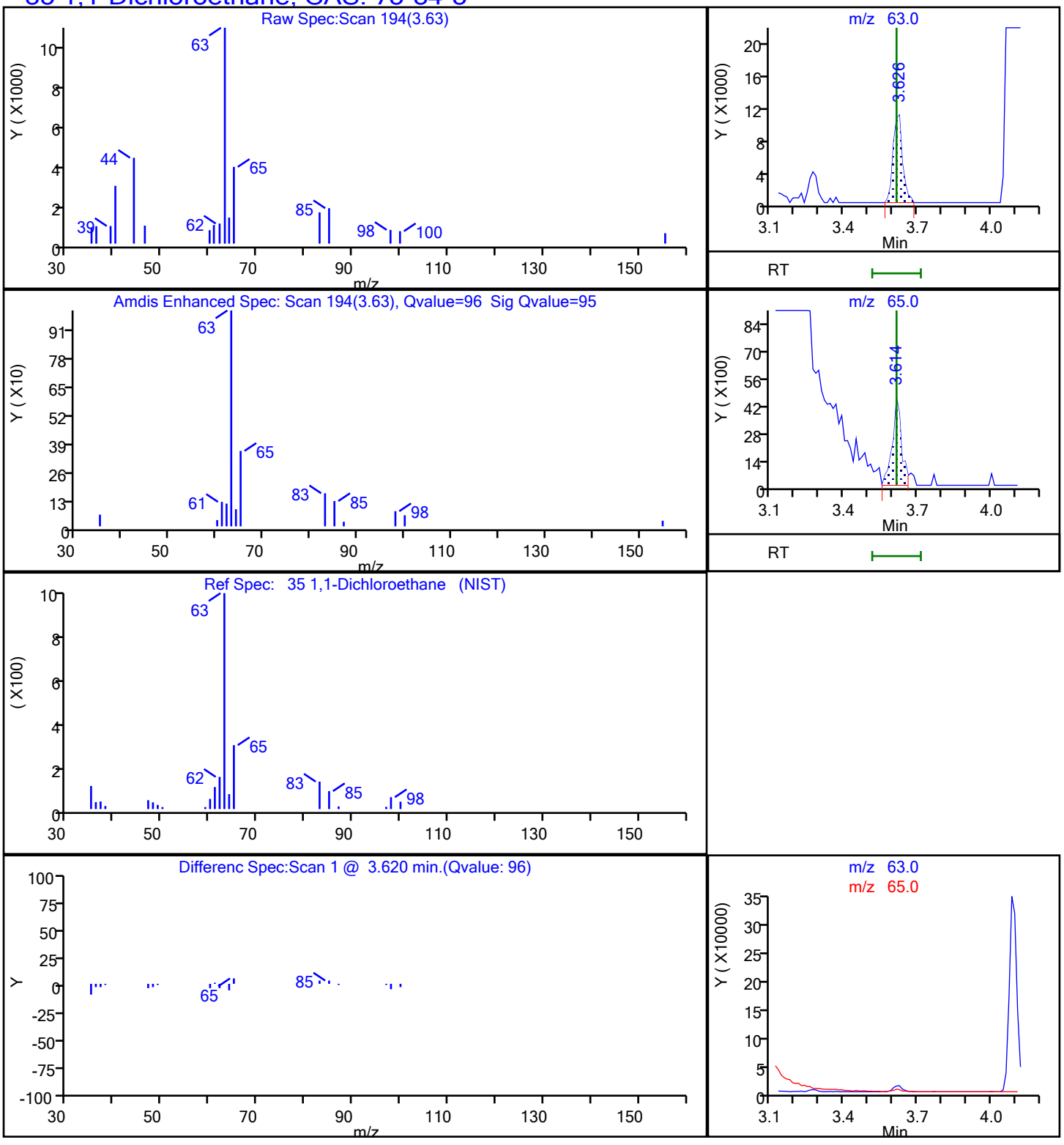
Report Date: 17-Nov-2020 08:57:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D

Injection Date:	16-Nov-2020 17:40:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-10	Lab Sample ID:	240-139669-10		
Client ID:	GW-110420-BE-010				
Operator ID:	43582	ALS Bottle#:	21	Worklist Smp#:	49
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

35 1,1-Dichloroethane, CAS: 75-34-3



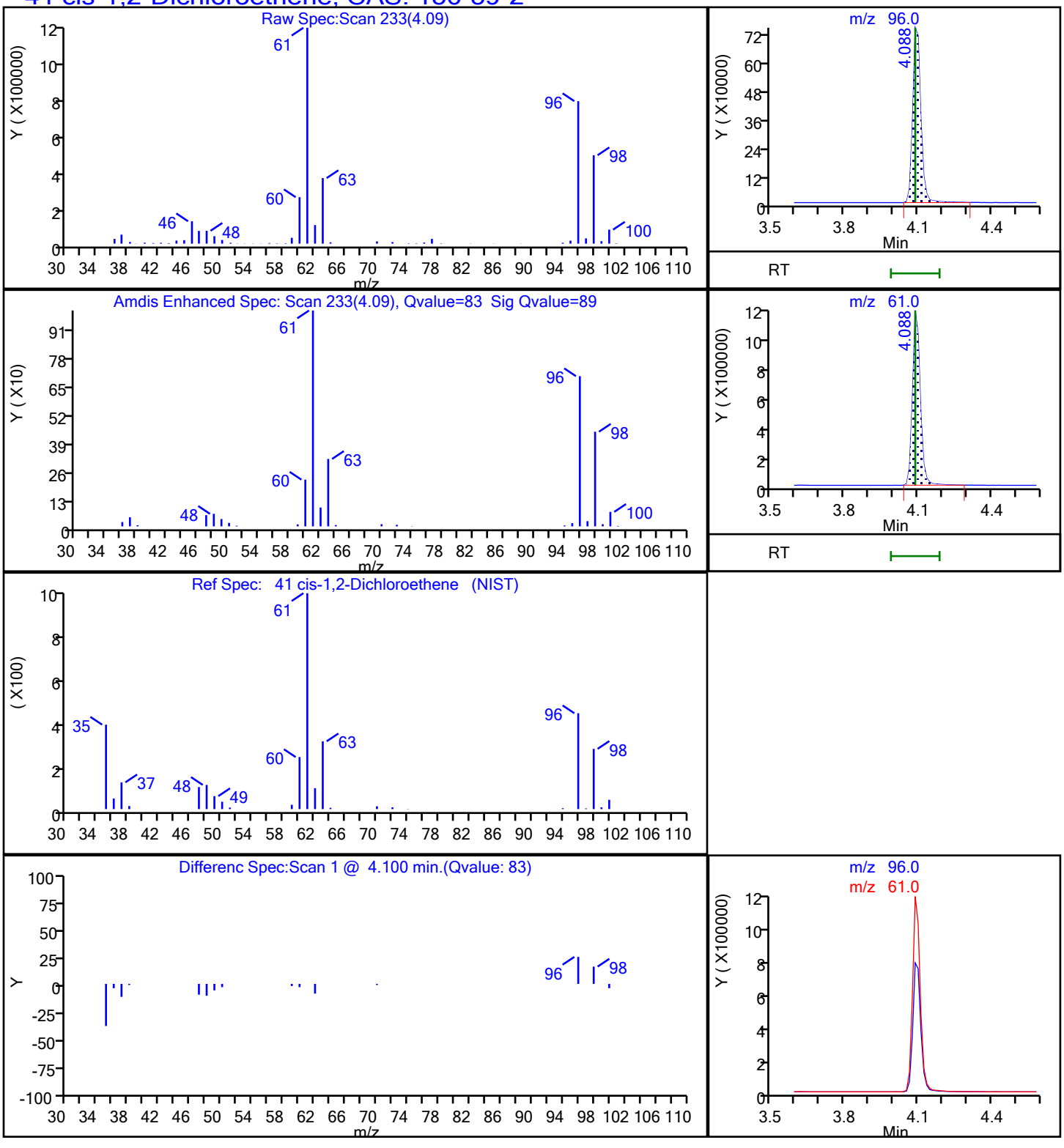
Report Date: 17-Nov-2020 08:57:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D

Injection Date:	16-Nov-2020 17:40:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-10	Lab Sample ID:	240-139669-10		
Client ID:	GW-110420-BE-010				
Operator ID:	43582	ALS Bottle#:	21	Worklist Smp#:	49
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2

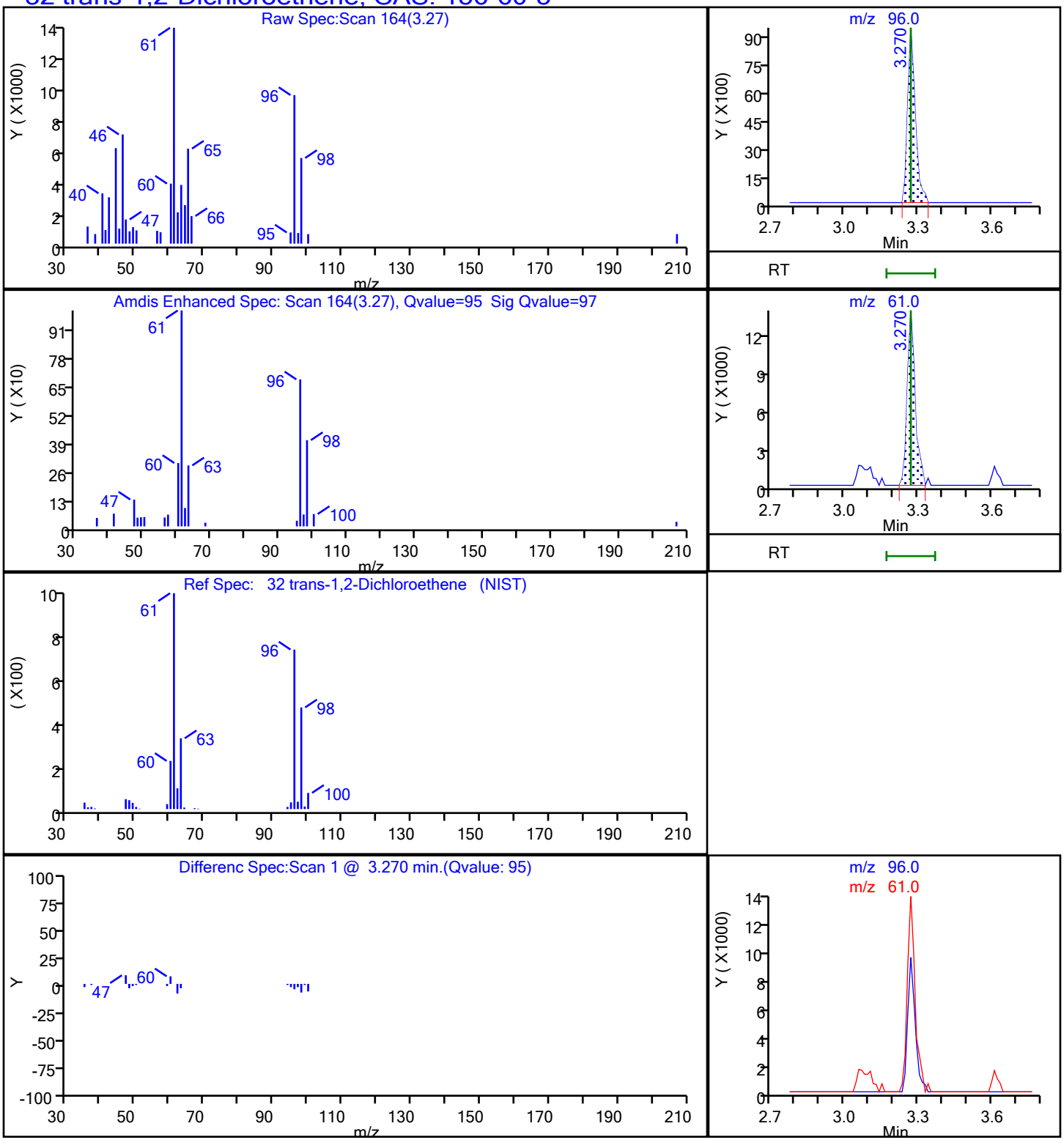


Report Date: 17-Nov-2020 08:57:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D				
Injection Date:	16-Nov-2020 17:40:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-10	Lab Sample ID:	240-139669-10		
Client ID:	GW-110420-BE-010				
Operator ID:	43582	ALS Bottle#:	21	Worklist Smp#:	49
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



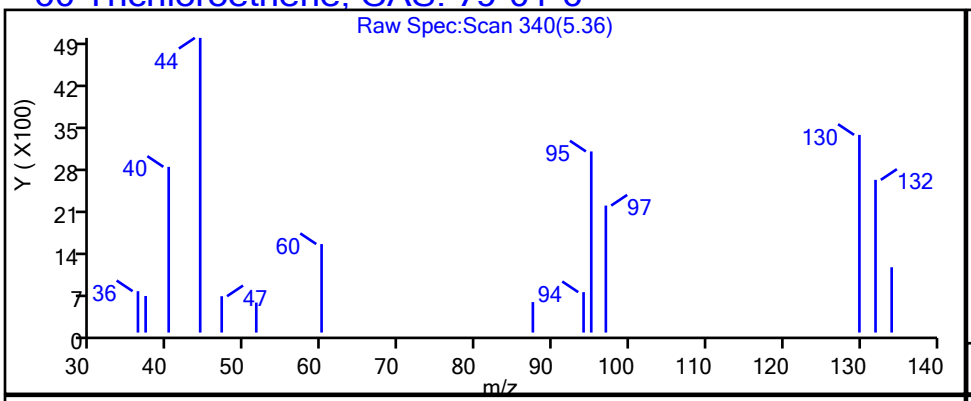
Report Date: 17-Nov-2020 08:57:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

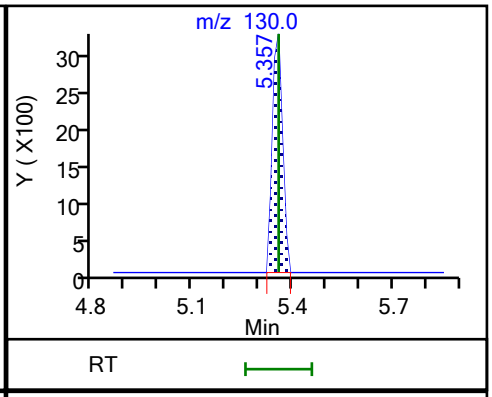
Eurofins TestAmerica, Canton

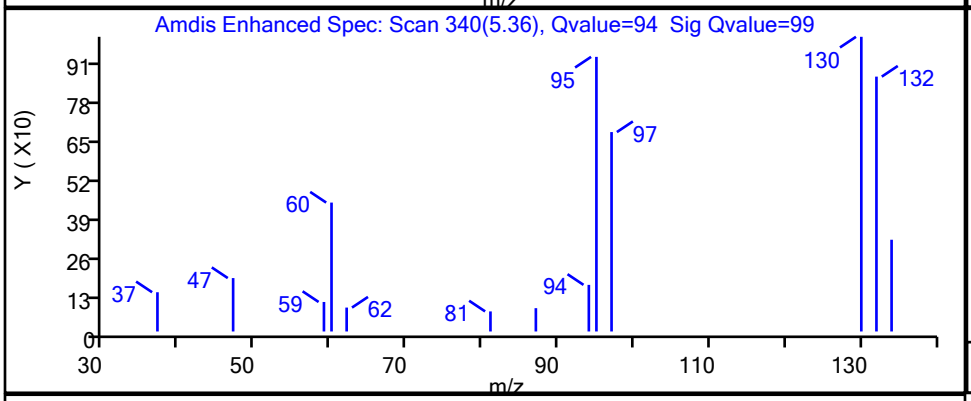
Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D

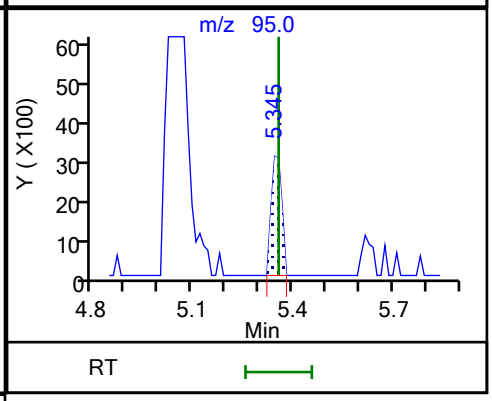
Injection Date:	16-Nov-2020 17:40:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-10	Lab Sample ID:	240-139669-10		
Client ID:	GW-110420-BE-010				
Operator ID:	43582	ALS Bottle#:	21	Worklist Smp#:	49
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

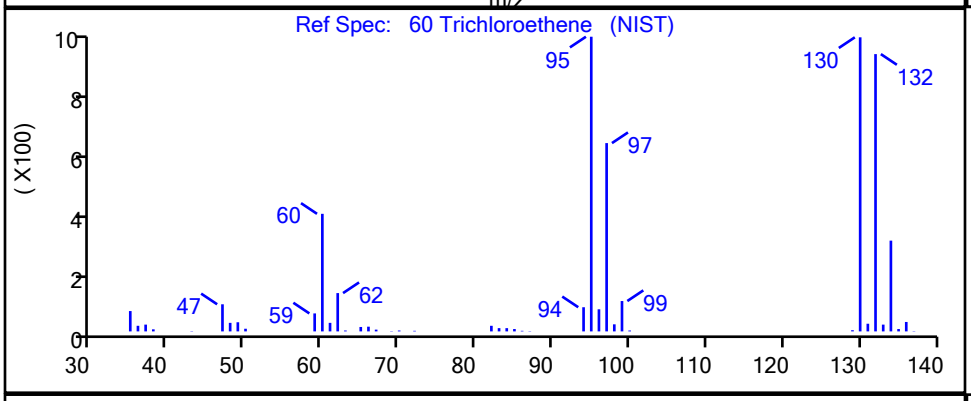
60 Trichloroethene, CAS: 79-01-6

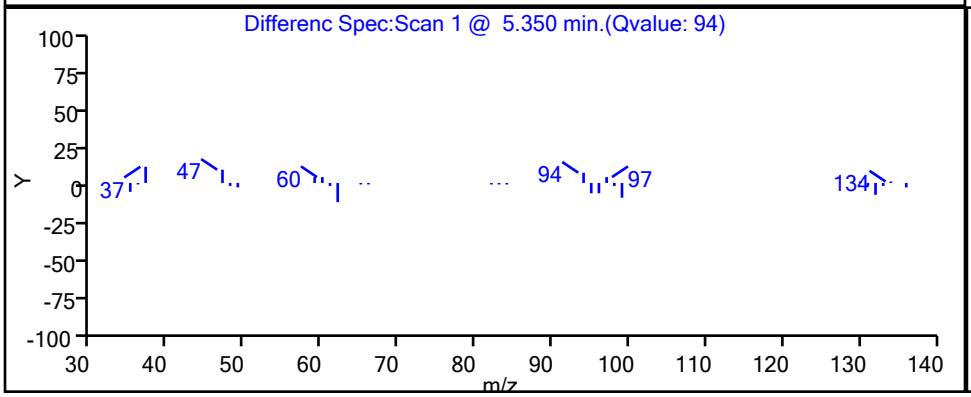


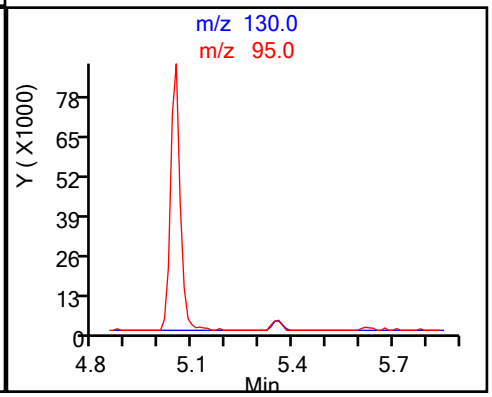












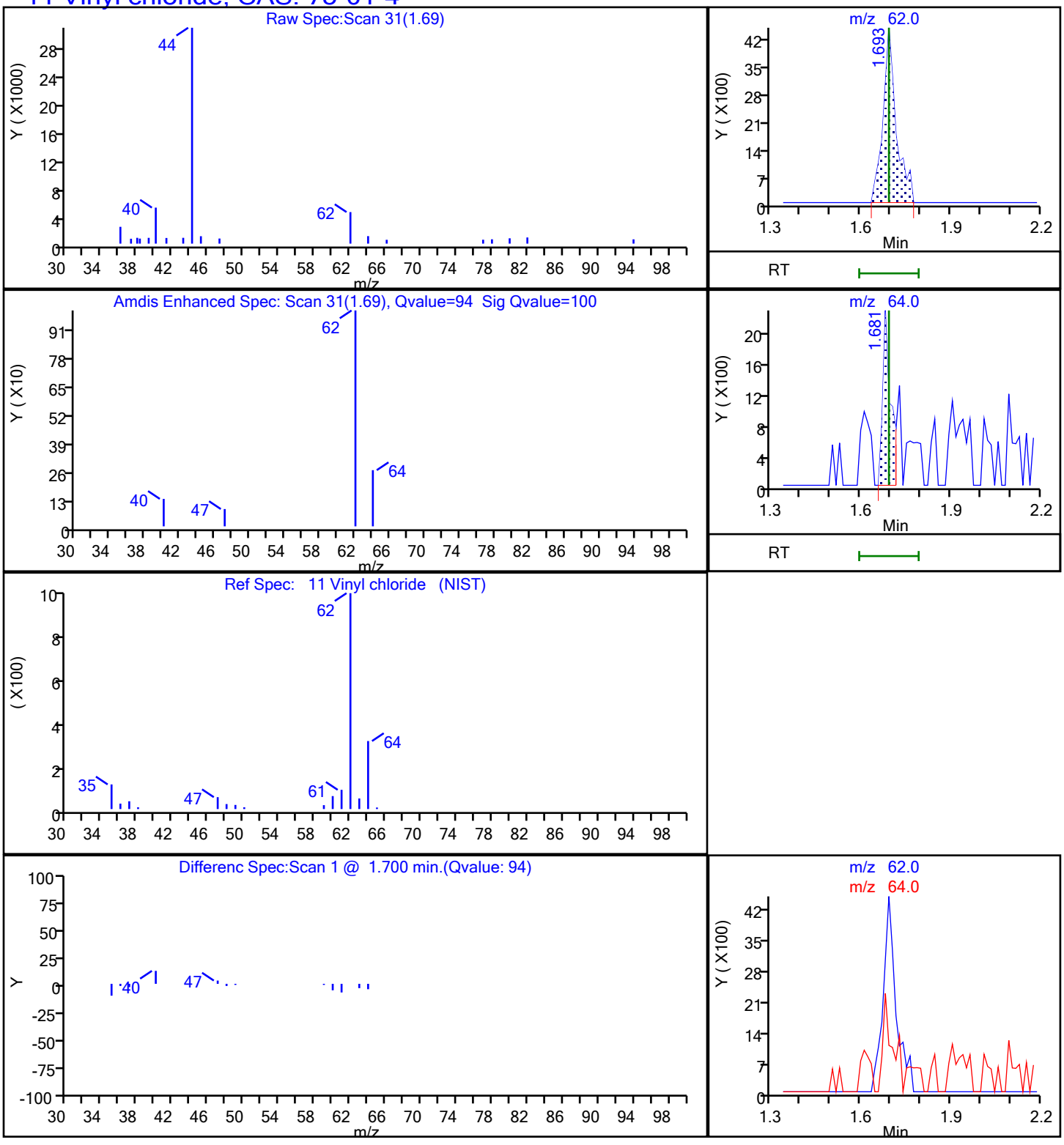
Report Date: 17-Nov-2020 08:57:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3830.D

Injection Date:	16-Nov-2020 17:40:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-10	Lab Sample ID:	240-139669-10		
Client ID:	GW-110420-BE-010				
Operator ID:	43582	ALS Bottle#:	21	Worklist Smp#:	49
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-011 Lab Sample ID: 240-139669-11

Matrix: Water Lab File ID: UXC3831.D

Analysis Method: 8260B Date Collected: 11/04/2020 11:33

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U *	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.45	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U *	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-011 Lab Sample ID: 240-139669-11

Matrix: Water Lab File ID: UXC3831.D

Analysis Method: 8260B Date Collected: 11/04/2020 11:33

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	84		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3831.D
Lims ID: 240-139669-B-11
Client ID: GW-110420-BE-011
Sample Type: Client
Inject. Date: 16-Nov-2020 18:06:30 ALS Bottle#: 22 Worklist Smp#: 50
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-050
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.049	-0.001	98	2048646	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1459958	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	588188	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	410687	8.43	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	723874	10.8	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1714804	9.46	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	79	522881	8.23	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62		1.693				ND	
13 Bromomethane	94		1.954				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96		3.270				ND	
35 1,1-Dichloroethane	63		3.614				ND	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	83	26665	0.4548	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.741				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

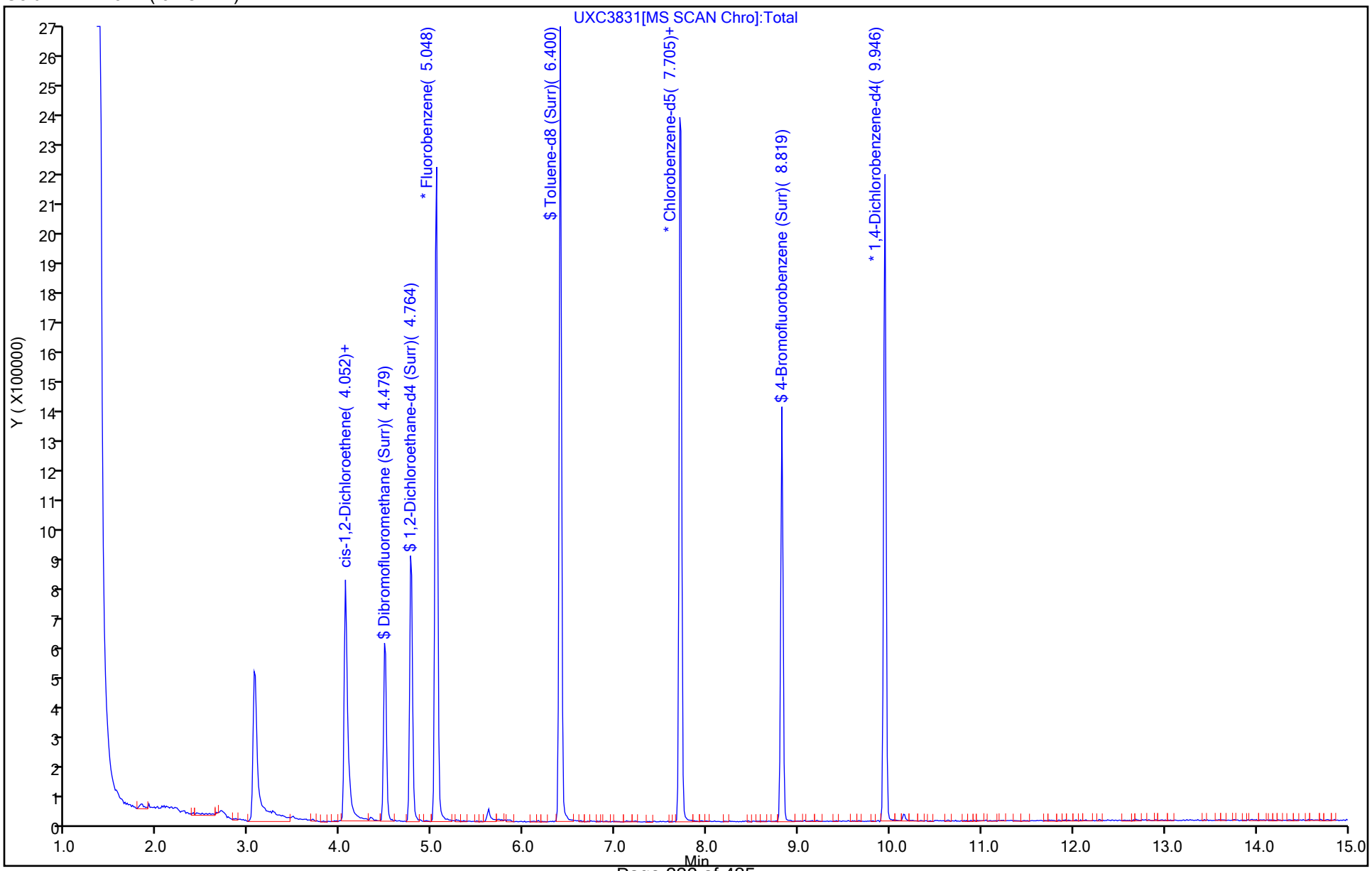
Report Date: 17-Nov-2020 08:57:15 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3831.D

Injection Date:	16-Nov-2020 18:06:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-11	Lab Sample ID:	240-139669-11	Worklist Smp#:	50
Client ID:	GW-110420-BE-011				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3831.D
Lims ID: 240-139669-B-11
Client ID: GW-110420-BE-011
Sample Type: Client
Inject. Date: 16-Nov-2020 18:06:30 ALS Bottle#: 22 Worklist Smp#: 50
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-050
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:40

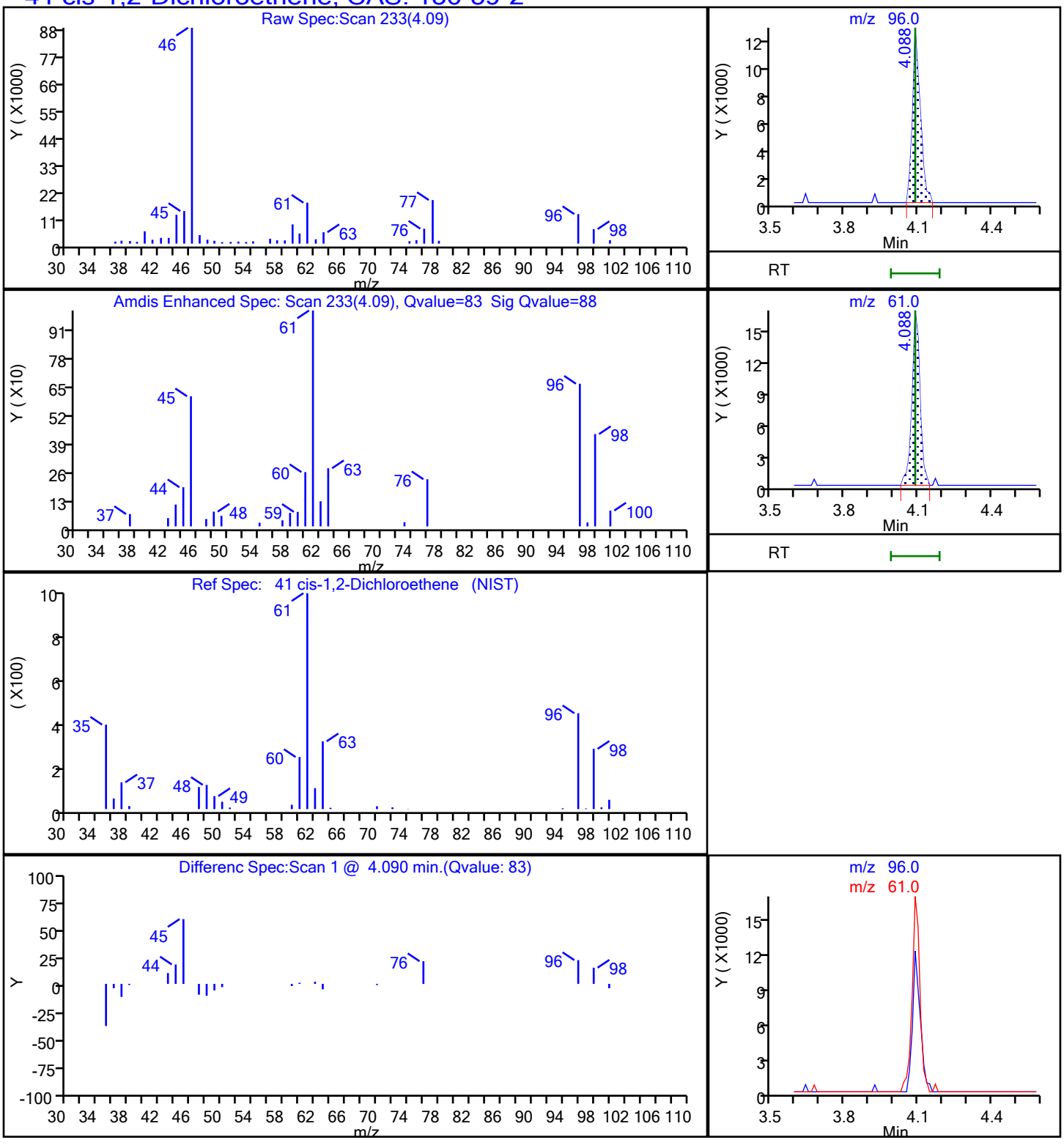
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.43	84.31
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	107.70
$ 6 Toluene-d8 (Surr)	10.0	9.46	94.58
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.23	82.32

Report Date: 17-Nov-2020 08:57:15 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3831.D				
Injection Date:	16-Nov-2020 18:06:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-11	Lab Sample ID:	240-139669-11		
Client ID:	GW-110420-BE-011				
Operator ID:	43582	ALS Bottle#:	22	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-012 Lab Sample ID: 240-139669-12

Matrix: Water Lab File ID: UXC3832.D

Analysis Method: 8260B Date Collected: 11/04/2020 13:38

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 18:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U *	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.25	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U *	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	6.1		1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-012 Lab Sample ID: 240-139669-12

Matrix: Water Lab File ID: UXC3832.D

Analysis Method: 8260B Date Collected: 11/04/2020 13:38

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 18:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	85		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3832.D
Lims ID: 240-139669-B-12
Client ID: GW-110420-BE-012
Sample Type: Client
Inject. Date: 16-Nov-2020 18:33:30 ALS Bottle#: 23 Worklist Smp#: 51
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-051
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	98	1984383	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1452828	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	577131	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	91	403351	8.55	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	701250	10.8	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1663738	9.22	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	79	515184	8.15	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.693	1.693	0.000	98	391734	6.08	
13 Bromomethane	94		1.954				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96		3.270				ND	
35 1,1-Dichloroethane	63		3.614				ND	
41 cis-1,2-Dichloroethene	96	4.100	4.088	0.012	83	14094	0.2482	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	7
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.741				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

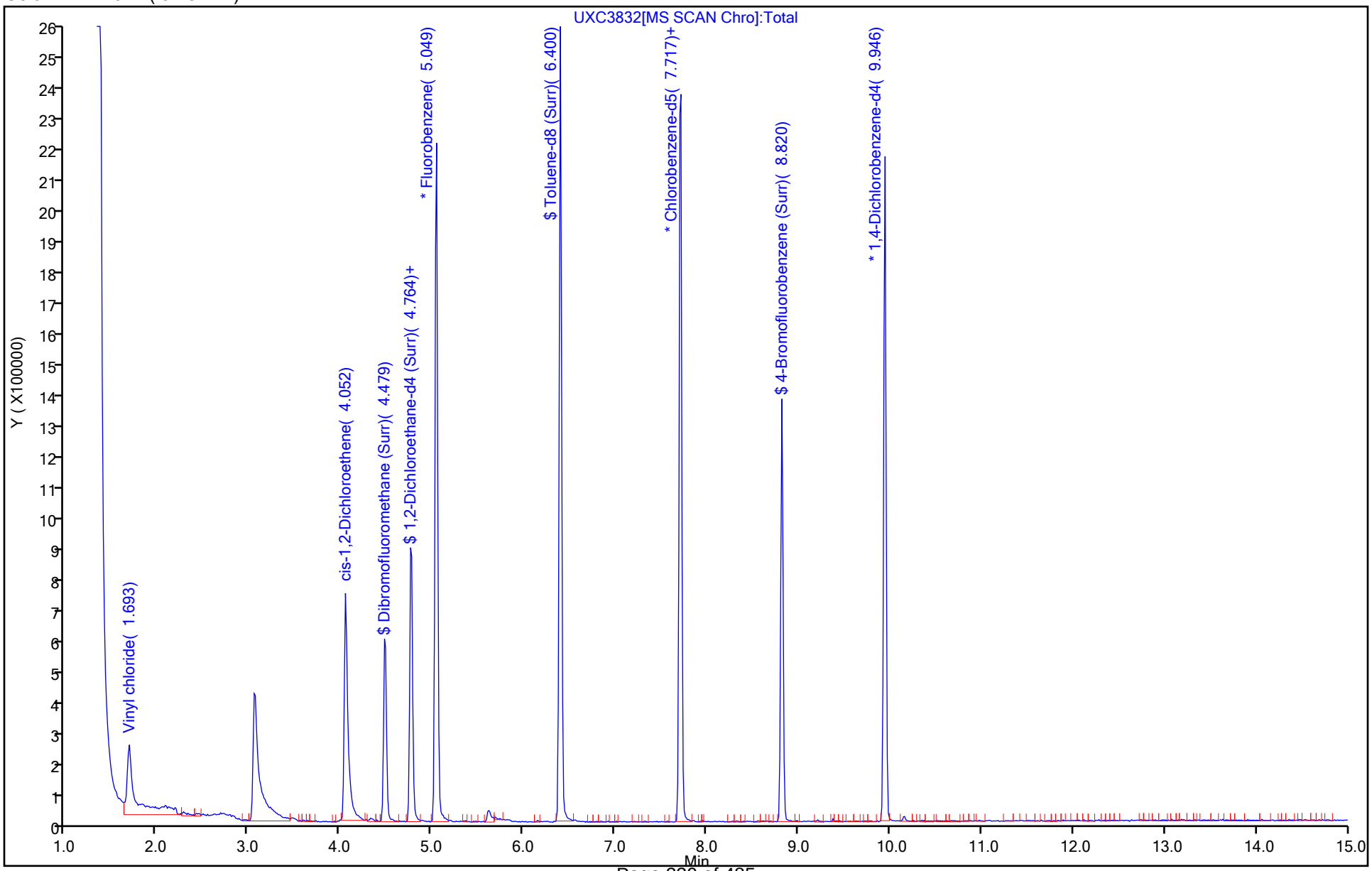
Report Date: 17-Nov-2020 08:57:16 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3832.D

Injection Date:	16-Nov-2020 18:33:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-12	Lab Sample ID:	240-139669-12	Worklist Smp#:	51
Client ID:	GW-110420-BE-012				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3832.D				
Lims ID:	240-139669-B-12				
Client ID:	GW-110420-BE-012				
Sample Type:	Client				
Inject. Date:	16-Nov-2020 18:33:30	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0103981-051				
Misc. Info.:	C201116A,8260LLUX15,,43582				
Operator ID:	43582	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	17-Nov-2020 08:57:09	Calib Date:	15-Jul-2020 13:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: evansle Date: 17-Nov-2020 08:48:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.55	85.48
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	107.71
$ 6 Toluene-d8 (Surr)	10.0	9.22	92.21
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.15	81.50

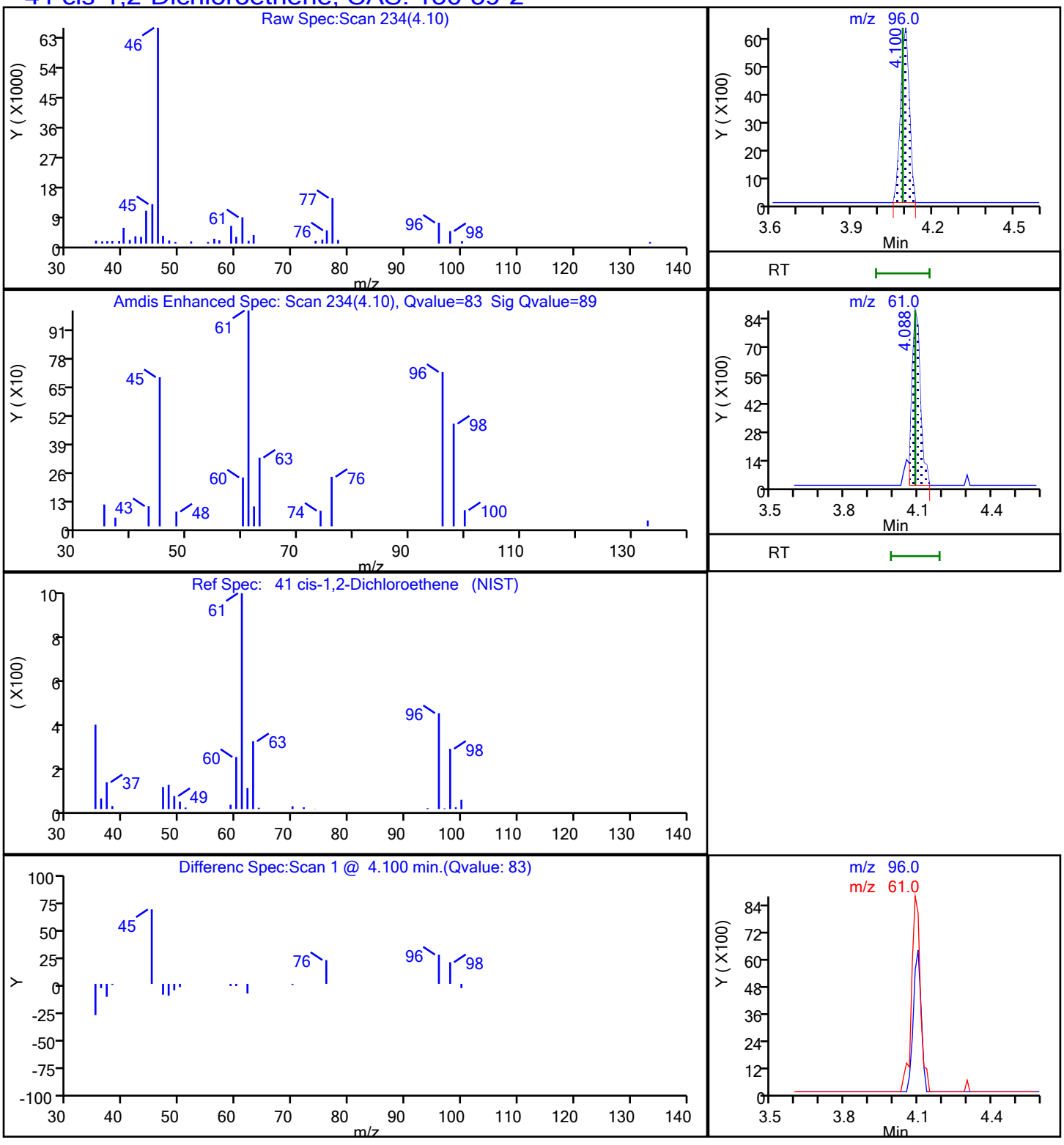
Report Date: 17-Nov-2020 08:57:16 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3832.D

Injection Date:	16-Nov-2020 18:33:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-12	Lab Sample ID:	240-139669-12		
Client ID:	GW-110420-BE-012				
Operator ID:	43582	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



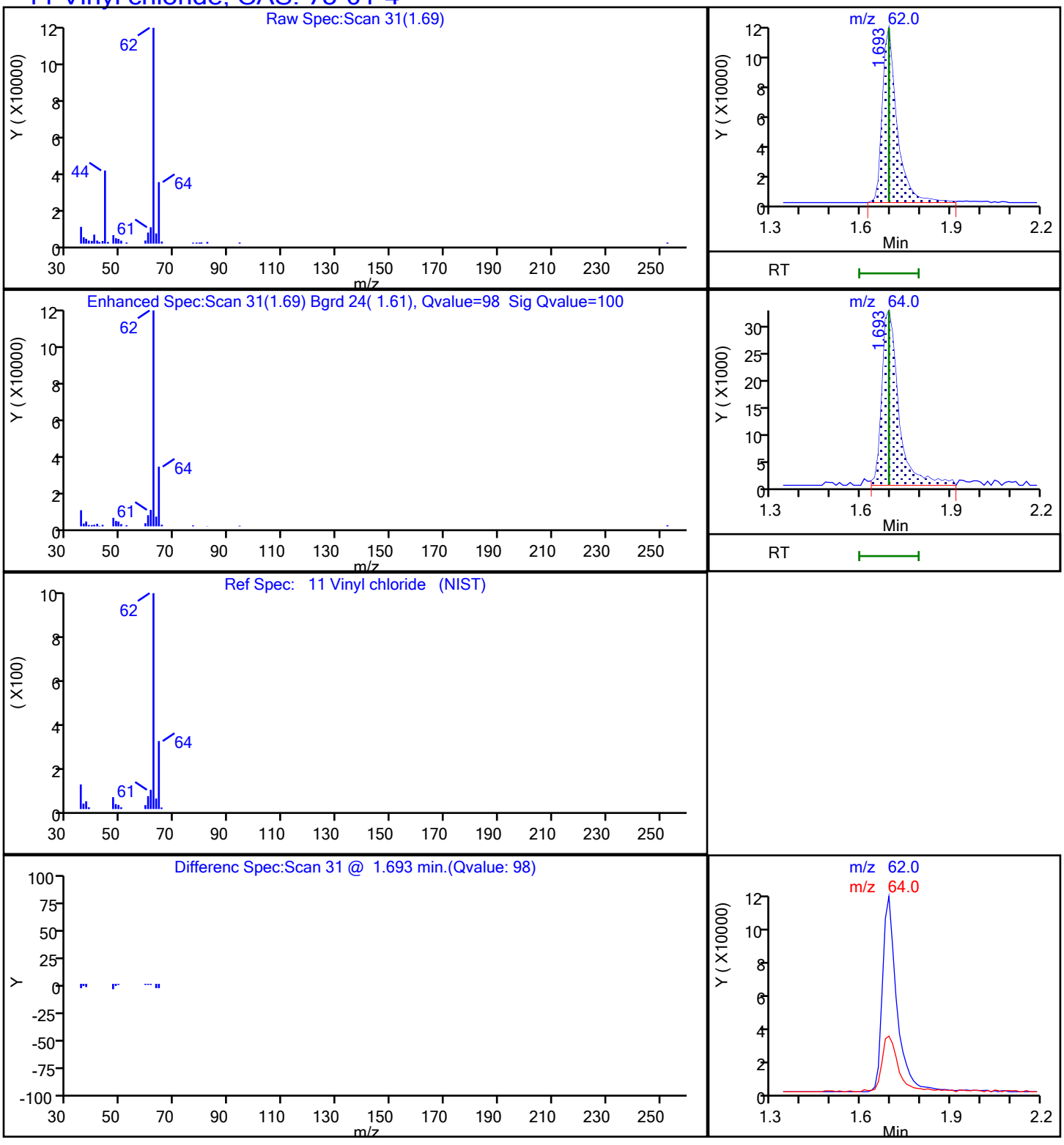
Report Date: 17-Nov-2020 08:57:16 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3832.D

Injection Date:	16-Nov-2020 18:33:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-12	Lab Sample ID:	240-139669-12		
Client ID:	GW-110420-BE-012				
Operator ID:	43582	ALS Bottle#:	23	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-013 Lab Sample ID: 240-139669-13

Matrix: Water Lab File ID: UXC3833.D

Analysis Method: 8260B Date Collected: 11/04/2020 15:21

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 19:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U *	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.21	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U *	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110420-BE-013 Lab Sample ID: 240-139669-13

Matrix: Water Lab File ID: UXC3833.D

Analysis Method: 8260B Date Collected: 11/04/2020 15:21

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 19:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	80		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	85		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3833.D
Lims ID: 240-139669-B-13
Client ID: GW-110420-BE-013
Sample Type: Client
Inject. Date: 16-Nov-2020 19:00:30 ALS Bottle#: 24 Worklist Smp#: 52
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-052
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:57:09 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 17-Nov-2020 08:49:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.049	-0.001	98	1995695	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1438930	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	560061	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.491	4.479	0.012	92	405288	8.54	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.764	0.012	98	702100	10.7	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1669476	9.34	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	80	501387	8.01	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.681	1.693	-0.012	94	8357	0.1290	
13 Bromomethane	94		1.954				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96		3.270				ND	
35 1,1-Dichloroethane	63		3.614				ND	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	80	11721	0.2052	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.741				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

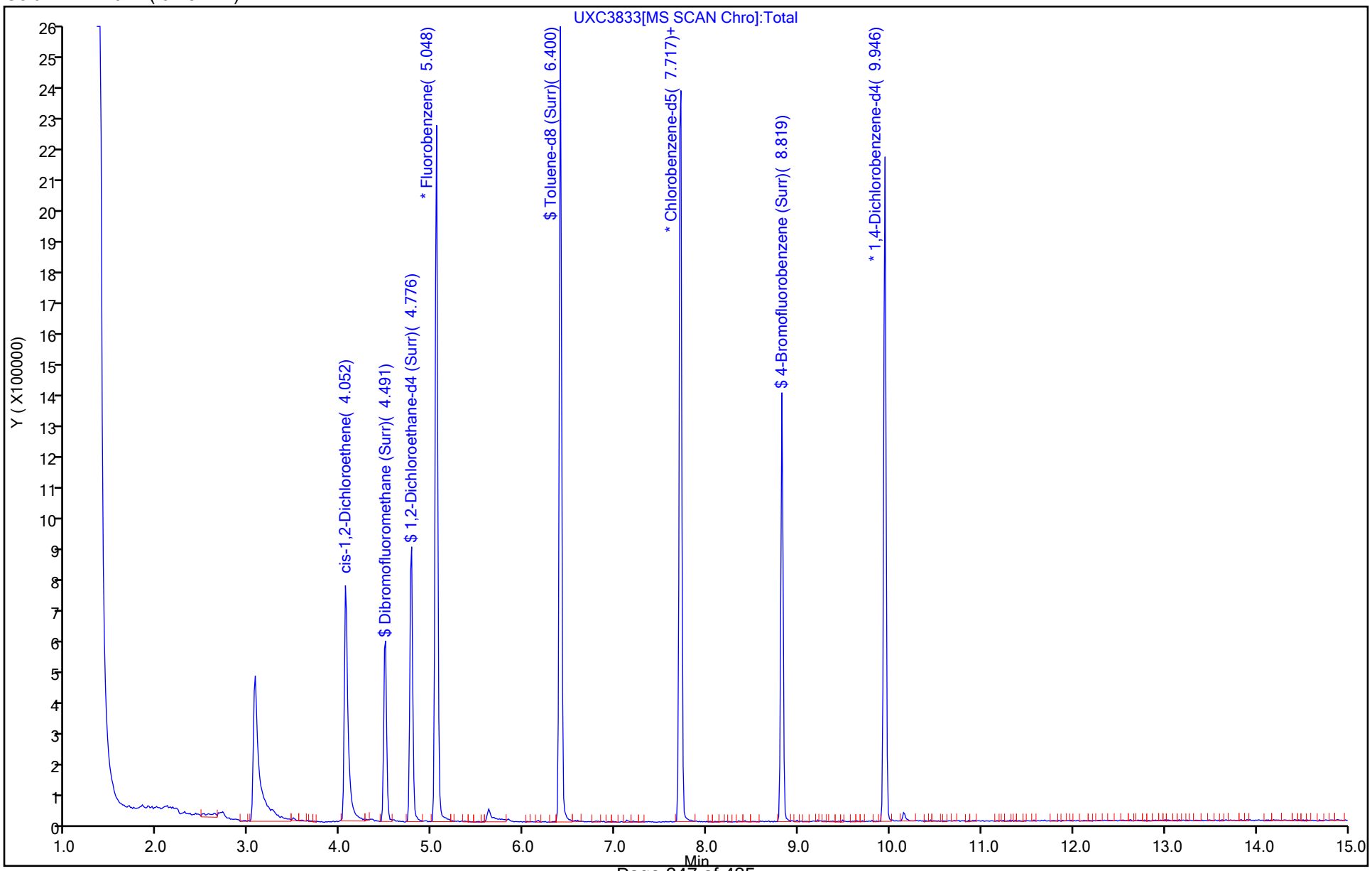
Report Date: 17-Nov-2020 08:57:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3833.D

Injection Date:	16-Nov-2020 19:00:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-13	Lab Sample ID:	240-139669-13	Worklist Smp#:	52
Client ID:	GW-110420-BE-013				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3833.D				
Lims ID:	240-139669-B-13				
Client ID:	GW-110420-BE-013				
Sample Type:	Client				
Inject. Date:	16-Nov-2020 19:00:30	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0103981-052				
Misc. Info.:	C201116A,8260LLUX15,,43582				
Operator ID:	43582	Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	17-Nov-2020 08:57:09	Calib Date:	15-Jul-2020 13:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: evansle Date: 17-Nov-2020 08:49:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.54	85.41
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.23
$ 6 Toluene-d8 (Surr)	10.0	9.34	93.42
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.01	80.09

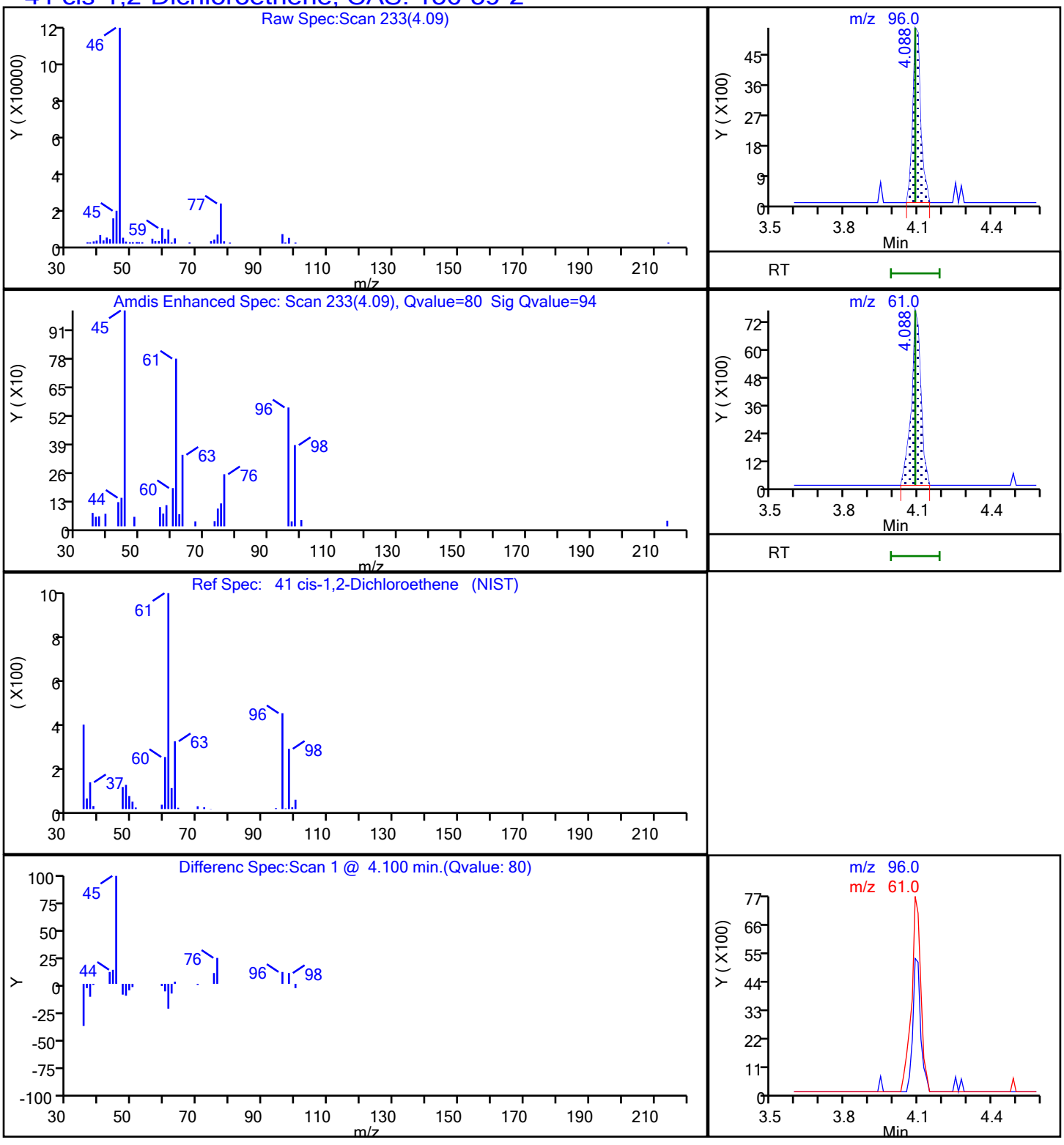
Report Date: 17-Nov-2020 08:57:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3833.D

Injection Date:	16-Nov-2020 19:00:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-13	Lab Sample ID:	240-139669-13		
Client ID:	GW-110420-BE-013				
Operator ID:	43582	ALS Bottle#:	24	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-014 Lab Sample ID: 240-139669-14

Matrix: Water Lab File ID: UXC3878.D

Analysis Method: 8260B Date Collected: 11/05/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-014 Lab Sample ID: 240-139669-14

Matrix: Water Lab File ID: UXC3878.D

Analysis Method: 8260B Date Collected: 11/05/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-130
460-00-4	4-Bromofluorobenzene (Surr)	83		47-134
2037-26-5	Toluene-d8 (Surr)	100		69-122
1868-53-7	Dibromofluoromethane (Surr)	87		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3878.D
Lims ID: 240-139669-B-14
Client ID: GW-110520-BE-014
Sample Type: Client
Inject. Date: 18-Nov-2020 12:08:30 ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-035
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.037	5.037	0.000	98	2056827	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1270416	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	548459	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	424330	8.68	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	730120	10.8	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1576708	10.0	
$	7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	80	458210	8.29	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62		1.693				ND	
	13 Bromomethane	94		1.942				ND	
	14 Chloroethane	64		2.025				ND	
	19 1,1-Dichloroethene	96		2.641				ND	
	21 Acetone	58		2.677				ND	7
	24 Carbon disulfide	76		2.843				ND	7
	28 Methylene Chloride	84		3.045				ND	
	32 trans-1,2-Dichloroethene	96		3.258				ND	
	35 1,1-Dichloroethane	63		3.614				ND	
	41 cis-1,2-Dichloroethene	96		4.088				ND	7
	40 2-Butanone (MEK)	72		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.503				ND	7
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.811				ND	7
	56 1,2-Dichloroethane	62		4.823				ND	
	60 Trichloroethene	130		5.345				ND	7
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	
	73 trans-1,3-Dichloropropene	75		6.650				ND	
	75 1,1,2-Trichloroethane	97		6.816				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

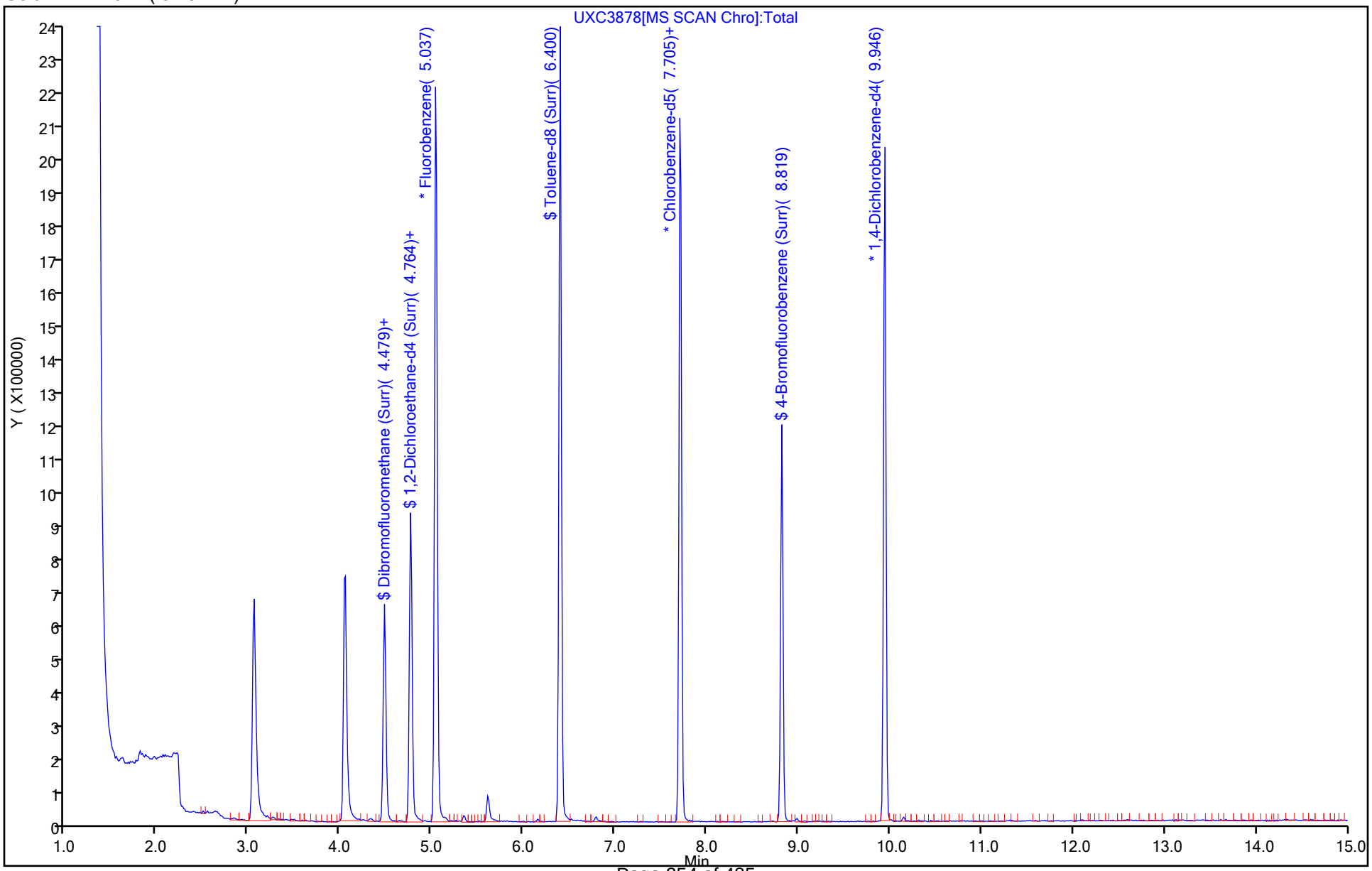
Report Date: 19-Nov-2020 05:38:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3878.D

Injection Date:	18-Nov-2020 12:08:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-14	Lab Sample ID:	240-139669-14	Worklist Smp#:	35
Client ID:	GW-110520-BE-014				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3878.D
Lims ID: 240-139669-B-14
Client ID: GW-110520-BE-014
Sample Type: Client
Inject. Date: 18-Nov-2020 12:08:30 ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-035
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.68	86.76
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.20
$ 6 Toluene-d8 (Surr)	10.0	10.0	99.93
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.29	82.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-015 Lab Sample ID: 240-139669-15

Matrix: Water Lab File ID: UXC3879.D

Analysis Method: 8260B Date Collected: 11/05/2020 11:11

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:30

Soil Aliquot Vol: Dilution Factor: 33.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	33	U F1	33	8.0
79-34-5	1,1,2,2-Tetrachloroethane	33	U	33	4.3
79-00-5	1,1,2-Trichloroethane	33	U *	33	3.0
75-34-3	1,1-Dichloroethane	33	U	33	5.7
75-35-4	1,1-Dichloroethene	33	U F1	33	6.3
107-06-2	1,2-Dichloroethane	33	U	33	7.0
78-87-5	1,2-Dichloropropane	33	U	33	5.0
591-78-6	2-Hexanone	330	U	330	18
67-64-1	Acetone	330	U	330	180
71-43-2	Benzene	33	U	33	4.3
75-25-2	Bromoform	33	U	33	25
74-83-9	Bromomethane	33	U	33	14
75-15-0	Carbon disulfide	33	U F1	33	9.3
56-23-5	Carbon tetrachloride	33	U F1	33	8.7
108-90-7	Chlorobenzene	33	U	33	4.7
75-00-3	Chloroethane	33	U	33	28
67-66-3	Chloroform	33	U	33	4.3
74-87-3	Chloromethane	33	U	33	6.7
156-59-2	cis-1,2-Dichloroethene	600		33	5.3
10061-01-5	cis-1,3-Dichloropropene	33	U	33	20
75-27-4	Dichlorobromomethane	33	U	33	5.7
100-41-4	Ethylbenzene	33	U	33	3.7
78-93-3	2-Butanone (MEK)	330	U	330	39
108-10-1	4-Methyl-2-pentanone (MIBK)	330	U	330	14
75-09-2	Methylene Chloride	170	U	170	87
100-42-5	Styrene	33	U	33	3.3
127-18-4	Tetrachloroethene	33	U	33	5.0
108-88-3	Toluene	33	U	33	4.7
156-60-5	trans-1,2-Dichloroethene	23	J	33	6.3
10061-02-6	trans-1,3-Dichloropropene	33	U	33	22
79-01-6	Trichloroethene	21	J	33	3.3
75-01-4	Vinyl chloride	33	U F2	33	6.7
1330-20-7	Xylenes, Total	67	U	67	5.0
124-48-1	Chlorodibromomethane	33	U	33	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-015 Lab Sample ID: 240-139669-15

Matrix: Water Lab File ID: UXC3879.D

Analysis Method: 8260B Date Collected: 11/05/2020 11:11

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:30

Soil Aliquot Vol: Dilution Factor: 33.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	79		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	88		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3879.D
Lims ID: 240-139669-B-15
Client ID: GW-110520-BE-015
Sample Type: Client
Inject. Date: 18-Nov-2020 12:30:30 ALS Bottle#: 8 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 33.3300
Sample Info: 240-0104072-036
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 13:31:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	98	2030504	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1241983	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	537753	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	424071	8.78	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	98	714624	10.7	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1527656	9.90	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	425772	7.88	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62		1.693				ND	
13 Bromomethane	94		1.942				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96	2.629	2.641	-0.012	96	6509	0.1066	
21 Acetone	58		2.677				ND	7
24 Carbon disulfide	76		2.843				ND	7
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	95	37973	0.6800	
35 1,1-Dichloroethane	63		3.614				ND	7
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	85	1047778	18.0	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	7
49 1,1,1-Trichloroethane	97		4.503				ND	7
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.811				ND	7
56 1,2-Dichloroethane	62		4.823				ND	7
60 Trichloroethene	130	5.345	5.345	0.000	94	37707	0.6342	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	7
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

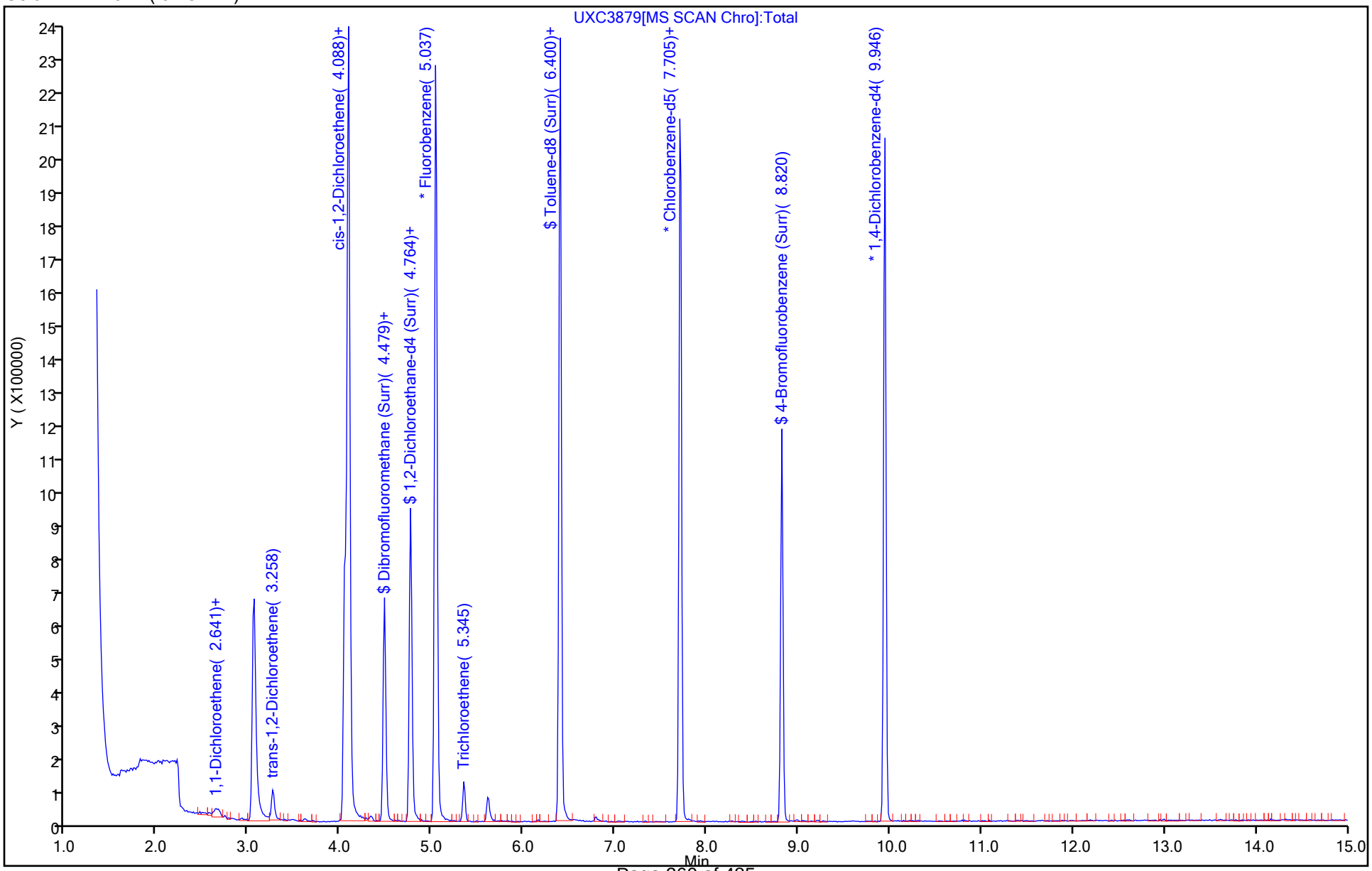
Report Date: 19-Nov-2020 05:38:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3879.D

Injection Date:	18-Nov-2020 12:30:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-15	Lab Sample ID:	240-139669-15	Worklist Smp#:	36
Client ID:	GW-110520-BE-015				
Purge Vol:	5.000 mL	Dil. Factor:	33.3300	ALS Bottle#:	8
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3879.D
Lims ID: 240-139669-B-15
Client ID: GW-110520-BE-015
Sample Type: Client
Inject. Date: 18-Nov-2020 12:30:30 ALS Bottle#: 8 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 33.3300
Sample Info: 240-0104072-036
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 13:31:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.78	87.83
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.27
$ 6 Toluene-d8 (Surr)	10.0	9.90	99.04
$ 7 4-Bromofluorobenzene (Surr)	10.0	7.88	78.79

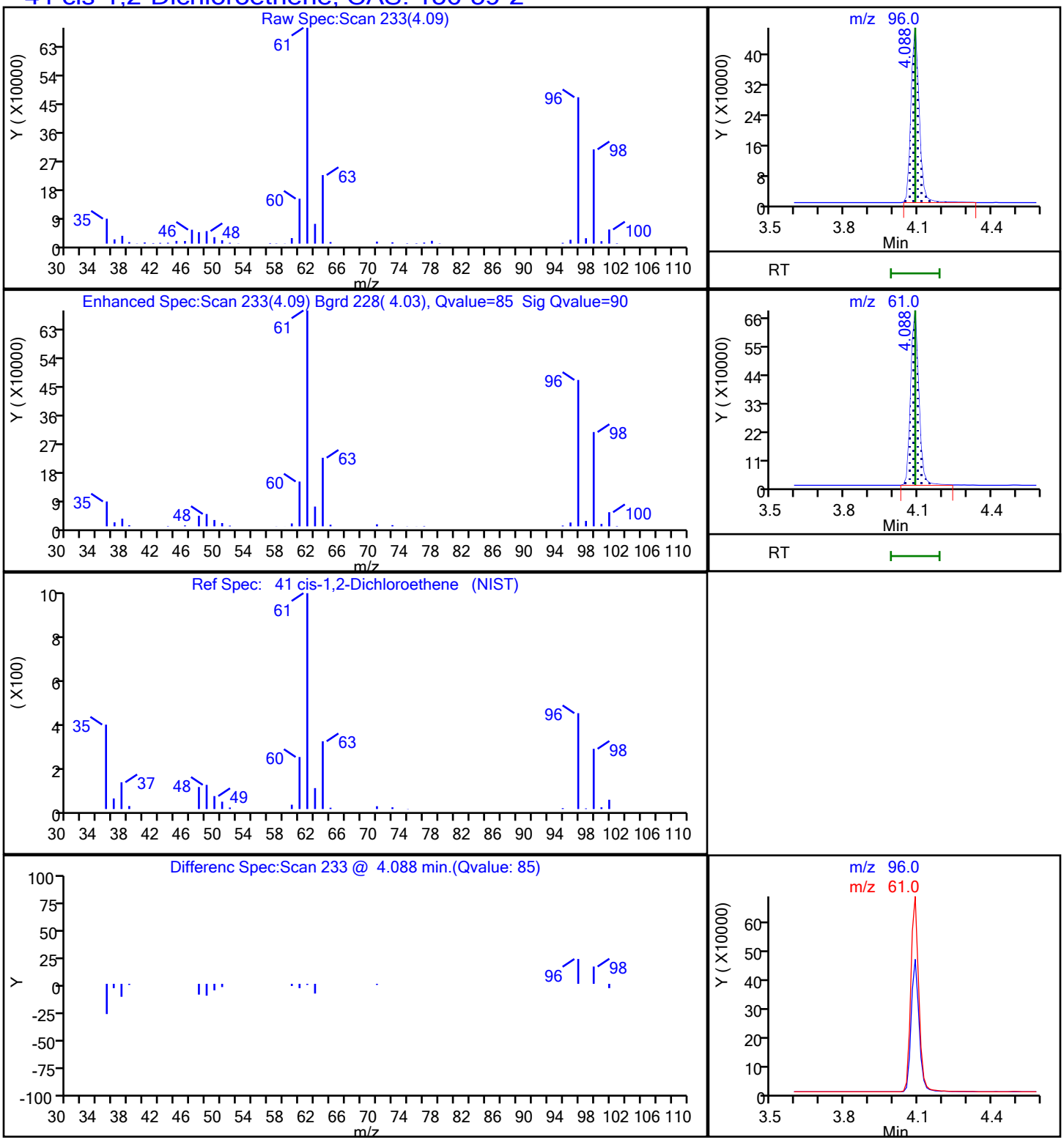
Report Date: 19-Nov-2020 05:38:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3879.D

Injection Date:	18-Nov-2020 12:30:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-15	Lab Sample ID:	240-139669-15		
Client ID:	GW-110520-BE-015				
Operator ID:	43582	ALS Bottle#:	8	Worklist Smp#:	36
Purge Vol:	5.000 mL	Dil. Factor:	33.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2

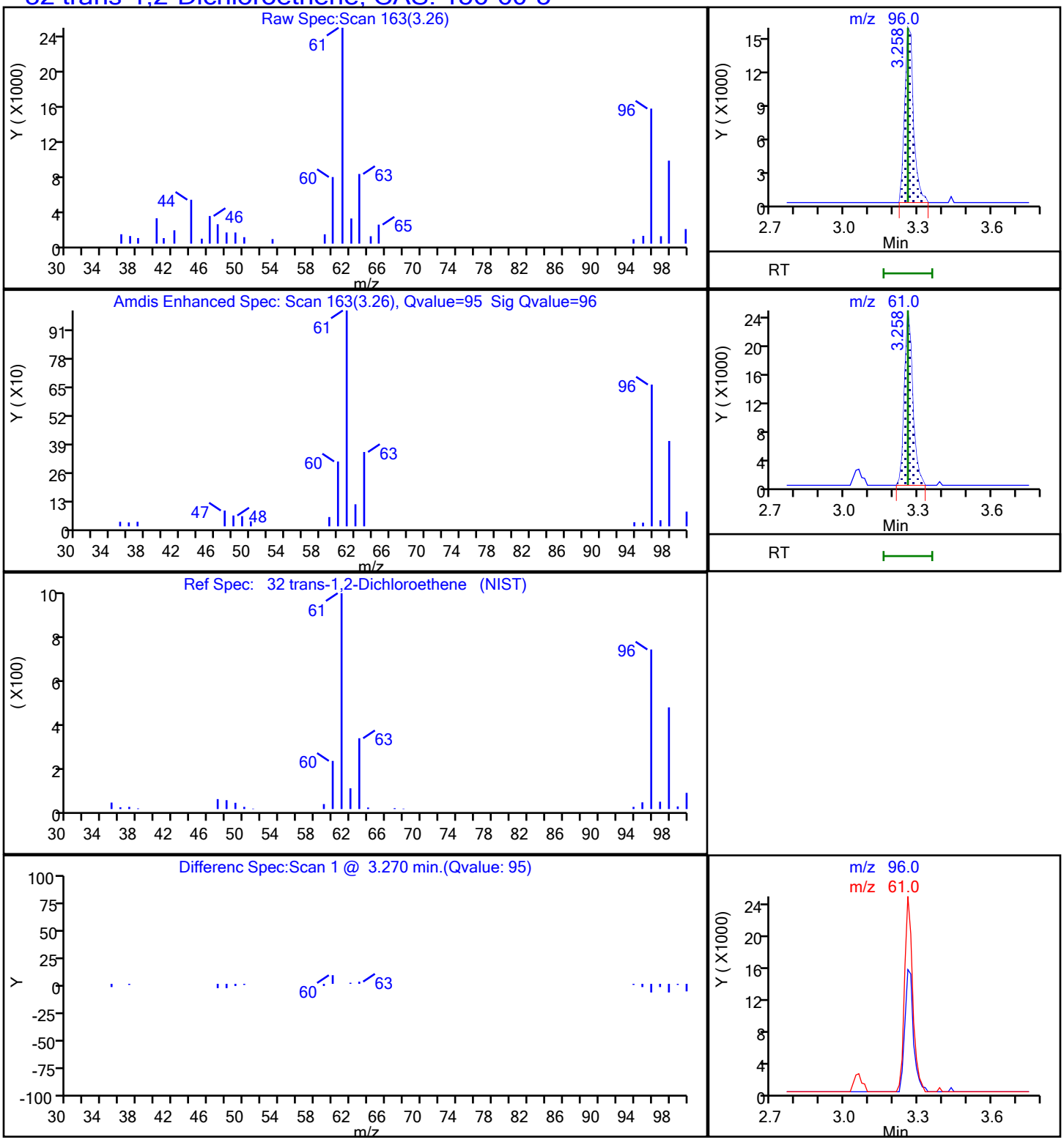


Report Date: 19-Nov-2020 05:38:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3879.D				
Injection Date:	18-Nov-2020 12:30:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-15	Lab Sample ID:	240-139669-15		
Client ID:	GW-110520-BE-015				
Operator ID:	43582	ALS Bottle#:	8	Worklist Smp#:	36
Purge Vol:	5.000 mL	Dil. Factor:	33.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



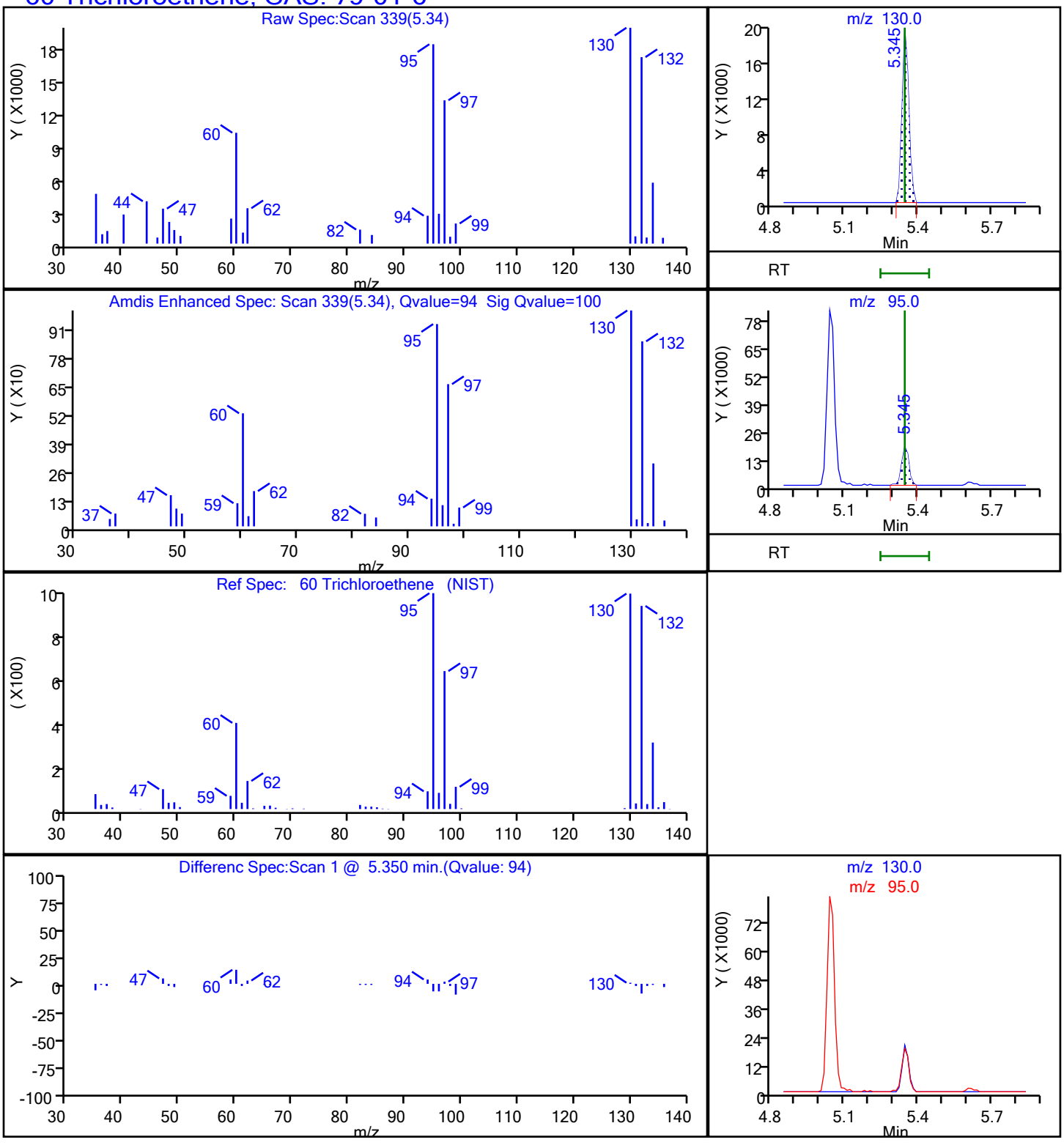
Report Date: 19-Nov-2020 05:38:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3879.D

Injection Date:	18-Nov-2020 12:30:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-15	Lab Sample ID:	240-139669-15		
Client ID:	GW-110520-BE-015				
Operator ID:	43582	ALS Bottle#:	8	Worklist Smp#:	36
Purge Vol:	5.000 mL	Dil. Factor:	33.3300		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-016 Lab Sample ID: 240-139669-16

Matrix: Water Lab File ID: UXC3882.D

Analysis Method: 8260B Date Collected: 11/05/2020 12:33

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.2		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.38	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-016 Lab Sample ID: 240-139669-16

Matrix: Water Lab File ID: UXC3882.D

Analysis Method: 8260B Date Collected: 11/05/2020 12:33

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	85		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3882.D
Lims ID: 240-139669-B-16
Client ID: GW-110520-BE-016
Sample Type: Client
Inject. Date: 18-Nov-2020 13:35:30 ALS Bottle#: 11 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-039
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 13:51:19

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.037	5.037	0.000	98	2109101	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1284736	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	565603	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	425752	8.49	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	706801	10.2	
$	6 Toluene-d8 (Surr)	98	6.401	6.400	0.001	95	1573402	9.86	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	79	456138	8.16	
	10 Chloromethane	50		1.598				ND	7
	11 Vinyl chloride	62	1.681	1.693	-0.012	52	8927	0.1304	
	13 Bromomethane	94		1.942				ND	
	14 Chloroethane	64		2.025				ND	7
	19 1,1-Dichloroethene	96	2.653	2.641	0.012	94	11166	0.1760	
	21 Acetone	58		2.677				ND	7
	24 Carbon disulfide	76	2.831	2.843	-0.012	98	31759	0.1809	
	28 Methylene Chloride	84		3.045				ND	
	32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	92	8251	0.1423	
	35 1,1-Dichloroethane	63		3.614				ND	7
	41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	80	23226	0.3848	
	40 2-Butanone (MEK)	72		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	96	498112	6.24	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.811				ND	7
	56 1,2-Dichloroethane	62		4.823				ND	7
	60 Trichloroethene	130		5.345				ND	7
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	7
	73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	7
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	7
89 Styrene	104		8.333				ND	7
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

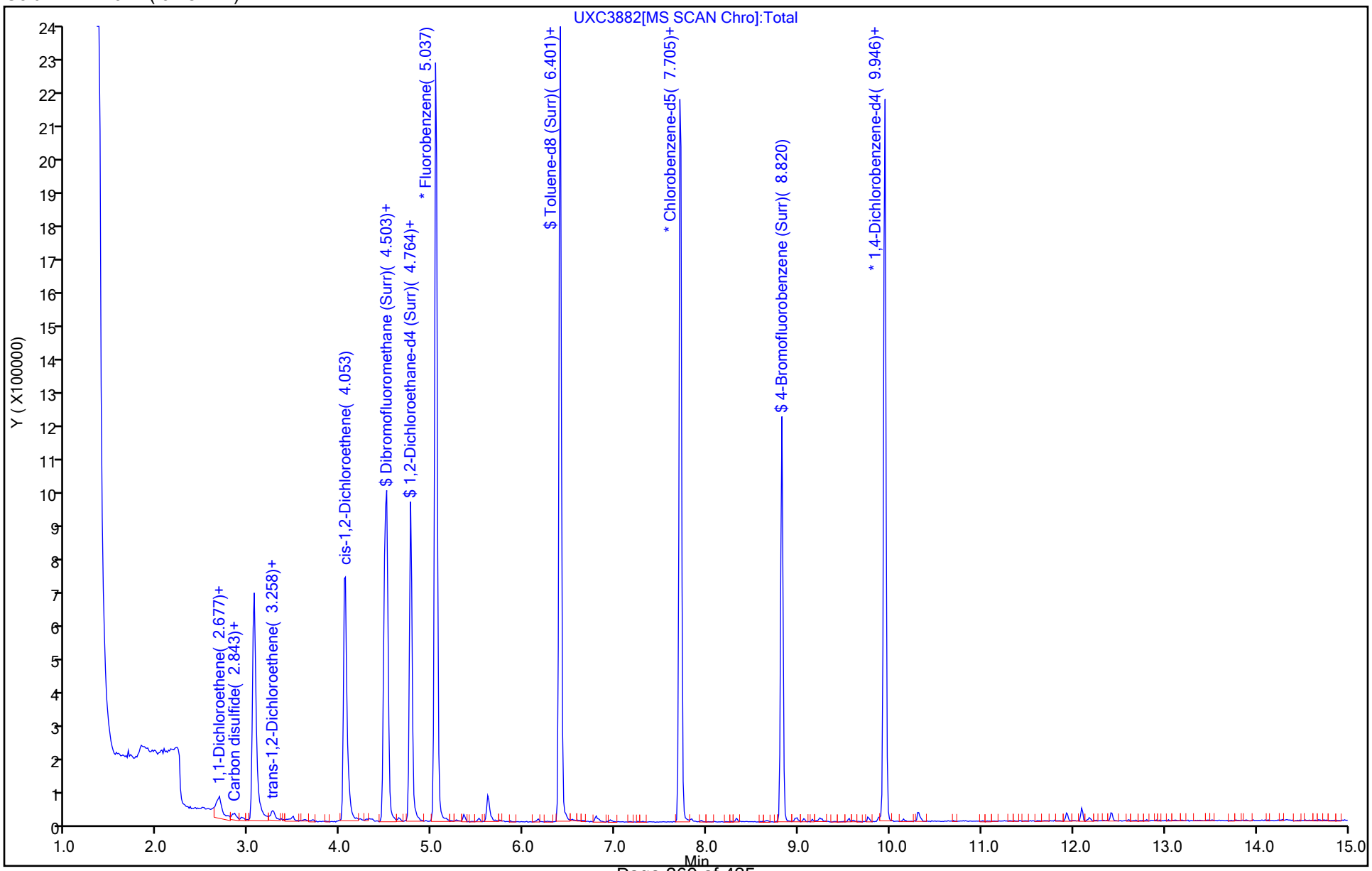
Report Date: 19-Nov-2020 05:38:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3882.D

Injection Date:	18-Nov-2020 13:35:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-16	Lab Sample ID:	240-139669-16	Worklist Smp#:	39
Client ID:	GW-110520-BE-016				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3882.D
Lims ID: 240-139669-B-16
Client ID: GW-110520-BE-016
Sample Type: Client
Inject. Date: 18-Nov-2020 13:35:30 ALS Bottle#: 11 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-039
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 13:51:19

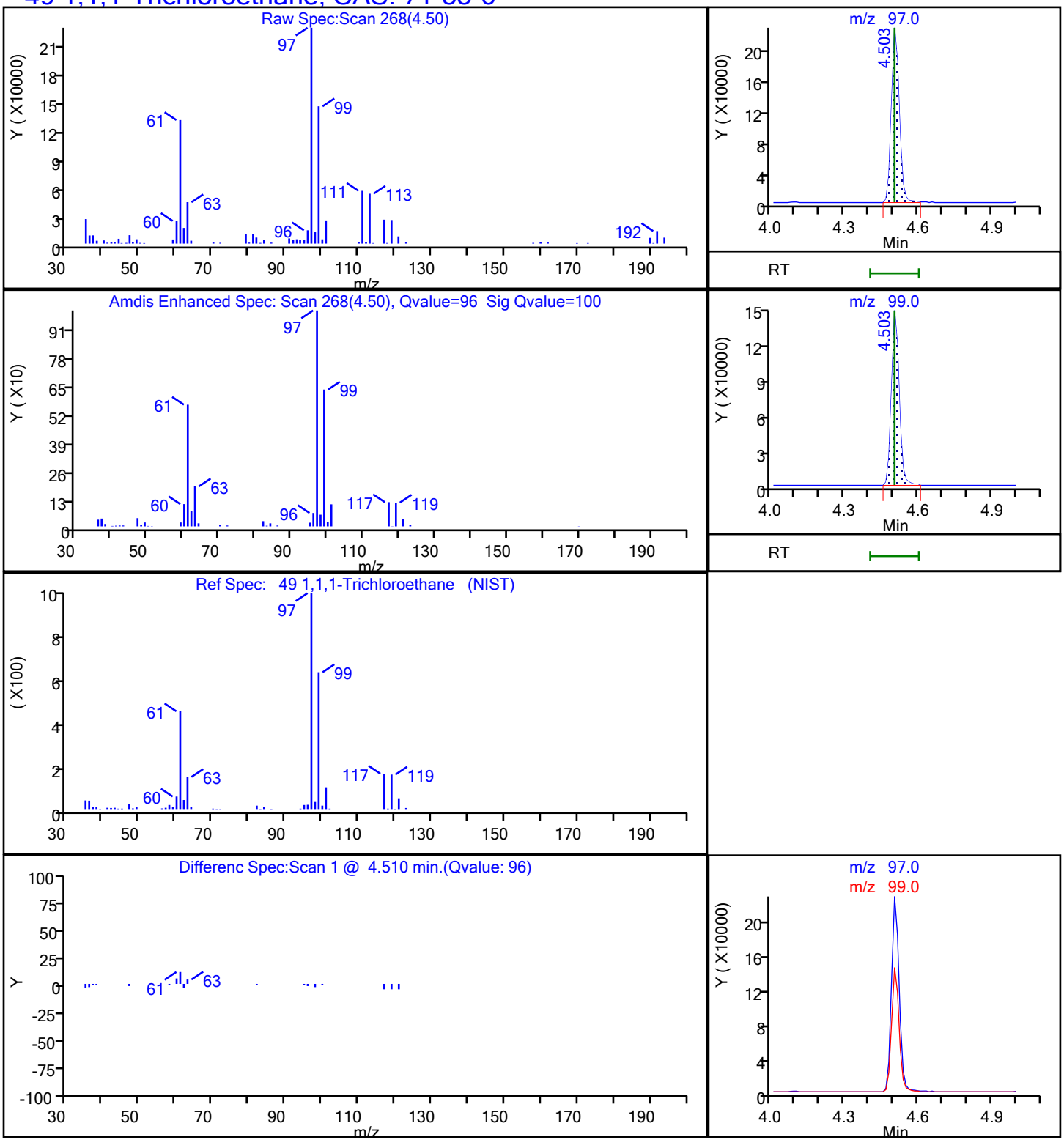
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.49	84.89
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.15
$ 6 Toluene-d8 (Surr)	10.0	9.86	98.61
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.16	81.60

Report Date: 19-Nov-2020 05:38:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3882.D				
Injection Date:	18-Nov-2020 13:35:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-16	Lab Sample ID:	240-139669-16		
Client ID:	GW-110520-BE-016				
Operator ID:	43582	ALS Bottle#:	11	Worklist Smp#:	39
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

49 1,1,1-Trichloroethane, CAS: 71-55-6

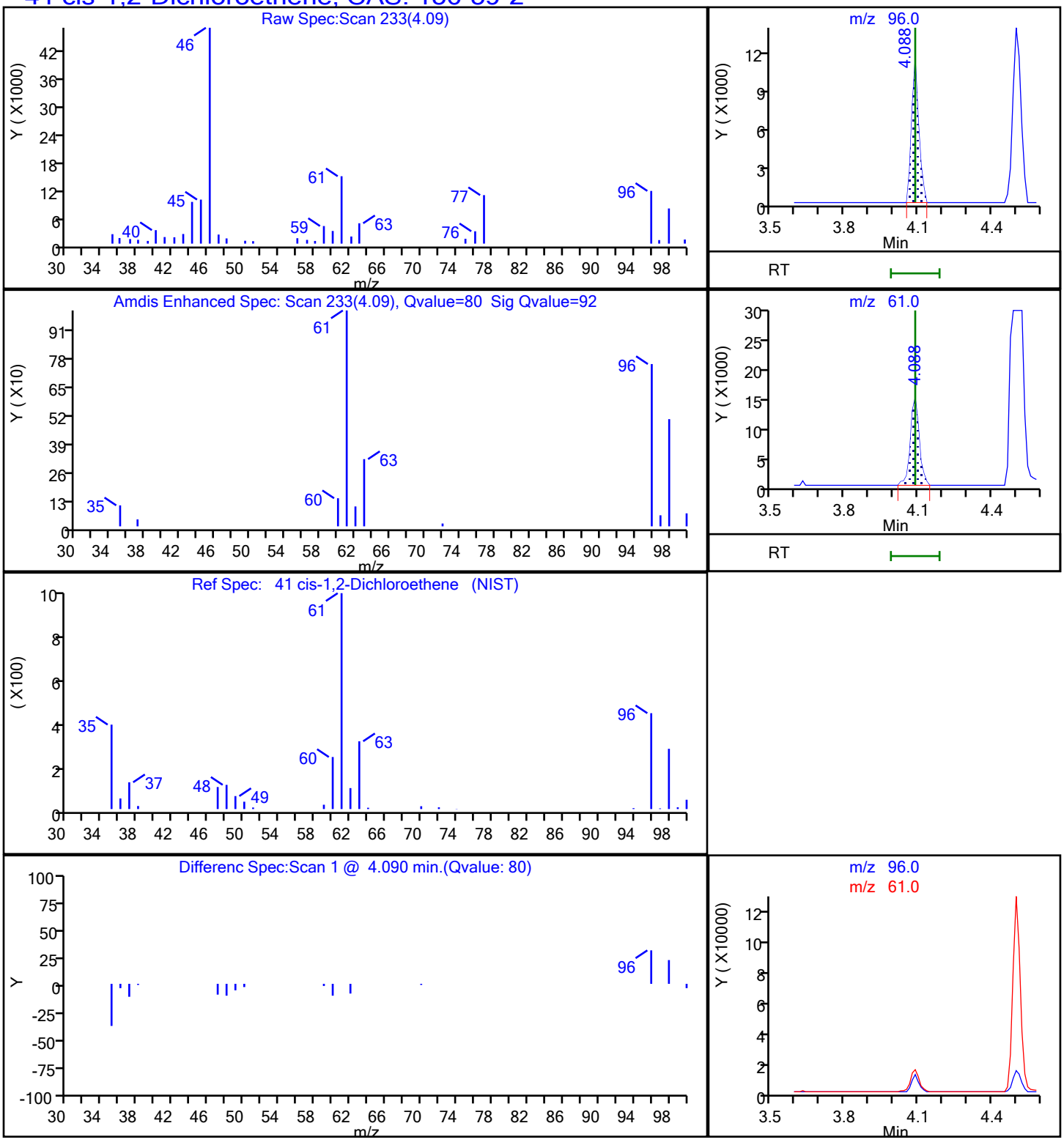


Report Date: 19-Nov-2020 05:38:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3882.D				
Injection Date:	18-Nov-2020 13:35:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-16	Lab Sample ID:	240-139669-16		
Client ID:	GW-110520-BE-016				
Operator ID:	43582	ALS Bottle#:	11	Worklist Smp#:	39
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-017 Lab Sample ID: 240-139669-17

Matrix: Water Lab File ID: UXC3883.D

Analysis Method: 8260B Date Collected: 11/05/2020 14:09

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.92	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-017 Lab Sample ID: 240-139669-17

Matrix: Water Lab File ID: UXC3883.D

Analysis Method: 8260B Date Collected: 11/05/2020 14:09

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
460-00-4	4-Bromofluorobenzene (Surr)	79		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	85		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3883.D
Lims ID: 240-139669-B-17
Client ID: GW-110520-BE-017
Sample Type: Client
Inject. Date: 18-Nov-2020 13:57:30 ALS Bottle#: 12 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-040
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 14:16:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.037	0.011	98	2078660	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1264951	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	529091	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	418625	8.47	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	701121	10.3	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1546314	9.84	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	436376	7.93	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.693	1.693	0.000	93	6914	0.1025	
13 Bromomethane	94		1.942				ND	
14 Chloroethane	64		2.025				ND	
19 1,1-Dichloroethene	96		2.641				ND	
21 Acetone	58		2.677				ND	7
24 Carbon disulfide	76		2.843				ND	7
28 Methylene Chloride	84		3.045				ND	
32 trans-1,2-Dichloroethene	96	3.270	3.258	0.012	90	6899	0.1207	
35 1,1-Dichloroethane	63		3.614				ND	7
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	82	54791	0.9211	
40 2-Butanone (MEK)	72		4.100				ND	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.503				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.811				ND	7
56 1,2-Dichloroethane	62		4.823				ND	
60 Trichloroethene	130		5.345				ND	7
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	7
73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

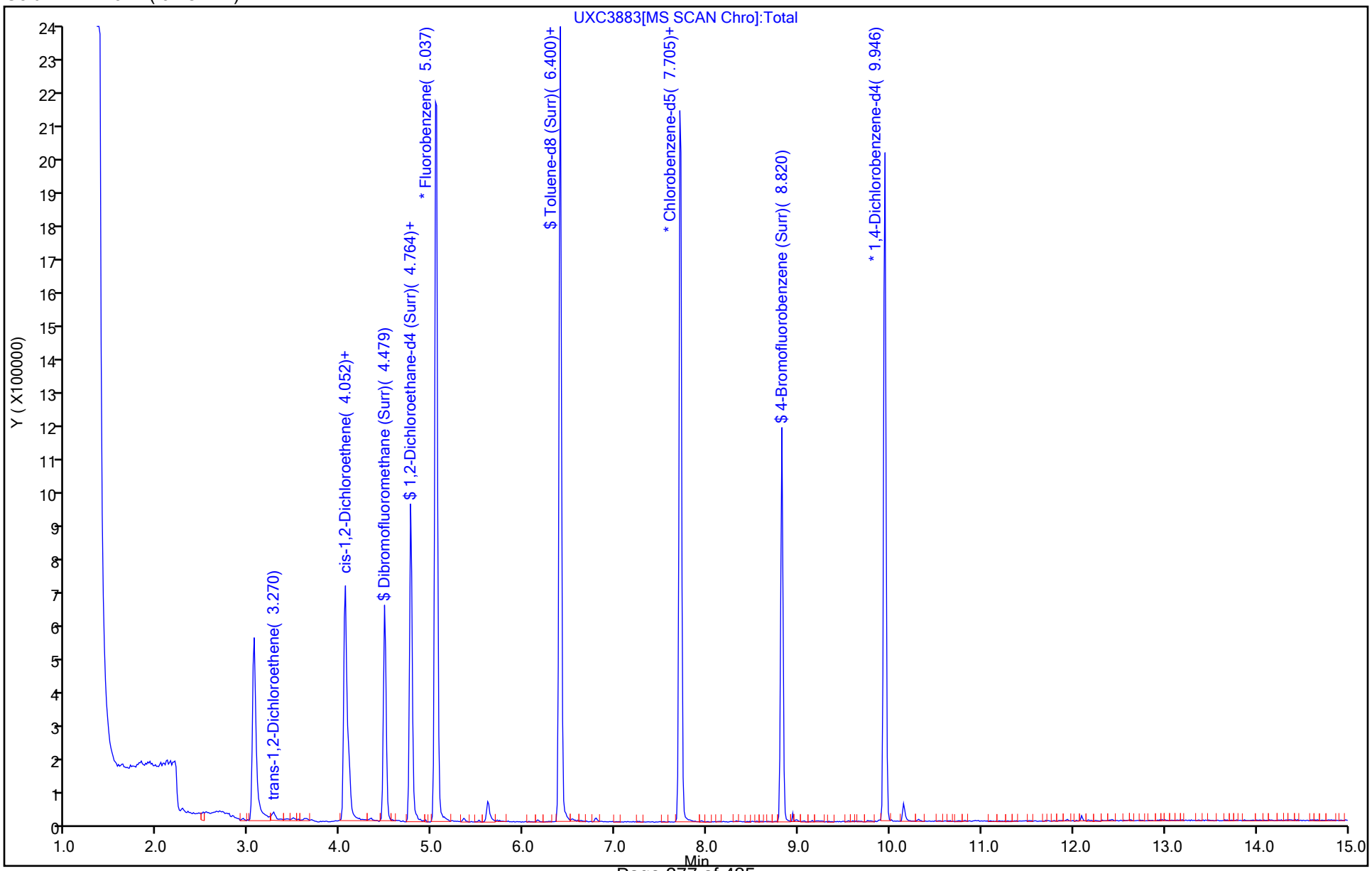
Report Date: 19-Nov-2020 05:38:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3883.D

Injection Date:	18-Nov-2020 13:57:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-17	Lab Sample ID:	240-139669-17	Worklist Smp#:	40
Client ID:	GW-110520-BE-017				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3883.D
Lims ID: 240-139669-B-17
Client ID: GW-110520-BE-017
Sample Type: Client
Inject. Date: 18-Nov-2020 13:57:30 ALS Bottle#: 12 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-040
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 14:16:43

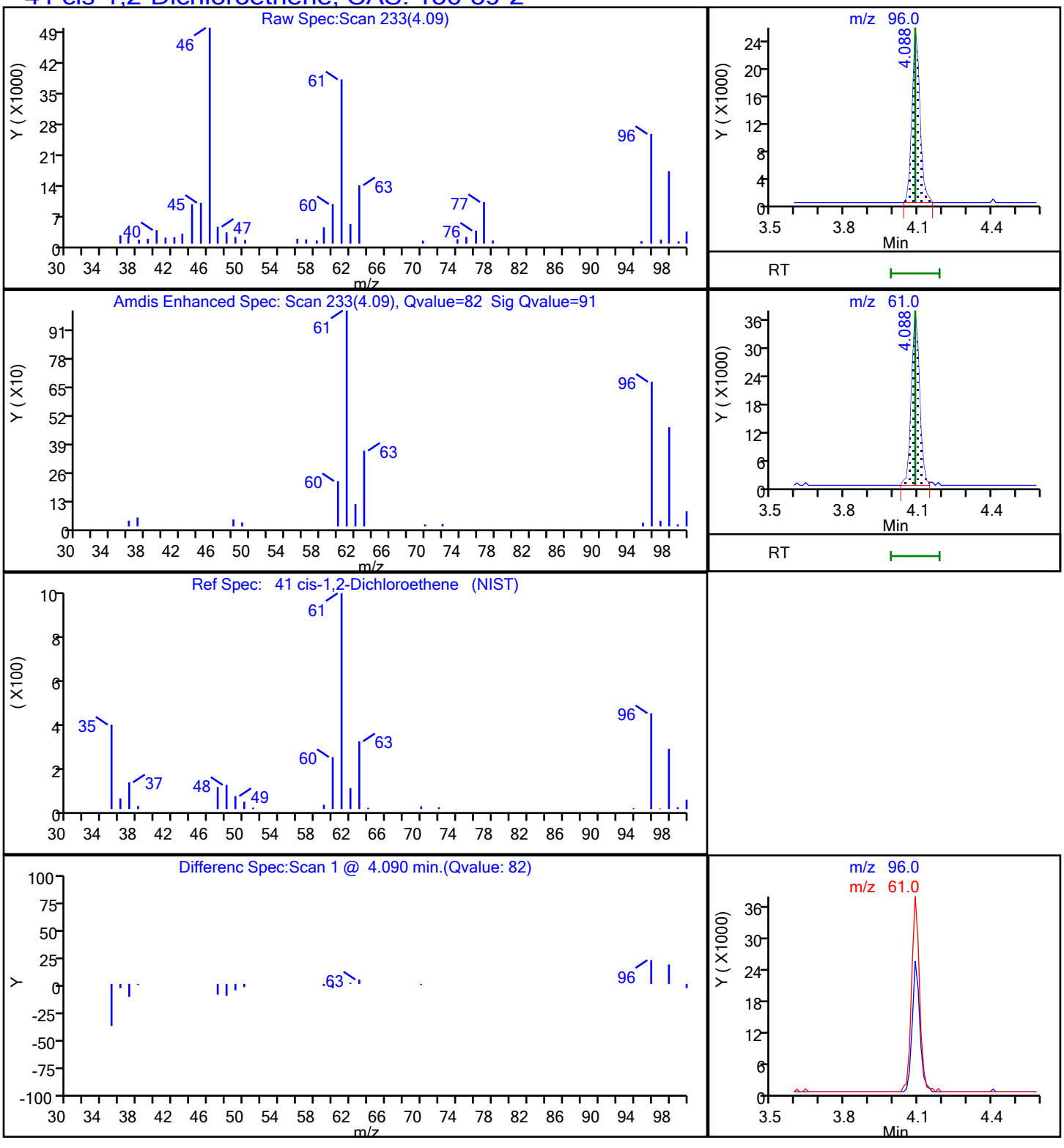
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.47	84.70
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.81
$ 6 Toluene-d8 (Surr)	10.0	9.84	98.43
$ 7 4-Bromofluorobenzene (Surr)	10.0	7.93	79.29

Report Date: 19-Nov-2020 05:38:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3883.D				
Injection Date:	18-Nov-2020 13:57:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-17	Lab Sample ID:	240-139669-17		
Client ID:	GW-110520-BE-017				
Operator ID:	43582	ALS Bottle#:	12	Worklist Smp#:	40
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: EB-110520-BE-001 Lab Sample ID: 240-139669-18

Matrix: Water Lab File ID: UXC3884.D

Analysis Method: 8260B Date Collected: 11/05/2020 14:27

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.1		1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: EB-110520-BE-001 Lab Sample ID: 240-139669-18

Matrix: Water Lab File ID: UXC3884.D

Analysis Method: 8260B Date Collected: 11/05/2020 14:27

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-130
460-00-4	4-Bromofluorobenzene (Surr)	79		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	87		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3884.D
Lims ID: 240-139669-B-18
Client ID: EB-110520-BE-001
Sample Type: Client
Inject. Date: 18-Nov-2020 14:19:30 ALS Bottle#: 13 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-041
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 19-Nov-2020 05:30:18

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.037	5.037	0.000	98	2027779	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1271749	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	529963	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	420828	8.73	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	720492	10.8	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1540949	9.76	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	436079	7.88	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62		1.693				ND	
	13 Bromomethane	94		1.942				ND	
	14 Chloroethane	64		2.025				ND	
	19 1,1-Dichloroethene	96		2.641				ND	
	21 Acetone	58		2.677				ND	7
	24 Carbon disulfide	76	2.843	2.843	0.000	99	178710	1.06	
	28 Methylene Chloride	84		3.045				ND	
	32 trans-1,2-Dichloroethene	96		3.258				ND	7
	35 1,1-Dichloroethane	63		3.614				ND	
	41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	85	7063	0.1217	
	40 2-Butanone (MEK)	72		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.503				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.811				ND	
	56 1,2-Dichloroethane	62		4.823				ND	
	60 Trichloroethene	130		5.345				ND	7
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	7
	73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

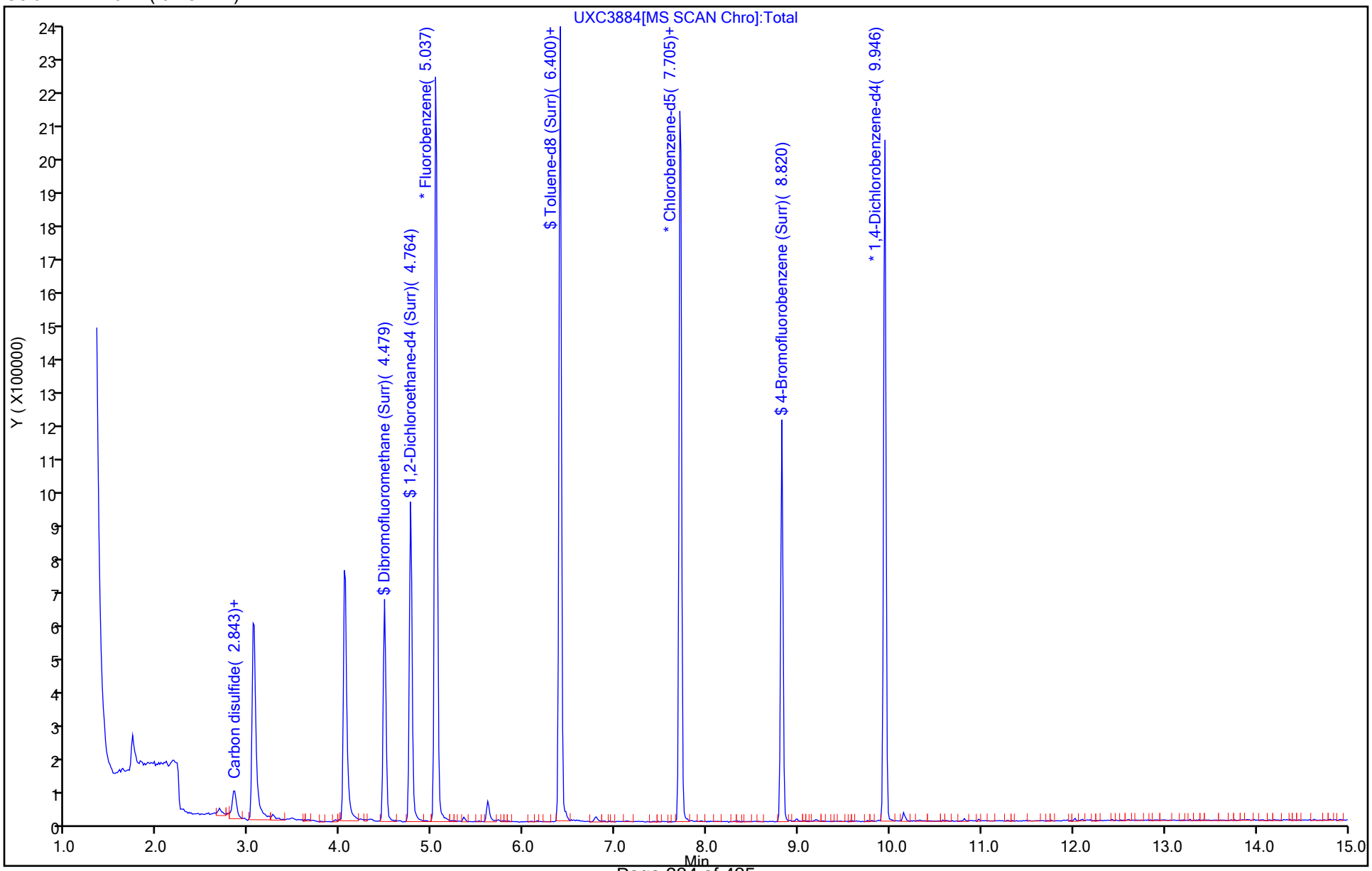
Report Date: 19-Nov-2020 05:38:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3884.D

Injection Date:	18-Nov-2020 14:19:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-18	Lab Sample ID:	240-139669-18	Worklist Smp#:	41
Client ID:	EB-110520-BE-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3884.D
Lims ID: 240-139669-B-18
Client ID: EB-110520-BE-001
Sample Type: Client
Inject. Date: 18-Nov-2020 14:19:30 ALS Bottle#: 13 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-041
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 19-Nov-2020 05:30:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.73	87.28
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.30
$ 6 Toluene-d8 (Surr)	10.0	9.76	97.56
$ 7 4-Bromofluorobenzene (Surr)	10.0	7.88	78.81

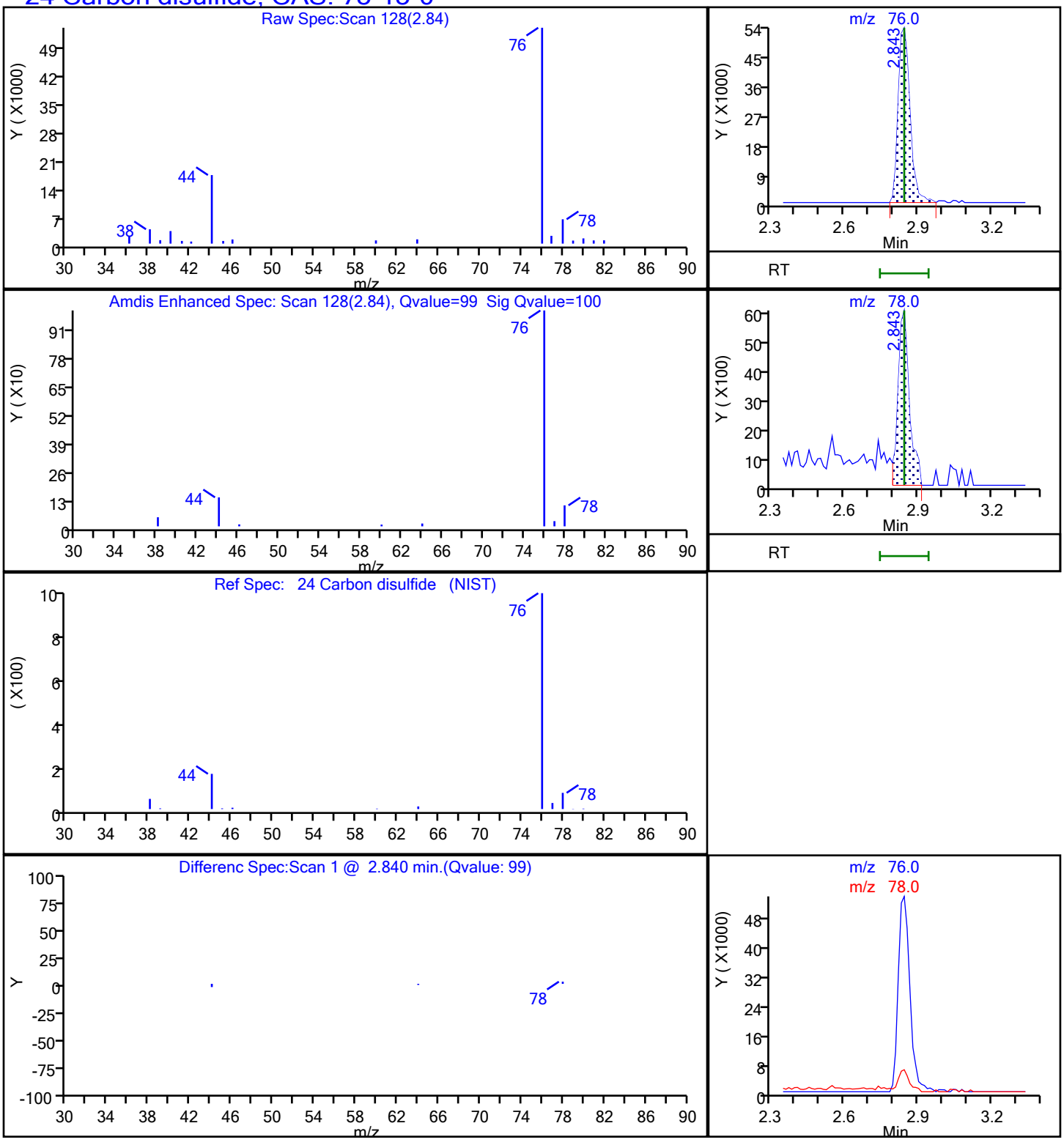
Report Date: 19-Nov-2020 05:38:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3884.D

Injection Date:	18-Nov-2020 14:19:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-18	Lab Sample ID:	240-139669-18		
Client ID:	EB-110520-BE-001				
Operator ID:	43582	ALS Bottle#:	13	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-018 Lab Sample ID: 240-139669-19

Matrix: Water Lab File ID: UXC3885.D

Analysis Method: 8260B Date Collected: 11/05/2020 16:05

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:41

Soil Aliquot Vol: Dilution Factor: 66.67

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	67	U	67	16
79-34-5	1,1,2,2-Tetrachloroethane	67	U	67	8.7
79-00-5	1,1,2-Trichloroethane	67	U *	67	6.0
75-34-3	1,1-Dichloroethane	67	U	67	11
75-35-4	1,1-Dichloroethene	67	U	67	13
107-06-2	1,2-Dichloroethane	67	U	67	14
78-87-5	1,2-Dichloropropane	67	U	67	10
591-78-6	2-Hexanone	670	U	670	36
67-64-1	Acetone	670	U	670	360
71-43-2	Benzene	67	U	67	8.7
75-25-2	Bromoform	67	U	67	51
74-83-9	Bromomethane	67	U	67	28
75-15-0	Carbon disulfide	67	U	67	19
56-23-5	Carbon tetrachloride	67	U	67	17
108-90-7	Chlorobenzene	67	U	67	9.3
75-00-3	Chloroethane	67	U	67	55
67-66-3	Chloroform	67	U	67	8.7
74-87-3	Chloromethane	67	U	67	13
156-59-2	cis-1,2-Dichloroethene	1300		67	11
10061-01-5	cis-1,3-Dichloropropene	67	U	67	41
75-27-4	Dichlorobromomethane	67	U	67	11
100-41-4	Ethylbenzene	67	U	67	7.3
78-93-3	2-Butanone (MEK)	670	U	670	77
108-10-1	4-Methyl-2-pentanone (MIBK)	670	U	670	28
75-09-2	Methylene Chloride	330	U	330	170
100-42-5	Styrene	67	U	67	6.7
127-18-4	Tetrachloroethene	67	U	67	10
108-88-3	Toluene	67	U	67	9.3
156-60-5	trans-1,2-Dichloroethene	25	J	67	13
10061-02-6	trans-1,3-Dichloropropene	67	U	67	45
79-01-6	Trichloroethene	67	U	67	6.7
75-01-4	Vinyl chloride	180		67	13
1330-20-7	Xylenes, Total	130	U	130	10
124-48-1	Chlorodibromomethane	67	U	67	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-018 Lab Sample ID: 240-139669-19

Matrix: Water Lab File ID: UXC3885.D

Analysis Method: 8260B Date Collected: 11/05/2020 16:05

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:41

Soil Aliquot Vol: Dilution Factor: 66.67

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	78		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	89		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3885.D
Lims ID: 240-139669-B-19
Client ID: GW-110520-BE-018
Sample Type: Client
Inject. Date: 18-Nov-2020 14:41:30 ALS Bottle#: 14 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 66.6700
Sample Info: 240-0104072-042
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 19-Nov-2020 05:30:42

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.037	5.037	0.000	98	2045941	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1243069	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	523961	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	431680	8.87	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	704343	10.5	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1512041	9.79	
$	7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	80	420049	7.77	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62	1.693	1.693	0.000	99	176976	2.66	
	13 Bromomethane	94		1.942				ND	
	14 Chloroethane	64		2.025				ND	
	19 1,1-Dichloroethene	96		2.641				ND	
	21 Acetone	58		2.677				ND	7
	24 Carbon disulfide	76		2.843				ND	7
	28 Methylene Chloride	84		3.045				ND	
	32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	92	21176	0.3764	
	35 1,1-Dichloroethane	63		3.614				ND	
	41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	83	1151440	19.7	
	40 2-Butanone (MEK)	72		4.100				ND	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.503				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.811				ND	7
	56 1,2-Dichloroethane	62		4.823				ND	
	60 Trichloroethene	130		5.345				ND	7
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	7
	73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

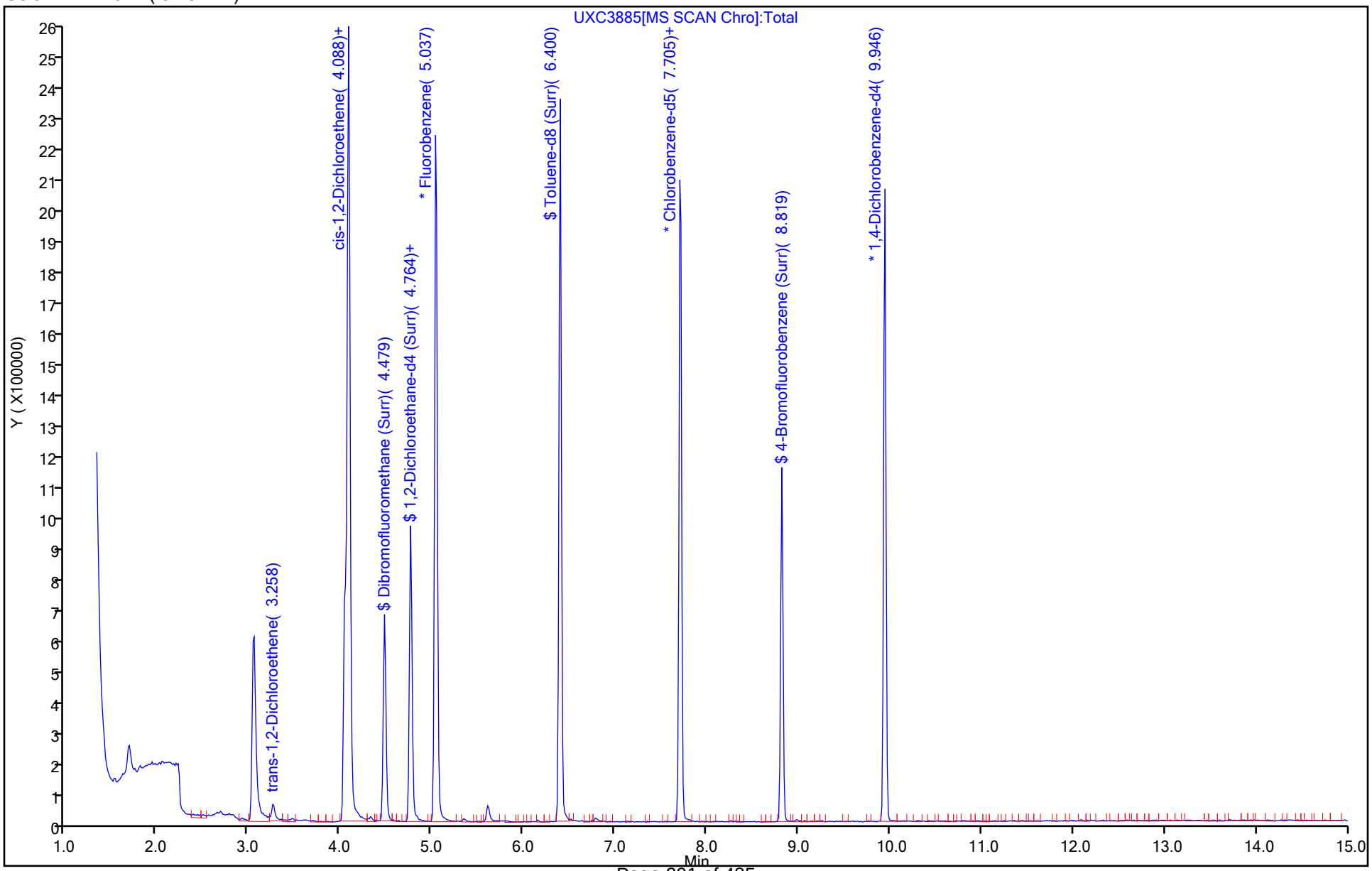
Report Date: 19-Nov-2020 05:38:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3885.D

Injection Date:	18-Nov-2020 14:41:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-19	Lab Sample ID:	240-139669-19	Worklist Smp#:	42
Client ID:	GW-110520-BE-018				
Purge Vol:	5.000 mL	Dil. Factor:	66.6700	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3885.D
Lims ID: 240-139669-B-19
Client ID: GW-110520-BE-018
Sample Type: Client
Inject. Date: 18-Nov-2020 14:41:30 ALS Bottle#: 14 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 66.6700
Sample Info: 240-0104072-042
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 19-Nov-2020 05:30:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.87	88.73
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.93
$ 6 Toluene-d8 (Surr)	10.0	9.79	97.94
$ 7 4-Bromofluorobenzene (Surr)	10.0	7.77	77.67

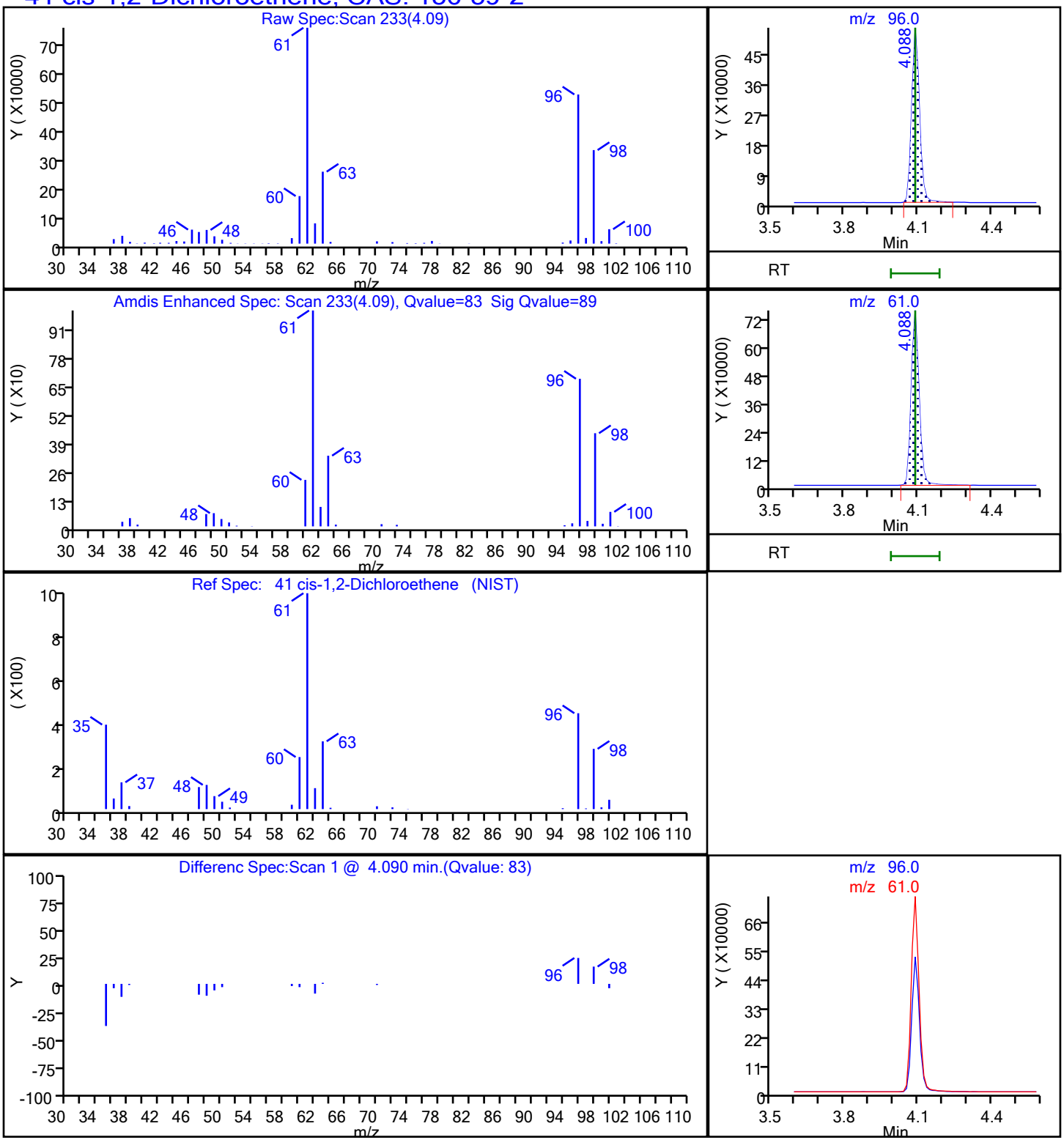
Report Date: 19-Nov-2020 05:38:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3885.D

Injection Date:	18-Nov-2020 14:41:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-19	Lab Sample ID:	240-139669-19		
Client ID:	GW-110520-BE-018				
Operator ID:	43582	ALS Bottle#:	14	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	66.6700		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



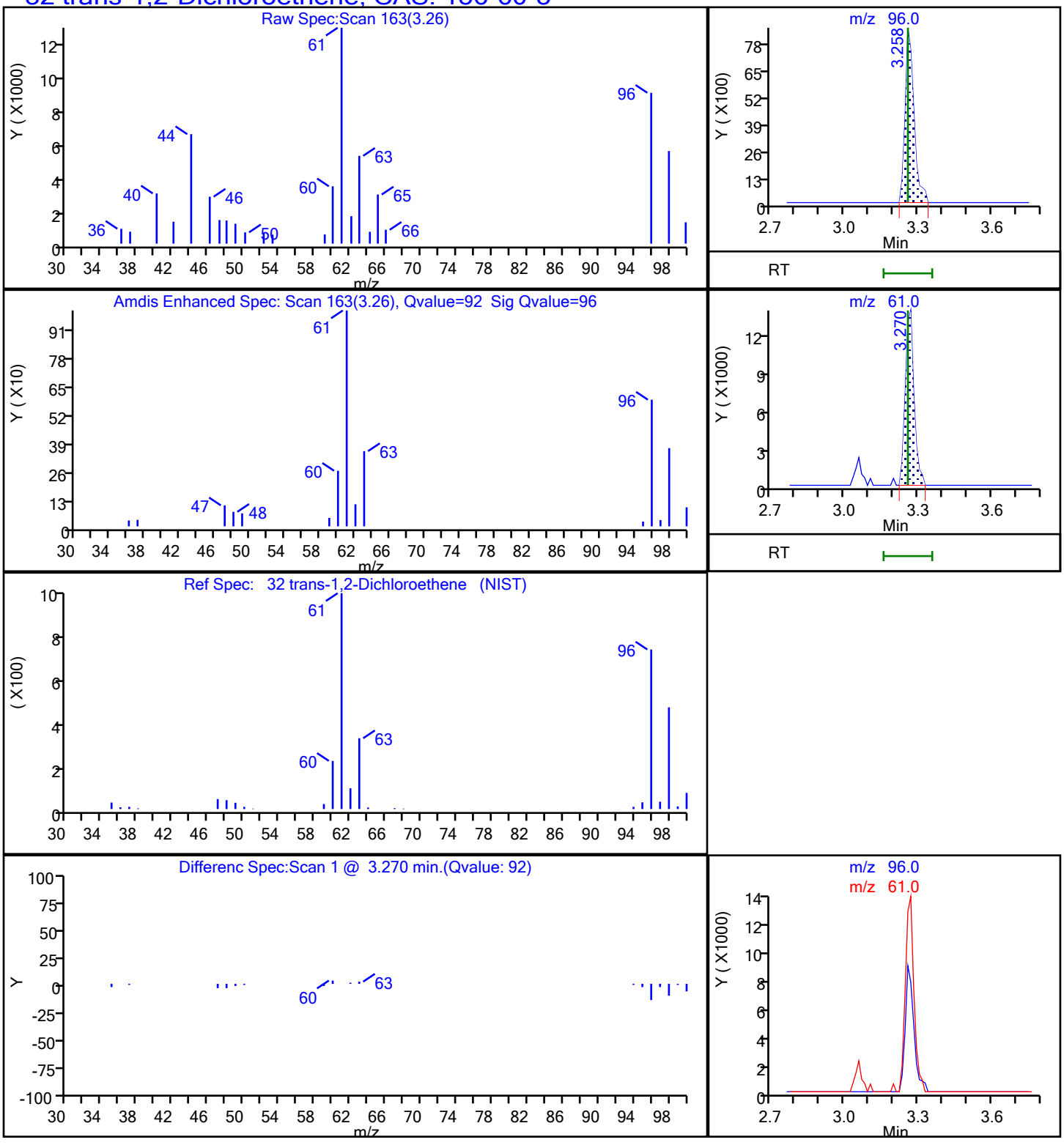
Report Date: 19-Nov-2020 05:38:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3885.D

Injection Date:	18-Nov-2020 14:41:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-19	Lab Sample ID:	240-139669-19		
Client ID:	GW-110520-BE-018				
Operator ID:	43582	ALS Bottle#:	14	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	66.6700		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



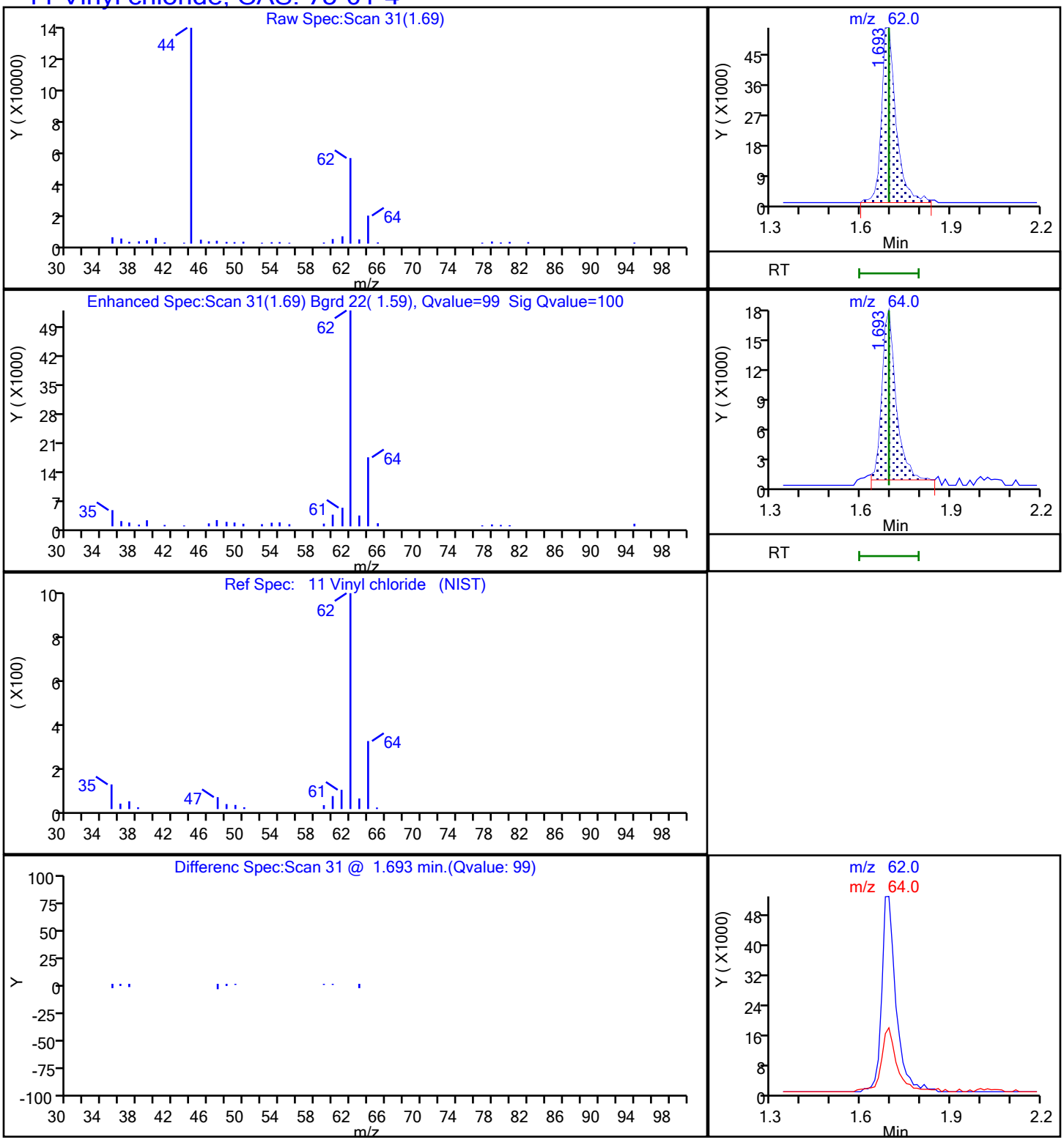
Report Date: 19-Nov-2020 05:38:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3885.D

Injection Date:	18-Nov-2020 14:41:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-19	Lab Sample ID:	240-139669-19		
Client ID:	GW-110520-BE-018				
Operator ID:	43582	ALS Bottle#:	14	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	66.6700		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: TB-110520-BE-002 Lab Sample ID: 240-139669-20

Matrix: Water Lab File ID: UXC3886.D

Analysis Method: 8260B Date Collected: 11/05/2020 16:45

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U *	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: TB-110520-BE-002 Lab Sample ID: 240-139669-20

Matrix: Water Lab File ID: UXC3886.D

Analysis Method: 8260B Date Collected: 11/05/2020 16:45

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	78		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	87		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3886.D
Lims ID: 240-139669-B-20
Client ID: TB-110520-BE-002
Sample Type: Client
Inject. Date: 18-Nov-2020 15:03:30 ALS Bottle#: 15 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-043
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 19-Nov-2020 05:30:59

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.037	5.037	0.000	98	2029563	10.0	
*	2 Chlorobenzene-d5	117	7.717	7.705	0.012	90	1198719	10.0	
*	3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	512794	10.0	
$	4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	421982	8.74	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	702731	10.6	
$	6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1464919	9.84	
$	7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	79	404977	7.76	
	10 Chloromethane	50		1.598				ND	
	11 Vinyl chloride	62		1.693				ND	
	13 Bromomethane	94		1.942				ND	
	14 Chloroethane	64		2.025				ND	
	19 1,1-Dichloroethene	96		2.641				ND	
	21 Acetone	58		2.677				ND	7
	24 Carbon disulfide	76	2.831	2.843	-0.012	98	20439	0.1210	
	28 Methylene Chloride	84		3.045				ND	
	32 trans-1,2-Dichloroethene	96		3.258				ND	
	35 1,1-Dichloroethane	63		3.614				ND	
	41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	80	10049	0.1730	
	40 2-Butanone (MEK)	72	4.112	4.100	0.012	50	878	0.1519	
	48 Chloroform	83		4.349				ND	
	49 1,1,1-Trichloroethane	97		4.503				ND	
	52 Carbon tetrachloride	117		4.645				ND	
	55 Benzene	78		4.811				ND	7
	56 1,2-Dichloroethane	62		4.823				ND	
	60 Trichloroethene	130		5.345				ND	7
	63 1,2-Dichloropropane	63		5.547				ND	
	67 Dichlorobromomethane	83		5.772				ND	
	70 cis-1,3-Dichloropropene	75		6.163				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
	72 Toluene	91		6.460				ND	7
	73 trans-1,3-Dichloropropene	75		6.650				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.816				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.029				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.511				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

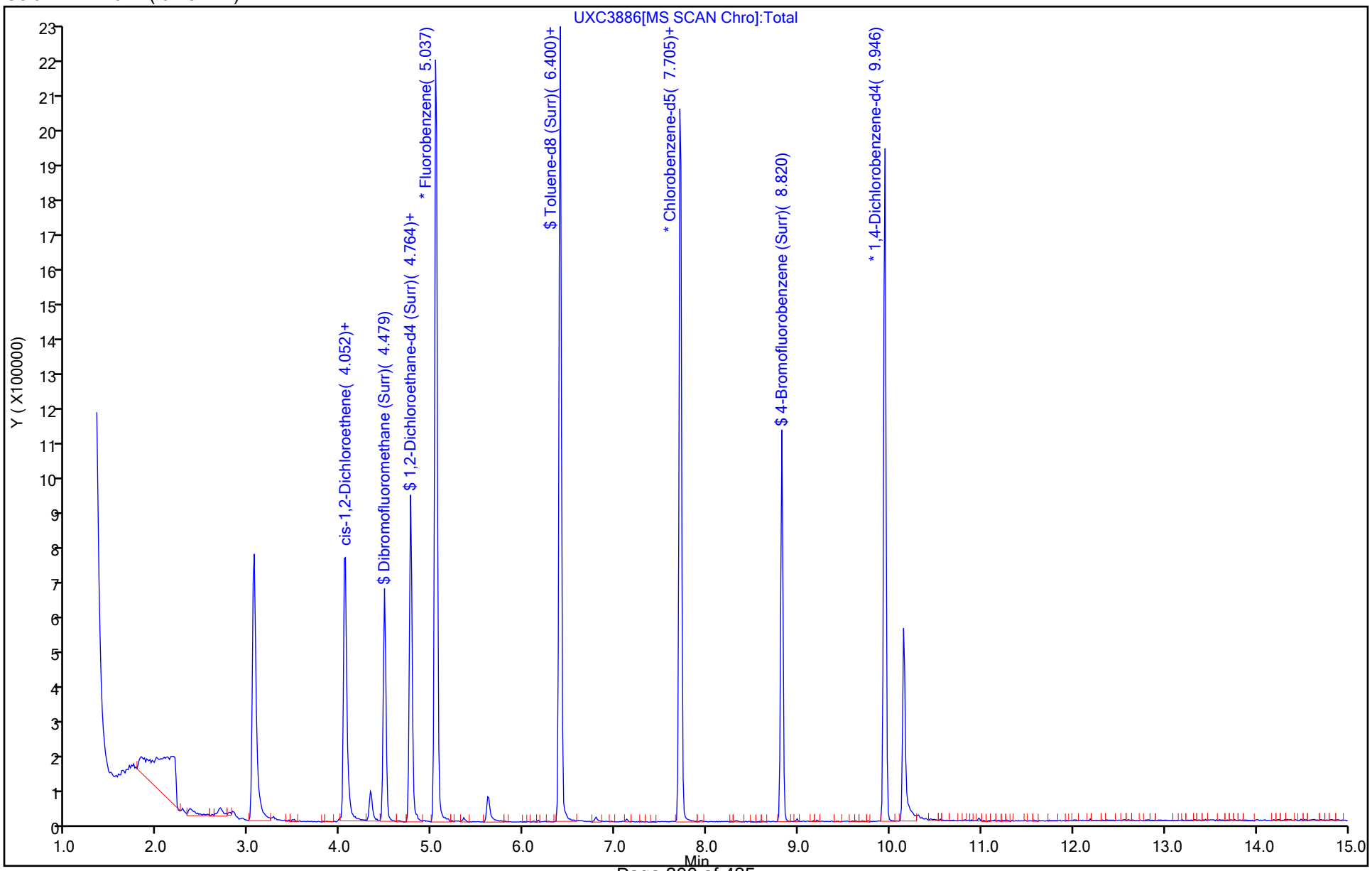
Report Date: 19-Nov-2020 05:39:00 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3886.D

Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-20	Lab Sample ID:	240-139669-20	Worklist Smp#:	43
Client ID:	TB-110520-BE-002				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3886.D
Lims ID: 240-139669-B-20
Client ID: TB-110520-BE-002
Sample Type: Client
Inject. Date: 18-Nov-2020 15:03:30 ALS Bottle#: 15 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-043
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 19-Nov-2020 05:30:59

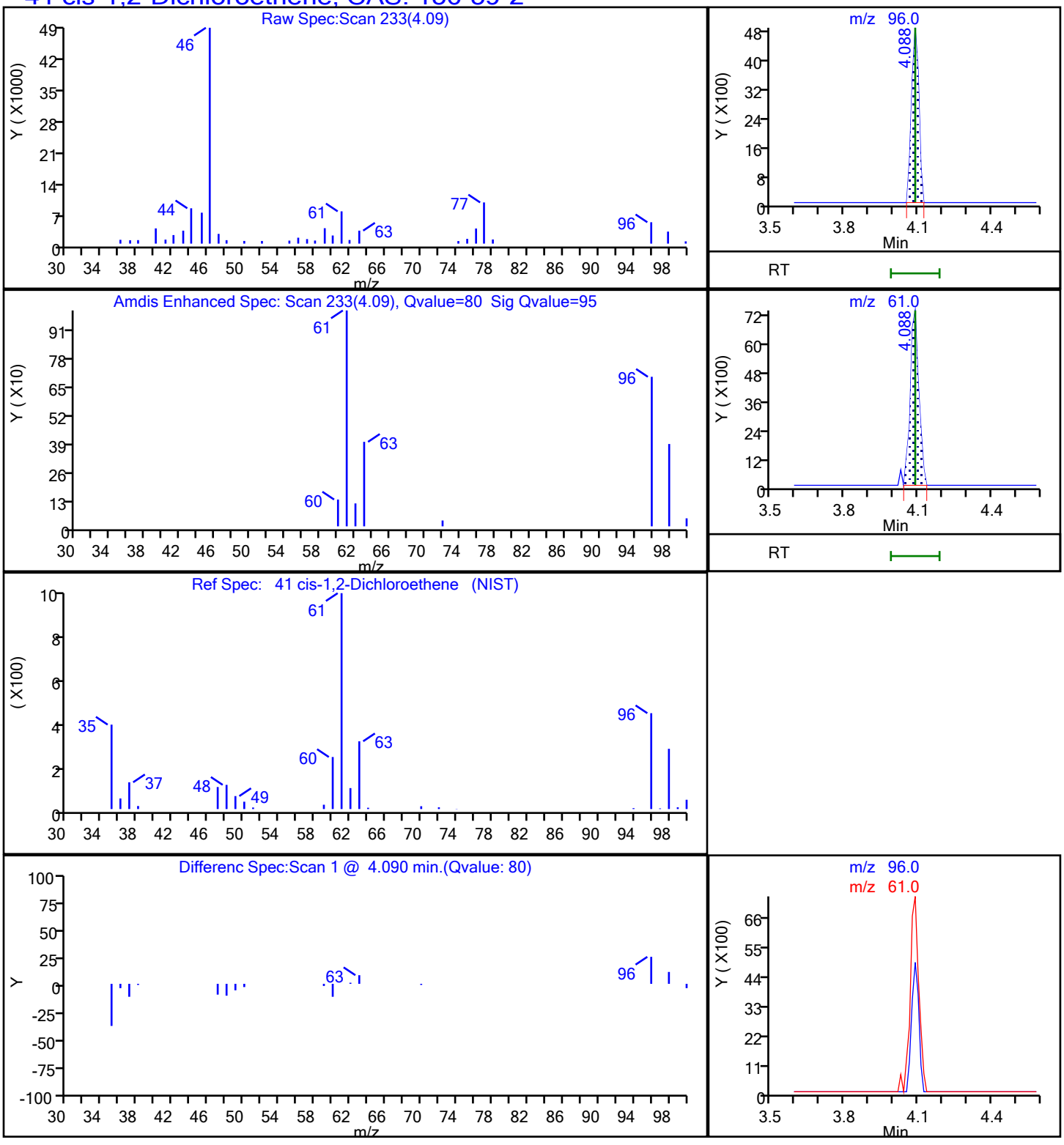
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.74	87.44
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.54
$ 6 Toluene-d8 (Surr)	10.0	9.84	98.40
$ 7 4-Bromofluorobenzene (Surr)	10.0	7.76	77.65

Report Date: 19-Nov-2020 05:39:01 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3886.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	A3UX15		
Lims ID:	240-139669-B-20	Lab Sample ID:	240-139669-20		
Client ID:	TB-110520-BE-002				
Operator ID:	43582	ALS Bottle#:	15	Worklist Smp#:	43
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442673/7	UXC0322.D
Level 2	STD8260 240-442673/6	UXC0321.D
Level 3	STD8260 240-442673/5	UXC0320.D
Level 4	STD8260 240-442673/4	UXC0319.D
Level 5	STD8260 240-442673/3	UXC0318.D
Level 6	STD8260 240-442673/2	UXC0317.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2613 0.2626	0.2730	0.2887	0.2758	0.2839	Ave		0.2742				4.0		15.0			
Chloromethane	0.3464 0.2944	0.3476	0.3313	0.3274	0.3181	Ave		0.3275			0.1000	6.0		15.0			
Vinyl chloride	0.3568 0.3027	0.3232	0.3357	0.3273	0.3022	Ave		0.3246				6.4		15.0			
Butadiene	0.3916 0.3310	0.4046	0.3831	0.3600	0.3509	Ave		0.3702				7.5		15.0			
Bromomethane	0.2967 0.2571	0.2709	0.2855	0.2754	0.2523	Ave		0.2730				6.2		15.0			
Chloroethane	0.2893 0.2403	0.2549	0.2562	0.2456	0.2395	Ave		0.2543				7.3		15.0			
Dichlorofluoromethane	0.6731 0.5728	0.6466	0.6146	0.6078	0.5745	Ave		0.6149				6.4		15.0			
Trichlorofluoromethane	0.5157 0.5450	0.5157	0.5569	0.5439	0.5399	Ave		0.5362				3.1		15.0			
Ethyl ether	0.2830 0.2705	0.2819	0.2794	0.2674	0.2630	Ave		0.2742				3.0		15.0			
Acrolein	0.0234 0.0202	0.0244	0.0204	0.0207	0.0205	Ave		0.0216				8.5		15.0			
1,1-Dichloroethene	0.3334 0.2928	0.3083	0.2956	0.2855	0.2892	Ave		0.3008				5.9		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1867 0.2553	0.2144	0.2351	0.2234	0.2464	Ave		0.2269				10.9		15.0			
Acetone	0.0600 0.0270	0.0426	0.0326	0.0295	0.0248	Lin1	0.0690	0.0253							0.9960		0.9900
Iodomethane	0.5734 0.5215	0.5038	0.5533	0.5304	0.5161	Ave		0.5331				4.8		15.0			
Carbon disulfide	1.0090 0.8697	0.7019	0.9132	0.7139	0.7877	Ave		0.8326				14.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1669 0.1684	0.1495	0.1649	0.1589	0.1676	Ave		0.1627				4.5		15.0			
Methyl acetate	0.1935 0.1812	0.1800	0.1862	0.1721	0.1709	Ave		0.1806				4.7		15.0			
Methylene Chloride	0.3066 0.2452	0.2655	0.2674	0.2489	0.2487	Ave		0.2637				8.7		15.0			
2-Methyl-2-propanol	0.0146 0.0141	0.0146	0.0139	0.0133	0.0130	Ave		0.0139				4.9		15.0			
Acrylonitrile	0.0891 0.0910	0.0832	0.0873	0.0849	0.0844	Ave		0.0866				3.5		15.0			
Methyl tert-butyl ether	0.6707 0.7859	0.6378	0.6887	0.6832	0.7167	Ave		0.6972				7.2		15.0			
trans-1,2-Dichloroethene	0.2992 0.2773	0.2660	0.2737	0.2607	0.2731	Ave		0.2750				4.8		15.0			
Hexane	0.0376 0.0557	0.0437	0.0477	0.0458	0.0534	Ave		0.0473				14.0		15.0			
1,1-Dichloroethane	0.4725 0.4585	0.4398	0.4654	0.4507	0.4582	Ave		0.4575			0.1000	2.5		15.0			
Vinyl acetate	0.3875 0.5117	0.4069	0.4407	0.4551	0.4754	Ave		0.4462				10.1		15.0			
2,2-Dichloropropane	0.0733 0.0706	0.0693	0.0703	0.0691	0.0746	Ave		0.0712				3.1		15.0			
cis-1,2-Dichloroethene	0.2996 0.2771	0.2857	0.2923	0.2798	0.2826	Ave		0.2862				2.9		15.0			
2-Butanone (MEK)	0.0292 0.0289	0.0284	0.0275	0.0291	0.0277	Ave		0.0285				2.5		15.0			
Chlorobromomethane	0.1414 0.1401	0.1347	0.1431	0.1403	0.1430	Ave		0.1404				2.2		15.0			
Tetrahydrofuran	0.0675 0.0679	0.0744	0.0648	0.0651	0.0637	Ave		0.0672				5.8		15.0			
Chloroform	0.4709 0.4637	0.4458	0.4647	0.4478	0.4619	Ave		0.4591				2.2		15.0			
1,1,1-Trichloroethane	0.3489 0.4014	0.3589	0.3789	0.3830	0.3996	Ave		0.3785				5.6		15.0			
Cyclohexane	0.2998 0.3990	0.3370	0.3798	0.3550	0.4062	Ave		0.3628				11.2		15.0			
1,1-Dichloropropene	0.3703 0.3779	0.3619	0.3657	0.3646	0.3776	Ave		0.3697				1.8		15.0			
Carbon tetrachloride	0.2801 0.3638	0.2626	0.3136	0.3175	0.3562	Ave		0.3156				12.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0051 0.0062	0.0055	0.0052	0.0054	0.0057	Ave		0.0055				7.5		15.0			
Benzene	1.0953 1.1378	1.0343	1.0868	1.0737	1.0990	Ave		1.0878				3.1		15.0			
1,2-Dichloroethane	0.3982 0.4041	0.3985	0.4020	0.3958	0.3970	Ave		0.3993				0.8		15.0			
n-Heptane	0.0408 0.0491	0.0410	0.0410	0.0434	0.0471	Ave		0.0437				8.1		15.0			
Trichloroethene	0.2952 0.2930	0.2870	0.2966	0.2894	0.2957	Ave		0.2928				1.3		15.0			
Methylcyclohexane	0.2359 0.3367	0.2798	0.3078	0.2937	0.3346	Ave		0.2981				12.7		15.0			
1,2-Dichloropropane	0.2545 0.2545	0.2412	0.2570	0.2464	0.2514	Ave		0.2508				2.4		15.0			
Dibromomethane	0.1558 0.1551	0.1479	0.1530	0.1519	0.1524	Ave		0.1527				1.8		15.0			
1,4-Dioxane	0.0013 0.0016	0.0014	0.0014	0.0017	0.0017	Ave		0.0015				12.3		15.0			
Dichlorobromomethane	0.2679 0.3377	0.2600	0.2950	0.3045	0.3190	Ave		0.2974				10.0		15.0			
2-Chloroethyl vinyl ether	0.1379 0.1617	0.1427	0.1427	0.1471	0.1504	Ave		0.1471				5.7		15.0			
cis-1,3-Dichloropropene	0.3079 0.4236	0.3208	0.3549	0.3717	0.3962	Ave		0.3625				12.2		15.0			
4-Methyl-2-pentanone (MIBK)	0.1969 0.2355	0.1988	0.2206	0.2119	0.2192	Ave		0.2138				6.8		15.0			
Toluene	1.4373 1.5847	1.3401	1.3867	1.4288	1.4889	Ave		1.4444				5.9		15.0			
trans-1,3-Dichloropropene	0.3438 0.4847	0.3542	0.3889	0.4193	0.4455	Ave		0.4061				13.4		15.0			
Ethyl methacrylate	0.3073 0.3860	0.2780	0.3386	0.3423	0.3577	Ave		0.3350				11.3		15.0			
1,1,2-Trichloroethane	0.2567 0.2660	0.2406	0.2611	0.2563	0.2622	Ave		0.2571				3.4		15.0			
Tetrachloroethene	0.2537 0.2765	0.2623	0.2598	0.2651	0.2745	Ave		0.2653				3.3		15.0			
1,3-Dichloropropane	0.4759 0.4896	0.4759	0.4784	0.4768	0.4779	Ave		0.4791				1.1		15.0			
2-Hexanone	0.1520 0.1923	0.1828	0.1879	0.1776	0.1823	Ave		0.1792				7.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodibromomethane	0.2177 0.3124	0.2117	0.2378	0.2628	0.2905	Lin1	-0.154	0.3037							0.9950		0.9900
Ethylene Dibromide	0.2697 0.2782	0.2481	0.2591	0.2663	0.2716	Ave		0.2655				4.0		15.0			
Chlorobenzene	0.9340 0.9608	0.8972	0.9152	0.9007	0.9214	Ave		0.9216			0.3000	2.6		15.0			
1,1,1,2-Tetrachloroethane	0.2706 0.3364	0.2467	0.2944	0.3066	0.3289	Ave		0.2973				11.6		15.0			
Ethylbenzene	0.4490 0.5034	0.4318	0.4801	0.4827	0.4964	Ave		0.4739				5.9		15.0			
m-Xylene & p-Xylene	1.1280 1.2903	1.0751	1.1570	1.1616	1.2130	Ave		1.1708				6.3		15.0			
o-Xylene	0.5561 0.6293	0.5548	0.5819	0.5949	0.6104	Ave		0.5879				5.1		15.0			
Styrene	0.8879 1.1288	0.8685	0.9579	0.9814	1.0501	Ave		0.9791				10.1		15.0			
Bromoform	0.1178 0.2090	0.1063	0.1302	0.1513	0.1813	Qua	-0.102	0.1540	0.0014455		0.1000				1.0000		0.9900
Isopropylbenzene	1.2658 1.6102	1.2692	1.3722	1.3899	1.5119	Ave		1.4032				9.7		15.0			
1,1,2,2-Tetrachloroethane	0.6201 0.5523	0.5825	0.6034	0.5717	0.5659	Ave		0.5827			0.3000	4.3		15.0			
Bromobenzene	0.6691 0.6521	0.6647	0.6986	0.6449	0.6542	Ave		0.6639				2.9		15.0			
1,2,3-Trichloropropane	0.2204 0.1887	0.2056	0.2045	0.1967	0.1938	Ave		0.2016				5.6		15.0			
trans-1,4-Dichloro-2-butene	0.1920 0.1772	0.1666	0.1873	0.1758	0.1673	Ave		0.1777				5.8		15.0			
N-Propylbenzene	0.6008 0.6542	0.6160	0.6727	0.6431	0.6568	Ave		0.6406				4.2		15.0			
2-Chlorotoluene	0.6348 0.5920	0.6036	0.6216	0.6010	0.6109	Ave		0.6106				2.5		15.0			
1,3,5-Trimethylbenzene	1.8211 2.0746	1.8543	2.0261	1.9701	2.0374	Ave		1.9639				5.3		15.0			
4-Chlorotoluene	2.0931 2.1066	2.0386	2.1028	2.0332	2.0709	Ave		2.0742				1.6		15.0			
tert-Butylbenzene	1.5156 1.6860	1.5109	1.6690	1.5958	1.7019	Ave		1.6132				5.3		15.0			
1,2,4-Trimethylbenzene	1.9256 2.1837	1.9370	2.0901	2.0235	2.1458	Ave		2.0510				5.2		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	1.9193 2.2194	1.9509	2.1174	2.0924	2.2298	Ave		2.0882				6.3		15.0			
1,3-Dichlorobenzene	1.2293 1.2274	1.1815	1.2760	1.2137	1.2250	Ave		1.2255				2.5		15.0			
4-Isopropyltoluene	1.7596 2.0591	1.7607	1.9563	1.9315	2.0685	Ave		1.9226				7.1		15.0			
1,4-Dichlorobenzene	1.4164 1.3137	1.2878	1.3319	1.2817	1.3163	Ave		1.3246				3.7		15.0			
n-Butylbenzene	1.4296 1.5094	1.4547	1.5756	1.5117	1.5943	Ave		1.5126				4.3		15.0			
1,2-Dichlorobenzene	1.2704 1.2569	1.2384	1.2982	1.2364	1.2582	Ave		1.2598				1.8		15.0			
1,2-Dibromo-3-Chloropropane	0.0900 0.1097	0.0921	0.0999	0.0978	0.1034	Ave		0.0988				7.4		15.0			
1,2,4-Trichlorobenzene	0.7428 0.5809	0.7142	0.7316	0.6569	0.6321	Ave		0.6764				9.4		15.0			
Hexachlorobutadiene	0.3814 0.2204	0.3471	0.3213	0.2741	0.2566	Qua	0.1424	0.2817	-0.001623						1.0000		0.9900
Naphthalene	1.8744 1.6282	1.6872	1.8675	1.6931	1.6714	Ave		1.7370				6.1		15.0			
1,2,3-Trichlorobenzene	0.7458 0.5054	0.6324	0.6469	0.5926	0.5578	Ave		0.6135				13.5		15.0			
Dibromofluoromethane (Surr)	0.2396 0.2391	0.2265	0.2388	0.2383	0.2444	Ave		0.2378				2.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3566 0.3149	0.3235	0.3222	0.3237	0.3276	Ave		0.3281				4.4		15.0			
Toluene-d8 (Surr)	1.2382 1.2974	1.1983	1.2135	1.2376	1.2665	Ave		1.2419				2.9		15.0			
4-Bromofluorobenzene (Surr)	0.4574 0.4449	0.4147	0.4253	0.4278	0.4405	Ave		0.4351				3.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442673/7	UXC0322.D
Level 2	STD8260 240-442673/6	UXC0321.D
Level 3	STD8260 240-442673/5	UXC0320.D
Level 4	STD8260 240-442673/4	UXC0319.D
Level 5	STD8260 240-442673/3	UXC0318.D
Level 6	STD8260 240-442673/2	UXC0317.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	34208 1760864	76081	206320	420321	910832	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	45347 1973628	96875	236744	498961	1020500	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	46710 2029220	90075	239901	498870	969328	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	51272 2219285	112763	273735	548736	1125561	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	38839 1723795	75507	204045	419693	809286	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	37874 1611305	71037	183045	374298	768189	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	88120 3840012	180232	439198	926362	1842997	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	67509 3653819	143732	397940	828979	1732110	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	37048 1813601	78571	199629	407577	843666	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	15308 676123	34074	72866	157855	328684	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	43645 1963312	85934	211238	435096	927763	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	24445 1711542	59756	168029	340418	790521	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	15699 362468	23762	46640	89786	159205	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	75063 3496420	140427	395408	808393	1655710	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	132094 5830650	195650	652584	1088081	2526956	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	21846 1128801	41665	117840	242200	537735	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	50658 2429634	100348	266120	524601	1096508	2.00 80.0	4.00	10.0	20.0	40.0
Methylene Chloride	FB	Ave	40134 1643776	73996	191087	379310	797960	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	19087 947610	40795	99077	202920	415736	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	116597 6102312	231851	623580	1294049	2708075	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	87810 5269057	177783	492127	1041316	2299095	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	39170 1859268	74138	195605	397300	876259	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	4920 373347	12170	34077	69816	171385	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	61854 3074130	122593	332536	686945	1469776	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	50734 3430909	113415	314892	693661	1525128	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	9590 473402	19328	50257	105382	239182	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	39220 1858024	79625	208849	426408	906703	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	7649 387901	15859	39373	88690	177553	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	18509 939045	37537	102285	213819	458710	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	17675 910314	41450	92539	198485	408382	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	61650 3109017	124249	332073	682453	1481660	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	45674 2691367	100048	270788	583710	1281850	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	39244 2674808	93923	271386	541046	1303121	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	48474 2533693	100865	261355	555754	1211288	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	36666 2439258	73200	224073	483914	1142727	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	16586 1047424	38570	93740	204875	458728	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	143387 7628057	288276	776586	1636345	3525730	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	52125 2709333	111084	287270	603257	1273613	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	5347 328937	11418	29317	66188	151114	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	38650 1964221	79981	211929	441013	948583	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	30877 2257271	77979	219943	447552	1073489	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	33314 1706563	67224	183674	375491	806567	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	20400 1039887	41212	109320	231553	488923	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	3361 217225	7651	19794	51451	110130	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	35076 2264127	72482	210823	464128	1023368	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	36108 2168741	79527	203930	448387	964696	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	40309 2839622	89417	253640	566577	1271077	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	51544 3157172	110825	315229	645946	1406428	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBNZ d5	Ave	144790 8686510	292646	771811	1701273	3805298	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	34639 2657176	77362	216435	499297	1138601	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	30953 2115670	60701	188458	407611	914233	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	25857 1458029	52547	145334	305142	670018	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	25553 1515545	57274	144585	315672	701447	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	47939 2683582	103936	266250	567728	1221266	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBNZ d5	Ave	30628 2108060	79861	209165	423001	931783	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBNZ d5	Lin1	21933 1712637	46226	132374	312867	742304	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	27167 1524949	54171	144183	317052	694096	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	94094 5266892	195930	509365	1072501	2354800	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	27261 1844163	53867	163834	365103	840651	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	45235 2759185	94304	267197	574718	1268751	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	113635 7073072	234774	643982	1383073	3100061	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBNZ d5	Ave	56021 3449833	121163	323892	708344	1560095	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBNZ d5	Ave	89448 6187630	189671	533146	1168595	2683796	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBNZ d5	Qua	11865 1145639	23218	72471	180094	463306	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBNZ d5	Ave	127516 8826748	277174	763709	1654978	3863945	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	35125 1939129	69534	188206	404712	896523	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCBd 4	Ave	37900 2289503	79344	217890	456551	1036459	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	12485 662540	24539	63789	139233	306952	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	10877 622282	19888	58401	124484	264986	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	34035 2297120	73530	209809	455266	1040511	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	35959 2078661	72054	193864	425445	967720	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	103163 7284237	221338	631906	1394679	3227728	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	118570 7396721	243339	655852	1439288	3280770	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	85852 5920044	180352	520554	1129693	2696132	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	109081 7667565	231210	651871	1432476	3399446	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	108724 7792680	232873	660396	1481248	3532401	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	69634 4309620	141034	397961	859183	1940677	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCBd 4	Ave	99676 7230023	210172	610160	1367355	3276940	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	80236 4612724	153718	415388	907360	2085253	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	80981 5299843	173642	491419	1070147	2525730	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	71966 4413220	147829	404904	875286	1993178	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	5097 385201	10997	31150	69215	163781	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	42079 2039746	85248	228163	465035	1001445	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCBd 4	Qua	21605 773699	41437	100212	194068	406459	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCBd 4	Ave	106177 5716933	201391	582460	1198535	2647849	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	42250 1774553	75490	201752	419491	883703	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	31373 1603108	63126	170613	363181	784042	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	46678 2111275	90176	230236	493412	1050811	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	124734 7112095	261682	675431	1473627	3236806	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	46077 2438586	90558	236690	509359	1125888	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0317.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Jul-2020 08:39:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-002
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 09:12:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1676083	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	84	1370410	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	89	877806	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	1603108	40.0	40.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	2111275	40.0	38.4	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	93	7112095	40.0	41.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	93	2438586	40.0	40.9	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	1760864	40.0	38.3	
10 Chloromethane	50	1.598	1.598	0.000	99	1973628	40.0	36.0	
11 Vinyl chloride	62	1.693	1.693	0.000	98	2029220	40.0	37.3	
12 Butadiene	54	1.693	1.693	0.000	97	2219285	40.0	35.8	
13 Bromomethane	94	1.942	1.942	0.000	92	1723795	40.0	37.7	
14 Chloroethane	64	2.025	2.025	0.000	100	1611305	40.0	37.8	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	3840012	40.0	37.3	
16 Trichlorofluoromethane	101	2.238	2.226	0.012	98	3653819	40.0	40.7	
17 Ethyl ether	59	2.440	2.440	0.000	91	1813601	40.0	39.5	
18 Acrolein	56	2.558	2.558	0.000	99	676123	200.0	186.7	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	1963312	40.0	38.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	93	1711542	40.0	45.0	
21 Acetone	58	2.677	2.677	0.000	99	362468	80.0	82.7	
22 Iodomethane	142	2.772	2.772	0.000	99	3496420	40.0	39.1	
24 Carbon disulfide	76	2.831	2.831	0.000	100	5830650	40.0	41.8	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	86	1128801	40.0	41.4	
27 Methyl acetate	43	2.950	2.950	0.000	98	2429634	80.0	80.2	
28 Methylene Chloride	84	3.045	3.044	0.000	95	1643776	40.0	37.2	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	95	947610	400.0	406.3	
30 Acrylonitrile	53	3.246	3.246	0.000	99	6102312	400.0	420.2	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	96	5269057	40.0	45.1	
32 trans-1,2-Dichloroethene	96	3.258	3.270	-0.012	96	1859268	40.0	40.3	
34 Hexane	86	3.483	3.471	0.012	94	373347	40.0	47.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	3074130	40.0	40.1	
36 Vinyl acetate	43	3.637	3.637	0.000	98	3430909	40.0	45.9	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	74	473402	40.0	39.7	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	1858024	40.0	38.7	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	387901	80.0	81.2	
46 Chlorobromomethane	128	4.290	4.290	0.000	95	939045	40.0	39.9	
47 Tetrahydrofuran	42	4.325	4.325	0.000	88	910314	80.0	80.8	
48 Chloroform	83	4.349	4.349	0.000	94	3109017	40.0	40.4	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	2691367	40.0	42.4	
50 Cyclohexane	56	4.551	4.551	0.001	92	2674808	40.0	44.0	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	92	2533693	40.0	40.9	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	2439258	40.0	46.1	
53 Isobutyl alcohol	41	4.717	4.717	0.000	93	1047424	1000.0	1129.5	
55 Benzene	78	4.811	4.811	0.000	96	7628057	40.0	41.8	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	2709333	40.0	40.5	
58 n-Heptane	100	5.013	5.013	0.000	92	328937	40.0	44.9	
60 Trichloroethene	130	5.345	5.345	0.000	96	1964221	40.0	40.0	
62 Methylcyclohexane	83	5.511	5.511	0.000	91	2257271	40.0	45.2	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	1706563	40.0	40.6	
65 Dibromomethane	93	5.653	5.653	0.000	92	1039887	40.0	40.6	
66 1,4-Dioxane	88	5.653	5.653	0.000	83	217225	800.0	857.8	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	2264127	40.0	45.4	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	2168741	80.0	88.0	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	93	2839622	40.0	46.7	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	3157172	80.0	88.1	
72 Toluene	91	6.460	6.460	0.000	97	8686510	40.0	43.9	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	95	2657176	40.0	47.7	
74 Ethyl methacrylate	69	6.709	6.709	0.000	89	2115670	40.0	46.1	
75 1,1,2-Trichloroethane	97	6.816	6.815	0.001	92	1458029	40.0	41.4	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	1515545	40.0	41.7	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	92	2683582	40.0	40.9	
78 2-Hexanone	43	7.029	7.029	0.000	97	2108060	80.0	85.9	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	1712637	40.0	41.7	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	1524949	40.0	41.9	
84 Chlorobenzene	112	7.740	7.740	0.000	97	5266892	40.0	41.7	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	94	1844163	40.0	45.3	
86 Ethylbenzene	106	7.835	7.835	0.000	98	2759185	40.0	42.5	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	92	7073072	40.0	44.1	
88 o-Xylene	106	8.322	8.322	0.000	97	3449833	40.0	42.8	
89 Styrene	104	8.333	8.333	0.000	95	6187630	40.0	46.1	
90 Bromoform	173	8.523	8.523	0.000	98	1145639	40.0	40.0	
91 Isopropylbenzene	105	8.665	8.665	0.000	94	8826748	40.0	45.9	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	1939129	40.0	37.9	
95 Bromobenzene	156	8.974	8.974	0.000	94	2289503	40.0	39.3	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	89	662540	40.0	37.4	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	81	622282	40.0	39.9	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	2297120	40.0	40.8	
99 2-Chlorotoluene	126	9.152	9.152	0.000	98	2078661	40.0	38.8	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	7284237	40.0	42.3	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	7396721	40.0	40.6	
104 tert-Butylbenzene	119	9.555	9.555	0.000	90	5920044	40.0	41.8	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	95	7667565	40.0	42.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	93	7792680	40.0	42.5	
108 1,3-Dichlorobenzene	146	9.887	9.875	0.012	98	4309620	40.0	40.1	
109 4-Isopropyltoluene	119	9.911	9.899	0.012	97	7230023	40.0	42.8	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	97	4612724	40.0	39.7	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	5299843	40.0	39.9	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	98	4413220	40.0	39.9	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	86	385201	40.0	44.4	
117 1,2,4-Trichlorobenzene	180	11.938	11.927	0.012	94	2039746	40.0	34.4	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	97	773699	40.0	40.0	
119 Naphthalene	128	12.176	12.176	0.000	96	5716933	40.0	37.5	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	1774553	40.0	33.0	
S 127 1,2-Dichloroethene, Total	96				0			79.1	
S 128 1,3-Dichloropropene, Total	75				0			94.5	
S 129 Xylenes, Total	106				0		80.0	86.9	
S 130 Total BTEX	1				0		200.0	215.1	
S 131 Trihalomethanes, Total	1				0		160.0	167.4	

Reagents:

vm50ss_stk_00085	Amount Added:	32.00	Units: uL
VM50is_00084	Amount Added:	1.00	Units: uL
VMRPRIMW_00393	Amount Added:	32.00	Units: uL
VMAROLISTDW_00352	Amount Added:	32.00	Units: uL
VMRGAS_00346	Amount Added:	32.00	Units: uL

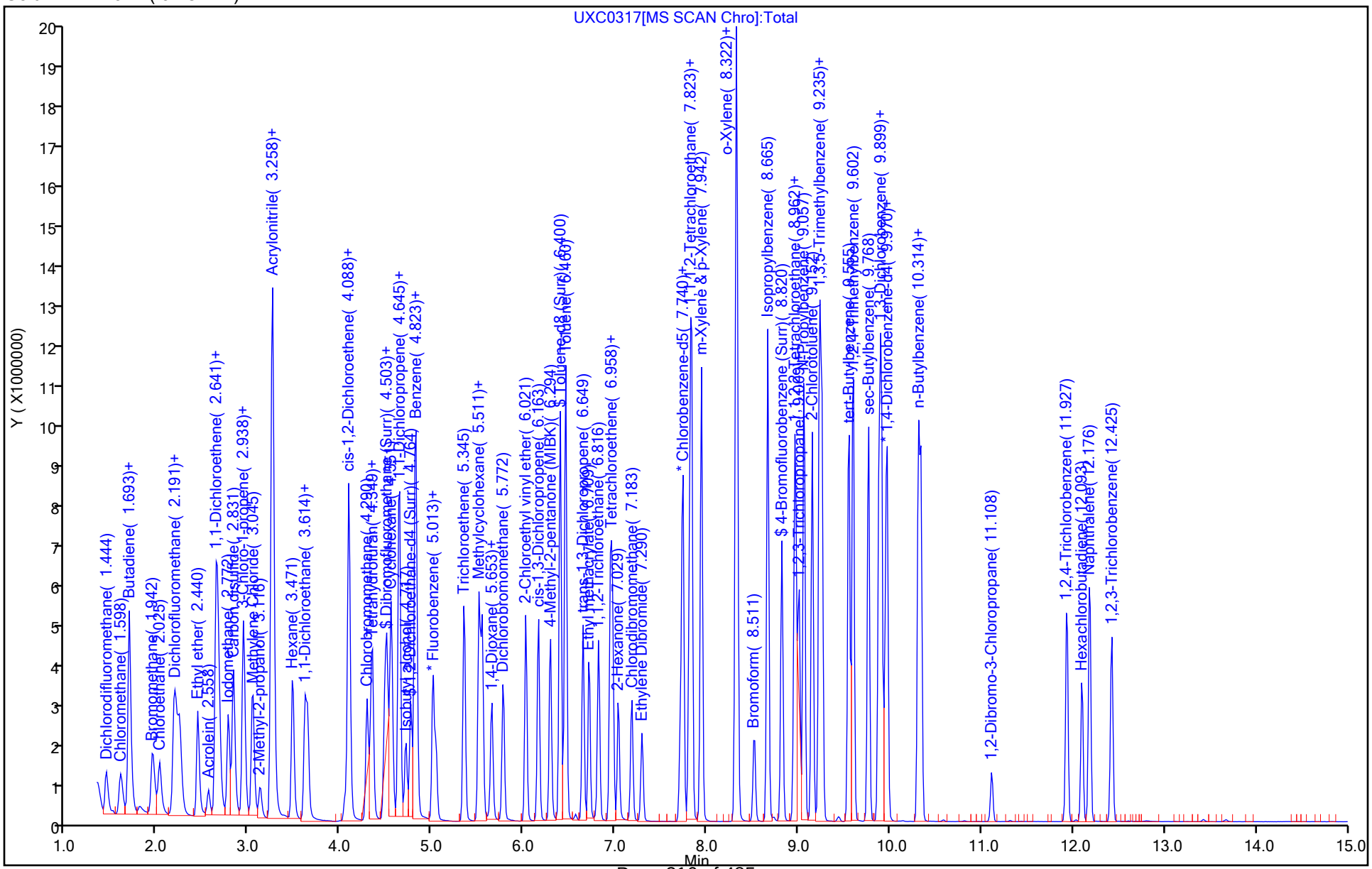
Report Date: 16-Jul-2020 08:53:18 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0317.D

Injection Date:	15-Jul-2020 08:39:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L6			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0318.D
Lims ID: STD8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Jul-2020 09:01:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-003
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:24 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 10:48:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1603998	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	85	1277851	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	93	792102	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	784042	20.0	20.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	100	1050811	20.0	20.0	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	3236806	20.0	20.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	93	1125888	20.0	20.3	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	910832	20.0	20.7	
10 Chloromethane	50	1.598	1.598	0.000	99	1020500	20.0	19.4	
11 Vinyl chloride	62	1.693	1.693	0.000	98	969328	20.0	18.6	
12 Butadiene	54	1.693	1.693	0.000	96	1125561	20.0	19.0	
13 Bromomethane	94	1.954	1.942	0.012	92	809286	20.0	18.5	
14 Chloroethane	64	2.037	2.025	0.012	99	768189	20.0	18.8	
15 Dichlorofluoromethane	67	2.191	2.179	0.012	98	1842997	20.0	18.7	
16 Trichlorofluoromethane	101	2.238	2.226	0.012	97	1732110	20.0	20.1	
17 Ethyl ether	59	2.440	2.440	0.000	91	843666	20.0	19.2	
18 Acrolein	56	2.558	2.558	0.000	99	328684	100.0	94.9	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	927763	20.0	19.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	93	790521	20.0	21.7	
21 Acetone	58	2.677	2.677	0.000	99	159205	40.0	36.5	
22 Iodomethane	142	2.772	2.772	0.000	99	1655710	20.0	19.4	
24 Carbon disulfide	76	2.831	2.831	0.000	99	2526956	20.0	18.9	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	537735	20.0	20.6	
27 Methyl acetate	43	2.950	2.950	0.000	98	1096508	40.0	37.8	
28 Methylene Chloride	84	3.045	3.044	0.001	94	797960	20.0	18.9	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	94	415736	200.0	186.3	
30 Acrylonitrile	53	3.246	3.246	0.000	98	2708075	200.0	194.9	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	97	2299095	20.0	20.6	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	98	876259	20.0	19.9	
34 Hexane	86	3.483	3.471	0.012	95	171385	20.0	22.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	1469776	20.0	20.0	
36 Vinyl acetate	43	3.637	3.637	0.000	97	1525128	20.0	21.3	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	81	239182	20.0	20.9	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	906703	20.0	19.8	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	177553	40.0	38.9	
46 Chlorobromomethane	128	4.290	4.290	0.000	93	458710	20.0	20.4	
47 Tetrahydrofuran	42	4.325	4.325	0.000	90	408382	40.0	37.9	
48 Chloroform	83	4.349	4.349	0.000	94	1481660	20.0	20.1	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	1281850	20.0	21.1	
50 Cyclohexane	56	4.551	4.551	0.001	92	1303121	20.0	22.4	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	92	1211288	20.0	20.4	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	1142727	20.0	22.6	
53 Isobutyl alcohol	41	4.717	4.717	0.000	94	458728	500.0	516.9	
55 Benzene	78	4.811	4.811	0.000	96	3525730	20.0	20.2	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	1273613	20.0	19.9	
58 n-Heptane	100	5.013	5.013	0.000	93	151114	20.0	21.5	
60 Trichloroethene	130	5.345	5.345	0.000	96	948583	20.0	20.2	
62 Methylcyclohexane	83	5.511	5.511	0.000	90	1073489	20.0	22.5	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	806567	20.0	20.0	
66 1,4-Dioxane	88	5.653	5.653	0.000	69	110130	400.0	454.4	
65 Dibromomethane	93	5.653	5.653	0.000	93	488923	20.0	20.0	
67 Dichlorobromomethane	83	5.772	5.772	0.000	99	1023368	20.0	21.5	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	964696	40.0	40.9	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	93	1271077	20.0	21.9	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	1406428	40.0	41.0	
72 Toluene	91	6.460	6.460	0.000	97	3805298	20.0	20.6	
73 trans-1,3-Dichloropropene	75	6.650	6.649	0.001	96	1138601	20.0	21.9	
74 Ethyl methacrylate	69	6.709	6.709	0.000	91	914233	20.0	21.4	
75 1,1,2-Trichloroethane	97	6.816	6.815	0.001	92	670018	20.0	20.4	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	701447	20.0	20.7	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	93	1221266	20.0	19.9	
78 2-Hexanone	43	7.029	7.029	0.000	98	931783	40.0	40.7	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	742304	20.0	19.6	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	694096	20.0	20.5	
84 Chlorobenzene	112	7.740	7.740	0.000	95	2354800	20.0	20.0	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	93	840651	20.0	22.1	
86 Ethylbenzene	106	7.835	7.835	0.000	98	1268751	20.0	21.0	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	3100061	20.0	20.7	
88 o-Xylene	106	8.322	8.322	0.000	95	1560095	20.0	20.8	
89 Styrene	104	8.333	8.333	0.000	95	2683796	20.0	21.5	
90 Bromoform	173	8.511	8.523	-0.012	97	463306	20.0	20.3	
91 Isopropylbenzene	105	8.665	8.665	0.000	95	3863945	20.0	21.5	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	896523	20.0	19.4	
95 Bromobenzene	156	8.974	8.974	0.000	95	1036459	20.0	19.7	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	88	306952	20.0	19.2	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	78	264986	20.0	18.8	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	1040511	20.0	20.5	
99 2-Chlorotoluene	126	9.152	9.152	0.000	98	967720	20.0	20.0	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	95	3227728	20.0	20.7	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	3280770	20.0	20.0	
104 tert-Butylbenzene	119	9.555	9.555	0.000	91	2696132	20.0	21.1	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	96	3399446	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	93	3532401	20.0	21.4	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	97	1940677	20.0	20.0	
109 4-Isopropyltoluene	119	9.899	9.899	0.000	97	3276940	20.0	21.5	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	2085253	20.0	19.9	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	2525730	20.0	21.1	
114 1,2-Dichlorobenzene	146	10.338	10.337	0.001	98	1993178	20.0	20.0	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	82	163781	20.0	20.9	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.001	94	1001445	20.0	18.7	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	98	406459	20.0	20.0	
119 Naphthalene	128	12.176	12.176	0.000	97	2647849	20.0	19.2	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	883703	20.0	18.2	
S 127 1,2-Dichloroethene, Total	96				0			39.6	
S 128 1,3-Dichloropropene, Total	75				0			43.8	
S 129 Xylenes, Total	106				0		40.0	41.5	
S 130 Total BTEX	1				0		100.0	103.3	
S 131 Trihalomethanes, Total	1				0		80.0	81.5	

Reagents:

vm50ss_stk_00085	Amount Added:	16.00	Units: uL
VM50is_00084	Amount Added:	1.00	Units: uL
VMRPRIMW_00393	Amount Added:	16.00	Units: uL
VMAROLISTDW_00352	Amount Added:	16.00	Units: uL
VMRGAS_00346	Amount Added:	16.00	Units: uL

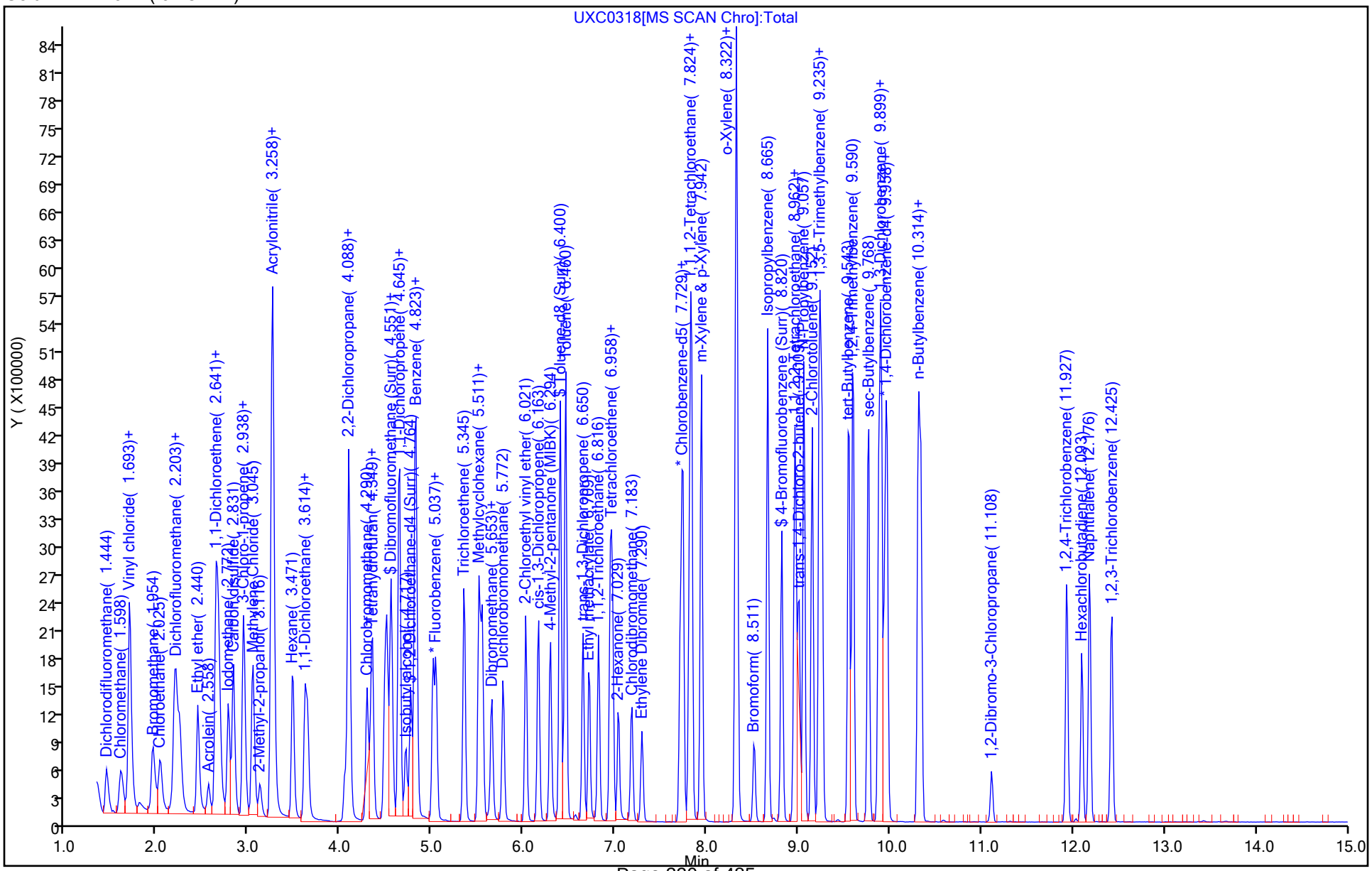
Report Date: 16-Jul-2020 08:53:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0318.D

Injection Date:	15-Jul-2020 09:01:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L5			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0319.D
Lims ID: STD8260 L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 15-Jul-2020 09:23:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-004
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:30 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 12:33:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	1524094	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	86	1190685	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	92	707908	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	363181	10.0	10.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	493412	10.0	9.87	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	93	1473627	10.0	9.97	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	92	509359	10.0	9.83	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	420321	10.0	10.1	
10 Chloromethane	50	1.598	1.598	0.000	100	498961	10.0	10.0	
11 Vinyl chloride	62	1.693	1.693	0.000	71	498870	10.0	10.1	
12 Butadiene	54	1.693	1.693	0.000	95	548736	10.0	9.73	
13 Bromomethane	94	1.942	1.942	0.000	92	419693	10.0	10.1	
14 Chloroethane	64	2.025	2.025	0.000	99	374298	10.0	9.66	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	926362	10.0	9.88	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	98	828979	10.0	10.1	
17 Ethyl ether	59	2.440	2.440	0.000	91	407577	10.0	9.75	
18 Acrolein	56	2.558	2.558	0.000	99	157855	50.0	47.9	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	98	435096	10.0	9.49	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.653	2.653	0.000	92	340418	10.0	9.84	
21 Acetone	58	2.677	2.677	0.000	98	89786	20.0	20.6	
22 Iodomethane	142	2.772	2.772	0.000	99	808393	10.0	9.95	
24 Carbon disulfide	76	2.831	2.831	0.000	100	1088081	10.0	8.57	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	242200	10.0	9.77	
27 Methyl acetate	43	2.950	2.950	0.000	98	524601	20.0	19.1	
28 Methylene Chloride	84	3.044	3.044	0.000	94	379310	10.0	9.44	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	93	202920	100.0	95.7	
30 Acrylonitrile	53	3.246	3.246	0.000	98	1294049	100.0	98.0	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	1041316	10.0	9.80	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	397300	10.0	9.48	
34 Hexane	86	3.471	3.471	0.000	95	69816	10.0	9.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	686945	10.0	9.85	
36 Vinyl acetate	43	3.637	3.637	0.000	98	693661	10.0	10.2	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	79	105382	10.0	9.71	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	426408	10.0	9.78	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	98	88690	20.0	20.4	
46 Chlorobromomethane	128	4.290	4.290	0.000	96	213819	10.0	10.0	
47 Tetrahydrofuran	42	4.325	4.325	0.000	90	198485	20.0	19.4	
48 Chloroform	83	4.349	4.349	0.000	94	682453	10.0	9.75	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	583710	10.0	10.1	
50 Cyclohexane	56	4.551	4.551	0.000	92	541046	10.0	9.79	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	93	555754	10.0	9.86	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	483914	10.0	10.1	
53 Isobutyl alcohol	41	4.717	4.717	0.000	93	204875	250.0	243.0	
55 Benzene	78	4.811	4.811	0.000	96	1636345	10.0	9.87	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	603257	10.0	9.91	
58 n-Heptane	100	5.013	5.013	0.000	92	66188	10.0	9.93	
60 Trichloroethene	130	5.345	5.345	0.000	95	441013	10.0	9.88	
62 Methylcyclohexane	83	5.511	5.511	0.000	90	447552	10.0	9.85	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	375491	10.0	9.82	
65 Dibromomethane	93	5.653	5.653	0.000	93	231553	10.0	9.95	
66 1,4-Dioxane	88	5.653	5.653	0.000	91	51451	200.0	223.4	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	464128	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	448387	20.0	20.0	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	93	566577	10.0	10.3	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	645946	20.0	19.8	
72 Toluene	91	6.460	6.460	0.000	98	1701273	10.0	9.89	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	97	499297	10.0	10.3	
74 Ethyl methacrylate	69	6.709	6.709	0.000	91	407611	10.0	10.2	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	94	305142	10.0	9.97	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	315672	10.0	10.0	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	567728	10.0	9.95	
78 2-Hexanone	43	7.029	7.029	0.000	97	423001	20.0	19.8	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	312867	10.0	9.16	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	317052	10.0	10.0	
84 Chlorobenzene	112	7.740	7.740	0.000	95	1072501	10.0	9.77	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	93	365103	10.0	10.3	
86 Ethylbenzene	106	7.835	7.835	0.000	98	574718	10.0	10.2	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1383073	10.0	9.92	
88 o-Xylene	106	8.322	8.322	0.000	95	708344	10.0	10.1	
89 Styrene	104	8.333	8.333	0.000	94	1168595	10.0	10.0	
90 Bromoform	173	8.523	8.523	0.000	97	180094	10.0	9.62	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	1654978	10.0	9.91	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	404712	10.0	9.81	
95 Bromobenzene	156	8.974	8.974	0.000	95	456551	10.0	9.71	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	91	139233	10.0	9.76	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	80	124484	10.0	9.90	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	455266	10.0	10.0	
99 2-Chlorotoluene	126	9.152	9.152	0.000	97	425445	10.0	9.84	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	95	1394679	10.0	10.0	
102 4-Chlorotoluene	91	9.258	9.258	0.000	98	1439288	10.0	9.80	
104 tert-Butylbenzene	119	9.555	9.555	0.000	91	1129693	10.0	9.89	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	96	1432476	10.0	9.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	1481248	10.0	10.0	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	859183	10.0	9.90	
109 4-Isopropyltoluene	119	9.899	9.899	0.000	97	1367355	10.0	10.0	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	907360	10.0	9.68	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	1070147	10.0	10.0	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	98	875286	10.0	9.81	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	80	69215	10.0	9.90	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.000	94	465035	10.0	9.71	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	97	194068	10.0	9.78	
119 Naphthalene	128	12.176	12.176	0.000	97	1198535	10.0	9.75	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	419491	10.0	9.66	
S 129 Xylenes, Total	106				0		20.0	20.0	
S 130 Total BTEX	1				0		50.0	50.0	
S 131 Trihalomethanes, Total	1				0		40.0	38.8	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	8.00	Units: uL
VMAROLISTDW_00352	Amount Added:	8.00	Units: uL
VMRPRIMW_00393	Amount Added:	8.00	Units: uL
VMRGAS_00346	Amount Added:	8.00	Units: uL

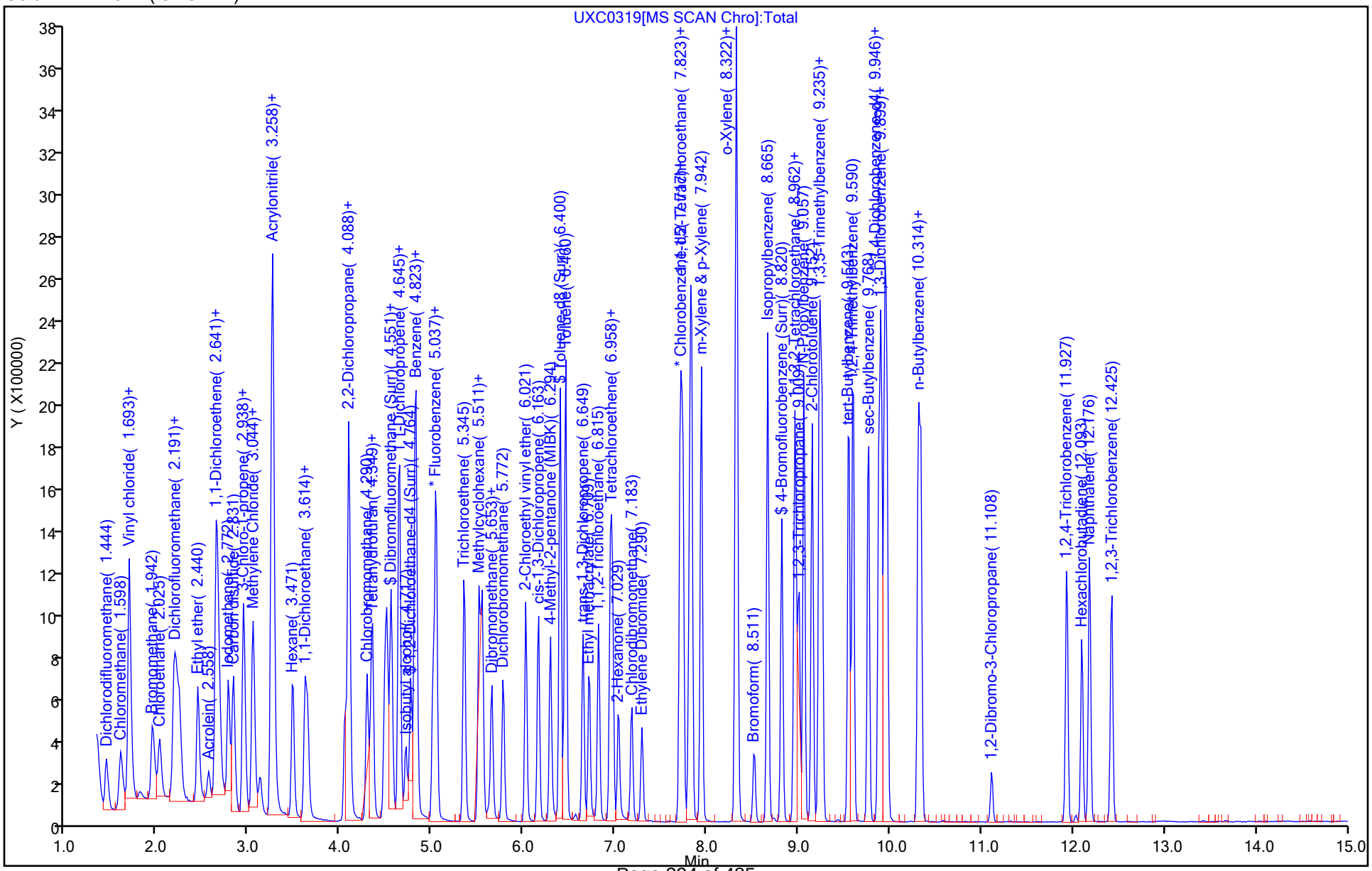
Report Date: 16-Jul-2020 08:53:31 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0319.D

Injection Date:	15-Jul-2020 09:23:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0320.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jul-2020 09:45:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-005
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:36 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 10:13:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.049	-0.001	99	1429166	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1113156	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	94	623775	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	170613	5.00	5.02	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	230236	5.00	4.91	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	675431	5.00	4.89	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	90	236690	5.00	4.89	
9 Dichlorodifluoromethane	85	1.443	1.444	-0.001	99	206320	5.00	5.26	
10 Chloromethane	50	1.609	1.598	0.011	99	236744	5.00	5.06	
11 Vinyl chloride	62	1.693	1.693	-0.001	70	239901	5.00	5.17	
12 Butadiene	54	1.693	1.693	-0.001	96	273735	5.00	5.17	
13 Bromomethane	94	1.953	1.942	0.011	92	204045	5.00	5.23	
14 Chloroethane	64	2.036	2.025	0.011	99	183045	5.00	5.04	
15 Dichlorofluoromethane	67	2.191	2.179	0.012	98	439198	5.00	5.00	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	98	397940	5.00	5.19	
17 Ethyl ether	59	2.440	2.440	0.000	91	199629	5.00	5.09	
18 Acrolein	56	2.558	2.558	0.000	98	72866	25.0	23.6	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	96	211238	5.00	4.91	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	92	168029	5.00	5.18	
21 Acetone	58	2.689	2.677	0.012	98	46640	10.0	10.2	
22 Iodomethane	142	2.772	2.772	0.000	99	395408	5.00	5.19	
24 Carbon disulfide	76	2.831	2.831	0.000	99	652584	5.00	5.48	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	117840	5.00	5.07	
27 Methyl acetate	43	2.950	2.950	0.000	98	266120	10.0	10.3	
28 Methylene Chloride	84	3.044	3.044	0.000	96	191087	5.00	5.07	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	93	99077	50.0	49.8	
30 Acrylonitrile	53	3.246	3.246	0.000	98	623580	50.0	50.4	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	97	492127	5.00	4.94	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	195605	5.00	4.98	
34 Hexane	86	3.483	3.471	0.012	95	34077	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	332536	5.00	5.09	
36 Vinyl acetate	43	3.637	3.637	0.000	97	314892	5.00	4.94	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	76	50257	5.00	4.94	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	208849	5.00	5.11	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	39373	10.0	9.67	
46 Chlorobromomethane	128	4.290	4.290	0.000	94	102285	5.00	5.10	
47 Tetrahydrofuran	42	4.325	4.325	0.000	86	92539	10.0	9.63	
48 Chloroform	83	4.349	4.349	0.000	94	332073	5.00	5.06	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	270788	5.00	5.01	
50 Cyclohexane	56	4.550	4.551	0.000	92	271386	5.00	5.23	
51 1,1-Dichloropropene	75	4.645	4.634	0.011	91	261355	5.00	4.95	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	224073	5.00	4.97	
53 Isobutyl alcohol	41	4.716	4.717	-0.001	93	93740	125.0	118.6	
55 Benzene	78	4.811	4.811	0.000	96	776586	5.00	5.00	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	287270	5.00	5.03	
58 n-Heptane	100	5.013	5.013	0.000	90	29317	5.00	4.69	
60 Trichloroethene	130	5.345	5.345	0.000	96	211929	5.00	5.06	
62 Methylcyclohexane	83	5.511	5.511	0.000	90	219943	5.00	5.16	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	183674	5.00	5.12	
66 1,4-Dioxane	88	5.653	5.653	0.000	35	19794	100.0	91.7	
65 Dibromomethane	93	5.653	5.653	0.000	92	109320	5.00	5.01	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	210823	5.00	4.96	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	203930	10.0	9.70	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	92	253640	5.00	4.90	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	315229	10.0	10.3	
72 Toluene	91	6.460	6.460	0.000	98	771811	5.00	4.80	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	97	216435	5.00	4.79	
74 Ethyl methacrylate	69	6.721	6.709	0.011	89	188458	5.00	5.05	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	145334	5.00	5.08	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	144585	5.00	4.90	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	266250	5.00	4.99	
78 2-Hexanone	43	7.041	7.029	0.012	98	209165	10.0	10.5	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	132374	5.00	4.42	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	144183	5.00	4.88	
84 Chlorobenzene	112	7.740	7.740	0.000	98	509365	5.00	4.97	
85 1,1,1,2-Tetrachloroethane	131	7.811	7.812	-0.001	92	163834	5.00	4.95	
86 Ethylbenzene	106	7.835	7.835	0.000	99	267197	5.00	5.07	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	94	643982	5.00	4.94	
88 o-Xylene	106	8.321	8.322	-0.001	98	323892	5.00	4.95	
89 Styrene	104	8.333	8.333	0.000	94	533146	5.00	4.89	
90 Bromoform	173	8.523	8.523	0.000	96	72471	5.00	4.69	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	763709	5.00	4.89	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	188206	5.00	5.18	
95 Bromobenzene	156	8.974	8.974	0.000	95	217890	5.00	5.26	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	88	63789	5.00	5.07	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	78	58401	5.00	5.27	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	209809	5.00	5.25	
99 2-Chlorotoluene	126	9.152	9.152	0.000	98	193864	5.00	5.09	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	-0.001	94	631906	5.00	5.16	
102 4-Chlorotoluene	91	9.258	9.258	0.000	97	655852	5.00	5.07	
104 tert-Butylbenzene	119	9.555	9.555	0.000	92	520554	5.00	5.17	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	96	651871	5.00	5.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	660396	5.00	5.07	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	397961	5.00	5.21	
109 4-Isopropyltoluene	119	9.910	9.899	0.011	97	610160	5.00	5.09	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	95	415388	5.00	5.03	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	491419	5.00	5.21	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	98	404904	5.00	5.15	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	80	31150	5.00	5.05	
117 1,2,4-Trichlorobenzene	180	11.926	11.927	0.000	94	228163	5.00	5.41	
118 Hexachlorobutadiene	225	12.104	12.093	0.011	98	100212	5.00	5.36	
119 Naphthalene	128	12.175	12.176	-0.001	97	582460	5.00	5.38	
120 1,2,3-Trichlorobenzene	180	12.424	12.425	-0.001	94	201752	5.00	5.27	
S 127 1,2-Dichloroethene, Total	96				0			10.1	
S 128 1,3-Dichloropropene, Total	75				0			9.68	
S 129 Xylenes, Total	106				0		10.0	9.89	
S 130 Total BTEX	1				0		25.0	24.8	
S 131 Trihalomethanes, Total	1				0		20.0	19.1	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	4.00	Units: uL
VMRPRIMW_00393	Amount Added:	4.00	Units: uL
VMRGAS_00346	Amount Added:	4.00	Units: uL
VMAROLISTDW_00352	Amount Added:	4.00	Units: uL

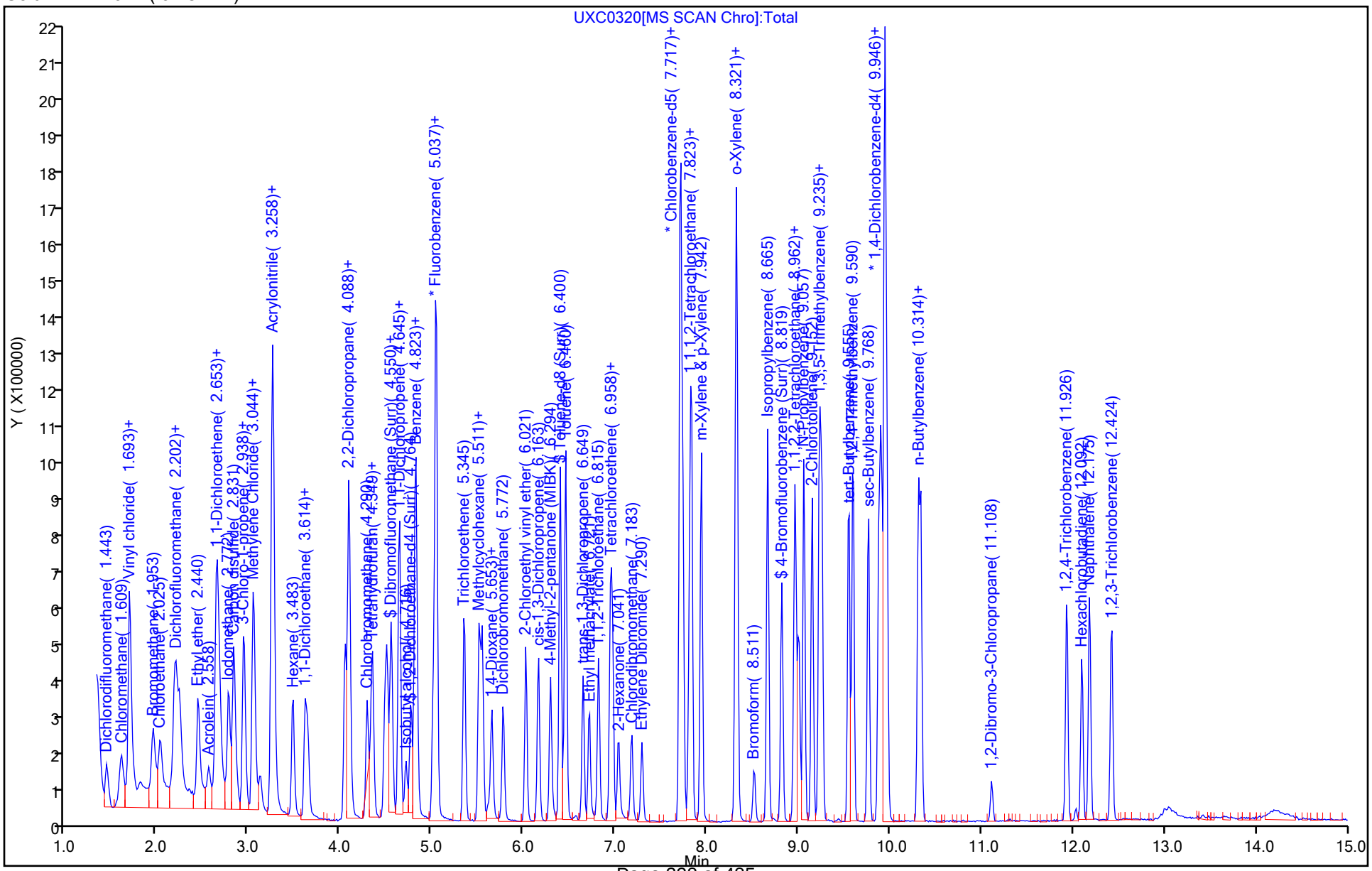
Report Date: 16-Jul-2020 08:53:37 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0320.D

Injection Date:	15-Jul-2020 09:45:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0321.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jul-2020 10:07:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-006
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:42 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 10:36:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	1393636	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1091913	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	596835	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	63126	2.00	1.90	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	100	90176	2.00	1.97	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	261682	2.00	1.93	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	92	90558	2.00	1.91	
9 Dichlorodifluoromethane	85	1.455	1.444	0.011	98	76081	2.00	1.99	
10 Chloromethane	50	1.598	1.598	0.000	99	96875	2.00	2.12	
11 Vinyl chloride	62	1.693	1.693	0.000	64	90075	2.00	1.99	
12 Butadiene	54	1.704	1.693	0.011	97	112763	2.00	2.19	
13 Bromomethane	94	1.954	1.942	0.012	93	75507	2.00	1.98	
14 Chloroethane	64	2.037	2.025	0.012	99	71037	2.00	2.00	
15 Dichlorofluoromethane	67	2.191	2.179	0.012	98	180232	2.00	2.10	
16 Trichlorofluoromethane	101	2.238	2.226	0.012	97	143732	2.00	1.92	
17 Ethyl ether	59	2.440	2.440	0.000	90	78571	2.00	2.06	
18 Acrolein	56	2.558	2.558	0.000	95	34074	10.0	11.3	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	85934	2.00	2.05	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	89	59756	2.00	1.89	
21 Acetone	58	2.689	2.677	0.012	99	23762	4.00	4.01	
22 Iodomethane	142	2.772	2.772	0.000	99	140427	2.00	1.89	
24 Carbon disulfide	76	2.831	2.831	0.000	100	195650	2.00	1.69	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	85	41665	2.00	1.84	
27 Methyl acetate	43	2.950	2.950	0.000	97	100348	4.00	3.99	
28 Methylene Chloride	84	3.044	3.044	0.000	95	73996	2.00	2.01	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	93	40795	20.0	21.0	
30 Acrylonitrile	53	3.246	3.246	0.000	99	231851	20.0	19.2	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	177783	2.00	1.83	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	74138	2.00	1.93	
34 Hexane	86	3.483	3.471	0.012	95	12170	2.00	1.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	122593	2.00	1.92	
36 Vinyl acetate	43	3.649	3.637	0.012	97	113415	2.00	1.82	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	72	19328	2.00	1.95	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	79625	2.00	2.00	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	68	15859	4.00	3.99	
46 Chlorobromomethane	128	4.290	4.290	0.000	94	37537	2.00	1.92	
47 Tetrahydrofuran	42	4.325	4.325	0.000	89	41450	4.00	4.43	
48 Chloroform	83	4.349	4.349	0.000	95	124249	2.00	1.94	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	97	100048	2.00	1.90	
50 Cyclohexane	56	4.551	4.551	0.001	92	93923	2.00	1.86	
51 1,1-Dichloropropene	75	4.645	4.634	0.011	92	100865	2.00	1.96	
52 Carbon tetrachloride	117	4.645	4.645	0.000	80	73200	2.00	1.66	
53 Isobutyl alcohol	41	4.717	4.717	0.000	92	38570	50.0	50.0	
55 Benzene	78	4.811	4.811	0.000	97	288276	2.00	1.90	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	96	111084	2.00	2.00	
58 n-Heptane	100	5.013	5.013	0.000	89	11418	2.00	1.87	
60 Trichloroethene	130	5.345	5.345	0.000	96	79981	2.00	1.96	
62 Methylcyclohexane	83	5.511	5.511	0.000	89	77979	2.00	1.88	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	93	67224	2.00	1.92	
65 Dibromomethane	93	5.653	5.653	0.000	94	41212	2.00	1.94	
66 1,4-Dioxane	88	5.665	5.653	0.012	36	7651	40.0	36.3	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	72482	2.00	1.75	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	79527	4.00	3.88	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	92	89417	2.00	1.77	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	110825	4.00	3.72	
72 Toluene	91	6.460	6.460	0.000	98	292646	2.00	1.86	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	97	77362	2.00	1.74	
74 Ethyl methacrylate	69	6.721	6.709	0.012	89	60701	2.00	1.66	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	95	52547	2.00	1.87	
76 Tetrachloroethene	164	6.946	6.946	0.000	96	57274	2.00	1.98	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	93	103936	2.00	1.99	
78 2-Hexanone	43	7.029	7.029	0.000	98	79861	4.00	4.08	
80 Chlorodibromomethane	129	7.183	7.183	0.000	91	46226	2.00	1.90	
82 Ethylene Dibromide	107	7.290	7.290	0.000	97	54171	2.00	1.87	
84 Chlorobenzene	112	7.740	7.740	0.000	95	195930	2.00	1.95	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	53867	2.00	1.66	
86 Ethylbenzene	106	7.835	7.835	0.000	99	94304	2.00	1.82	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	94	234774	2.00	1.84	
88 o-Xylene	106	8.322	8.322	0.000	97	121163	2.00	1.89	
89 Styrene	104	8.333	8.333	0.000	94	189671	2.00	1.77	
90 Bromoform	173	8.511	8.523	-0.012	94	23218	2.00	2.01	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	277174	2.00	1.81	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	69534	2.00	2.00	
95 Bromobenzene	156	8.974	8.974	0.000	94	79344	2.00	2.00	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	89	24539	2.00	2.04	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	81	19888	2.00	1.88	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	73530	2.00	1.92	
99 2-Chlorotoluene	126	9.152	9.152	0.000	97	72054	2.00	1.98	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	221338	2.00	1.89	
102 4-Chlorotoluene	91	9.258	9.258	0.000	98	243339	2.00	1.97	
104 tert-Butylbenzene	119	9.555	9.555	0.000	92	180352	2.00	1.87	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	97	231210	2.00	1.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	232873	2.00	1.87	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	141034	2.00	1.93	
109 4-Isopropyltoluene	119	9.911	9.899	0.012	96	210172	2.00	1.83	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	95	153718	2.00	1.94	
113 n-Butylbenzene	91	10.314	10.314	0.000	96	173642	2.00	1.92	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	97	147829	2.00	1.97	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	76	10997	2.00	1.86	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.000	93	85248	2.00	2.11	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	95	41437	2.00	1.98	
119 Naphthalene	128	12.176	12.176	0.000	97	201391	2.00	1.94	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	96	75490	2.00	2.06	
S 127 1,2-Dichloroethene, Total	96				0			3.93	
S 128 1,3-Dichloropropene, Total	75				0			3.51	
S 129 Xylenes, Total	106				0		4.00	3.72	
S 130 Total BTEX	1				0		10.0	9.30	
S 131 Trihalomethanes, Total	1				0		8.00	7.60	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	1.60	Units: uL
VMRPRIMW_00393	Amount Added:	1.60	Units: uL
VMAROLISTDW_00352	Amount Added:	1.60	Units: uL
VMRGAS_00346	Amount Added:	1.60	Units: uL

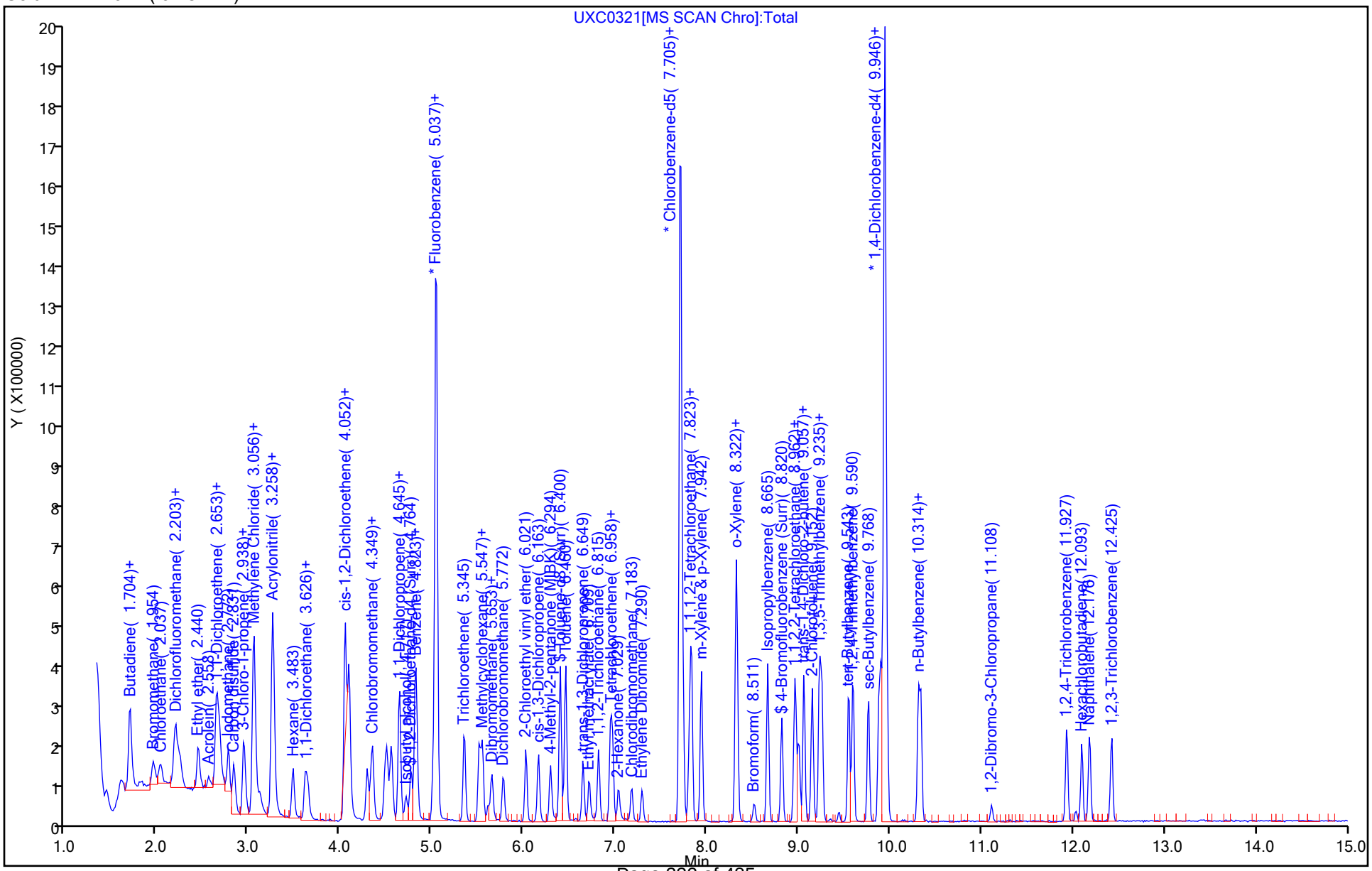
Report Date: 16-Jul-2020 08:53:43 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0321.D

Injection Date:	15-Jul-2020 10:07:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0322.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jul-2020 10:29:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-007
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:47 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.049	-0.012	99	1309137	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1007406	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	566473	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	31373	1.00	1.01	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	46678	1.00	1.09	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	93	124734	1.00	1.00	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	88	46077	1.00	1.05	
9 Dichlorodifluoromethane	85	1.443	1.444	-0.001	99	34208	1.00	0.9529	
10 Chloromethane	50	1.598	1.598	0.000	99	45347	1.00	1.06	
11 Vinyl chloride	62	1.693	1.693	0.000	69	46710	1.00	1.10	
12 Butadiene	54	1.693	1.693	0.000	92	51272	1.00	1.06	
13 Bromomethane	94	1.953	1.942	0.011	94	38839	1.00	1.09	
14 Chloroethane	64	2.025	2.025	0.000	99	37874	1.00	1.14	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	88120	1.00	1.09	
16 Trichlorofluoromethane	101	2.214	2.226	-0.012	97	67509	1.00	0.9618	
17 Ethyl ether	59	2.440	2.440	0.000	91	37048	1.00	1.03	
18 Acrolein	56	2.558	2.558	0.000	97	15308	5.00	5.41	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	98	43645	1.00	1.11	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.653	2.653	0.000	91	24445	1.00	0.8230	
21 Acetone	58	2.689	2.677	0.012	99	15699	2.00	2.01	
22 Iodomethane	142	2.784	2.772	0.012	99	75063	1.00	1.08	
24 Carbon disulfide	76	2.831	2.831	0.000	100	132094	1.00	1.21	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	21846	1.00	1.03	
27 Methyl acetate	43	2.950	2.950	0.000	75	50658	2.00	2.14	
28 Methylene Chloride	84	3.044	3.044	0.000	96	40134	1.00	1.16	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	95	19087	10.0	10.5	
30 Acrylonitrile	53	3.246	3.246	0.000	99	116597	10.0	10.3	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	87810	1.00	0.9621	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	39170	1.00	1.09	
34 Hexane	86	3.483	3.471	0.012	94	4920	1.00	0.7944	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	98	61854	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.637	3.637	0.000	98	50734	1.00	0.8685	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	63	9590	1.00	1.03	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	39220	1.00	1.05	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	68	7649	2.00	2.05	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	18509	1.00	1.01	
47 Tetrahydrofuran	42	4.337	4.325	0.012	88	17675	2.00	2.01	
48 Chloroform	83	4.349	4.349	0.000	96	61650	1.00	1.03	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	45674	1.00	0.9218	
50 Cyclohexane	56	4.550	4.551	0.000	91	39244	1.00	0.8263	
51 1,1-Dichloropropene	75	4.633	4.634	-0.001	90	48474	1.00	1.00	
52 Carbon tetrachloride	117	4.645	4.645	0.000	80	36666	1.00	0.8873	
53 Isobutyl alcohol	41	4.716	4.717	-0.001	93	16586	25.0	22.9	
55 Benzene	78	4.811	4.811	0.000	97	143387	1.00	1.01	
56 1,2-Dichloroethane	62	4.823	4.835	-0.012	95	52125	1.00	1.00	
58 n-Heptane	100	5.013	5.013	0.000	91	5347	1.00	0.9338	
60 Trichloroethene	130	5.357	5.345	0.012	96	38650	1.00	1.01	
62 Methylcyclohexane	83	5.511	5.511	0.000	91	30877	1.00	0.7913	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	91	33314	1.00	1.01	
66 1,4-Dioxane	88	5.653	5.653	0.000	35	3361	20.0	17.0	
65 Dibromomethane	93	5.653	5.653	0.000	96	20400	1.00	1.02	
67 Dichlorobromomethane	83	5.772	5.772	0.000	95	35076	1.00	0.9010	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	36108	2.00	1.88	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	91	40309	1.00	0.8493	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	51544	2.00	1.84	
72 Toluene	91	6.460	6.460	0.000	97	144790	1.00	1.00	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	96	34639	1.00	0.8467	
74 Ethyl methacrylate	69	6.709	6.709	0.000	87	30953	1.00	0.9173	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	25857	1.00	1.00	
76 Tetrachloroethene	164	6.946	6.946	0.000	94	25553	1.00	0.9561	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	47939	1.00	0.99	
78 2-Hexanone	43	7.029	7.029	0.000	95	30628	2.00	1.70	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	21933	1.00	1.23	
82 Ethylene Dibromide	107	7.290	7.290	0.000	94	27167	1.00	1.02	
84 Chlorobenzene	112	7.740	7.740	0.000	93	94094	1.00	1.01	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	88	27261	1.00	0.9103	
86 Ethylbenzene	106	7.835	7.835	0.000	99	45235	1.00	0.9475	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	94	113635	1.00	0.9634	
88 o-Xylene	106	8.321	8.322	-0.001	98	56021	1.00	0.9459	
89 Styrene	104	8.333	8.333	0.000	93	89448	1.00	0.9068	
90 Bromoform	173	8.511	8.523	-0.012	92	11865	1.00	1.41	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	127516	1.00	0.9021	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	35125	1.00	1.06	
95 Bromobenzene	156	8.974	8.974	0.000	95	37900	1.00	1.01	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	88	12485	1.00	1.09	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	66	10877	1.00	1.08	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	34035	1.00	0.9379	
99 2-Chlorotoluene	126	9.152	9.152	0.000	96	35959	1.00	1.04	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	95	103163	1.00	0.9273	
102 4-Chlorotoluene	91	9.258	9.258	0.000	97	118570	1.00	1.01	
104 tert-Butylbenzene	119	9.555	9.555	0.000	92	85852	1.00	0.9395	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	97	109081	1.00	0.9389	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	108724	1.00	0.9191	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	96	69634	1.00	1.00	
109 4-Isopropyltoluene	119	9.910	9.899	0.011	96	99676	1.00	0.9152	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	80236	1.00	1.07	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	80981	1.00	0.9451	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	95	71966	1.00	1.01	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	73	5097	1.00	0.9106	
117 1,2,4-Trichlorobenzene	180	11.926	11.927	0.000	95	42079	1.00	1.10	
118 Hexachlorobutadiene	225	12.092	12.093	-0.001	95	21605	1.00	0.8525	
119 Naphthalene	128	12.175	12.176	-0.001	97	106177	1.00	1.08	
120 1,2,3-Trichlorobenzene	180	12.424	12.425	-0.001	95	42250	1.00	1.22	
S 127 1,2-Dichloroethene, Total	96				0			2.13	
S 128 1,3-Dichloropropene, Total	75				0			1.70	
S 129 Xylenes, Total	106				0		2.00	1.91	
S 130 Total BTEX	1				0		5.00	4.86	
S 131 Trihalomethanes, Total	1				0		4.00	4.56	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	0.80	Units: uL
VMRPRIMW_00393	Amount Added:	0.80	Units: uL
VMAROLISTDW_00352	Amount Added:	0.80	Units: uL
VMRGAS_00346	Amount Added:	0.80	Units: uL

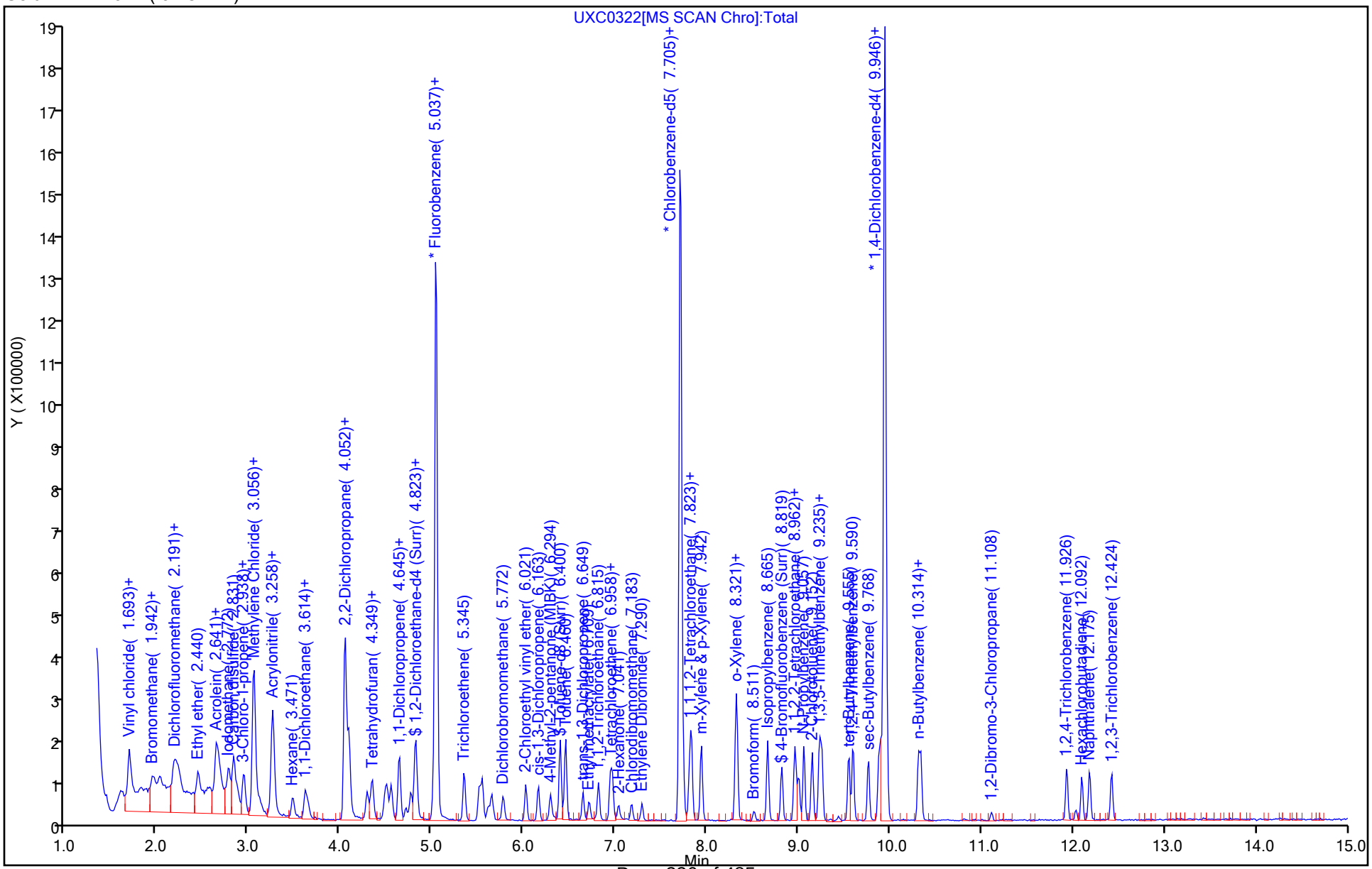
Report Date: 16-Jul-2020 08:53:48 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0322.D

Injection Date:	15-Jul-2020 10:29:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L1			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-442673/13	UXC0329.D
Level 2	STD 240-442673/12	UXC0328.D
Level 3	STD 240-442673/11	UXC0327.D
Level 4	STD 240-442673/10	UXC0326.D
Level 5	STD 240-442673/9	UXC0325.D
Level 6	STD 240-442673/8	UXC0324.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0285 0.0234	0.0283	0.0277	0.0227	0.0228	Ave		0.0256				11.2		15.0			
Isopropyl ether	0.2345 0.2236	0.2320	0.2425	0.2387	0.2280	Ave		0.2332				3.0		15.0			
2-Chloro-1,3-butadiene	0.4418 0.4212	0.4483	0.4382	0.4304	0.4241	Ave		0.4340				2.4		15.0			
Tert-butyl ethyl ether	0.6723 0.6977	0.6691	0.6853	0.6873	0.6880	Ave		0.6833				1.6		15.0			
Ethyl acetate	0.2133 0.2069	0.2205	0.2258	0.2102	0.2112	Ave		0.2146				3.3		15.0			
Propionitrile	0.0325 0.0321	0.0322	0.0357	0.0329	0.0327	Ave		0.0330				4.0		15.0			
Methacrylonitrile	0.1679 0.1822	0.1611	0.1720	0.1686	0.1734	Ave		0.1709				4.1		15.0			
Isooctane	0.6082 0.5530	0.5910	0.5237	0.5037	0.5537	Ave		0.5556				7.1		15.0			
Tert-amyl methyl ether	0.5386 0.6278	0.5392	0.5690	0.5862	0.6029	Ave		0.5773				6.2		15.0			
n-Butanol	0.0039 0.0041	0.0035	0.0040	0.0038	0.0042	Ave		0.0039				5.5		15.0			
Ethyl acrylate	0.2080 0.2594	0.2366	0.2566	0.2497	0.2619	Ave		0.2454				8.3		15.0			
Methyl methacrylate	0.1963 0.2170	0.2089	0.2163	0.2093	0.2152	Ave		0.2105				3.7		15.0			
2-Nitropropane	0.0485 0.0579	0.0506	0.0461	0.0454	0.0546	Ave		0.0505				9.7		15.0			
n-Butyl acetate	0.2239 0.2992	0.2302	0.2522	0.2588	0.2971	Ave		0.2602				12.4		15.0			
1-Chlorohexane	0.3694 0.3634	0.3634	0.3545	0.3355	0.3635	Ave		0.3583				3.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.0146 0.0164	0.0146	0.0172	0.0161	0.0169	Ave		0.0160				7.2		15.0			
Pentachloroethane	0.0690 0.1877	0.1142	0.1402	0.1236	0.1842	Qua	-0.349	0.1696	0.0002923						0.9960		0.9900
1,2,3-Trimethylbenzene	2.1008 2.4066	2.0522	2.2018	2.1948	2.3184	Ave		2.2124				6.0		15.0			
Benzyl chloride	0.0951 0.2275	0.1011	0.1203	0.1414	0.1872	Qua	-0.120	0.1445	0.0021613						0.9990		0.9900
1,3,5-Trichlorobenzene	0.8634 0.7536	0.8584	0.7992	0.8010	0.7885	Ave		0.8107				5.2		15.0			
2-Methylnaphthalene	0.7936 0.8074	0.8489	0.8386	0.9905	0.9199	Ave		0.8665				8.7		15.0			
1-Methylnaphthalene	0.7767 0.6677	0.7822	0.7466	0.8816	0.7874	Ave		0.7737				8.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-442673/13	UXC0329.D
Level 2	STD 240-442673/12	UXC0328.D
Level 3	STD 240-442673/11	UXC0327.D
Level 4	STD 240-442673/10	UXC0326.D
Level 5	STD 240-442673/9	UXC0325.D
Level 6	STD 240-442673/8	UXC0324.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	34980 1418789	71038	179908	300624	660859	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	28790 1354619	58271	157293	316160	660500	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	54235 2552336	112578	284264	569986	1228385	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	82534 4227740	168024	444525	910257	1992608	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	52374 2506790	110769	292924	556681	1223217	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	39956 1943717	80873	231385	436026	948285	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	206129 11038690	404511	1115973	2233289	5022608	10.0 400	20.0	50.0	100	200
Isooctane	FB	Ave	74663 3350804	148423	339677	667154	1603832	1.00 40.0	2.00	5.00	10.0	20.0
Tert-amyl methyl ether	FB	Ave	66115 3804175	135396	369055	776404	1746372	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Ave	11957 618207	22274	64282	126035	300972	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	25529 1571707	59415	166423	330735	758658	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	48209 2629172	104914	280568	554358	1246384	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	11910 701102	25399	59777	120152	316191	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	FB	Ave	27486 1812884	57818	163560	342728	860606	1.00 40.0	2.00	5.00	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	34870 1667796	71187	178725	344073	800729	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCBd 4	Ave	7614 397635	15795	47740	90751	197991	10.0 400	20.0	50.0	100	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Pentachloroethane	CBNZ d5	Qua	13021 1722469	44746	141364	253602	811386	2.00 80.0	4.00	10.0	20.0	40.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	109885 5839235	221718	609385	1237855	2710908	1.00 40.0	2.00	5.00	10.0	20.0
Benzyl chloride	DCBd 4	Qua	4972 552054	10924	33281	79729	218891	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	45163 1828453	92743	221174	451782	921982	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCBd 4	Ave	83019 3918229	183439	464208	1117275	2151231	2.00 80.0	4.00	10.0	20.0	40.0
1-Methylnaphthalene	DCBd 4	Ave	81255 3240234	169028	413275	994454	1841488	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD
Qua = Quadratic ISTD

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0324.D
Lims ID: STD A9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Jul-2020 11:12:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-008
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:54:32 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 16-Jul-2020 08:54:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.037	0.011	99	1514841	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	88	1147365	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	606584	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	100	1418789	400.0	366.2	
37 Isopropyl ether	87	3.649	3.649	0.000	93	1354619	40.0	38.3	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	94	2552336	40.0	38.8	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	96	4227740	40.0	40.8	
43 Ethyl acetate	43	4.135	4.135	0.000	100	2506790	80.0	77.1	
44 Propionitrile	54	4.159	4.159	0.000	99	1943717	400.0	388.5	
45 Methacrylonitrile	41	4.278	4.278	0.000	94	11038690	400.0	426.5	
54 Isooctane	57	4.871	4.859	0.012	98	3350804	40.0	39.8	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	94	3804175	40.0	43.5	
59 n-Butanol	56	5.262	5.274	-0.012	91	618207	1000.0	1044.1	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	1571707	40.0	42.3	
64 Methyl methacrylate	41	5.618	5.618	0.000	90	2629172	80.0	82.5	
68 2-Nitropropane	41	5.973	5.974	-0.001	99	701102	80.0	91.7	
79 n-Butyl acetate	43	7.136	7.136	0.000	98	1812884	40.0	46.0	
83 1-Chlorohexane	91	7.705	7.705	0.000	98	1667796	40.0	40.6	
92 Cyclohexanone	55	8.772	8.772	0.000	94	397635	400.0	410.4	
105 Pentachloroethane	167	9.578	9.579	-0.001	97	1722469	80.0	79.7	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	98	5839235	40.0	43.5	
112 Benzyl chloride	126	10.100	10.100	0.000	98	552054	40.0	39.9	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	1828453	40.0	37.2	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	92	3918229	80.0	74.5	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	3240234	80.0	69.0	

Reagents:

VM50is_00084	Amount Added: 1.00	Units: uL
VMRA9W_00352	Amount Added: 32.00	Units: uL

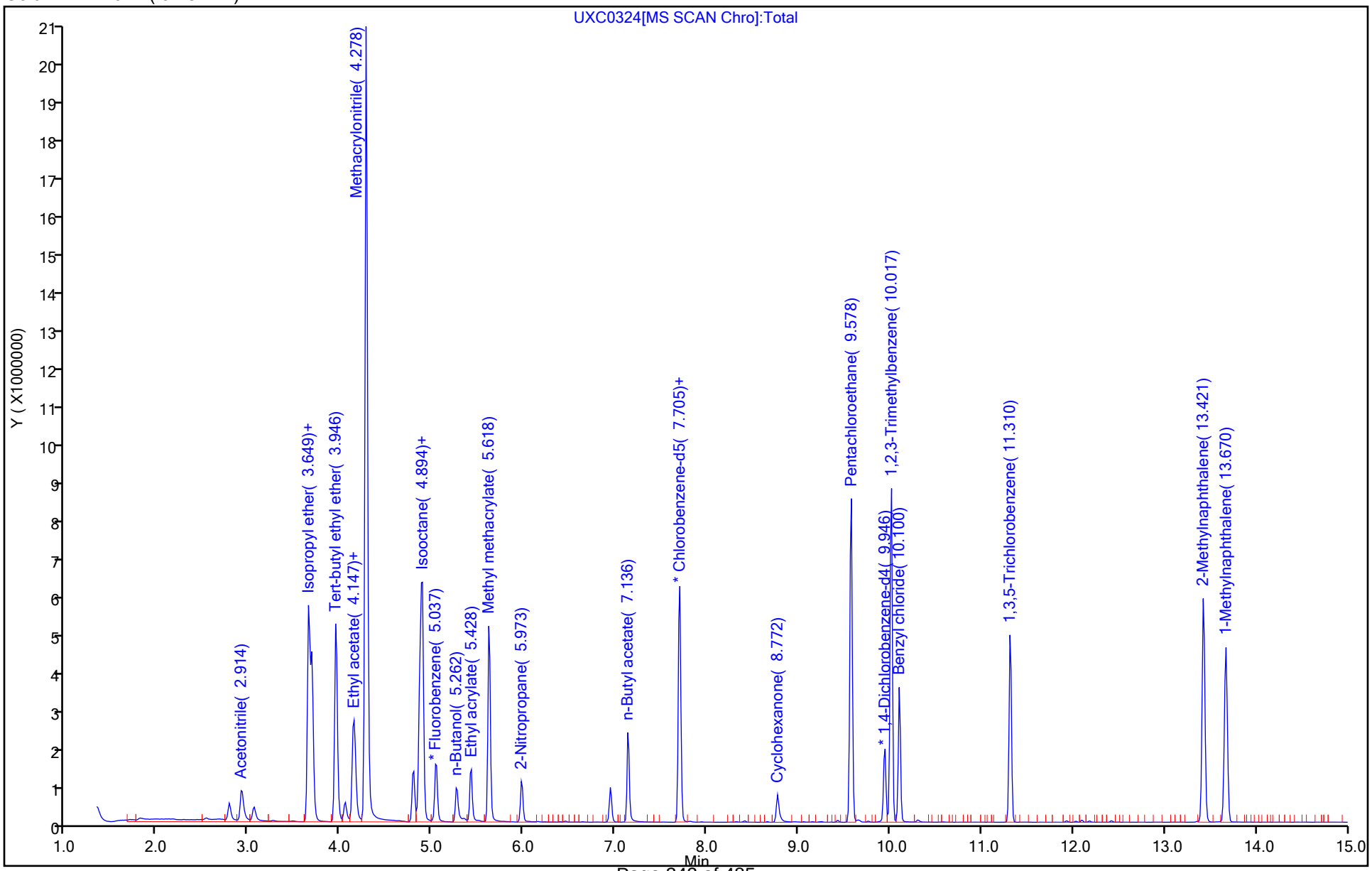
Report Date: 16-Jul-2020 08:54:33 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0324.D

Injection Date:	15-Jul-2020 11:12:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L6			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0325.D
Lims ID: STD A9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Jul-2020 11:34:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-009
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:51 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.049	-0.012	99	1448221	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.717	-0.012	87	1101313	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	584646	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	99	660859	200.0	178.4	
37 Isopropyl ether	87	3.649	3.649	0.000	92	660500	20.0	19.6	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	1228385	20.0	19.5	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	96	1992608	20.0	20.1	
43 Ethyl acetate	43	4.136	4.135	0.001	100	1223217	40.0	39.4	
44 Propionitrile	54	4.159	4.159	0.000	98	948285	200.0	198.3	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	5022608	200.0	203.0	
54 Isooctane	57	4.859	4.859	0.000	93	1603832	20.0	19.9	
57 Tert-amyl methyl ether	73	4.895	4.894	0.001	92	1746372	20.0	20.9	
59 n-Butanol	56	5.262	5.274	-0.012	90	300972	500.0	531.7	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	758658	20.0	21.4	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	1246384	40.0	40.9	
68 2-Nitropropane	41	5.974	5.974	0.000	100	316191	40.0	43.2	
79 n-Butyl acetate	43	7.136	7.136	0.000	97	860606	20.0	22.8	
83 1-Chlorohexane	91	7.705	7.705	0.000	97	800729	20.0	20.3	
92 Cyclohexanone	55	8.772	8.772	0.000	95	197991	200.0	212.0	
105 Pentachloroethane	167	9.579	9.579	0.000	95	811386	40.0	42.4	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	2710908	20.0	21.0	
112 Benzyl chloride	126	10.100	10.100	0.000	98	218891	20.0	20.5	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	921982	20.0	19.5	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	92	2151231	40.0	42.5	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	1841488	40.0	40.7	

Reagents:

VM50is_00084	Amount Added: 1.00	Units: uL
VMRA9W_00352	Amount Added: 16.00	Units: uL

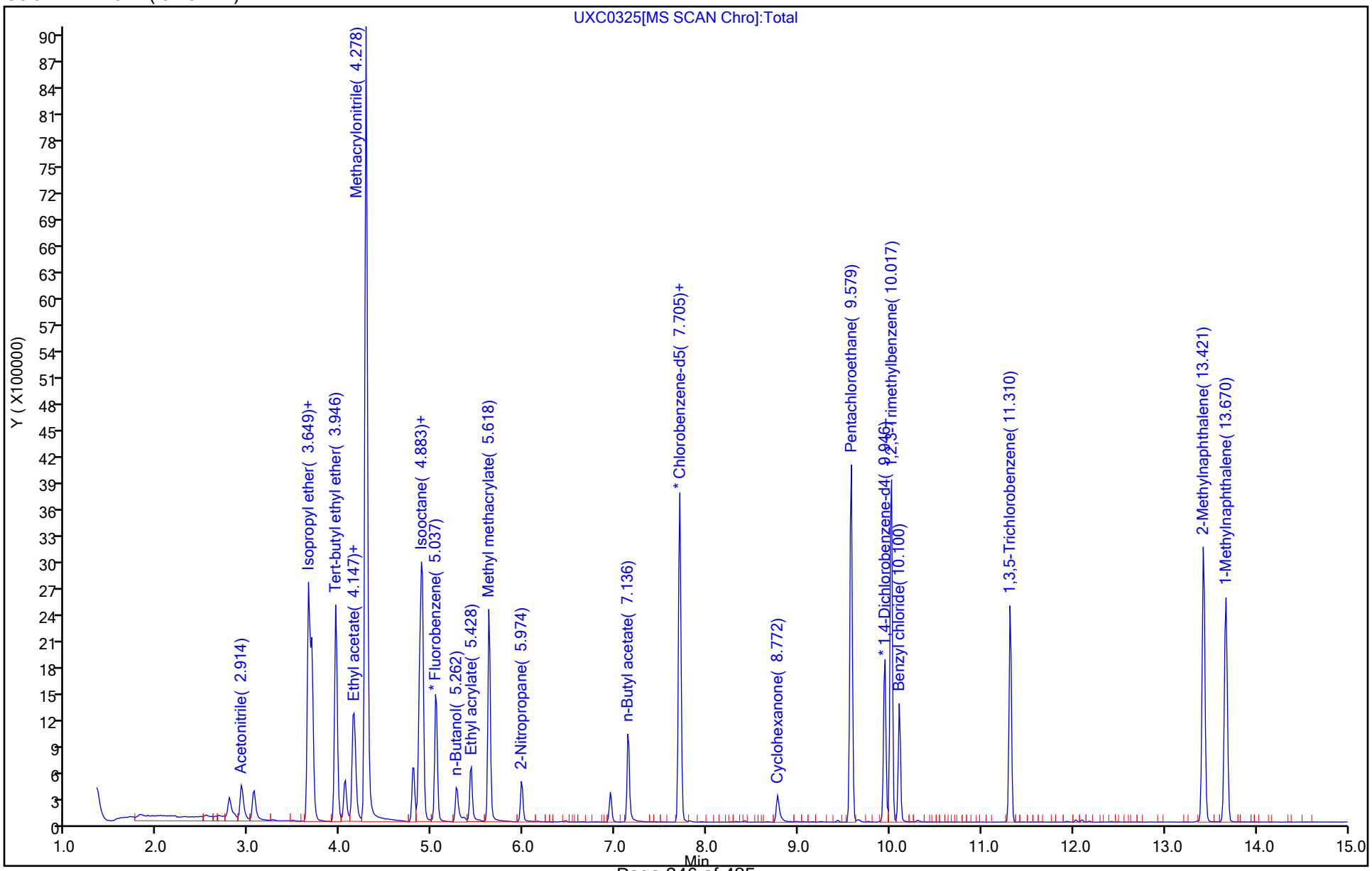
Report Date: 16-Jul-2020 08:53:51 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0325.D

Injection Date:	15-Jul-2020 11:34:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L5			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0326.D
Lims ID: STD A9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Jul-2020 11:56:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-010
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:52 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 12:19:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1324401	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1025538	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	564007	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	99	300624	100.0	88.8	
37 Isopropyl ether	87	3.649	3.649	0.000	91	316160	10.0	10.2	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	569986	10.0	9.92	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	95	910257	10.0	10.1	
43 Ethyl acetate	43	4.135	4.135	0.000	100	556681	20.0	19.6	
44 Propionitrile	54	4.159	4.159	0.000	99	436026	100.0	99.7	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	2233289	100.0	98.7	
54 Isooctane	57	4.859	4.859	0.000	97	667154	10.0	9.07	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	93	776404	10.0	10.2	
59 n-Butanol	56	5.274	5.274	0.000	93	126035	250.0	243.5	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	330735	10.0	10.2	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	554358	20.0	19.9	
68 2-Nitropropane	41	5.974	5.974	0.000	99	120152	20.0	18.0	
79 n-Butyl acetate	43	7.136	7.136	0.000	97	342728	10.0	9.94	
83 1-Chlorohexane	91	7.705	7.705	0.000	94	344073	10.0	9.36	
92 Cyclohexanone	55	8.772	8.772	0.000	94	90751	100.0	100.7	
105 Pentachloroethane	167	9.579	9.579	0.000	90	253602	20.0	16.2	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	1237855	10.0	9.92	
112 Benzyl chloride	126	10.100	10.100	0.000	98	79729	10.0	9.31	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	96	451782	10.0	9.88	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	92	1117275	20.0	22.9	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	94	994454	20.0	22.8	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	8.00	Units: uL

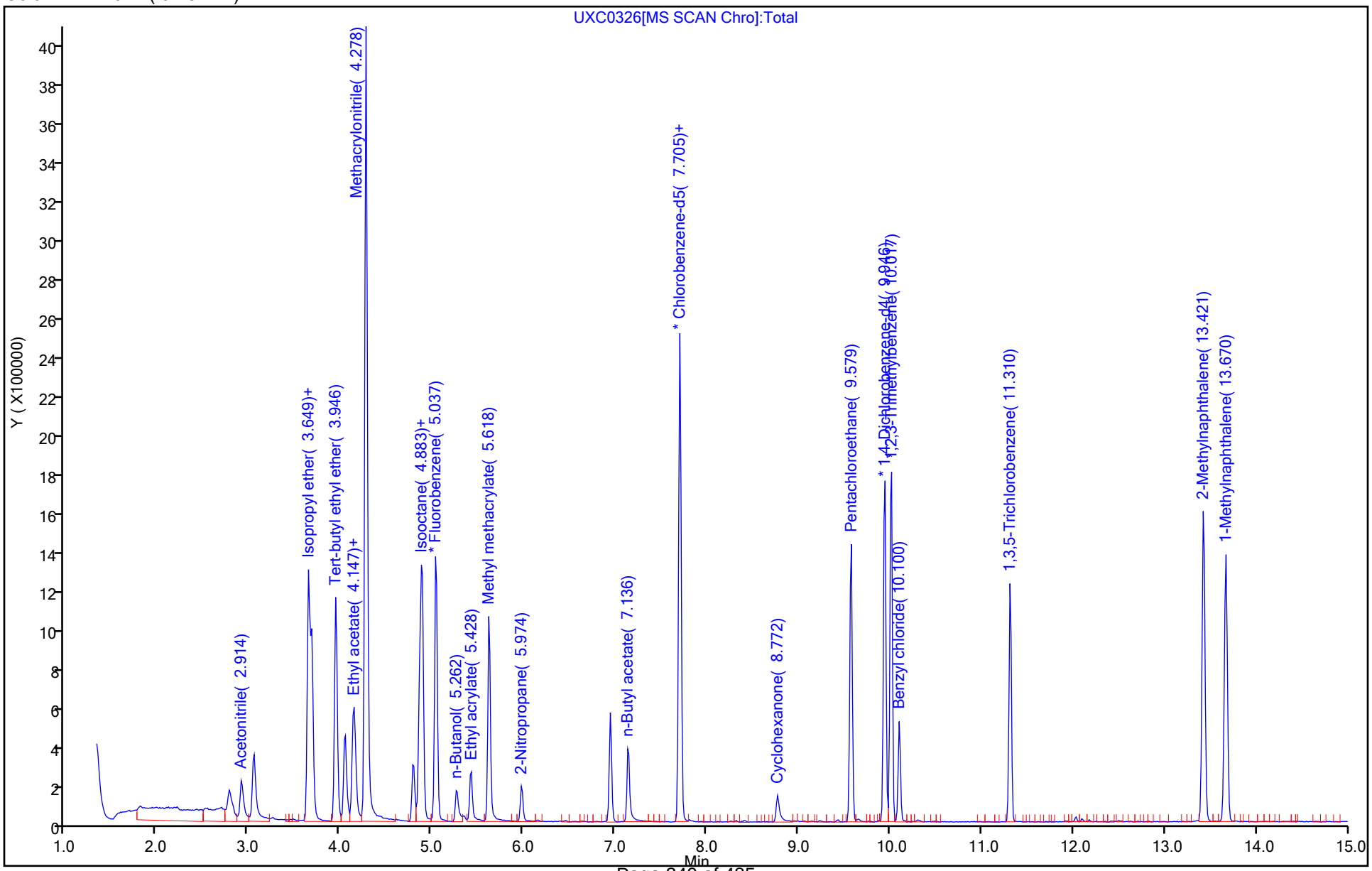
Report Date: 16-Jul-2020 08:53:53 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0326.D

Injection Date:	15-Jul-2020 11:56:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L4			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0327.D
Lims ID: STD A9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jul-2020 12:17:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-011
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:54 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 13:18:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.037	0.012	99	1297312	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	88	1008437	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	553521	10.0	10.0	
25 Acetonitrile	41	2.926	2.914	0.012	100	179908	50.0	54.2	
37 Isopropyl ether	87	3.649	3.649	0.000	92	157293	5.00	5.20	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	284264	5.00	5.05	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	94	444525	5.00	5.01	
43 Ethyl acetate	43	4.135	4.135	0.000	99	292924	10.0	10.5	
44 Propionitrile	54	4.159	4.159	0.000	98	231385	50.0	54.0	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	1115973	50.0	50.3	
54 Isooctane	57	4.871	4.859	0.012	97	339677	5.00	4.71	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	92	369055	5.00	4.93	
59 n-Butanol	56	5.262	5.274	-0.012	94	64282	125.0	126.8	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	166423	5.00	5.23	
64 Methyl methacrylate	41	5.618	5.618	0.000	90	280568	10.0	10.3	
68 2-Nitropropane	41	5.974	5.974	0.000	97	59777	10.0	9.13	
79 n-Butyl acetate	43	7.148	7.136	0.012	96	163560	5.00	4.84	
83 1-Chlorohexane	91	7.705	7.705	0.000	95	178725	5.00	4.95	
92 Cyclohexanone	55	8.772	8.772	0.000	91	47740	50.0	54.0	
105 Pentachloroethane	167	9.579	9.579	-0.001	86	141364	10.0	10.1	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	609385	5.00	4.98	
112 Benzyl chloride	126	10.100	10.100	0.000	98	33281	5.00	4.66	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	221174	5.00	4.93	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	93	464208	10.0	9.68	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	413275	10.0	9.65	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	4.00	Units: uL

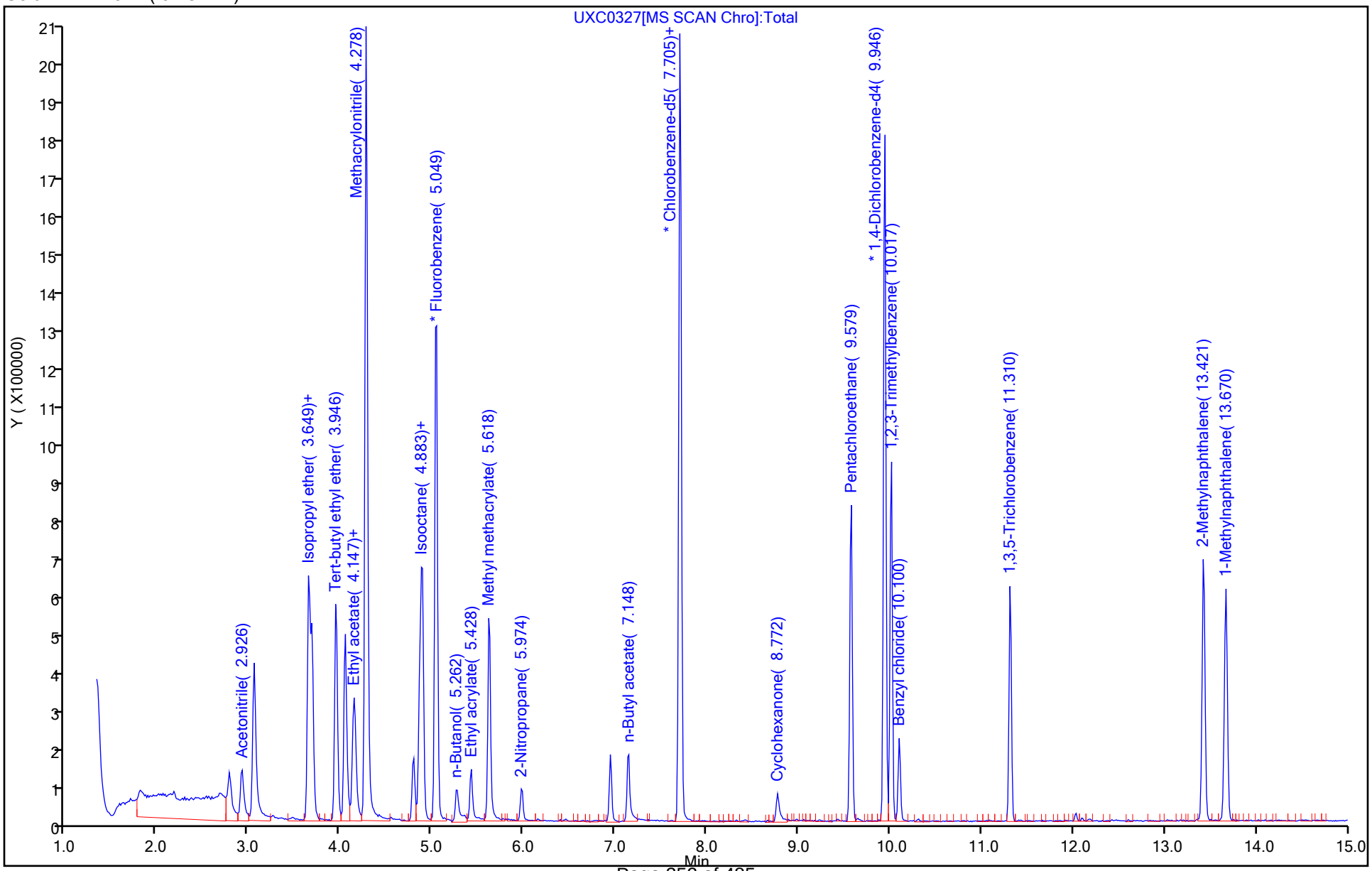
Report Date: 16-Jul-2020 08:53:54 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0327.D

Injection Date:	15-Jul-2020 12:17:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L3			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0328.D
Lims ID: STD A9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jul-2020 12:39:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-012
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:55 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.037	0.012	99	1255611	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	88	979359	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	540207	10.0	10.0	
25 Acetonitrile	41	2.926	2.914	0.012	99	71038	20.0	22.1	
37 Isopropyl ether	87	3.661	3.649	0.012	91	58271	2.00	1.99	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	112578	2.00	2.07	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	93	168024	2.00	1.96	
43 Ethyl acetate	43	4.136	4.135	0.001	99	110769	4.00	4.11	
44 Propionitrile	54	4.159	4.159	0.000	99	80873	20.0	19.5	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	404511	20.0	18.9	
54 Isooctane	57	4.871	4.859	0.012	98	148423	2.00	2.13	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	90	135396	2.00	1.87	
59 n-Butanol	56	5.274	5.274	0.000	91	22274	50.0	45.4	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	59415	2.00	1.93	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	104914	4.00	3.97	
68 2-Nitropropane	41	5.974	5.974	0.000	99	25399	4.00	4.01	
79 n-Butyl acetate	43	7.136	7.136	0.000	96	57818	2.00	1.77	
83 1-Chlorohexane	91	7.705	7.705	0.000	95	71187	2.00	2.03	
92 Cyclohexanone	55	8.772	8.772	0.000	89	15795	20.0	18.3	
105 Pentachloroethane	167	9.579	9.579	0.000	81	44746	4.00	4.71	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	221718	2.00	1.86	
112 Benzyl chloride	126	10.100	10.100	0.000	97	10924	2.00	2.16	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	95	92743	2.00	2.12	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	93	183439	4.00	3.92	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	94	169028	4.00	4.04	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	1.60	Units: uL

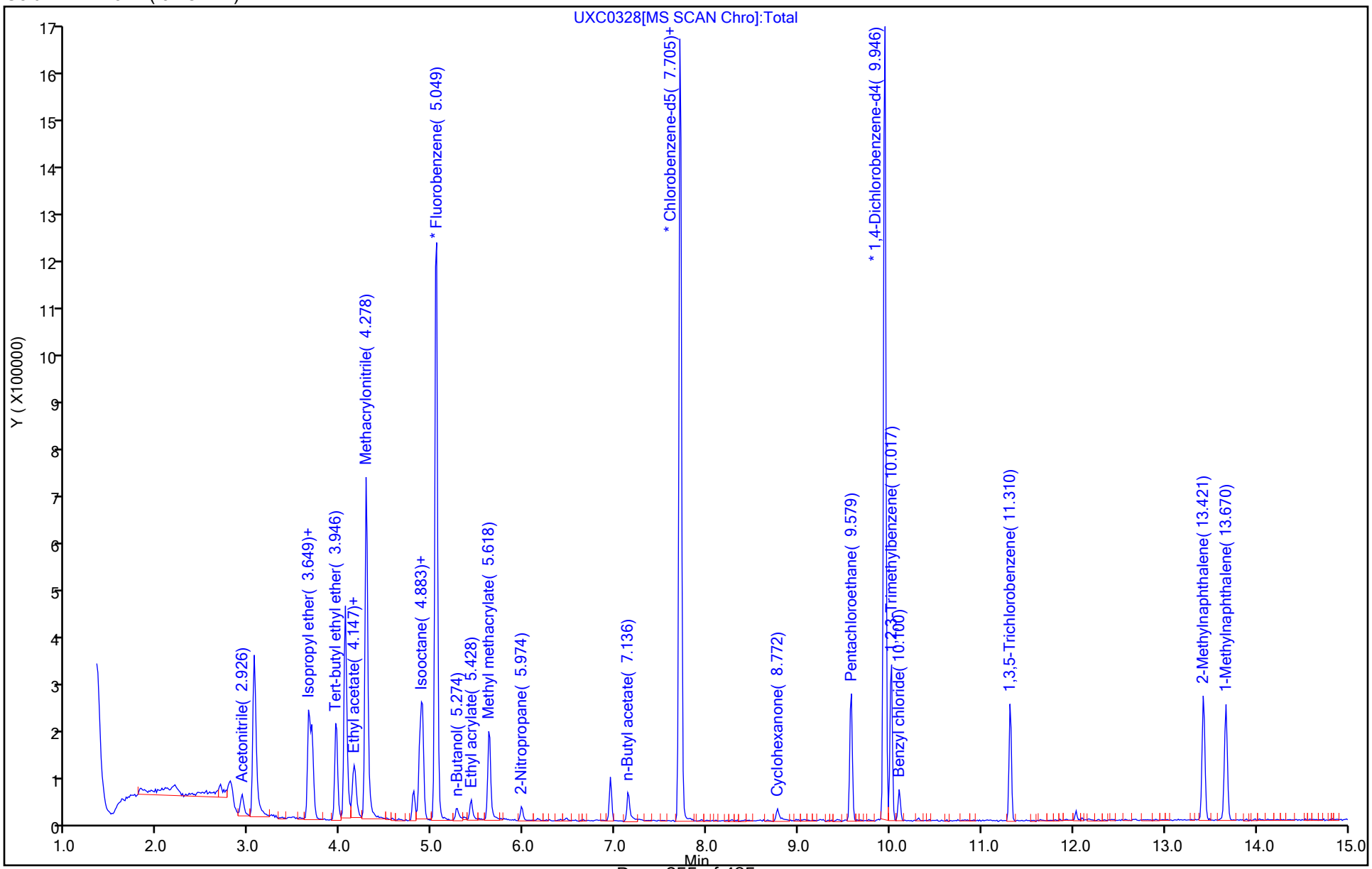
Report Date: 16-Jul-2020 08:53:55 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0328.D

Injection Date:	15-Jul-2020 12:39:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L2			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D
Lims ID: STD A9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jul-2020 13:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-013
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 13:22:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1227648	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.717	-0.012	87	944018	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	523057	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	94	34980	10.0	11.1	
37 Isopropyl ether	87	3.649	3.649	0.000	91	28790	1.00	1.01	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	94	54235	1.00	1.02	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	94	82534	1.00	0.9839	
43 Ethyl acetate	43	4.136	4.135	0.001	98	52374	2.00	1.99	
44 Propionitrile	54	4.159	4.159	0.000	97	39956	10.0	9.85	
45 Methacrylonitrile	41	4.278	4.278	0.000	94	206129	10.0	9.83	
54 Isooctane	57	4.859	4.859	0.000	98	74663	1.00	1.09	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	89	66115	1.00	0.9329	
59 n-Butanol	56	5.274	5.274	0.000	86	11957	25.0	24.9	
61 Ethyl acrylate	55	5.428	5.428	0.000	98	25529	1.00	0.8475	
64 Methyl methacrylate	41	5.618	5.618	0.000	90	48209	2.00	1.87	
68 2-Nitropropane	41	5.974	5.974	0.000	97	11910	2.00	1.92	
79 n-Butyl acetate	43	7.136	7.136	0.000	94	27486	1.00	0.8604	
83 1-Chlorohexane	91	7.705	7.705	0.000	87	34870	1.00	1.03	
92 Cyclohexanone	55	8.772	8.772	0.000	85	7614	10.0	9.11	
105 Pentachloroethane	167	9.579	9.579	0.000	74	13021	2.00	2.86	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	98	109885	1.00	0.9496	
112 Benzyl chloride	126	10.100	10.100	0.000	97	4972	1.00	1.46	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	95	45163	1.00	1.07	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	93	83019	2.00	1.83	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	96	81255	2.00	2.01	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	0.80	Units: uL

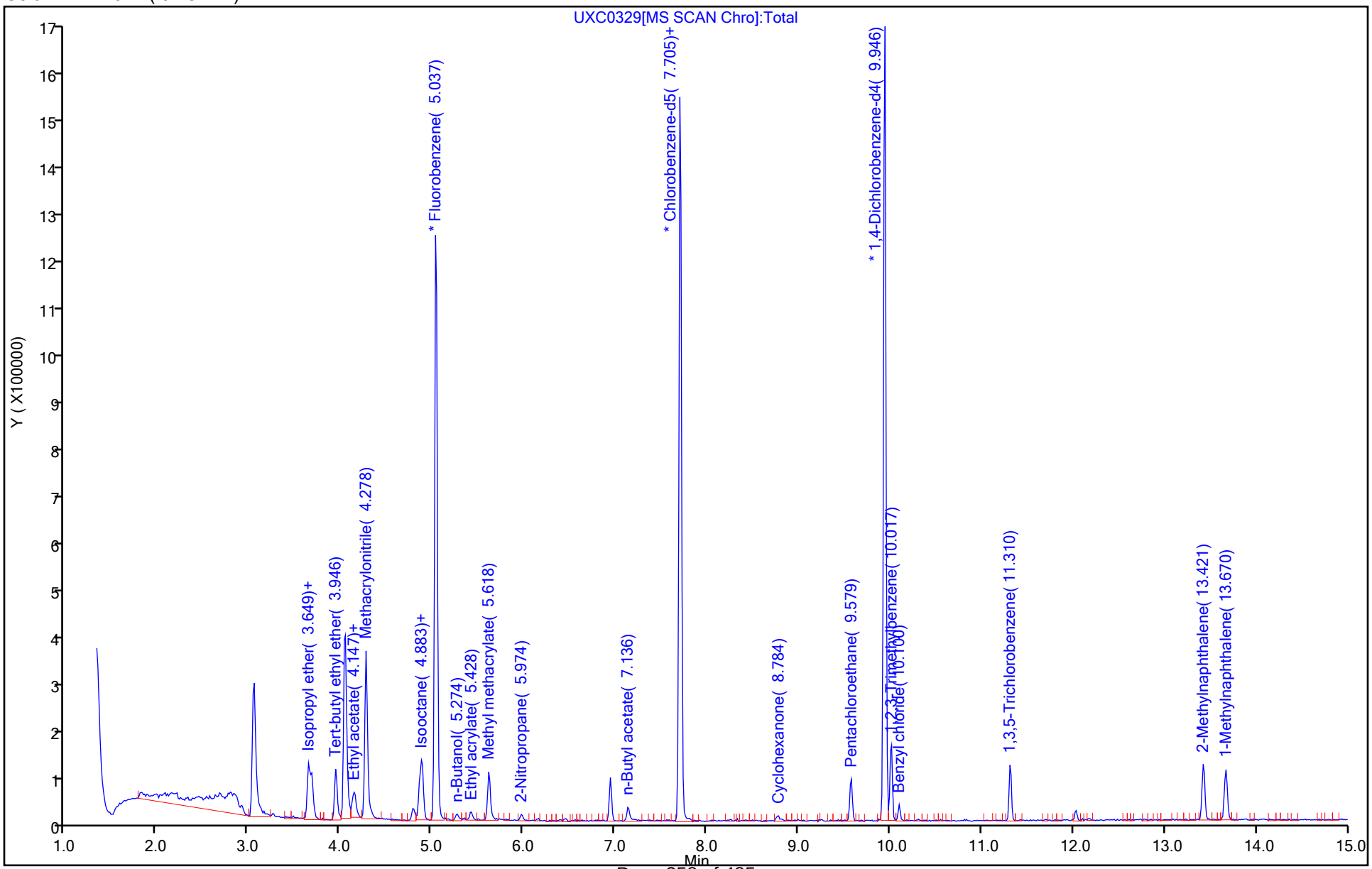
Report Date: 16-Jul-2020 08:53:57 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Injection Date:	15-Jul-2020 13:01:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L1			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: ICV 240-442673/14 Calibration Date: 07/15/2020 10:50

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0323.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2742	0.2691		0.00981	0.0100	-1.9	50.0
Chloromethane	Ave	0.3275	0.3170	0.1000	0.00968	0.0100	-3.2	50.0
Butadiene	Ave	0.3702	0.3309		0.00894	0.0100	-10.6	50.0
Vinyl chloride	Ave	0.3246	0.2949		0.00909	0.0100	-9.1	20.0
Bromomethane	Ave	0.2730	0.2349		0.00861	0.0100	-13.9	50.0
Chloroethane	Ave	0.2543	0.2291		0.00901	0.0100	-9.9	50.0
Dichlorofluoromethane	Ave	0.6149	0.5826		0.00947	0.0100	-5.3	50.0
Trichlorofluoromethane	Ave	0.5362	0.4920		0.00918	0.0100	-8.2	50.0
Ethyl ether	Ave	0.2742	0.2946		0.0107	0.0100	7.4	50.0
Acrolein	Ave	0.0216	0.0201		0.0466	0.0500	-6.7	50.0
1,1-Dichloroethene	Ave	0.3008	0.2981		0.00991	0.0100	-0.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2269	0.2286		0.0101	0.0100	0.7	50.0
Acetone	Lin1		0.0270		0.0186	0.0200	-6.8	50.0
Iodomethane	Ave	0.5331	0.5557		0.0104	0.0100	4.2	50.0
Carbon disulfide	Ave	0.8326	0.8192		0.00984	0.0100	-1.6	50.0
3-Chloro-1-propene	Ave	0.1627	0.1654		0.0102	0.0100	1.7	50.0
Methyl acetate	Ave	0.1806	0.1835		0.0203	0.0200	1.6	50.0
Methylene Chloride	Ave	0.2637	0.2736		0.0104	0.0100	3.7	50.0
2-Methyl-2-propanol	Ave	0.0139	0.0128		0.0920	0.100	-8.0	50.0
Acrylonitrile	Ave	0.0866	0.0875		0.101	0.100	0.9	50.0
Methyl tert-butyl ether	Ave	0.6972	0.7045		0.0101	0.0100	1.1	50.0
trans-1,2-Dichloroethene	Ave	0.2750	0.2661		0.00968	0.0100	-3.2	50.0
Hexane	Ave	0.0473	0.0476		0.0101	0.0100	0.6	20.0
1,1-Dichloroethane	Ave	0.4575	0.4599	0.1000	0.0101	0.0100	0.5	50.0
Vinyl acetate	Ave	0.4462	0.4578		0.0103	0.0100	2.6	50.0
2,2-Dichloropropane	Ave	0.0712	0.0710		0.00997	0.0100	-0.3	50.0
cis-1,2-Dichloroethene	Ave	0.2862	0.2902		0.0101	0.0100	1.4	50.0
2-Butanone (MEK)	Ave	0.0285	0.0276		0.0194	0.0200	-3.2	50.0
Chlorobromomethane	Ave	0.1404	0.1394		0.00993	0.0100	-0.7	50.0
Tetrahydrofuran	Ave	0.0672	0.0681		0.0203	0.0200	1.3	50.0
Chloroform	Ave	0.4591	0.4641		0.0101	0.0100	1.1	20.0
1,1,1-Trichloroethane	Ave	0.3785	0.3847		0.0102	0.0100	1.6	50.0
Cyclohexane	Ave	0.3628	0.3688		0.0102	0.0100	1.7	50.0
1,1-Dichloropropene	Ave	0.3697	0.3597		0.00973	0.0100	-2.7	50.0
Carbon tetrachloride	Ave	0.3156	0.3166		0.0100	0.0100	0.3	50.0
Isobutyl alcohol	Ave	0.0055	0.0054		0.244	0.250	-2.4	50.0
Benzene	Ave	1.088	1.093		0.0100	0.0100	0.5	50.0
1,2-Dichloroethane	Ave	0.3993	0.4139		0.0104	0.0100	3.7	50.0
n-Heptane	Ave	0.0437	0.0402		0.00919	0.0100	-8.1	50.0
Trichloroethene	Ave	0.2928	0.2885		0.00985	0.0100	-1.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: ICV 240-442673/14 Calibration Date: 07/15/2020 10:50

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0323.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2981	0.2965		0.00995	0.0100	-0.5	50.0
1,2-Dichloropropane	Ave	0.2508	0.2619		0.0104	0.0100	4.4	20.0
1,4-Dioxane	Ave	0.0015	0.0016		0.206	0.200	3.0	50.0
Dibromomethane	Ave	0.1527	0.1593		0.0104	0.0100	4.4	50.0
Dichlorobromomethane	Ave	0.2974	0.3142		0.0106	0.0100	5.7	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1499		0.0102	0.0100	1.9	50.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3746		0.0103	0.0100	3.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2138	0.2241		0.0210	0.0200	4.8	50.0
Toluene	Ave	1.444	1.446		0.0100	0.0100	0.0	20.0
trans-1,3-Dichloropropene	Ave	0.4061	0.3892		0.00958	0.0100	-4.2	50.0
Ethyl methacrylate	Ave	0.3350	0.3628		0.0108	0.0100	8.3	50.0
1,1,2-Trichloroethane	Ave	0.2571	0.2722		0.0106	0.0100	5.9	50.0
Tetrachloroethene	Ave	0.2653	0.2674		0.0101	0.0100	0.8	50.0
1,3-Dichloropropane	Ave	0.4791	0.4968		0.0104	0.0100	3.7	50.0
2-Hexanone	Ave	0.1792	0.1846		0.0206	0.0200	3.0	50.0
Chlorodibromomethane	Lin1		0.2603		0.00908	0.0100	-9.2	50.0
Ethylene Dibromide	Ave	0.2655	0.2743		0.0103	0.0100	3.3	50.0
Chlorobenzene	Ave	0.9216	0.9301	0.3000	0.0101	0.0100	0.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2973	0.3097		0.0104	0.0100	4.2	50.0
Ethylbenzene	Ave	0.4739	0.4898		0.0103	0.0100	3.4	20.0
m-Xylene & p-Xylene	Ave	1.171	1.196		0.0102	0.0100	2.2	50.0
o-Xylene	Ave	0.5879	0.6105		0.0104	0.0100	3.8	50.0
Styrene	Ave	0.9791	1.012		0.0103	0.0100	3.3	50.0
Bromoform	Qua		0.1525	0.1000	0.00969	0.0100	-3.1	50.0
Isopropylbenzene	Ave	1.403	1.423		0.0101	0.0100	1.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.6037	0.3000	0.0104	0.0100	3.6	50.0
Bromobenzene	Ave	0.6639	0.6739		0.0102	0.0100	1.5	50.0
1,2,3-Trichloropropane	Ave	0.2016	0.2061		0.0102	0.0100	2.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1777	0.1884		0.0106	0.0100	6.0	50.0
N-Propylbenzene	Ave	0.6406	0.6384		0.00997	0.0100	-0.3	50.0
2-Chlorotoluene	Ave	0.6106	0.6119		0.0100	0.0100	0.2	50.0
1,3,5-Trimethylbenzene	Ave	1.964	1.968		0.0100	0.0100	0.2	50.0
4-Chlorotoluene	Ave	2.074	2.083		0.0100	0.0100	0.4	50.0
tert-Butylbenzene	Ave	1.613	1.609		0.00997	0.0100	-0.3	50.0
1,2,4-Trimethylbenzene	Ave	2.051	2.085		0.0102	0.0100	1.6	50.0
sec-Butylbenzene	Ave	2.088	2.041		0.00977	0.0100	-2.3	50.0
1,3-Dichlorobenzene	Ave	1.225	1.207		0.00985	0.0100	-1.5	50.0
4-Isopropyltoluene	Ave	1.923	1.880		0.00978	0.0100	-2.2	50.0
1,4-Dichlorobenzene	Ave	1.325	1.325		0.0100	0.0100	0.0	50.0
n-Butylbenzene	Ave	1.513	1.455		0.00962	0.0100	-3.8	50.0
1,2-Dichlorobenzene	Ave	1.260	1.219		0.00968	0.0100	-3.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: ICV 240-442673/14 Calibration Date: 07/15/2020 10:50

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0323.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0988	0.0976		0.00987	0.0100	-1.3	50.0
1,2,4-Trichlorobenzene	Ave	0.6764	0.6491		0.00960	0.0100	-4.0	50.0
Hexachlorobutadiene	Qua		0.2307		0.00806	0.0100	-19.4	50.0
Naphthalene	Ave	1.737	1.715		0.00988	0.0100	-1.2	50.0
1,2,3-Trichlorobenzene	Ave	0.6135	0.5707		0.00930	0.0100	-7.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2378	0.2312		0.00972	0.0100	-2.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3193		0.00973	0.0100	-2.7	50.0
Toluene-d8 (Surr)	Ave	1.242	1.244		0.0100	0.0100	0.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4442		0.0102	0.0100	2.1	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0323.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 10:50:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-014
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 11:20:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1403144	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.717	-0.012	92	1095940	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	92	649329	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	324455	10.0	9.72	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	448093	10.0	9.73	
$ 6 Toluene-d8 (Surr)	98	6.401	6.400	0.001	93	1362885	10.0	10.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	91	486850	10.0	10.2	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	98	377544	10.0	9.81	
10 Chloromethane	50	1.598	1.598	0.000	99	444785	10.0	9.68	
11 Vinyl chloride	62	1.693	1.693	0.000	97	413845	10.0	9.09	
12 Butadiene	54	1.693	1.693	0.000	96	464314	10.0	8.94	
13 Bromomethane	94	1.954	1.942	0.012	92	329655	10.0	8.61	
14 Chloroethane	64	2.025	2.025	0.000	99	321495	10.0	9.01	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	817411	10.0	9.47	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	97	690400	10.0	9.18	
17 Ethyl ether	59	2.440	2.440	0.000	92	413318	10.0	10.7	
18 Acrolein	56	2.558	2.558	0.000	98	141324	50.0	46.6	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	418283	10.0	9.91	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	93	320718	10.0	10.1	
21 Acetone	58	2.689	2.677	0.012	98	75830	20.0	18.6	
22 Iodomethane	142	2.772	2.772	0.000	99	779719	10.0	10.4	
24 Carbon disulfide	76	2.831	2.831	0.000	99	1149426	10.0	9.84	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	86	232148	10.0	10.2	
27 Methyl acetate	43	2.950	2.950	0.000	98	514949	20.0	20.3	
28 Methylene Chloride	84	3.045	3.044	0.001	95	383872	10.0	10.4	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	93	179587	100.0	92.0	
30 Acrylonitrile	53	3.246	3.246	0.000	99	1227170	100.0	100.9	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	988556	10.0	10.1	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	373407	10.0	9.68	
34 Hexane	86	3.483	3.471	0.012	95	66784	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	96	645326	10.0	10.1	
36 Vinyl acetate	43	3.637	3.637	0.000	98	642378	10.0	10.3	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	79	99654	10.0	9.97	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	407221	10.0	10.1	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	77400	20.0	19.4	
46 Chlorobromomethane	128	4.290	4.290	0.000	95	195608	10.0	9.93	
47 Tetrahydrofuran	42	4.325	4.325	0.000	89	191160	20.0	20.3	
48 Chloroform	83	4.349	4.349	0.000	94	651220	10.0	10.1	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	539786	10.0	10.2	
50 Cyclohexane	56	4.551	4.551	0.001	93	517484	10.0	10.2	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	91	504672	10.0	9.73	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	444270	10.0	10.0	
53 Isobutyl alcohol	41	4.717	4.717	0.000	93	189481	250.0	244.1	
55 Benzene	78	4.811	4.811	0.000	96	1533312	10.0	10.0	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	580790	10.0	10.4	
58 n-Heptane	100	5.013	5.013	0.000	91	56394	10.0	9.19	
60 Trichloroethene	130	5.345	5.345	0.000	95	404775	10.0	9.85	
62 Methylcyclohexane	83	5.511	5.511	0.000	91	415984	10.0	9.95	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	367472	10.0	10.4	
66 1,4-Dioxane	88	5.653	5.653	0.000	34	43674	200.0	206.0	
65 Dibromomethane	93	5.653	5.653	0.000	95	223589	10.0	10.4	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	440917	10.0	10.6	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	210381	10.0	10.2	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	92	525673	10.0	10.3	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	628791	20.0	21.0	
72 Toluene	91	6.460	6.460	0.000	98	1584267	10.0	10.0	
73 trans-1,3-Dichloropropene	75	6.650	6.649	0.001	97	426562	10.0	9.58	
74 Ethyl methacrylate	69	6.721	6.709	0.012	88	397587	10.0	10.8	
75 1,1,2-Trichloroethane	97	6.816	6.815	0.001	93	298369	10.0	10.6	
76 Tetrachloroethene	164	6.946	6.946	0.000	96	293087	10.0	10.1	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	544512	10.0	10.4	
78 2-Hexanone	43	7.029	7.029	0.000	97	404588	20.0	20.6	
80 Chlorodibromomethane	129	7.183	7.183	0.000	91	285299	10.0	9.08	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	300645	10.0	10.3	
84 Chlorobenzene	112	7.741	7.740	0.001	97	1019371	10.0	10.1	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	92	339398	10.0	10.4	
86 Ethylbenzene	106	7.835	7.835	0.000	99	536784	10.0	10.3	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1311017	10.0	10.2	
88 o-Xylene	106	8.322	8.322	0.000	95	669058	10.0	10.4	
89 Styrene	104	8.333	8.333	0.000	94	1108676	10.0	10.3	
90 Bromoform	173	8.523	8.523	0.000	97	167178	10.0	9.69	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	1559693	10.0	10.1	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	391998	10.0	10.4	
95 Bromobenzene	156	8.974	8.974	0.000	96	437582	10.0	10.2	
96 1,2,3-Trichloropropane	110	8.998	8.997	0.001	91	133812	10.0	10.2	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	78	122318	10.0	10.6	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	414528	10.0	9.97	
99 2-Chlorotoluene	126	9.152	9.152	0.000	97	397329	10.0	10.0	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	1278016	10.0	10.0	
102 4-Chlorotoluene	91	9.258	9.258	0.000	97	1352537	10.0	10.0	
104 tert-Butylbenzene	119	9.555	9.555	0.000	91	1044627	10.0	9.97	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	96	1353545	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	1325391	10.0	9.77	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	783697	10.0	9.85	
109 4-Isopropyltoluene	119	9.899	9.899	0.000	97	1221038	10.0	9.78	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	95	860138	10.0	10.0	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	944829	10.0	9.62	
114 1,2-Dichlorobenzene	146	10.338	10.337	0.001	98	791563	10.0	9.68	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	79	63346	10.0	9.87	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.001	93	421484	10.0	9.60	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	97	149776	10.0	8.06	
119 Naphthalene	128	12.176	12.176	0.000	97	1113771	10.0	9.88	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	96	370584	10.0	9.30	
S 129 Xylenes, Total	106				0		20.0	20.6	
S 130 Total BTEX	1				0		50.0	51.0	
S 131 Trihalomethanes, Total	1				0		40.0	39.4	

Reagents:

VMFASPW_00358	Amount Added:	8.00	Units: uL	
VMFASAW_00335	Amount Added:	8.00	Units: uL	
VMFASGW_00366	Amount Added:	8.00	Units: uL	
vm50ss_stk_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00084	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

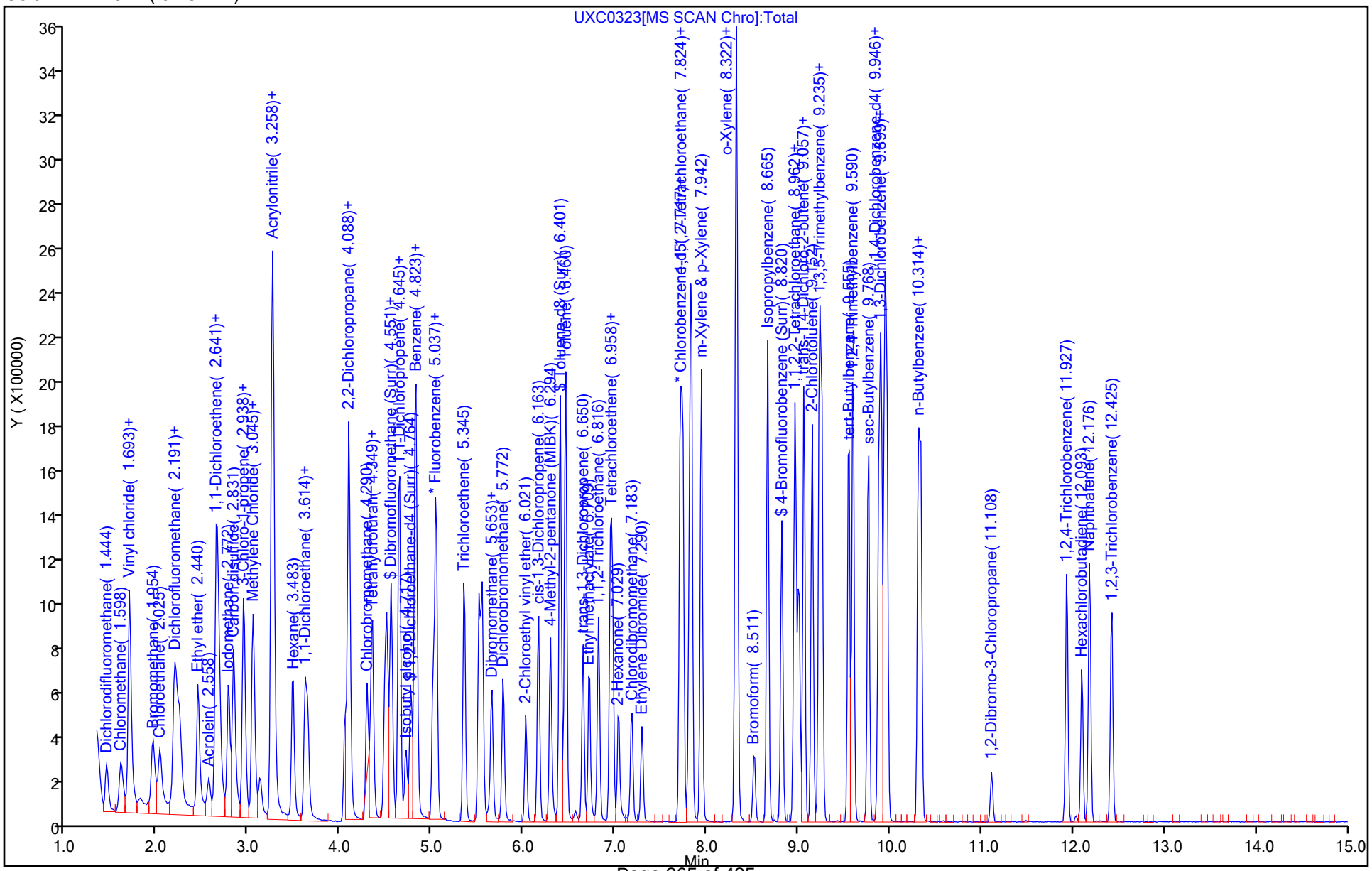
Report Date: 16-Jul-2020 08:54:00 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0323.D

Injection Date:	15-Jul-2020 10:50:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: ICV 240-442673/15 Calibration Date: 07/15/2020 13:23

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0330.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2378	0.2232		0.00939	0.0100	-6.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3234		0.00986	0.0100	-1.4	50.0
Toluene-d8 (Surr)	Ave	1.242	1.230		0.00990	0.0100	-1.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4210		0.00968	0.0100	-3.2	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D
Lims ID: ICV A9
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 13:23:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-015
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.037	0.011	99	1288738	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	999150	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	537104	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	287642	10.0	9.39	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	416737	10.0	9.86	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1228732	10.0	9.90	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	90	420616	10.0	9.68	
25 Acetonitrile	41	2.926	2.914	0.012	99	297902	100.0	90.4	
37 Isopropyl ether	87	3.649	3.649	0.000	92	301746	10.0	10.0	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	551842	10.0	9.87	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	95	847868	10.0	9.63	
43 Ethyl acetate	43	4.135	4.135	0.000	100	552561	20.0	20.0	
44 Propionitrile	54	4.159	4.159	0.000	98	429304	100.0	100.9	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	2138583	100.0	97.1	
54 Isooctane	57	4.871	4.859	0.012	97	628050	10.0	8.77	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	92	725022	10.0	9.75	
59 n-Butanol	56	5.274	5.274	0.000	91	117373	250.0	233.0	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	313053	10.0	9.90	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	552597	20.0	20.4	
68 2-Nitropropane	41	5.973	5.974	-0.001	100	115141	20.0	17.7	
79 n-Butyl acetate	43	7.135	7.136	-0.001	97	342605	10.0	10.2	
83 1-Chlorohexane	91	7.705	7.705	0.000	94	336476	10.0	9.40	
92 Cyclohexanone	55	8.772	8.772	0.000	90	72825	100.0	84.9	
105 Pentachloroethane	167	9.578	9.579	-0.001	91	255800	20.0	16.7	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	1191077	10.0	10.0	
112 Benzyl chloride	126	10.100	10.100	0.000	99	67670	10.0	8.47	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	395153	10.0	9.08	
121 2-Methylnaphthalene	142	13.421	13.421	-0.001	93	734732	20.0	15.8	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	666017	20.0	16.0	

Reagents:

VMFASA9W_00284	Amount Added:	8.00	Units: uL	
vm50ss_stk_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00084	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

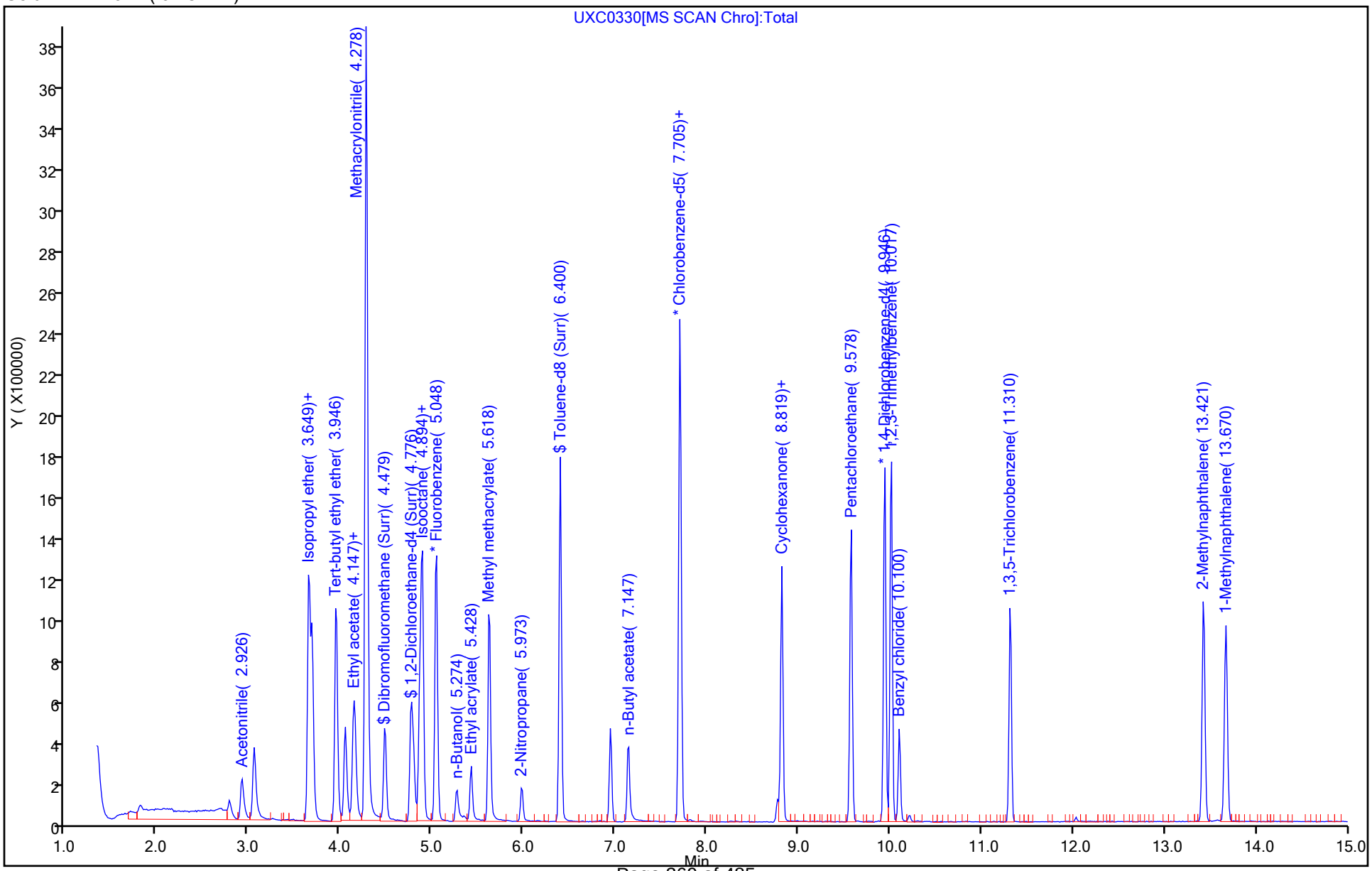
Report Date: 16-Jul-2020 08:54:05 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D

Injection Date:	15-Jul-2020 13:23:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	ICV A9			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: ICV 240-442673/15 Calibration Date: 07/15/2020 13:23

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 11:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 13:01

Lab File ID: UXC0330.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0256	0.0231		0.0904	0.100	-9.6	50.0
Isopropyl ether	Ave	0.2332	0.2341		0.0100	0.0100	0.4	50.0
2-Chloro-1,3-butadiene	Ave	0.4340	0.4282		0.00987	0.0100	-1.3	50.0
Tert-butyl ethyl ether	Ave	0.6833	0.6579		0.00963	0.0100	-3.7	50.0
Ethyl acetate	Ave	0.2146	0.2144		0.0200	0.0200	-0.1	50.0
Propionitrile	Ave	0.0330	0.0333		0.101	0.100	0.9	50.0
Methacrylonitrile	Ave	0.1709	0.1659		0.0971	0.100	-2.9	50.0
Tert-amyl methyl ether	Ave	0.5773	0.5626		0.00975	0.0100	-2.5	50.0
n-Butanol	Ave	0.0039	0.0036		0.233	0.250	-6.8	50.0
Ethyl acrylate	Ave	0.2454	0.2429		0.00990	0.0100	-1.0	50.0
Methyl methacrylate	Ave	0.2105	0.2144		0.0204	0.0200	1.9	50.0
2-Nitropropane	Ave	0.0505	0.0447		0.0177	0.0200	-11.5	50.0
n-Butyl acetate	Ave	0.2602	0.2658		0.0102	0.0100	2.2	50.0
1-Chlorohexane	Ave	0.3583	0.3368		0.00940	0.0100	-6.0	50.0
Cyclohexanone	Ave	0.0160	0.0136		0.0849	0.100	-15.1	50.0
Pentachloroethane	Qua		0.1280		0.0167	0.0200	-16.6	50.0
1,2,3-Trimethylbenzene	Ave	2.212	2.218		0.0100	0.0100	0.2	50.0
Benzyl chloride	Qua		0.1260		0.00847	0.0100	-15.3	50.0
1,3,5-Trichlorobenzene	Ave	0.8107	0.7357		0.00908	0.0100	-9.2	50.0
2-Methylnaphthalene	Ave	0.8665	0.6840		0.0158	0.0200	-21.1	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D
Lims ID: ICV A9
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 13:23:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-015
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.037	0.011	99	1288738	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	999150	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	537104	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	287642	10.0	9.39	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	416737	10.0	9.86	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1228732	10.0	9.90	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	90	420616	10.0	9.68	
25 Acetonitrile	41	2.926	2.914	0.012	99	297902	100.0	90.4	
37 Isopropyl ether	87	3.649	3.649	0.000	92	301746	10.0	10.0	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	551842	10.0	9.87	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	95	847868	10.0	9.63	
43 Ethyl acetate	43	4.135	4.135	0.000	100	552561	20.0	20.0	
44 Propionitrile	54	4.159	4.159	0.000	98	429304	100.0	100.9	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	2138583	100.0	97.1	
54 Isooctane	57	4.871	4.859	0.012	97	628050	10.0	8.77	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	92	725022	10.0	9.75	
59 n-Butanol	56	5.274	5.274	0.000	91	117373	250.0	233.0	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	313053	10.0	9.90	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	552597	20.0	20.4	
68 2-Nitropropane	41	5.973	5.974	-0.001	100	115141	20.0	17.7	
79 n-Butyl acetate	43	7.135	7.136	-0.001	97	342605	10.0	10.2	
83 1-Chlorohexane	91	7.705	7.705	0.000	94	336476	10.0	9.40	
92 Cyclohexanone	55	8.772	8.772	0.000	90	72825	100.0	84.9	
105 Pentachloroethane	167	9.578	9.579	-0.001	91	255800	20.0	16.7	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	1191077	10.0	10.0	
112 Benzyl chloride	126	10.100	10.100	0.000	99	67670	10.0	8.47	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	395153	10.0	9.08	
121 2-Methylnaphthalene	142	13.421	13.421	-0.001	93	734732	20.0	15.8	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	666017	20.0	16.0	

Reagents:

VMFASA9W_00284	Amount Added:	8.00	Units: uL	
vm50ss_stk_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00084	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

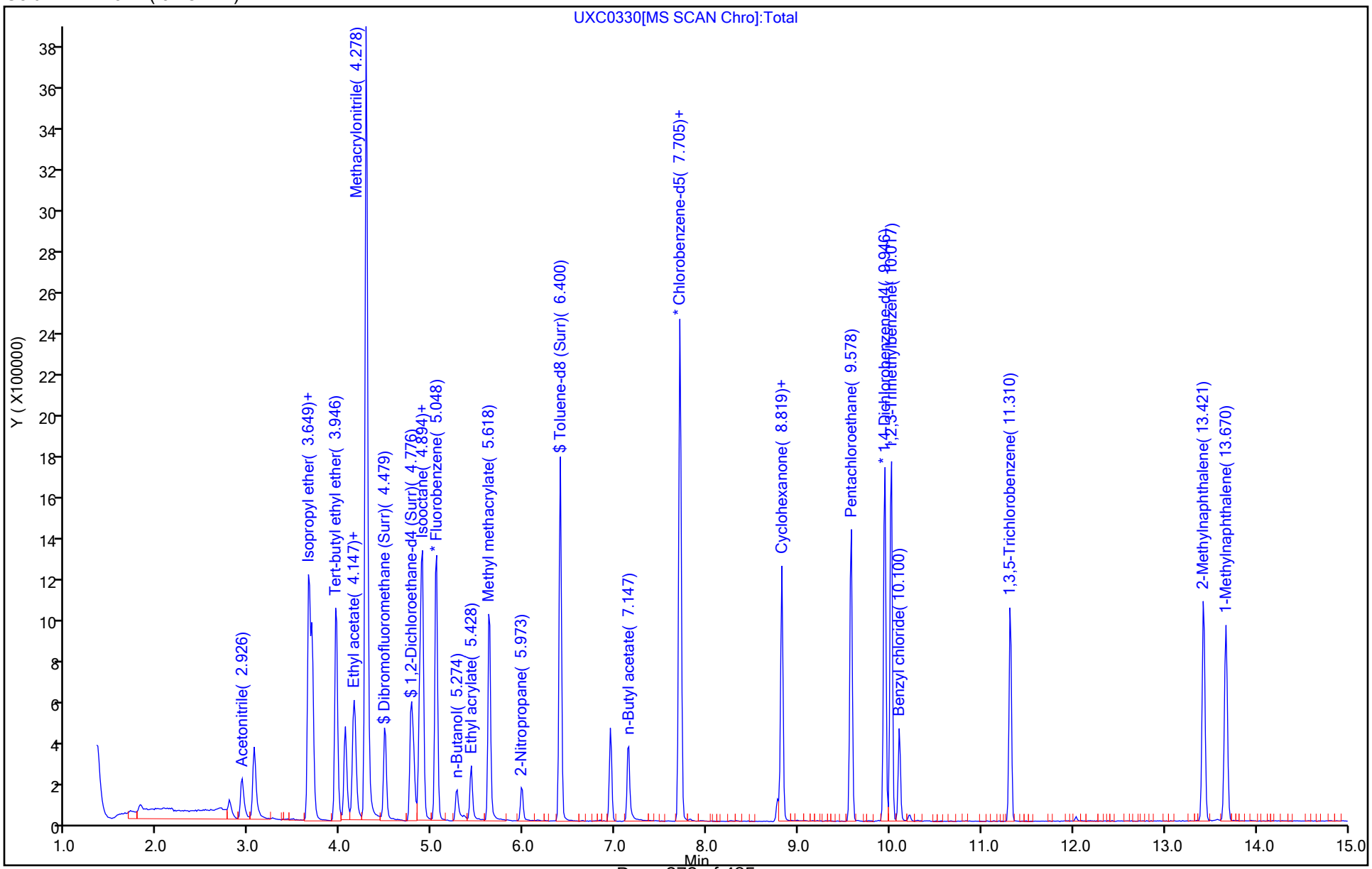
Report Date: 16-Jul-2020 08:54:05 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D

Injection Date:	15-Jul-2020 13:23:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	ICV A9			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461048/2 Calibration Date: 11/15/2020 07:53

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3779.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2742	0.2432		0.00887	0.0100	-11.3	50.0
Chloromethane	Ave	0.3275	0.3539	0.1000	0.0108	0.0100	8.0	50.0
Vinyl chloride	Ave	0.3246	0.2881		0.00887	0.0100	-11.3	20.0
Butadiene	Ave	0.3702	0.3274		0.00884	0.0100	-11.6	50.0
Bromomethane	Ave	0.2730	0.1668		0.00611	0.0100	-38.9	50.0
Chloroethane	Ave	0.2543	0.1585		0.00623	0.0100	-37.7	50.0
Dichlorofluoromethane	Ave	0.6149	0.4663		0.00758	0.0100	-24.2	50.0
Trichlorofluoromethane	Ave	0.5362	0.3086		0.00575	0.0100	-42.5	50.0
Ethyl ether	Ave	0.2742	0.3053		0.0111	0.0100	11.4	50.0
Acrolein	Ave	0.0216	0.0116		0.0268	0.0500	-46.4	50.0
1,1-Dichloroethene	Ave	0.3008	0.2461		0.00818	0.0100	-18.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2269	0.1685		0.00743	0.0100	-25.7	50.0
Acetone	Lin1		0.0276		0.0191	0.0200	-4.4	50.0
Iodomethane	Ave	0.5331	0.3417		0.00641	0.0100	-35.9	50.0
Carbon disulfide	Ave	0.8326	0.5711		0.00686	0.0100	-31.4	50.0
3-Chloro-1-propene	Ave	0.1627	0.1569		0.00964	0.0100	-3.6	50.0
Methyl acetate	Ave	0.1806	0.2436		0.0270	0.0200	34.8	50.0
Methylene Chloride	Ave	0.2637	0.2824		0.0107	0.0100	7.1	50.0
2-Methyl-2-propanol	Ave	0.0139	0.0104		0.0749	0.100	-25.1	50.0
Acrylonitrile	Ave	0.0866	0.1071		0.124	0.100	23.6	50.0
Methyl tert-butyl ether	Ave	0.6972	0.6430		0.00922	0.0100	-7.8	50.0
trans-1,2-Dichloroethene	Ave	0.2750	0.2502		0.00910	0.0100	-9.0	50.0
Hexane	Ave	0.0473	0.0425		0.00899	0.0100	-10.1	20.0
1,1-Dichloroethane	Ave	0.4575	0.4753	0.1000	0.0104	0.0100	3.9	50.0
Vinyl acetate	Ave	0.4462	0.4074		0.00913	0.0100	-8.7	50.0
2,2-Dichloropropane	Ave	0.0712	0.0550		0.00772	0.0100	-22.8	50.0
2-Butanone (MEK)	Ave	0.0285	0.0279		0.0196	0.0200	-2.0	50.0
cis-1,2-Dichloroethene	Ave	0.2862	0.2647		0.00925	0.0100	-7.5	50.0
Chlorobromomethane	Ave	0.1404	0.1195		0.00851	0.0100	-14.9	50.0
Tetrahydrofuran	Ave	0.0672	0.0759		0.0226	0.0200	12.9	50.0
Chloroform	Ave	0.4591	0.4601		0.0100	0.0100	0.2	20.0
1,1,1-Trichloroethane	Ave	0.3785	0.3046		0.00805	0.0100	-19.5	50.0
Cyclohexane	Ave	0.3628	0.3586		0.00989	0.0100	-1.1	50.0
1,1-Dichloropropene	Ave	0.3697	0.3389		0.00917	0.0100	-8.3	50.0
Carbon tetrachloride	Ave	0.3156	0.2291		0.00726	0.0100	-27.4	50.0
Isobutyl alcohol	Ave	0.0055	0.0077		0.348	0.250	39.0	50.0
Benzene	Ave	1.088	1.159		0.0107	0.0100	6.5	50.0
1,2-Dichloroethane	Ave	0.3993	0.4210		0.0105	0.0100	5.4	50.0
n-Heptane	Ave	0.0437	0.0304		0.00696	0.0100	-30.4	50.0
Trichloroethene	Ave	0.2928	0.2306		0.00788	0.0100	-21.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461048/2 Calibration Date: 11/15/2020 07:53

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3779.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2981	0.2472		0.00829	0.0100	-17.1	50.0
1,2-Dichloropropane	Ave	0.2508	0.2754		0.0110	0.0100	9.8	20.0
Dibromomethane	Ave	0.1527	0.1472		0.00964	0.0100	-3.6	50.0
1,4-Dioxane	Ave	0.0015	0.0014		0.180	0.200	-9.9	50.0
Dichlorobromomethane	Ave	0.2974	0.2843		0.00956	0.0100	-4.4	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1465		0.0199	0.0200	-0.4	50.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3314		0.00914	0.0100	-8.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2138	0.2422		0.0227	0.0200	13.3	50.0
Toluene	Ave	1.444	1.701		0.0118	0.0100	17.8	20.0
trans-1,3-Dichloropropene	Ave	0.4061	0.4249		0.0105	0.0100	4.6	50.0
Ethyl methacrylate	Ave	0.3350	0.3913		0.0117	0.0100	16.8	50.0
1,1,2-Trichloroethane	Ave	0.2571	0.3390		0.0132	0.0100	31.9	50.0
Tetrachloroethene	Ave	0.2653	0.2396		0.00903	0.0100	-9.7	50.0
1,3-Dichloropropane	Ave	0.4791	0.6308		0.0132	0.0100	31.7	50.0
2-Hexanone	Ave	0.1792	0.2397		0.0268	0.0200	33.8	50.0
Chlorodibromomethane	Lin1		0.2415		0.00846	0.0100	-15.4	50.0
Ethylene Dibromide	Ave	0.2655	0.3001		0.0113	0.0100	13.0	50.0
Chlorobenzene	Ave	0.9216	0.9768	0.3000	0.0106	0.0100	6.0	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2973	0.2950		0.00992	0.0100	-0.8	50.0
Ethylbenzene	Ave	0.4739	0.5038		0.0106	0.0100	6.3	20.0
m-Xylene & p-Xylene	Ave	1.171	1.313		0.0112	0.0100	12.1	50.0
o-Xylene	Ave	0.5879	0.5854		0.00996	0.0100	-0.4	50.0
Styrene	Ave	0.9791	1.061		0.0108	0.0100	8.4	50.0
Bromoform	Qua		0.1176	0.1000	0.00774	0.0100	-22.6	50.0
Isopropylbenzene	Ave	1.403	1.322		0.00942	0.0100	-5.8	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.8771	0.3000	0.0151	0.0100	50.5*	50.0
Bromobenzene	Ave	0.6639	0.7048		0.0106	0.0100	6.2	50.0
1,2,3-Trichloropropane	Ave	0.2016	0.2762		0.0137	0.0100	37.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1777	0.2411		0.0136	0.0100	35.7	50.0
N-Propylbenzene	Ave	0.6406	0.7124		0.0111	0.0100	11.2	50.0
2-Chlorotoluene	Ave	0.6106	0.6766		0.0111	0.0100	10.8	50.0
1,3,5-Trimethylbenzene	Ave	1.964	2.252		0.0115	0.0100	14.6	50.0
4-Chlorotoluene	Ave	2.074	2.757		0.0133	0.0100	32.9	50.0
tert-Butylbenzene	Ave	1.613	1.549		0.00960	0.0100	-4.0	50.0
1,2,4-Trimethylbenzene	Ave	2.051	2.411		0.0118	0.0100	17.5	50.0
sec-Butylbenzene	Ave	2.088	2.207		0.0106	0.0100	5.7	50.0
1,3-Dichlorobenzene	Ave	1.225	1.314		0.0107	0.0100	7.2	50.0
4-Isopropyltoluene	Ave	1.923	1.912		0.00994	0.0100	-0.6	50.0
1,4-Dichlorobenzene	Ave	1.325	1.422		0.0107	0.0100	7.3	50.0
n-Butylbenzene	Ave	1.513	1.499		0.00991	0.0100	-0.9	50.0
1,2-Dichlorobenzene	Ave	1.260	1.332		0.0106	0.0100	5.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461048/2 Calibration Date: 11/15/2020 07:53

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3779.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0988	0.0791		0.00801	0.0100	-19.9	50.0
1,2,4-Trichlorobenzene	Ave	0.6764	0.4418		0.00653	0.0100	-34.7	50.0
Hexachlorobutadiene	Qua		0.1455		0.00479	0.0100	-52.1*	50.0
Naphthalene	Ave	1.737	1.360		0.00783	0.0100	-21.7	50.0
1,2,3-Trichlorobenzene	Ave	0.6135	0.4542		0.00740	0.0100	-26.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2378	0.1887		0.00794	0.0100	-20.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3036		0.00925	0.0100	-7.5	50.0
Toluene-d8 (Surr)	Ave	1.242	1.282		0.0103	0.0100	3.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4513		0.0104	0.0100	3.7	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3779.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Nov-2020 07:53:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-002
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:08 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	2338180	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	89	1568080	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	795428	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.491	4.491	0.000	92	441197	10.0	7.94	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	709901	10.0	9.25	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	2010884	10.0	10.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	707707	10.0	10.4	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	568707	10.0	8.87	
10 Chloromethane	50	1.598	1.598	0.000	99	827389	10.0	10.8	
11 Vinyl chloride	62	1.693	1.693	0.000	98	673543	10.0	8.87	
12 Butadiene	54	1.704	1.704	0.000	96	765438	10.0	8.84	
13 Bromomethane	94	1.965	1.965	0.000	92	390101	10.0	6.11	
14 Chloroethane	64	2.037	2.037	0.000	99	370686	10.0	6.23	
15 Dichlorofluoromethane	67	2.191	2.191	0.000	97	1090312	10.0	7.58	
16 Trichlorofluoromethane	101	2.238	2.238	0.000	99	721467	10.0	5.75	
17 Ethyl ether	59	2.452	2.452	0.000	94	713949	10.0	11.1	
18 Acrolein	56	2.570	2.570	0.000	99	135295	50.0	26.8	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	575442	10.0	8.18	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.665	0.000	95	393995	10.0	7.43	
21 Acetone	58	2.689	2.689	0.000	99	129231	20.0	19.1	
22 Iodomethane	142	2.784	2.784	0.000	99	798985	10.0	6.41	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1335380	10.0	6.86	
26 3-Chloro-1-propene	76	2.950	2.950	0.000	86	366855	10.0	9.64	
27 Methyl acetate	43	2.961	2.961	0.000	99	1139135	20.0	27.0	
28 Methylene Chloride	84	3.056	3.056	0.000	98	660214	10.0	10.7	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	87	243791	100.0	74.9	
30 Acrylonitrile	53	3.258	3.258	0.000	99	2504369	100.0	123.6	
31 Methyl tert-butyl ether	73	3.270	3.270	0.000	96	1503469	10.0	9.22	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	585079	10.0	9.10	
34 Hexane	86	3.483	3.483	0.000	94	99467	10.0	8.99	
35 1,1-Dichloroethane	63	3.626	3.626	0.000	97	1111360	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.649	3.649	0.000	98	952563	10.0	9.13	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	130532	20.0	19.6	
41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	86	618866	10.0	9.25	
42 2,2-Dichloropropane	97	4.100	4.100	0.000	65	128530	10.0	7.72	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	279371	10.0	8.51	
47 Tetrahydrofuran	42	4.337	4.337	0.000	88	354724	20.0	22.6	
48 Chloroform	83	4.349	4.349	0.000	94	1075680	10.0	10.0	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	96	712243	10.0	8.05	
50 Cyclohexane	56	4.562	4.562	0.000	95	838577	10.0	9.89	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	535724	10.0	7.26	
51 1,1-Dichloropropene	75	4.645	4.645	0.000	91	792367	10.0	9.17	
53 Isobutyl alcohol	41	4.717	4.717	0.000	88	449639	250.0	347.6	
55 Benzene	78	4.823	4.823	0.000	97	2709880	10.0	10.7	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	984382	10.0	10.5	
58 n-Heptane	100	5.013	5.013	0.000	90	71193	10.0	6.96	
60 Trichloroethene	130	5.357	5.357	0.000	96	539244	10.0	7.88	
62 Methylcyclohexane	83	5.523	5.523	0.000	94	577969	10.0	8.29	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	93	643863	10.0	11.0	
65 Dibromomethane	93	5.653	5.653	0.000	91	344258	10.0	9.64	
66 1,4-Dioxane	88	5.665	5.665	0.000	30	63695	200.0	180.3	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	664775	10.0	9.56	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	92	685296	20.0	19.9	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	91	774901	10.0	9.14	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1132598	20.0	22.7	
72 Toluene	91	6.460	6.460	0.000	97	2667424	10.0	11.8	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	99	666239	10.0	10.5	
74 Ethyl methacrylate	69	6.721	6.721	0.000	90	613564	10.0	11.7	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	531657	10.0	13.2	
76 Tetrachloroethene	164	6.946	6.946	0.000	89	375641	10.0	9.03	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	96	989203	10.0	13.2	
78 2-Hexanone	43	7.041	7.041	0.000	99	751783	20.0	26.8	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	378761	10.0	8.46	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	470505	10.0	11.3	
84 Chlorobenzene	112	7.740	7.740	0.000	94	1531689	10.0	10.6	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	462612	10.0	9.92	
86 Ethylbenzene	106	7.835	7.835	0.000	99	789998	10.0	10.6	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	2058324	10.0	11.2	
88 o-Xylene	106	8.322	8.322	0.000	98	917968	10.0	9.96	
89 Styrene	104	8.333	8.333	0.000	94	1664246	10.0	10.8	
90 Bromoform	173	8.523	8.523	0.000	94	184476	10.0	7.74	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	2072548	10.0	9.42	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	697646	10.0	15.1	
95 Bromobenzene	156	8.974	8.974	0.000	97	560633	10.0	10.6	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	77	191766	10.0	13.6	
96 1,2,3-Trichloropropane	110	9.009	9.009	0.000	90	219733	10.0	13.7	
98 N-Propylbenzene	120	9.069	9.069	0.000	99	566686	10.0	11.1	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	538196	10.0	11.1	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	93	1790907	10.0	11.5	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2193214	10.0	13.3	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1232125	10.0	9.60	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1917605	10.0	11.8	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1755390	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	9.887	9.887	0.000	96	1045089	10.0	10.7	
109 4-Isopropyltoluene	119	9.911	9.911	0.000	97	1520594	10.0	9.94	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	91	1130822	10.0	10.7	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1192334	10.0	9.91	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	94	1059410	10.0	10.6	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	82	62919	10.0	8.01	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	93	351416	10.0	6.53	
118 Hexachlorobutadiene	225	12.104	12.104	0.000	93	115764	10.0	4.79	
119 Naphthalene	128	12.187	12.187	0.000	98	1081650	10.0	7.83	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	94	361297	10.0	7.40	
S 129 Xylenes, Total	106				0		20.0	21.2	
S 130 Total BTEX	1				0		50.0	54.2	
S 131 Trihalomethanes, Total	1				0		40.0	35.8	

Reagents:

VMAROLISTDW_00368	Amount Added:	8.00	Units: uL	
VMRGAS_00362	Amount Added:	8.00	Units: uL	
VMRPRIMW_00411	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

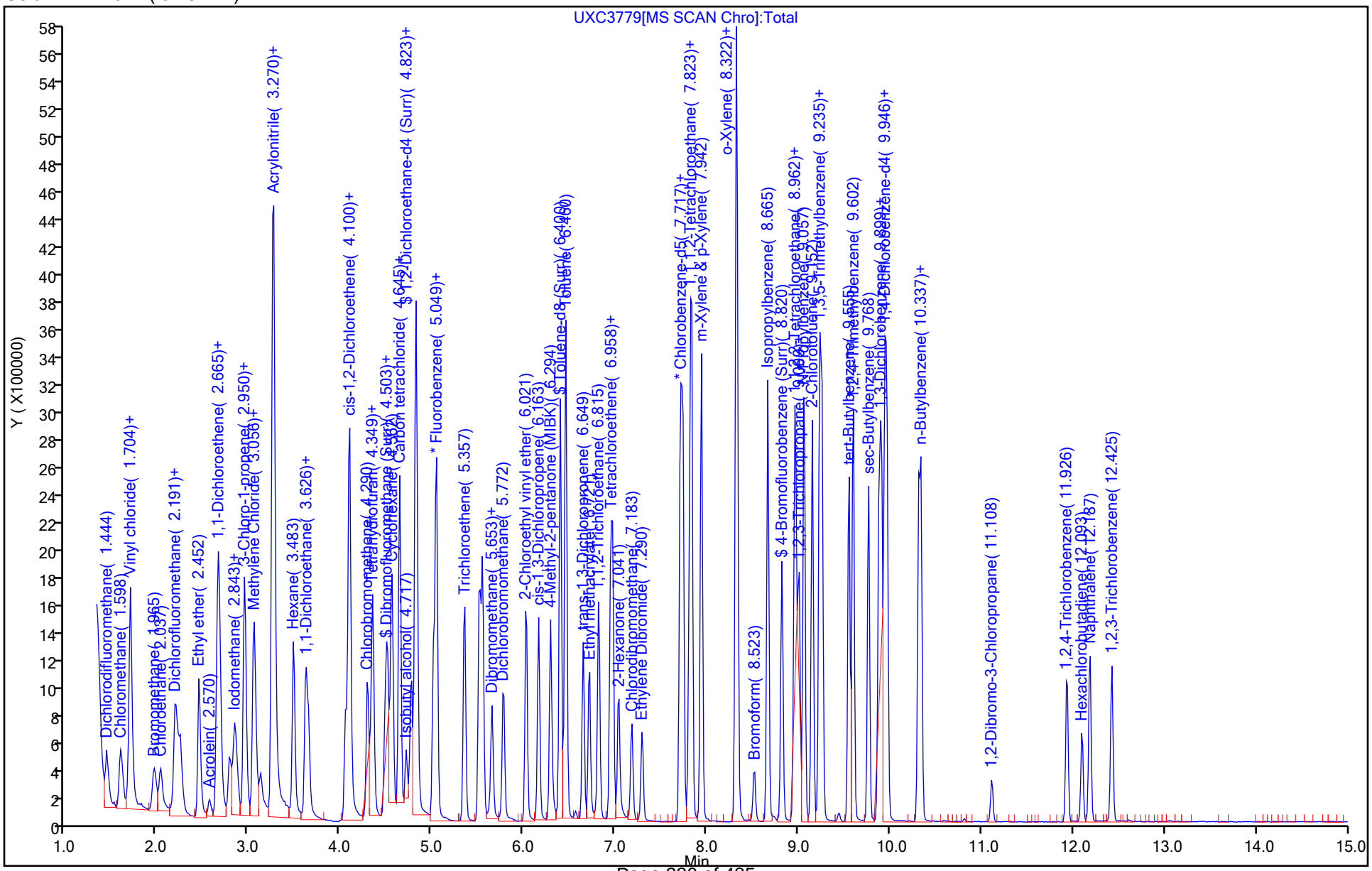
Report Date: 16-Nov-2020 07:51:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3779.D

Injection Date:	15-Nov-2020 07:53:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461088/2 Calibration Date: 11/16/2020 09:58

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2742	0.2821		0.0103	0.0100	2.9	50.0
Chloromethane	Ave	0.3275	0.3700	0.1000	0.0113	0.0100	13.0	50.0
Vinyl chloride	Ave	0.3246	0.3067		0.00945	0.0100	-5.5	20.0
Butadiene	Ave	0.3702	0.3753		0.0101	0.0100	1.4	50.0
Bromomethane	Ave	0.2730	0.1682		0.00616	0.0100	-38.4	50.0
Chloroethane	Ave	0.2543	0.1529		0.00601	0.0100	-39.9	50.0
Dichlorofluoromethane	Ave	0.6149	0.4830		0.00785	0.0100	-21.5	50.0
Trichlorofluoromethane	Ave	0.5362	0.3592		0.00670	0.0100	-33.0	50.0
Ethyl ether	Ave	0.2742	0.3090		0.0113	0.0100	12.7	50.0
Acrolein	Ave	0.0216	0.0132		0.0307	0.0500	-38.7	50.0
1,1-Dichloroethene	Ave	0.3008	0.2629		0.00874	0.0100	-12.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2269	0.1884		0.00830	0.0100	-17.0	50.0
Acetone	Lin1		0.0293		0.0204	0.0200	2.1	50.0
Iodomethane	Ave	0.5331	0.2906		0.00545	0.0100	-45.5	50.0
Carbon disulfide	Ave	0.8326	0.5407		0.00649	0.0100	-35.1	50.0
3-Chloro-1-propene	Ave	0.1627	0.1567		0.00963	0.0100	-3.7	50.0
Methyl acetate	Ave	0.1806	0.2474		0.0274	0.0200	36.9	50.0
Methylene Chloride	Ave	0.2637	0.2817		0.0107	0.0100	6.8	50.0
2-Methyl-2-propanol	Ave	0.0139	0.0097		0.0696	0.100	-30.4	50.0
Acrylonitrile	Ave	0.0866	0.1132		0.131	0.100	30.6	50.0
Methyl tert-butyl ether	Ave	0.6972	0.6608		0.00948	0.0100	-5.2	50.0
trans-1,2-Dichloroethene	Ave	0.2750	0.2660		0.00967	0.0100	-3.3	50.0
Hexane	Ave	0.0473	0.0500		0.0106	0.0100	5.7	20.0
1,1-Dichloroethane	Ave	0.4575	0.5045	0.1000	0.0110	0.0100	10.3	50.0
Vinyl acetate	Ave	0.4462	0.4371		0.00980	0.0100	-2.0	50.0
2,2-Dichloropropane	Ave	0.0712	0.0628		0.00882	0.0100	-11.8	50.0
cis-1,2-Dichloroethene	Ave	0.2862	0.2869		0.0100	0.0100	0.2	50.0
2-Butanone (MEK)	Ave	0.0285	0.0328		0.0230	0.0200	15.1	50.0
Chlorobromomethane	Ave	0.1404	0.1239		0.00882	0.0100	-11.8	50.0
Tetrahydrofuran	Ave	0.0672	0.0795		0.0237	0.0200	18.3	50.0
Chloroform	Ave	0.4591	0.4775		0.0104	0.0100	4.0	20.0
1,1,1-Trichloroethane	Ave	0.3785	0.3388		0.00895	0.0100	-10.5	50.0
Cyclohexane	Ave	0.3628	0.4359		0.0120	0.0100	20.2	50.0
1,1-Dichloropropene	Ave	0.3697	0.3834		0.0104	0.0100	3.7	50.0
Carbon tetrachloride	Ave	0.3156	0.2618		0.00829	0.0100	-17.1	50.0
Isobutyl alcohol	Ave	0.0055	0.0073		0.331	0.250	32.4	50.0
Benzene	Ave	1.088	1.216		0.0112	0.0100	11.8	50.0
1,2-Dichloroethane	Ave	0.3993	0.4475		0.0112	0.0100	12.1	50.0
n-Heptane	Ave	0.0437	0.0437		0.00999	0.0100	-0.1	50.0
Trichloroethene	Ave	0.2928	0.2456		0.00839	0.0100	-16.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461088/2 Calibration Date: 11/16/2020 09:58

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2981	0.3036		0.0102	0.0100	1.9	50.0
1,2-Dichloropropane	Ave	0.2508	0.2979		0.0119	0.0100	18.7	20.0
1,4-Dioxane	Ave	0.0015	0.0014		0.180	0.200	-10.1	50.0
Dibromomethane	Ave	0.1527	0.1518		0.00994	0.0100	-0.6	50.0
Dichlorobromomethane	Ave	0.2974	0.2835		0.00953	0.0100	-4.7	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1601		0.0218	0.0200	8.9	50.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3498		0.00965	0.0100	-3.5	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2138	0.2542		0.0238	0.0200	18.9	50.0
Toluene	Ave	1.444	1.781		0.0123	0.0100	23.3*	20.0
trans-1,3-Dichloropropene	Ave	0.4061	0.4433		0.0109	0.0100	9.2	50.0
Ethyl methacrylate	Ave	0.3350	0.4165		0.0124	0.0100	24.3	50.0
1,1,2-Trichloroethane	Ave	0.2571	0.3357		0.0131	0.0100	30.6	50.0
Tetrachloroethene	Ave	0.2653	0.2420		0.00912	0.0100	-8.8	50.0
1,3-Dichloropropane	Ave	0.4791	0.6622		0.0138	0.0100	38.2	50.0
2-Hexanone	Ave	0.1792	0.2657		0.0297	0.0200	48.3	50.0
Chlorodibromomethane	Lin1		0.2348		0.00824	0.0100	-17.6	50.0
Ethylene Dibromide	Ave	0.2655	0.3063		0.0115	0.0100	15.4	50.0
Chlorobenzene	Ave	0.9216	1.003	0.3000	0.0109	0.0100	8.8	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2973	0.2980		0.0100	0.0100	0.3	50.0
Ethylbenzene	Ave	0.4739	0.5197		0.0110	0.0100	9.7	20.0
m-Xylene & p-Xylene	Ave	1.171	1.383		0.0118	0.0100	18.1	50.0
o-Xylene	Ave	0.5879	0.6158		0.0105	0.0100	4.7	50.0
Styrene	Ave	0.9791	1.065		0.0109	0.0100	8.8	50.0
Bromoform	Qua		0.1106	0.1000	0.00734	0.0100	-26.6	50.0
Isopropylbenzene	Ave	1.403	1.426		0.0102	0.0100	1.6	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.9258	0.3000	0.0159	0.0100	58.9*	50.0
Bromobenzene	Ave	0.6639	0.7207		0.0109	0.0100	8.6	50.0
1,2,3-Trichloropropane	Ave	0.2016	0.2792		0.0139	0.0100	38.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1777	0.2415		0.0136	0.0100	35.9	50.0
N-Propylbenzene	Ave	0.6406	0.7681		0.0120	0.0100	19.9	50.0
2-Chlorotoluene	Ave	0.6106	0.7244		0.0119	0.0100	18.6	50.0
1,3,5-Trimethylbenzene	Ave	1.964	2.412		0.0123	0.0100	22.8	50.0
4-Chlorotoluene	Ave	2.074	2.884		0.0139	0.0100	39.0	50.0
tert-Butylbenzene	Ave	1.613	1.733		0.0107	0.0100	7.5	50.0
1,2,4-Trimethylbenzene	Ave	2.051	2.534		0.0124	0.0100	23.6	50.0
sec-Butylbenzene	Ave	2.088	2.525		0.0121	0.0100	20.9	50.0
1,3-Dichlorobenzene	Ave	1.225	1.352		0.0110	0.0100	10.3	50.0
4-Isopropyltoluene	Ave	1.923	2.144		0.0112	0.0100	11.5	50.0
1,4-Dichlorobenzene	Ave	1.325	1.444		0.0109	0.0100	9.0	50.0
n-Butylbenzene	Ave	1.513	1.785		0.0118	0.0100	18.0	50.0
1,2-Dichlorobenzene	Ave	1.260	1.384		0.0110	0.0100	9.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461088/2 Calibration Date: 11/16/2020 09:58

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3812.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0988	0.0793		0.00803	0.0100	-19.7	50.0
1,2,4-Trichlorobenzene	Ave	0.6764	0.4857		0.00718	0.0100	-28.2	50.0
Hexachlorobutadiene	Qua		0.1708		0.00575	0.0100	-42.5	50.0
Naphthalene	Ave	1.737	1.520		0.00875	0.0100	-12.5	50.0
1,2,3-Trichlorobenzene	Ave	0.6135	0.5009		0.00816	0.0100	-18.4	50.0
Dibromofluoromethane (Surr)	Ave	0.2378	0.1884		0.00792	0.0100	-20.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.2978		0.00908	0.0100	-9.2	50.0
Toluene-d8 (Surr)	Ave	1.242	1.267		0.0102	0.0100	2.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4547		0.0104	0.0100	4.5	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3812.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Nov-2020 09:58:30 ALS Bottle#: 3 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-002
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:56:13 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	98	2410345	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	89	1640178	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	96	818096	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	91	454172	10.0	7.92	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	717812	10.0	9.08	
$ 6 Toluene-d8 (Surr)	98	6.401	6.401	0.000	95	2078277	10.0	10.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	745711	10.0	10.4	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	98	679861	10.0	10.3	
10 Chloromethane	50	1.598	1.598	0.000	99	891864	10.0	11.3	
11 Vinyl chloride	62	1.693	1.693	0.000	99	739213	10.0	9.45	
12 Butadiene	54	1.705	1.705	0.000	96	904539	10.0	10.1	
13 Bromomethane	94	1.954	1.954	0.000	90	405325	10.0	6.16	
14 Chloroethane	64	2.025	2.025	0.000	100	368455	10.0	6.01	
15 Dichlorofluoromethane	67	2.191	2.191	0.000	98	1164131	10.0	7.85	
16 Trichlorofluoromethane	101	2.238	2.238	0.000	97	865686	10.0	6.70	
17 Ethyl ether	59	2.452	2.452	0.000	93	744780	10.0	11.3	
18 Acrolein	56	2.558	2.558	0.000	97	159685	50.0	30.7	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	633680	10.0	8.74	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.665	0.000	95	454118	10.0	8.30	
21 Acetone	58	2.689	2.689	0.000	99	141108	20.0	20.4	
22 Iodomethane	142	2.784	2.784	0.000	98	700377	10.0	5.45	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1303277	10.0	6.49	
26 3-Chloro-1-propene	76	2.950	2.950	0.000	86	377785	10.0	9.63	
27 Methyl acetate	43	2.950	2.950	0.000	98	1192434	20.0	27.4	
28 Methylene Chloride	84	3.045	3.045	0.000	98	679029	10.0	10.7	
29 2-Methyl-2-propanol	59	3.128	3.128	0.000	87	233430	100.0	69.6	
30 Acrylonitrile	53	3.246	3.246	0.000	100	2727365	100.0	130.6	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	95	1592876	10.0	9.48	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	641040	10.0	9.67	
34 Hexane	86	3.483	3.483	0.000	95	120571	10.0	10.6	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	98	1215998	10.0	11.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.649	3.649	0.000	98	1053670	10.0	9.80	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	73	151377	10.0	8.82	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	85	691452	10.0	10.0	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	158055	20.0	23.0	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	298605	10.0	8.82	
47 Tetrahydrofuran	42	4.337	4.337	0.000	90	383286	20.0	23.7	
48 Chloroform	83	4.349	4.349	0.000	97	1150939	10.0	10.4	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	95	816566	10.0	8.95	
50 Cyclohexane	56	4.551	4.551	0.000	95	1050735	10.0	12.0	
51 1,1-Dichloropropene	75	4.645	4.645	0.000	90	924169	10.0	10.4	
52 Carbon tetrachloride	117	4.645	4.645	0.000	72	631016	10.0	8.29	
53 Isobutyl alcohol	41	4.717	4.717	0.000	90	441532	250.0	331.1	
55 Benzene	78	4.823	4.823	0.000	97	2931080	10.0	11.2	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	97	1078696	10.0	11.2	
58 n-Heptane	100	5.013	5.013	0.000	91	105290	10.0	9.99	
60 Trichloroethene	130	5.357	5.357	0.000	95	591970	10.0	8.39	
62 Methylcyclohexane	83	5.511	5.511	0.000	95	731801	10.0	10.2	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	95	717956	10.0	11.9	
66 1,4-Dioxane	88	5.653	5.653	0.000	30	65473	200.0	179.8	
65 Dibromomethane	93	5.653	5.653	0.000	90	365777	10.0	9.94	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	683387	10.0	9.53	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	771938	20.0	21.8	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	843044	10.0	9.65	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1225203	20.0	23.8	
72 Toluene	91	6.460	6.460	0.000	97	2920498	10.0	12.3	
73 trans-1,3-Dichloropropene	75	6.650	6.650	0.000	99	727098	10.0	10.9	
74 Ethyl methacrylate	69	6.721	6.721	0.000	91	683159	10.0	12.4	
75 1,1,2-Trichloroethane	97	6.816	6.816	0.000	95	550666	10.0	13.1	
76 Tetrachloroethene	164	6.946	6.946	0.000	90	396903	10.0	9.12	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	97	1086175	10.0	13.8	
78 2-Hexanone	43	7.029	7.029	0.000	99	871565	20.0	29.7	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	385058	10.0	8.24	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	502386	10.0	11.5	
84 Chlorobenzene	112	7.741	7.741	0.000	90	1644826	10.0	10.9	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	89	488801	10.0	10.0	
86 Ethylbenzene	106	7.835	7.835	0.000	100	852376	10.0	11.0	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	2267710	10.0	11.8	
88 o-Xylene	106	8.322	8.322	0.000	95	1010042	10.0	10.5	
89 Styrene	104	8.333	8.333	0.000	94	1747355	10.0	10.9	
90 Bromoform	173	8.523	8.523	0.000	93	181447	10.0	7.34	
91 Isopropylbenzene	105	8.666	8.666	0.000	96	2339384	10.0	10.2	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	757390	10.0	15.9	
95 Bromobenzene	156	8.974	8.974	0.000	97	589636	10.0	10.9	
96 1,2,3-Trichloropropane	110	8.998	8.998	0.000	90	228438	10.0	13.9	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	74	197581	10.0	13.6	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	628395	10.0	12.0	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	592667	10.0	11.9	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	93	1973069	10.0	12.3	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2359378	10.0	13.9	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1418087	10.0	10.7	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	2073238	10.0	12.4	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	2066062	10.0	12.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	9.887	9.887	0.000	96	1105843	10.0	11.0	
109 4-Isopropyltoluene	119	9.911	9.911	0.000	97	1753986	10.0	11.2	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	91	1181446	10.0	10.9	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1460254	10.0	11.8	
114 1,2-Dichlorobenzene	146	10.338	10.338	0.000	95	1132269	10.0	11.0	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	66	64907	10.0	8.03	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	92	397348	10.0	7.18	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	90	139718	10.0	5.75	
119 Naphthalene	128	12.187	12.187	0.000	97	1243314	10.0	8.75	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	94	409769	10.0	8.16	
S 129 Xylenes, Total	106				0		20.0	22.3	
S 130 Total BTEX	1				0		50.0	56.8	
S 131 Trihalomethanes, Total	1				0		40.0	35.5	

Reagents:

VMAROLISTDW_00368	Amount Added:	8.00	Units: uL	
VMRGAS_00362	Amount Added:	8.00	Units: uL	
VMRPRIMW_00411	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

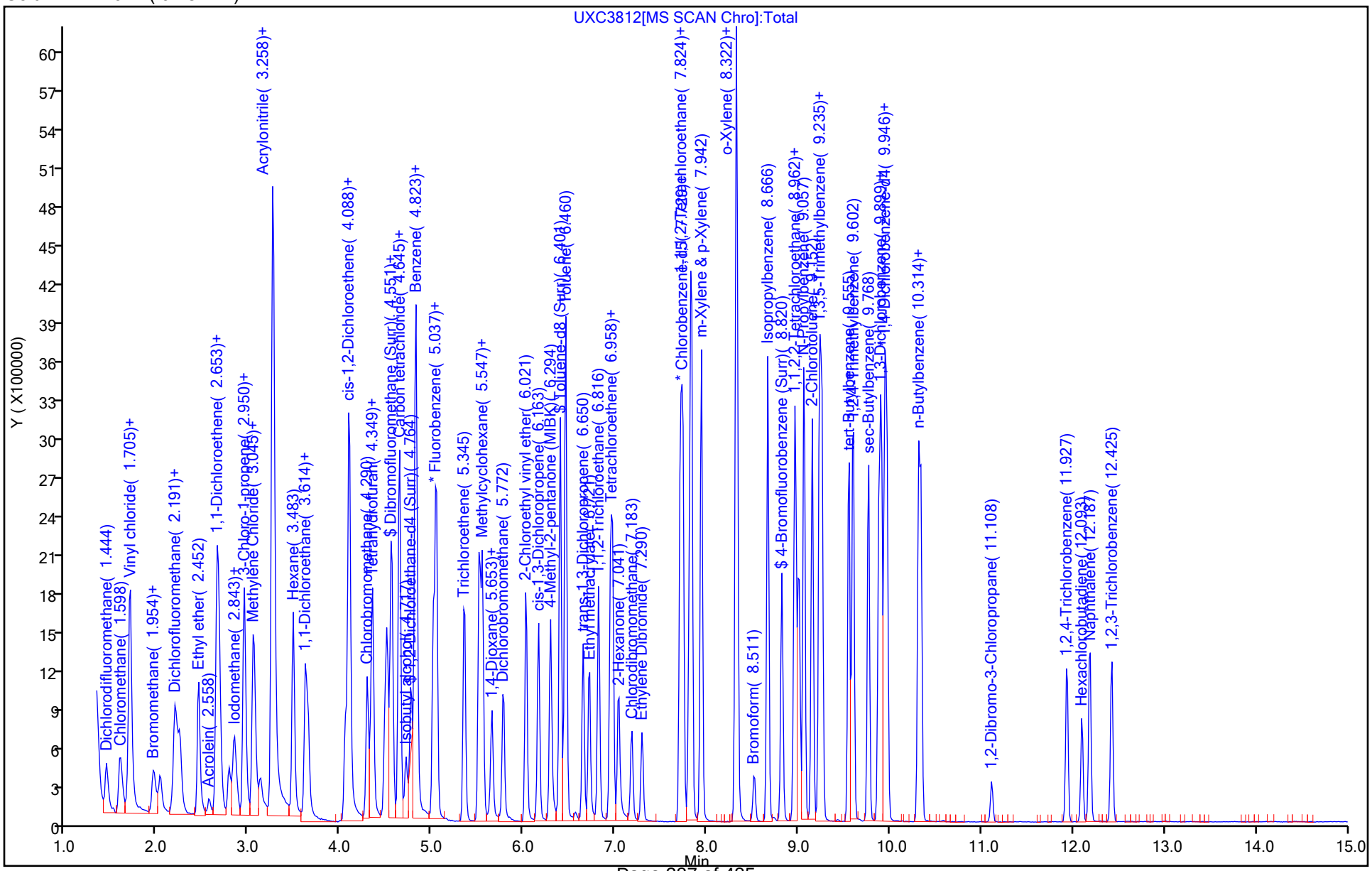
Report Date: 17-Nov-2020 08:56:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3812.D

Injection Date:	16-Nov-2020 09:58:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461535/2 Calibration Date: 11/18/2020 09:57

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3872A.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2742	0.2985		0.0109	0.0100	8.8	50.0
Chloromethane	Ave	0.3275	0.3921	0.1000	0.0120	0.0100	19.7	50.0
Butadiene	Ave	0.3702	0.3931		0.0106	0.0100	6.2	50.0
Vinyl chloride	Ave	0.3246	0.3046		0.00938	0.0100	-6.2	20.0
Bromomethane	Ave	0.2730	0.2317		0.00849	0.0100	-15.1	50.0
Chloroethane	Ave	0.2543	0.2625		0.0103	0.0100	3.2	50.0
Dichlorofluoromethane	Ave	0.6149	0.5750		0.00935	0.0100	-6.5	50.0
Trichlorofluoromethane	Ave	0.5362	0.2667		0.00497	0.0100	-50.3*	50.0
Ethyl ether	Ave	0.2742	0.2706		0.00987	0.0100	-1.3	50.0
Acrolein	Ave	0.0216	0.0129		0.0300	0.0500	-40.1	50.0
1,1-Dichloroethene	Ave	0.3008	0.2323		0.00772	0.0100	-22.8*	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2269	0.1355		0.00597	0.0100	-40.3	50.0
Acetone	Lin1		0.0332		0.0235	0.0200	17.5	50.0
Iodomethane	Ave	0.5331	0.3449		0.00647	0.0100	-35.3	50.0
Carbon disulfide	Ave	0.8326	0.5608		0.00674	0.0100	-32.6	50.0
3-Chloro-1-propene	Ave	0.1627	0.1703		0.0105	0.0100	4.7	50.0
Methyl acetate	Ave	0.1806	0.2683		0.0297	0.0200	48.5	50.0
Methylene Chloride	Ave	0.2637	0.3088		0.0117	0.0100	17.1	50.0
2-Methyl-2-propanol	Ave	0.0139	0.0175		0.126	0.100	25.7	50.0
Acrylonitrile	Ave	0.0866	0.1196		0.138	0.100	38.1	50.0
Methyl tert-butyl ether	Ave	0.6972	0.7121		0.0102	0.0100	2.1	50.0
trans-1,2-Dichloroethene	Ave	0.2750	0.2779		0.0101	0.0100	1.1	50.0
Hexane	Ave	0.0473	0.0442		0.00935	0.0100	-6.5	20.0
1,1-Dichloroethane	Ave	0.4575	0.5271	0.1000	0.0115	0.0100	15.2	50.0
Vinyl acetate	Ave	0.4462	0.3494		0.00783	0.0100	-21.7	50.0
2,2-Dichloropropane	Ave	0.0712	0.0483		0.00678	0.0100	-32.2	50.0
cis-1,2-Dichloroethene	Ave	0.2862	0.2970		0.0104	0.0100	3.8	50.0
2-Butanone (MEK)	Ave	0.0285	0.0296		0.0208	0.0200	3.9	50.0
Chlorobromomethane	Ave	0.1404	0.1249		0.00890	0.0100	-11.0	50.0
Tetrahydrofuran	Ave	0.0672	0.0769		0.0229	0.0200	14.4	50.0
Chloroform	Ave	0.4591	0.4990		0.0109	0.0100	8.7	20.0
1,1,1-Trichloroethane	Ave	0.3785	0.2890		0.00764	0.0100	-23.6	50.0
Cyclohexane	Ave	0.3628	0.3930		0.0108	0.0100	8.3	50.0
1,1-Dichloropropene	Ave	0.3697	0.3568		0.00965	0.0100	-3.5	50.0
Carbon tetrachloride	Ave	0.3156	0.2062		0.00653	0.0100	-34.7	50.0
Isobutyl alcohol	Ave	0.0055	0.0087		0.393	0.250	57.2*	50.0
Benzene	Ave	1.088	1.179		0.0108	0.0100	8.4	50.0
1,2-Dichloroethane	Ave	0.3993	0.4273		0.0107	0.0100	7.0	50.0
n-Heptane	Ave	0.0437	0.0299		0.00683	0.0100	-31.7	50.0
Trichloroethene	Ave	0.2928	0.2445		0.00835	0.0100	-16.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461535/2 Calibration Date: 11/18/2020 09:57

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3872A.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2981	0.2663		0.00893	0.0100	-10.7	50.0
1,2-Dichloropropane	Ave	0.2508	0.2737		0.0109	0.0100	9.1	20.0
Dibromomethane	Ave	0.1527	0.1457		0.00954	0.0100	-4.6	50.0
1,4-Dioxane	Ave	0.0015	0.0015		0.194	0.200	-3.1	50.0
Dichlorobromomethane	Ave	0.2974	0.2699		0.00908	0.0100	-9.2	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1261		0.0172	0.0200	-14.2	50.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3129		0.00863	0.0100	-13.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2138	0.2204		0.0206	0.0200	3.1	50.0
Toluene	Ave	1.444	1.747		0.0121	0.0100	20.9*	20.0
trans-1,3-Dichloropropene	Ave	0.4061	0.4218		0.0104	0.0100	3.9	50.0
Ethyl methacrylate	Ave	0.3350	0.3515		0.0105	0.0100	4.9	50.0
1,1,2-Trichloroethane	Ave	0.2571	0.3232		0.0126	0.0100	25.7	50.0
Tetrachloroethene	Ave	0.2653	0.2399		0.00904	0.0100	-9.6	50.0
1,3-Dichloropropane	Ave	0.4791	0.6096		0.0127	0.0100	27.2	50.0
2-Hexanone	Ave	0.1792	0.2223		0.0248	0.0200	24.1	50.0
Chlorodibromomethane	Lin1		0.2260		0.00795	0.0100	-20.5	50.0
Ethylene Dibromide	Ave	0.2655	0.2954		0.0111	0.0100	11.3	50.0
Chlorobenzene	Ave	0.9216	1.012	0.3000	0.0110	0.0100	9.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2973	0.3160		0.0106	0.0100	6.3	50.0
Ethylbenzene	Ave	0.4739	0.5074		0.0107	0.0100	7.1	20.0
m-Xylene & p-Xylene	Ave	1.171	1.346		0.0115	0.0100	15.0	50.0
o-Xylene	Ave	0.5879	0.6313		0.0107	0.0100	7.4	50.0
Styrene	Ave	0.9791	1.045		0.0107	0.0100	6.7	50.0
Bromoform	Qua		0.1029	0.1000	0.00690	0.0100	-31.0	50.0
Isopropylbenzene	Ave	1.403	1.458		0.0104	0.0100	3.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.9055	0.3000	0.0155	0.0100	55.4*	50.0
Bromobenzene	Ave	0.6639	0.6945		0.0105	0.0100	4.6	50.0
1,2,3-Trichloropropane	Ave	0.2016	0.2649		0.0131	0.0100	31.4	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1777	0.2286		0.0129	0.0100	28.6	50.0
N-Propylbenzene	Ave	0.6406	0.7250		0.0113	0.0100	13.2	50.0
2-Chlorotoluene	Ave	0.6106	0.7151		0.0117	0.0100	17.1	50.0
1,3,5-Trimethylbenzene	Ave	1.964	2.403		0.0122	0.0100	22.3	50.0
4-Chlorotoluene	Ave	2.074	2.807		0.0135	0.0100	35.3	50.0
tert-Butylbenzene	Ave	1.613	1.657		0.0103	0.0100	2.7	50.0
1,2,4-Trimethylbenzene	Ave	2.051	2.583		0.0126	0.0100	25.9	50.0
sec-Butylbenzene	Ave	2.088	2.353		0.0113	0.0100	12.7	50.0
1,3-Dichlorobenzene	Ave	1.225	1.362		0.0111	0.0100	11.2	50.0
4-Isopropyltoluene	Ave	1.923	2.058		0.0107	0.0100	7.0	50.0
1,4-Dichlorobenzene	Ave	1.325	1.447		0.0109	0.0100	9.3	50.0
n-Butylbenzene	Ave	1.513	1.710		0.0113	0.0100	13.1	50.0
1,2-Dichlorobenzene	Ave	1.260	1.456		0.0116	0.0100	15.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Lab Sample ID: CCVIS 240-461535/2 Calibration Date: 11/18/2020 09:57

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3872A.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0988	0.0817		0.00826	0.0100	-17.4	50.0
1,2,4-Trichlorobenzene	Ave	0.6764	0.4711		0.00696	0.0100	-30.4	50.0
Hexachlorobutadiene	Qua		0.1520		0.00503	0.0100	-49.7	50.0
Naphthalene	Ave	1.737	1.437		0.00827	0.0100	-17.3	50.0
1,2,3-Trichlorobenzene	Ave	0.6135	0.4490		0.00732	0.0100	-26.8	50.0
Dibromofluoromethane (Surr)	Ave	0.2378	0.1976		0.00831	0.0100	-16.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3201		0.00976	0.0100	-2.4	50.0
Toluene-d8 (Surr)	Ave	1.242	1.328		0.0107	0.0100	6.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4417		0.0102	0.0100	1.5	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3872A.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Nov-2020 09:57:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-002
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:34 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	98	2332883	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.705	0.000	91	1437554	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	750598	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	460966	10.0	8.31	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	746838	10.0	9.76	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1908921	10.0	10.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	634954	10.0	10.2	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	696319	10.0	10.9	
10 Chloromethane	50	1.598	1.598	0.000	99	914817	10.0	12.0	
12 Butadiene	54	1.693	1.693	0.000	94	917172	10.0	10.6	
11 Vinyl chloride	62	1.693	1.693	0.000	63	710483	10.0	9.38	
13 Bromomethane	94	1.942	1.942	0.000	90	540529	10.0	8.49	
14 Chloroethane	64	2.025	2.025	0.000	100	612320	10.0	10.3	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	1341386	10.0	9.35	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	97	622232	10.0	4.97	
17 Ethyl ether	59	2.440	2.440	0.000	93	631165	10.0	9.87	
18 Acrolein	56	2.558	2.558	0.000	97	150954	50.0	30.0	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	94	541907	10.0	7.72	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.653	2.653	0.000	95	316031	10.0	5.97	
21 Acetone	58	2.677	2.677	0.000	98	154800	20.0	23.5	
22 Iodomethane	142	2.784	2.784	0.000	99	804533	10.0	6.47	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1308295	10.0	6.74	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	397291	10.0	10.5	
27 Methyl acetate	43	2.950	2.950	0.000	99	1251742	20.0	29.7	
28 Methylene Chloride	84	3.045	3.045	0.000	97	720295	10.0	11.7	
29 2-Methyl-2-propanol	59	3.116	3.116	0.000	88	407934	100.0	125.7	
30 Acrylonitrile	53	3.246	3.246	0.000	99	2790645	100.0	138.1	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	95	1661335	10.0	10.2	
32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	97	648407	10.0	10.1	
34 Hexane	86	3.471	3.471	0.000	95	103187	10.0	9.35	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	98	1229651	10.0	11.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.637	3.637	0.000	98	815034	10.0	7.83	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	89	692929	10.0	10.4	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	58	112621	10.0	6.78	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	138098	20.0	20.8	
46 Chlorobromomethane	128	4.290	4.290	0.000	94	291459	10.0	8.90	
47 Tetrahydrofuran	42	4.325	4.325	0.000	87	358805	20.0	22.9	
48 Chloroform	83	4.349	4.349	0.000	94	1164030	10.0	10.9	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	95	674155	10.0	7.64	
50 Cyclohexane	56	4.551	4.551	0.000	95	916837	10.0	10.8	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	90	832356	10.0	9.65	
52 Carbon tetrachloride	117	4.645	4.645	0.000	95	481117	10.0	6.53	
53 Isobutyl alcohol	41	4.717	4.717	0.000	90	507177	250.0	392.9	
55 Benzene	78	4.811	4.811	0.000	97	2749687	10.0	10.8	
56 1,2-Dichloroethane	62	4.823	4.823	0.000	98	996935	10.0	10.7	
58 n-Heptane	100	5.013	5.013	0.000	93	69688	10.0	6.83	
60 Trichloroethene	130	5.345	5.345	0.000	95	570502	10.0	8.35	
62 Methylcyclohexane	83	5.511	5.511	0.000	95	621187	10.0	8.93	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	95	638580	10.0	10.9	
65 Dibromomethane	93	5.642	5.642	0.000	92	339968	10.0	9.54	
66 1,4-Dioxane	88	5.653	5.653	0.000	98	68295	200.0	193.8	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	629746	10.0	9.08	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	588549	20.0	17.2	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	729912	10.0	8.63	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1028189	20.0	20.6	
72 Toluene	91	6.460	6.460	0.000	97	2511152	10.0	12.1	
73 trans-1,3-Dichloropropene	75	6.650	6.650	0.000	99	606367	10.0	10.4	
74 Ethyl methacrylate	69	6.709	6.709	0.000	91	505339	10.0	10.5	
75 1,1,2-Trichloroethane	97	6.816	6.816	0.000	95	464645	10.0	12.6	
76 Tetrachloroethene	164	6.946	6.946	0.000	90	344859	10.0	9.04	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	97	876288	10.0	12.7	
78 2-Hexanone	43	7.029	7.029	0.000	98	639070	20.0	24.8	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	324950	10.0	7.95	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	424701	10.0	11.1	
84 Chlorobenzene	112	7.740	7.740	0.000	91	1455407	10.0	11.0	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	92	454200	10.0	10.6	
86 Ethylbenzene	106	7.835	7.835	0.000	99	729442	10.0	10.7	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1935303	10.0	11.5	
88 o-Xylene	106	8.322	8.322	0.000	99	907461	10.0	10.7	
89 Styrene	104	8.333	8.333	0.000	94	1502340	10.0	10.7	
90 Bromoform	173	8.511	8.511	0.000	91	147878	10.0	6.90	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	2096115	10.0	10.4	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	679692	10.0	15.5	
95 Bromobenzene	156	8.974	8.974	0.000	97	521315	10.0	10.5	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	90	198797	10.0	13.1	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	74	171557	10.0	12.9	
98 N-Propylbenzene	120	9.057	9.057	0.000	100	544178	10.0	11.3	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	536733	10.0	11.7	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	93	1803420	10.0	12.2	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2106640	10.0	13.5	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1243545	10.0	10.3	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1938669	10.0	12.6	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1766052	10.0	11.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	95	1022465	10.0	11.1	
109 4-Isopropyltoluene	119	9.911	9.911	0.000	97	1544704	10.0	10.7	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	1086460	10.0	10.9	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1283504	10.0	11.3	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	94	1092774	10.0	11.6	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	87	61287	10.0	8.26	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	93	353612	10.0	6.96	
118 Hexachlorobutadiene	225	12.104	12.104	0.000	92	114054	10.0	5.03	
119 Naphthalene	128	12.187	12.187	0.000	97	1078708	10.0	8.27	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	93	337025	10.0	7.32	
S 129 Xylenes, Total	106				0		20.0	22.2	
S 130 Total BTEX	1				0		50.0	55.9	
S 131 Trihalomethanes, Total	1				0		40.0	34.8	

Reagents:

VMAROLISTDW_00368	Amount Added:	8.00	Units: uL	
VMRGAS_00362	Amount Added:	8.00	Units: uL	
VMRPRIMW_00411	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

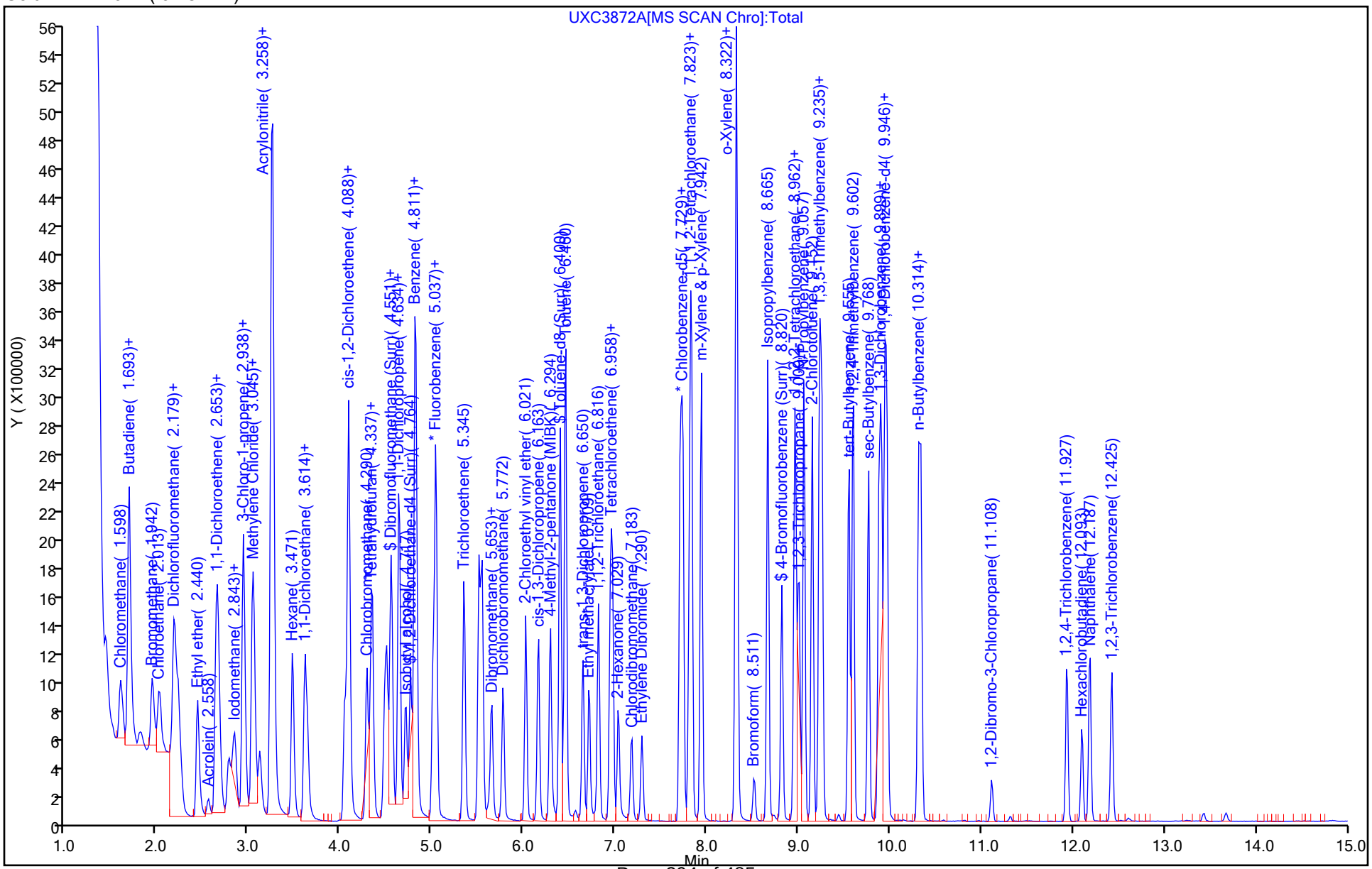
Report Date: 19-Nov-2020 05:38:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3872A.D

Injection Date:	18-Nov-2020 09:57:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Jul-2020 07:58:30 ALS Bottle#: 10 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C200715A-IC,BFBUX15,,43582
Operator ID: Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:15 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.583	3.583	0.000	0	211098	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

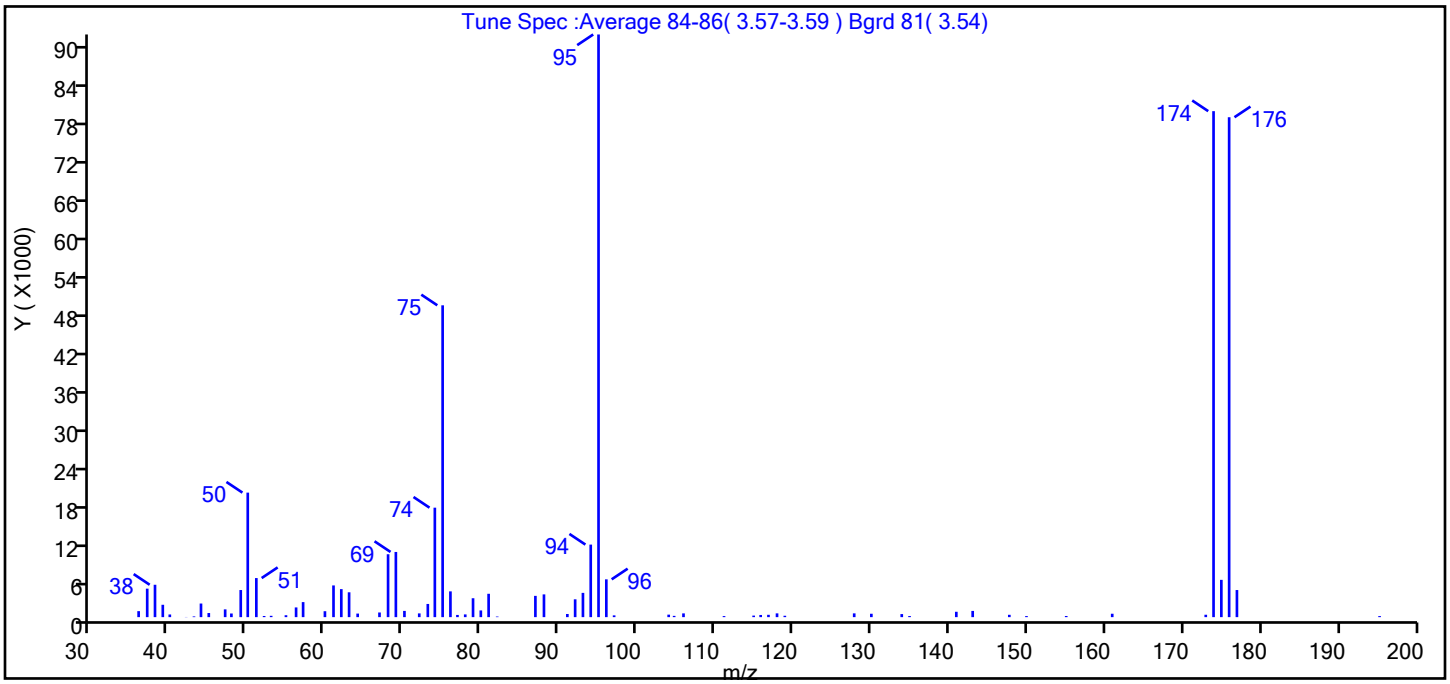
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D
Injection Date: 15-Jul-2020 07:58:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	53.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	86.8
175	5 to 9% of m/z 174	6.4 (7.4)
176	Greater than 95% but less than 101% of m/z 174	85.8 (98.8)
177	5 to 9% of m/z 176	4.7 (5.4)

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D\8260_15.rslt\spectra.d
Injection Date: 15-Jul-2020 07:58:30
Spectrum: Tune Spec :Average 84-86(3.57-3.59) Bgrd 81(3.54)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	948	60.00	936	82.00	96	128.00	596
37.00	4497	61.00	5006	87.00	3358	130.00	536
38.00	5111	62.00	4423	88.00	3592	134.00	484
39.00	1952	63.00	3923	91.00	498	135.00	172
40.00	422	64.00	563	92.00	2815	141.00	848
42.00	26	67.00	735	93.00	3831	143.00	982
43.00	113	68.00	9929	94.00	11452	148.00	371
44.00	2149	69.00	10290	95.00	91976	150.00	169
45.00	649	70.00	984	96.00	5968	155.00	181
47.00	1229	72.00	591	97.00	280	161.00	538
48.00	577	73.00	2083	104.00	394	173.00	379
49.00	4280	74.00	17280	105.00	201	174.00	79872
50.00	19656	75.00	49224	106.00	594	175.00	5887
51.00	6168	76.00	4068	111.00	167	176.00	78912
52.00	181	77.00	348	115.00	245	177.00	4279
53.00	210	78.00	433	116.00	343	195.00	167
55.00	303	79.00	2985	117.00	369		
56.00	1534	80.00	1059	118.00	596		
57.00	2373	81.00	3688	119.00	219		

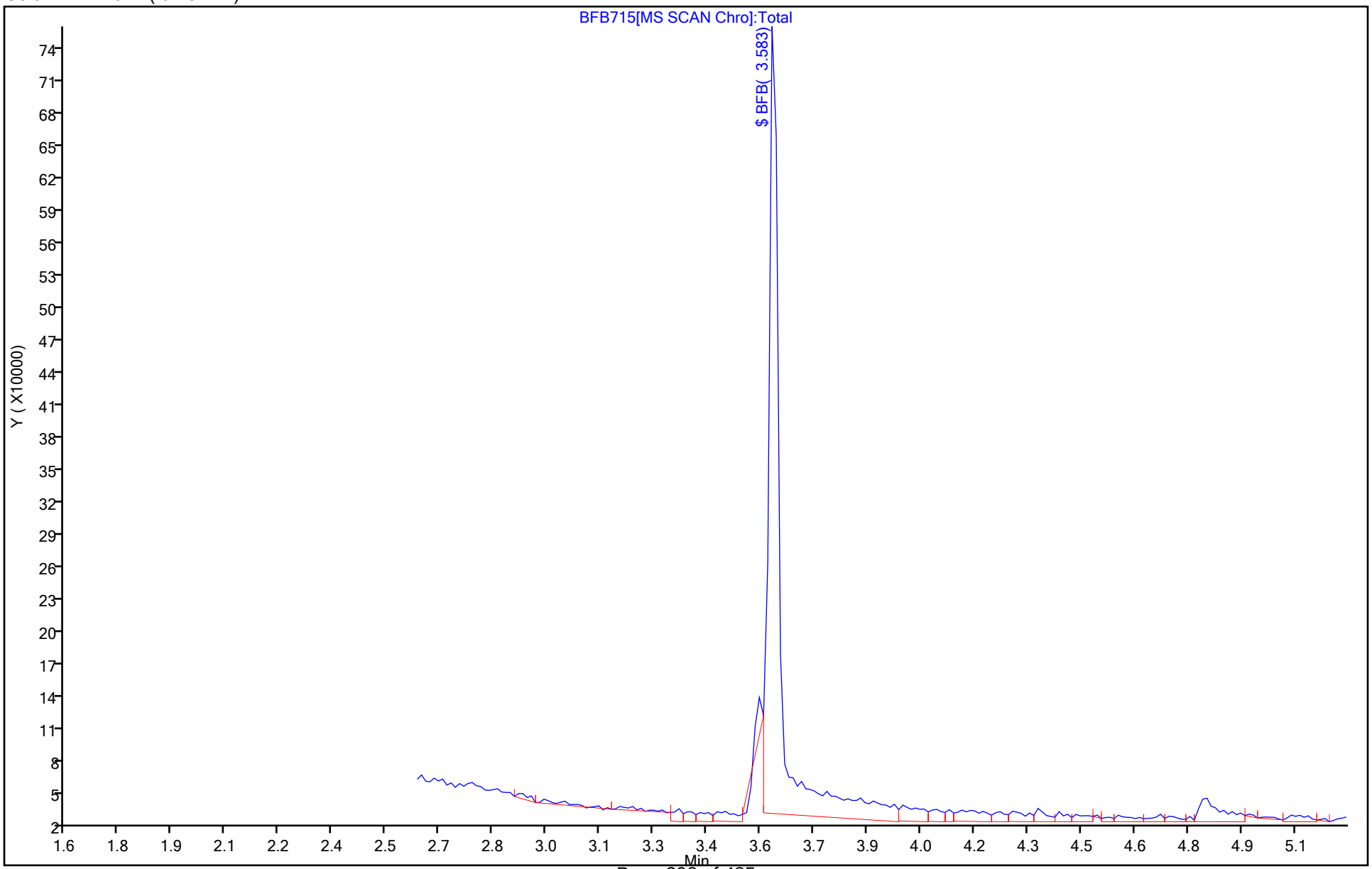
Report Date: 16-Jul-2020 08:53:15 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D

Injection Date:	15-Jul-2020 07:58:30	Instrument ID:	A3UX15	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Nov-2020 07:23:30 ALS Bottle#: 30 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C201115A,BFBUX15,,43582
Operator ID: Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:07 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.583	3.583	0.000	0	293478	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

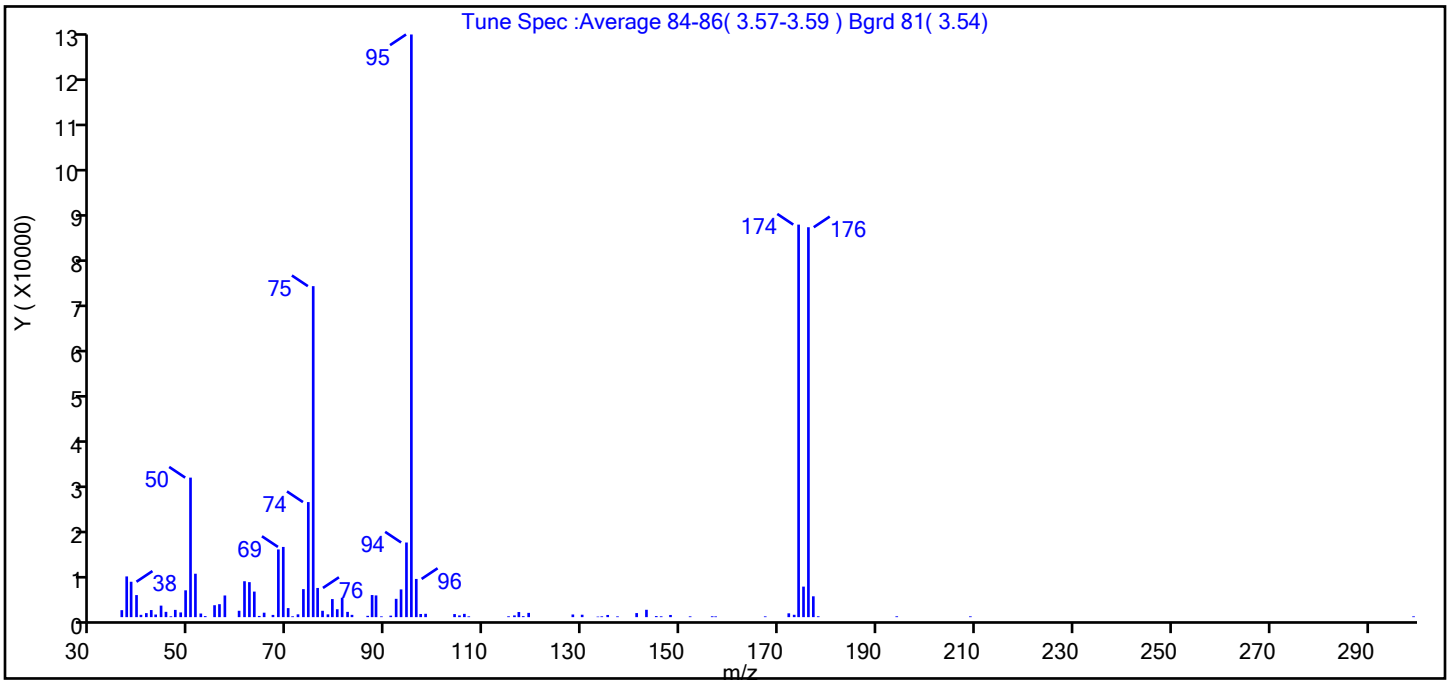
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D
Injection Date: 15-Nov-2020 07:23:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 30 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.9
75	30 to 60% of m/z 95	56.8
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	67.4
175	5 to 9% of m/z 174	5.2 (7.8)
176	Greater than 95% but less than 101% of m/z 174	66.9 (99.3)
177	5 to 9% of m/z 176	3.6 (5.3)

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D\8260_15.rslt\spectra.d
Injection Date: 15-Nov-2020 07:23:30
Spectrum: Tune Spec :Average 84-86(3.57-3.59) Bgrd 81(3.54)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1553	62.00	7779	88.00	4828	135.00	485
37.00	9053	63.00	5680	89.00	169	137.00	170
38.00	7869	64.00	268	91.00	332	141.00	907
39.00	4906	65.00	988	92.00	4073	143.00	1636
40.00	515	67.00	495	93.00	6165	145.00	237
41.00	895	68.00	15049	94.00	16592	146.00	181
42.00	1577	69.00	15608	95.00	129520	148.00	483
43.00	582	70.00	2011	96.00	8493	152.00	175
44.00	2561	71.00	190	97.00	703	156.00	191
45.00	1178	72.00	624	98.00	744	157.00	166
46.00	185	73.00	6227	104.00	686	167.00	172
47.00	1614	74.00	25576	105.00	377	172.00	850
48.00	1049	75.00	73576	106.00	731	173.00	524
49.00	5963	76.00	6490	107.00	177	174.00	87256
50.00	31016	77.00	1414	115.00	188	175.00	6788
51.00	9651	78.00	618	116.00	387	176.00	86672
52.00	808	79.00	4016	117.00	1138	177.00	4632
53.00	229	80.00	1760	118.00	220	178.00	186
55.00	2649	81.00	4302	119.00	948	194.00	189
56.00	2881	82.00	1173	128.00	592	209.00	175
57.00	4817	83.00	510	130.00	540	299.00	176
60.00	1416	86.00	294	133.00	120		
61.00	7978	87.00	4912	134.00	179		

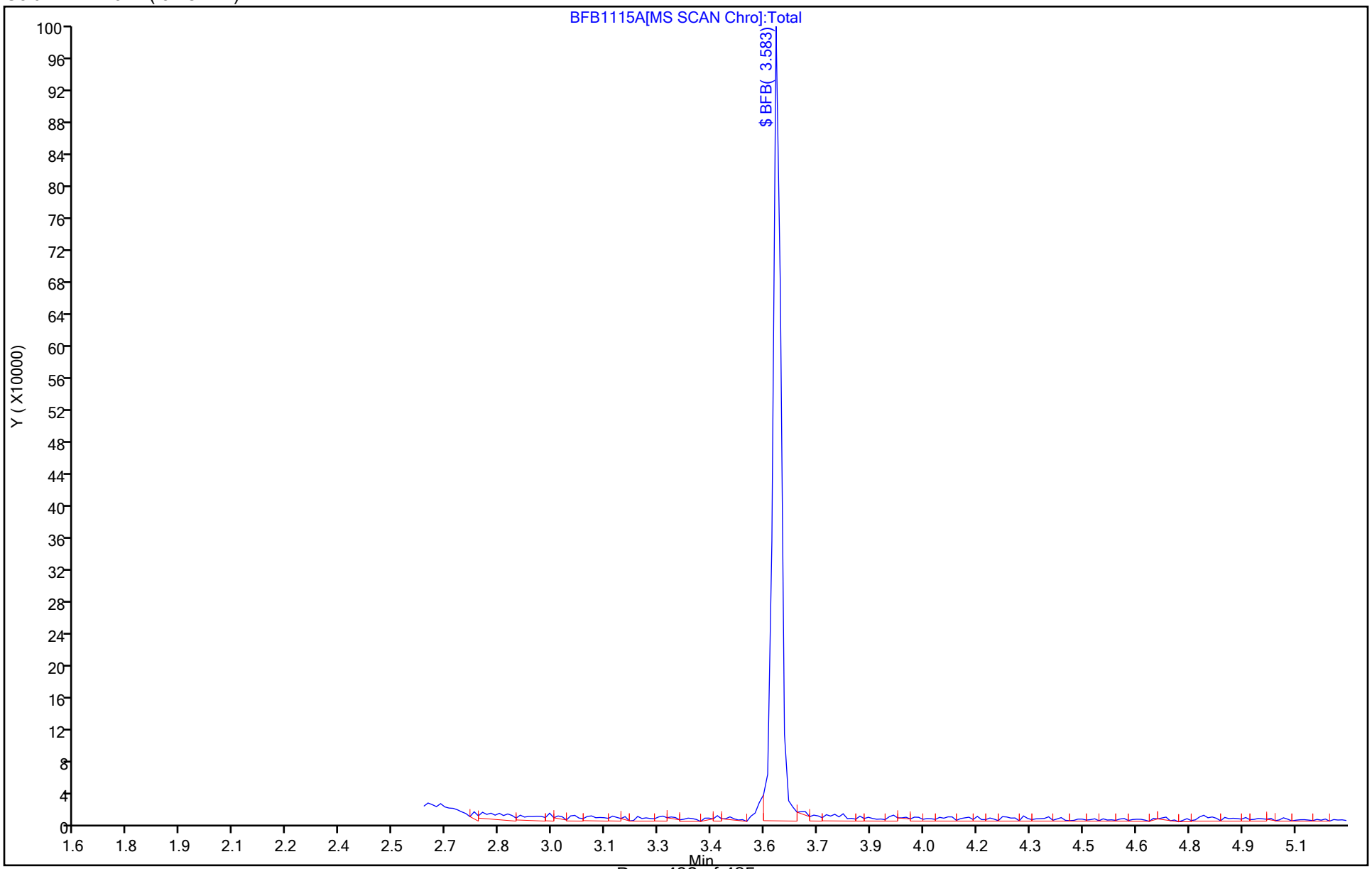
Report Date: 16-Nov-2020 07:51:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D

Injection Date:	15-Nov-2020 07:23:30	Instrument ID:	A3UX15	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\BFB1116B.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Nov-2020 08:49:30 ALS Bottle#: 31 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C201116A,BFBUX15,,43582
Operator ID: Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:56:11 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.583	3.583	0.000	0	320769	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

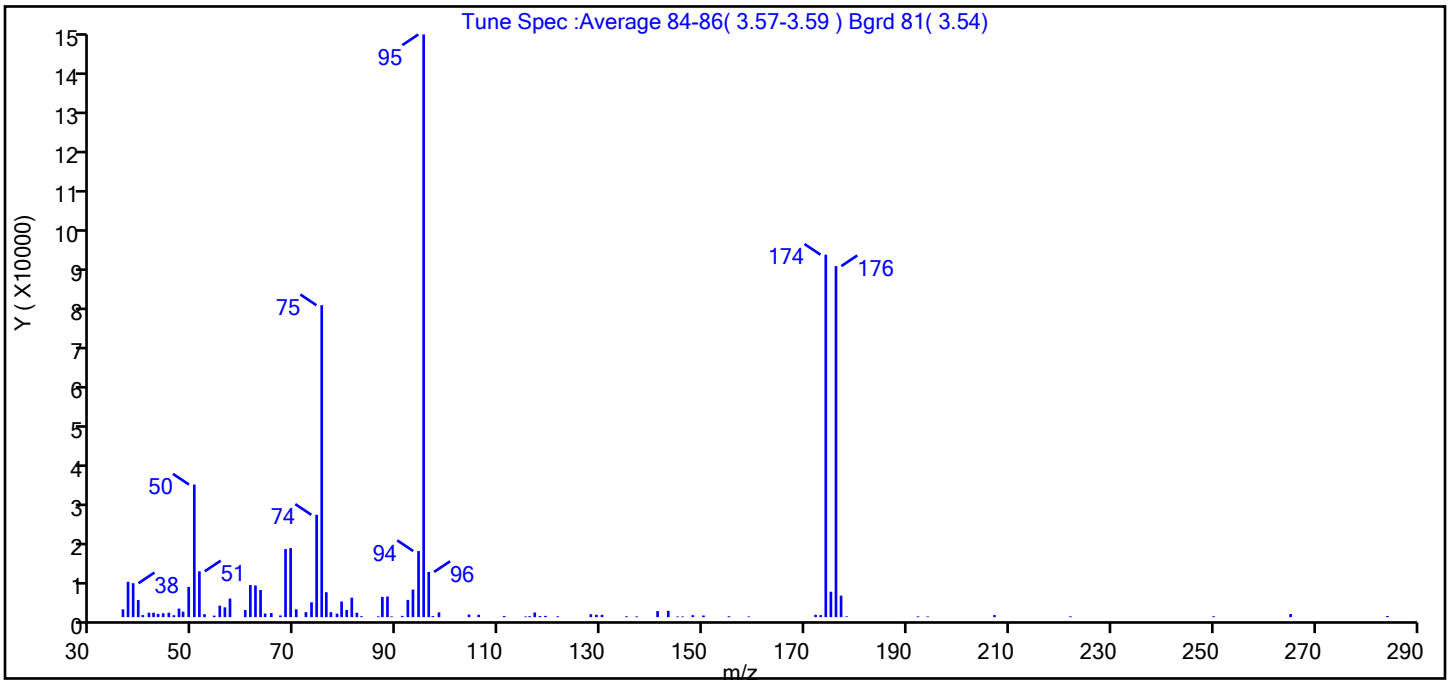
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\BFB1116B.D
Injection Date: 16-Nov-2020 08:49:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 31 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.8
75	30 to 60% of m/z 95	53.5
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.3 (0.6)
174	50 to 120% of m/z 95	62.2
175	5 to 9% of m/z 174	4.4 (7.0)
176	Greater than 95% but less than 101% of m/z 174	60.2 (96.8)
177	5 to 9% of m/z 176	3.7 (6.1)

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\BFB1116B.D\8260_15.rslt\spectra.d
Injection Date: 16-Nov-2020 08:49:30
Spectrum: Tune Spec :Average 84-86(3.57-3.59) Bgrd 81(3.54)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1903	62.00	7715	89.00	173	141.00	1467
37.00	8620	63.00	6605	91.00	311	143.00	1537
38.00	8266	64.00	875	92.00	4196	145.00	173
39.00	4166	65.00	998	93.00	6718	146.00	169
40.00	502	67.00	400	94.00	16104	148.00	470
41.00	1078	68.00	16576	95.00	141952	150.00	399
42.00	1064	69.00	16824	96.00	11011	155.00	218
43.00	791	70.00	1922	97.00	252	159.00	174
44.00	944	72.00	1212	98.00	1164	172.00	574
45.00	1074	73.00	3611	104.00	623	173.00	491
46.00	455	74.00	24936	106.00	577	174.00	88304
47.00	2083	75.00	76000	111.00	267	175.00	6192
48.00	1335	76.00	6077	115.00	169	176.00	85520
49.00	7363	77.00	1202	116.00	232	177.00	5243
50.00	32304	78.00	848	117.00	1137	178.00	182
51.00	11159	79.00	3803	118.00	262	192.00	191
52.00	717	80.00	1732	119.00	311	194.00	170
54.00	372	81.00	4743	121.00	205	207.00	504
55.00	2803	82.00	1074	128.00	712	222.00	201
56.00	2393	83.00	229	129.00	571	250.00	215
57.00	4519	86.00	198	130.00	574	265.00	764
60.00	1721	87.00	4932	135.00	216	284.00	283
61.00	7825	88.00	5017	137.00	192		

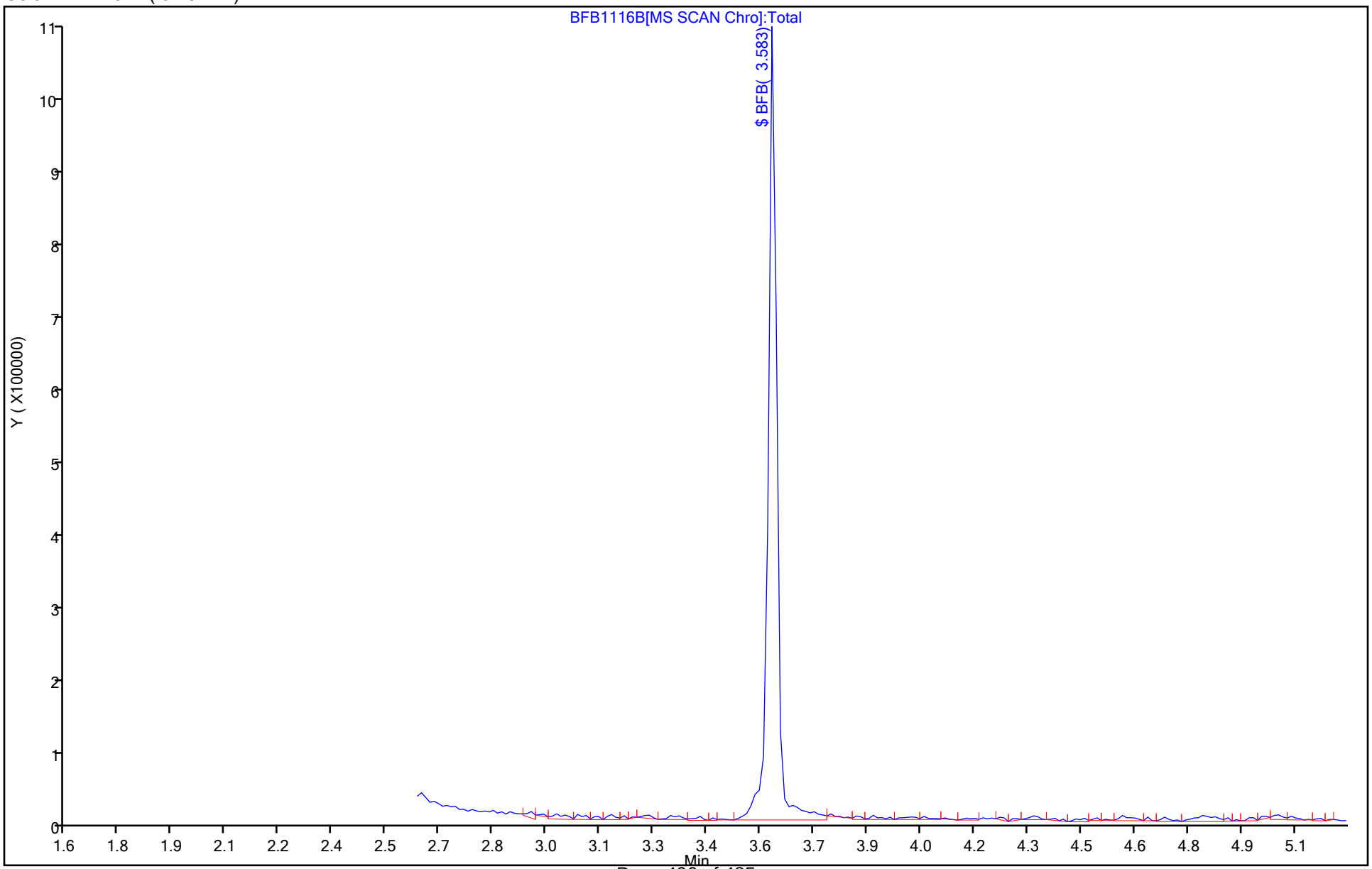
Report Date: 17-Nov-2020 08:56:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\BFB1116B.D

Injection Date:	16-Nov-2020 08:49:30	Instrument ID:	A3UX15	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\BFB1118G.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Nov-2020 09:35:30 ALS Bottle#: 5 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C201118A,BFBUX15,,43582
Operator ID: Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:33 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.583	3.583	0.000	0	257195	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

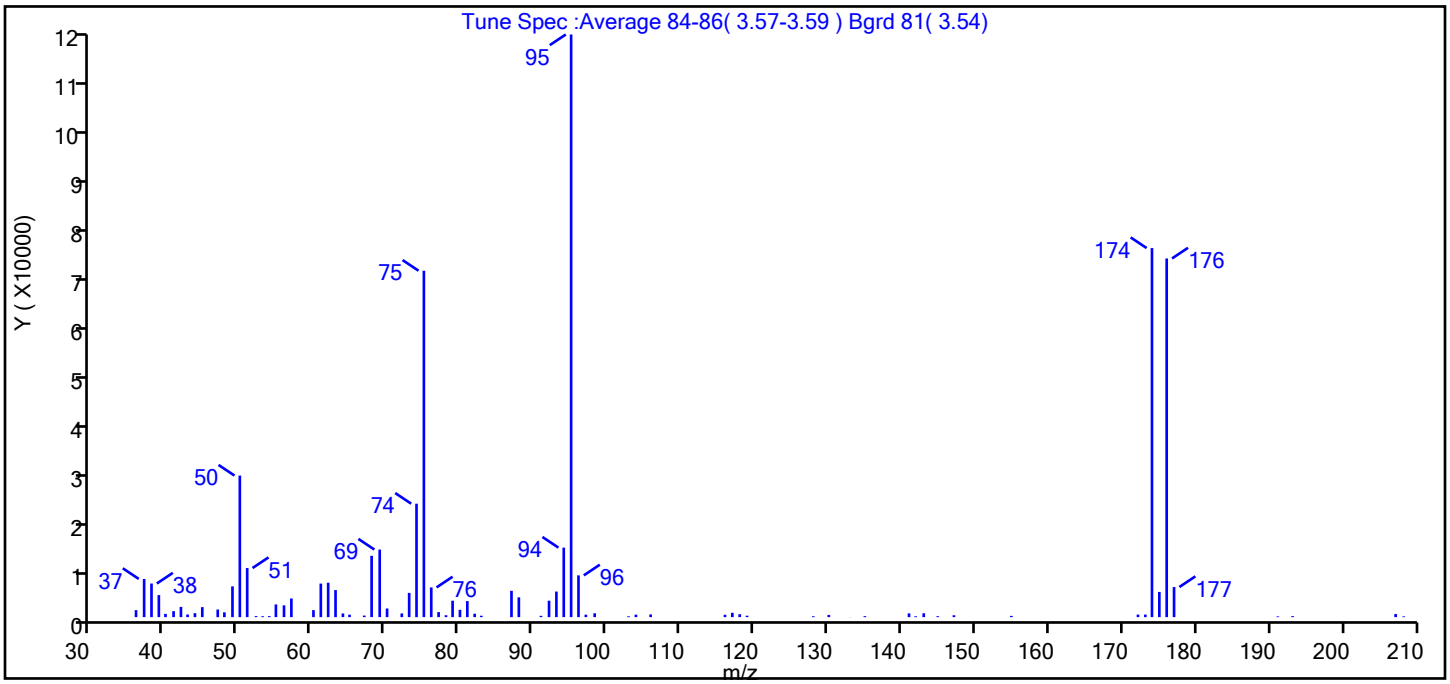
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\BFB1118G.D
Injection Date: 18-Nov-2020 09:35:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.3
75	30 to 60% of m/z 95	59.5
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.4 (0.7)
174	50 to 120% of m/z 95	63.3
175	5 to 9% of m/z 174	4.3 (6.8)
176	Greater than 95% but less than 101% of m/z 174	61.6 (97.2)
177	5 to 9% of m/z 176	5.2 (8.4)

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\BFB1118G.D\8260_15.rslt\spectra.d
Injection Date: 18-Nov-2020 09:35:30
Spectrum: Tune Spec :Average 84-86(3.57-3.59) Bgrd 81(3.54)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1342	57.00	3592	81.00	3092	128.00	169
37.00	7346	60.00	1348	82.00	657	130.00	426
38.00	6469	61.00	6455	83.00	273	133.00	22
39.00	4241	62.00	6626	87.00	5070	135.00	194
40.00	628	63.00	5209	88.00	3810	141.00	726
41.00	1153	64.00	712	91.00	257	142.00	171
42.00	1970	65.00	474	92.00	3160	143.00	743
43.00	509	67.00	306	93.00	4924	145.00	181
44.00	766	68.00	11798	94.00	13370	147.00	369
45.00	1928	69.00	12998	95.00	112088	155.00	243
47.00	1468	70.00	1661	96.00	8038	172.00	495
48.00	924	72.00	711	97.00	473	173.00	491
49.00	5922	73.00	4666	98.00	743	174.00	71000
50.00	27232	74.00	21824	103.00	168	175.00	4851
51.00	9446	75.00	66640	104.00	475	176.00	69000
52.00	205	76.00	5723	106.00	525	177.00	5796
53.00	172	77.00	971	116.00	457	191.00	145
54.00	194	78.00	371	117.00	840	193.00	196
55.00	2443	79.00	3156	118.00	566	207.00	598
56.00	2270	80.00	1410	119.00	279	208.00	150

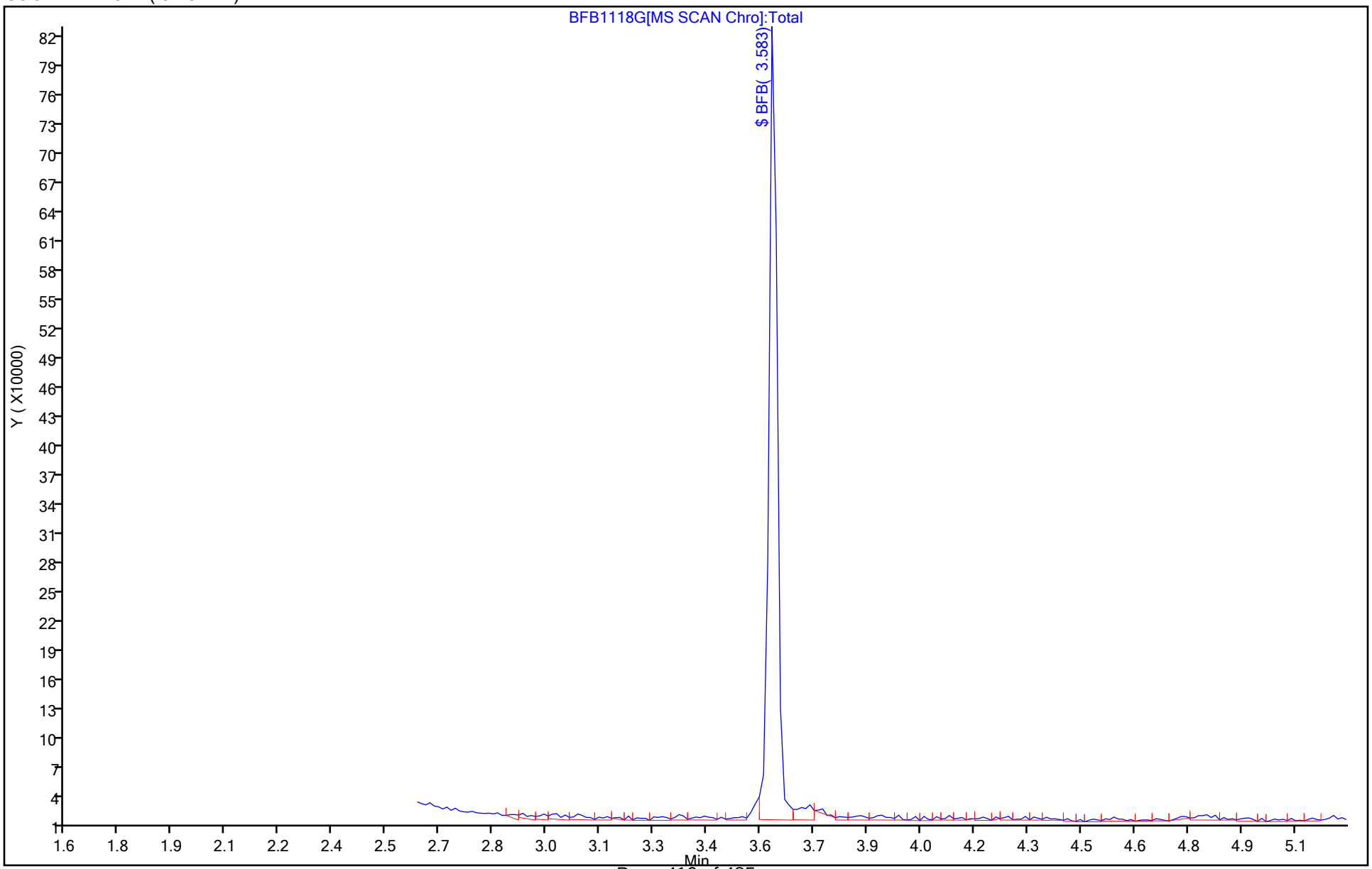
Report Date: 19-Nov-2020 05:38:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\BFB1118G.D

Injection Date:	18-Nov-2020 09:35:30	Instrument ID:	A3UX15	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461048/7

Matrix: Water Lab File ID: UXC3785.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 10:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461048/7

Matrix: Water Lab File ID: UXC3785.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 10:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	81		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3785.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2020 10:05:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-007
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:36:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	2089639	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1493121	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	622083	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	403846	10.0	8.13	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	701628	10.0	10.2	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1736201	10.0	9.36	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	532925	10.0	8.20	
9 Dichlorodifluoromethane	85		1.444					ND	
10 Chloromethane	50		1.598					ND	
11 Vinyl chloride	62		1.693					ND	
12 Butadiene	54		1.704					ND	7
13 Bromomethane	94		1.965					ND	
14 Chloroethane	64		2.037					ND	
15 Dichlorofluoromethane	67		2.191					ND	
16 Trichlorofluoromethane	101		2.238					ND	
17 Ethyl ether	59		2.452					ND	
18 Acrolein	56		2.570					ND	U
19 1,1-Dichloroethene	96		2.653					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.665					ND	
21 Acetone	58		2.689					ND	7
22 Iodomethane	142		2.784					ND	
24 Carbon disulfide	76		2.843					ND	7
23 Methylal	45		2.872					ND	
25 Acetonitrile	41		2.926					ND	U
26 3-Chloro-1-propene	76		2.950					ND	
27 Methyl acetate	43		2.961					ND	
28 Methylene Chloride	84	3.056	3.056	0.000	95	23248		0.4219	
29 2-Methyl-2-propanol	59		3.127					ND	U
30 Acrylonitrile	53		3.258					ND	
31 Methyl tert-butyl ether	73		3.270					ND	
32 trans-1,2-Dichloroethene	96		3.270					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	86		3.483					ND	
33 Chlorodifluoromethane TIC	51		3.571					ND	
35 1,1-Dichloroethane	63		3.626					ND	
36 Vinyl acetate	43		3.649					ND	
37 Isopropyl ether	87		3.661					ND	
38 2-Chloro-1,3-butadiene	53		3.697					ND	
39 Tert-butyl ethyl ether	59		3.958					ND	
40 2-Butanone (MEK)	72		4.100					ND	
41 cis-1,2-Dichloroethene	96		4.100					ND	
42 2,2-Dichloropropane	97		4.100					ND	
43 Ethyl acetate	43		4.135					ND	
44 Propionitrile	54		4.159					ND	7
45 Methacrylonitrile	41		4.278					ND	
46 Chlorobromomethane	128		4.290					ND	
47 Tetrahydrofuran	42	4.337	4.337	0.000	89	7343		0.5228	
48 Chloroform	83		4.349					ND	7
49 1,1,1-Trichloroethane	97		4.515					ND	
50 Cyclohexane	56		4.562					ND	
52 Carbon tetrachloride	117		4.645					ND	
51 1,1-Dichloropropene	75		4.645					ND	
53 Isobutyl alcohol	41		4.717					ND	
55 Benzene	78		4.823					ND	
56 1,2-Dichloroethane	62		4.835					ND	
54 Isooctane	57		4.871					ND	
57 Tert-amyl methyl ether	73		4.894					ND	
58 n-Heptane	100		5.013					ND	
59 n-Butanol	56		5.274					ND	
60 Trichloroethene	130		5.357					ND	
61 Ethyl acrylate	55		5.428					ND	
62 Methylcyclohexane	83		5.523					ND	
63 1,2-Dichloropropane	63		5.547					ND	
64 Methyl methacrylate	41		5.618					ND	
65 Dibromomethane	93		5.653					ND	
66 1,4-Dioxane	88		5.665					ND	
67 Dichlorobromomethane	83		5.772					ND	
68 2-Nitropropane	41		5.985					ND	
69 2-Chloroethyl vinyl ether	63		6.021					ND	
70 cis-1,3-Dichloropropene	75		6.163					ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294					ND	
72 Toluene	91		6.460					ND	7
73 trans-1,3-Dichloropropene	75		6.649					ND	
74 Ethyl methacrylate	69		6.721					ND	
75 1,1,2-Trichloroethane	97		6.815					ND	
76 Tetrachloroethene	164		6.946					ND	
77 1,3-Dichloropropane	76		6.970					ND	
78 2-Hexanone	43		7.041					ND	
79 n-Butyl acetate	43		7.136					ND	
80 Chlorodibromomethane	129		7.183					ND	
82 Ethylene Dibromide	107		7.290					ND	
81 Tetrahydrothiophene	60		7.292					ND	
83 1-Chlorohexane	91		7.705					ND	7
84 Chlorobenzene	112		7.740					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,1,2-Tetrachloroethane	131		7.812					ND	
86 Ethylbenzene	106		7.835					ND	
87 m-Xylene & p-Xylene	91		7.942					ND	
88 o-Xylene	106		8.322					ND	
89 Styrene	104		8.333					ND	
90 Bromoform	173		8.523					ND	
91 Isopropylbenzene	105		8.665					ND	
92 Cyclohexanone	55		8.772					ND	
93 1,4-Dichlorobutane	55		8.881					ND	
94 1,1,2,2-Tetrachloroethane	83		8.950					ND	
95 Bromobenzene	156		8.974					ND	
97 trans-1,4-Dichloro-2-butene	53		9.009					ND	
96 1,2,3-Trichloropropane	110		9.009					ND	
98 N-Propylbenzene	120		9.069					ND	
99 2-Chlorotoluene	126		9.152					ND	
101 1,3,5-Trimethylbenzene	105		9.235					ND	
102 4-Chlorotoluene	91		9.258					ND	
100 3-Ethyltoluene	105		9.324					ND	
104 tert-Butylbenzene	119		9.555					ND	
105 Pentachloroethane	167		9.578					ND	
106 1,2,4-Trimethylbenzene	105		9.602					ND	
103 2-Ethyltoluene	105		9.609					ND	
107 sec-Butylbenzene	105		9.768					ND	
108 1,3-Dichlorobenzene	146		9.887					ND	
109 4-Isopropyltoluene	119		9.911					ND	
110 1,4-Dichlorobenzene	146		9.970					ND	
111 1,2,3-Trimethylbenzene	105		10.017					ND	
112 Benzyl chloride	126		10.100					ND	
113 n-Butylbenzene	91		10.314					ND	
114 1,2-Dichlorobenzene	146		10.337					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.108					ND	
116 1,3,5-Trichlorobenzene	180		11.322					ND	
117 1,2,4-Trichlorobenzene	180		11.938					ND	
118 Hexachlorobutadiene	225		12.104					ND	
119 Naphthalene	128		12.187					ND	
120 1,2,3-Trichlorobenzene	180		12.425					ND	
121 2-Methylnaphthalene	142	13.421	13.432	-0.011	85	5815		0.1079	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	6498		0.1350	
123 Epichlorohydrin	1		0.000					ND	
125 Propene oxide	1		0.000					ND	
124 Ethylene oxide	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
S 127 1,2-Dichloroethene, Total	96		1.140					ND	
S 128 1,3-Dichloropropene, Total	75		6.760					ND	
S 129 Xylenes, Total	106		16.530					ND	
S 130 Total BTEX	1		0.000					ND	
S 131 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

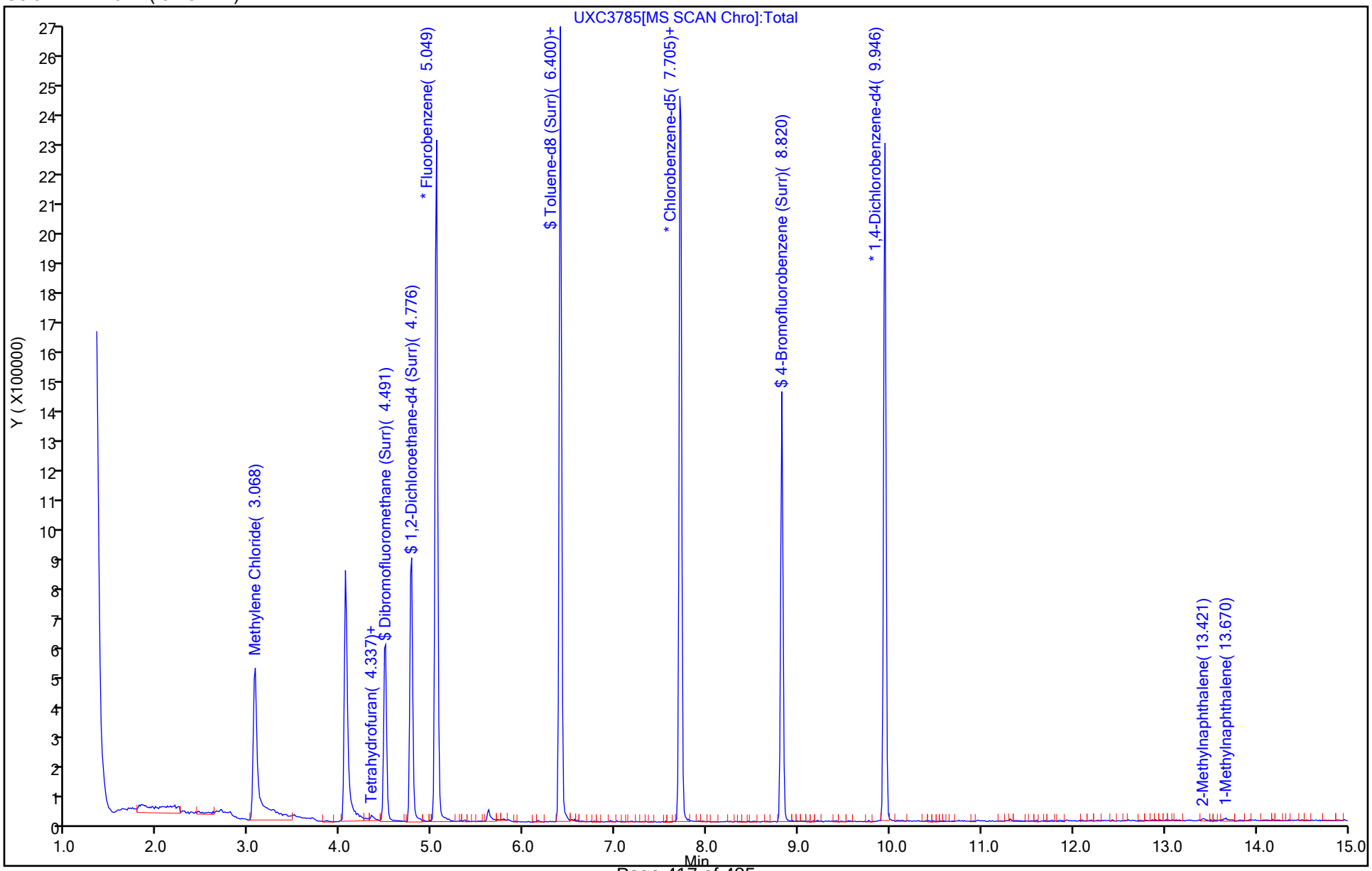
Report Date: 16-Nov-2020 07:51:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3785.D

Injection Date:	15-Nov-2020 10:05:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3785.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2020 10:05:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-007
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:36:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.13	81.28
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.34
$ 6 Toluene-d8 (Surr)	10.0	9.36	93.63
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.20	82.03

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461088/7

Matrix: Water Lab File ID: UXC3816.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 11:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461088/7

Matrix: Water Lab File ID: UXC3816.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 11:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	91		69-122
1868-53-7	Dibromofluoromethane (Surr)	82		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3816.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Nov-2020 11:25:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-007
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:56:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 16-Nov-2020 11:54:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	98	2056063	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1521959	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	603465	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	91	401268	10.0	8.21	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	710358	10.0	10.5	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1716994	10.0	9.08	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	79	542498	10.0	8.19	
9 Dichlorodifluoromethane	85		1.444					ND	
10 Chloromethane	50		1.598					ND	
11 Vinyl chloride	62		1.693					ND	
12 Butadiene	54		1.705					ND	
13 Bromomethane	94		1.954					ND	
14 Chloroethane	64		2.025					ND	
15 Dichlorofluoromethane	67		2.191					ND	
16 Trichlorofluoromethane	101		2.238					ND	
17 Ethyl ether	59		2.452					ND	
18 Acrolein	56		2.558					ND	U
19 1,1-Dichloroethene	96		2.653					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.665					ND	
21 Acetone	58		2.689					ND	7
22 Iodomethane	142		2.784					ND	
24 Carbon disulfide	76		2.843					ND	7
23 Methylal	45		2.872					ND	
25 Acetonitrile	41		2.926					ND	U
26 3-Chloro-1-propene	76		2.950					ND	
27 Methyl acetate	43		2.950					ND	
28 Methylene Chloride	84		3.045					ND	
29 2-Methyl-2-propanol	59		3.128					ND	
30 Acrylonitrile	53		3.246					ND	7
31 Methyl tert-butyl ether	73		3.258					ND	
32 trans-1,2-Dichloroethene	96		3.270					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	86		3.483					ND	
33 Chlorodifluoromethane TIC	51		3.571					ND	
35 1,1-Dichloroethane	63		3.614					ND	
36 Vinyl acetate	43		3.649					ND	
37 Isopropyl ether	87		3.661					ND	
38 2-Chloro-1,3-butadiene	53		3.685					ND	
39 Tert-butyl ethyl ether	59		3.946					ND	
42 2,2-Dichloropropane	97		4.088					ND	
41 cis-1,2-Dichloroethene	96		4.088					ND	
40 2-Butanone (MEK)	72		4.100					ND	
43 Ethyl acetate	43		4.136					ND	
44 Propionitrile	54		4.159					ND	7
45 Methacrylonitrile	41		4.278					ND	
46 Chlorobromomethane	128		4.290					ND	
47 Tetrahydrofuran	42	4.337	4.337	0.000	86	7792		0.5639	
48 Chloroform	83		4.349					ND	7
49 1,1,1-Trichloroethane	97		4.515					ND	
50 Cyclohexane	56		4.551					ND	
51 1,1-Dichloropropene	75		4.645					ND	
52 Carbon tetrachloride	117		4.645					ND	
53 Isobutyl alcohol	41		4.717					ND	
55 Benzene	78		4.823					ND	
56 1,2-Dichloroethane	62		4.835					ND	7
54 Isooctane	57	4.871	4.871	0.000	35	2265		0.0198	
57 Tert-amyl methyl ether	73		4.894					ND	
58 n-Heptane	100		5.013					ND	
59 n-Butanol	56		5.274					ND	
60 Trichloroethene	130		5.357					ND	
61 Ethyl acrylate	55		5.428					ND	
62 Methylcyclohexane	83		5.511					ND	
63 1,2-Dichloropropane	63		5.547					ND	
64 Methyl methacrylate	41		5.618					ND	
66 1,4-Dioxane	88		5.653					ND	
65 Dibromomethane	93		5.653					ND	
67 Dichlorobromomethane	83		5.772					ND	
68 2-Nitropropane	41		5.974					ND	
69 2-Chloroethyl vinyl ether	63		6.021					ND	
70 cis-1,3-Dichloropropene	75		6.163					ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294					ND	
72 Toluene	91		6.460					ND	
73 trans-1,3-Dichloropropene	75		6.650					ND	
74 Ethyl methacrylate	69		6.721					ND	
75 1,1,2-Trichloroethane	97		6.816					ND	
76 Tetrachloroethene	164		6.946					ND	
77 1,3-Dichloropropane	76		6.970					ND	
78 2-Hexanone	43		7.029					ND	
79 n-Butyl acetate	43		7.136					ND	
80 Chlorodibromomethane	129		7.183					ND	
82 Ethylene Dibromide	107		7.290					ND	
81 Tetrahydrothiophene	60		7.292					ND	
83 1-Chlorohexane	91		7.705					ND	7
84 Chlorobenzene	112		7.741					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,1,2-Tetrachloroethane	131		7.812					ND	
86 Ethylbenzene	106		7.835					ND	
87 m-Xylene & p-Xylene	91		7.942					ND	
88 o-Xylene	106		8.322					ND	
89 Styrene	104		8.333					ND	
90 Bromoform	173		8.523					ND	
91 Isopropylbenzene	105		8.666					ND	
92 Cyclohexanone	55		8.772					ND	
93 1,4-Dichlorobutane	55		8.881					ND	
94 1,1,2,2-Tetrachloroethane	83		8.950					ND	
95 Bromobenzene	156		8.974					ND	
96 1,2,3-Trichloropropane	110		8.998					ND	
97 trans-1,4-Dichloro-2-butene	53		9.009					ND	
98 N-Propylbenzene	120		9.057					ND	
99 2-Chlorotoluene	126		9.152					ND	
101 1,3,5-Trimethylbenzene	105		9.235					ND	
102 4-Chlorotoluene	91		9.258					ND	
100 3-Ethyltoluene	105		9.324					ND	
104 tert-Butylbenzene	119		9.555					ND	
105 Pentachloroethane	167		9.579					ND	
106 1,2,4-Trimethylbenzene	105		9.602					ND	
103 2-Ethyltoluene	105		9.609					ND	
107 sec-Butylbenzene	105		9.768					ND	
108 1,3-Dichlorobenzene	146		9.887					ND	
109 4-Isopropyltoluene	119		9.911					ND	
110 1,4-Dichlorobenzene	146		9.970					ND	
111 1,2,3-Trimethylbenzene	105		10.017					ND	
112 Benzyl chloride	126		10.100					ND	
113 n-Butylbenzene	91		10.314					ND	
114 1,2-Dichlorobenzene	146		10.338					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.108					ND	
116 1,3,5-Trichlorobenzene	180		11.310					ND	
117 1,2,4-Trichlorobenzene	180		11.938					ND	
118 Hexachlorobutadiene	225		12.093					ND	
119 Naphthalene	128		12.187					ND	
120 1,2,3-Trichlorobenzene	180		12.425					ND	
121 2-Methylnaphthalene	142		13.433					ND	7
122 1-Methylnaphthalene	142		13.670					ND	7
123 Epichlorohydrin	1		0.000					ND	
125 Propene oxide	1		0.000					ND	
124 Ethylene oxide	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
S 127 1,2-Dichloroethene, Total	96		1.140					ND	
S 128 1,3-Dichloropropene, Total	75		6.760					ND	
S 129 Xylenes, Total	106		16.530					ND	
S 130 Total BTEX	1		0.000					ND	
S 131 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

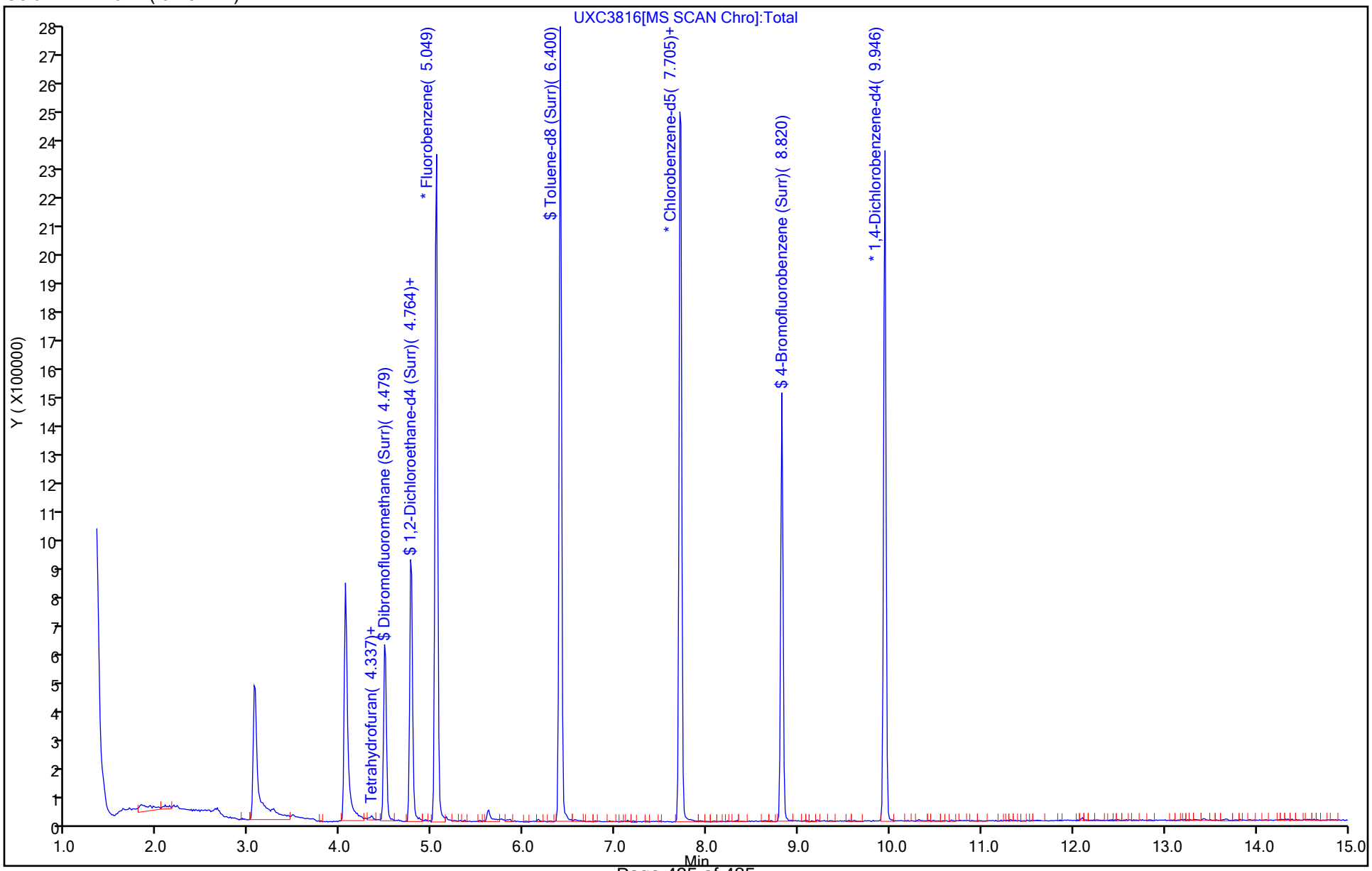
Report Date: 17-Nov-2020 08:56:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3816.D

Injection Date:	16-Nov-2020 11:25:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3816.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Nov-2020 11:25:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-007
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:56:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: evansle Date: 16-Nov-2020 11:54:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.21	82.08
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.31
$ 6 Toluene-d8 (Surr)	10.0	9.08	90.84
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.19	81.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461535/7

Matrix: Water Lab File ID: UXC3877.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 11:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461535/7

Matrix: Water Lab File ID: UXC3877.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 11:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	80		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	84		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3877.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2020 11:46:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-007
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 12:02:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	98	2028008	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.705	0.000	91	1218777	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	532521	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	91	404305	10.0	8.38	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	694363	10.0	10.4	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1501035	10.0	9.92	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	79	425704	10.0	8.03	
9 Dichlorodifluoromethane	85		1.444					ND	
10 Chloromethane	50		1.598					ND	
12 Butadiene	54		1.693					ND	
11 Vinyl chloride	62		1.693					ND	
13 Bromomethane	94		1.942					ND	
14 Chloroethane	64		2.025					ND	
15 Dichlorofluoromethane	67		2.179					ND	
16 Trichlorofluoromethane	101		2.226					ND	
17 Ethyl ether	59		2.440					ND	
18 Acrolein	56		2.558					ND	U
19 1,1-Dichloroethene	96		2.641					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.653					ND	
21 Acetone	58		2.677					ND	7
22 Iodomethane	142		2.784					ND	
24 Carbon disulfide	76		2.843					ND	7
23 Methylal	45		2.872					ND	
25 Acetonitrile	41	2.926	2.926	0.000	96	11337		2.19	
26 3-Chloro-1-propene	76		2.938					ND	
27 Methyl acetate	43		2.950					ND	
28 Methylene Chloride	84	3.044	3.045	0.000	96	18282		0.3418	
29 2-Methyl-2-propanol	59		3.116					ND	
30 Acrylonitrile	53		3.246					ND	
31 Methyl tert-butyl ether	73		3.258					ND	
32 trans-1,2-Dichloroethene	96		3.258					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	86		3.471					ND	
33 Chlorodifluoromethane TIC	51		3.571					ND	
35 1,1-Dichloroethane	63		3.614					ND	
36 Vinyl acetate	43		3.637					ND	
37 Isopropyl ether	87		3.649					ND	
38 2-Chloro-1,3-butadiene	53		3.685					ND	
39 Tert-butyl ethyl ether	59		3.946					ND	
41 cis-1,2-Dichloroethene	96		4.088					ND	
42 2,2-Dichloropropane	97		4.088					ND	
40 2-Butanone (MEK)	72		4.100					ND	
43 Ethyl acetate	43		4.135					ND	
44 Propionitrile	54		4.159					ND	
45 Methacrylonitrile	41		4.278					ND	
46 Chlorobromomethane	128		4.290					ND	
47 Tetrahydrofuran	42	4.325	4.325	0.000	86	8452		0.6201	
48 Chloroform	83		4.349					ND	
49 1,1,1-Trichloroethane	97		4.503					ND	
50 Cyclohexane	56		4.551					ND	
51 1,1-Dichloropropene	75		4.634					ND	
52 Carbon tetrachloride	117		4.645					ND	
53 Isobutyl alcohol	41		4.717					ND	
55 Benzene	78		4.811					ND	7
56 1,2-Dichloroethane	62		4.823					ND	
54 Isooctane	57	4.859	4.859	0.000	43	3310		0.0294	
57 Tert-amyl methyl ether	73		4.894					ND	
58 n-Heptane	100		5.013					ND	
59 n-Butanol	56		5.262					ND	
60 Trichloroethene	130		5.345					ND	7
61 Ethyl acrylate	55		5.416					ND	
62 Methylcyclohexane	83		5.511					ND	
63 1,2-Dichloropropane	63		5.547					ND	
64 Methyl methacrylate	41		5.618					ND	
65 Dibromomethane	93		5.642					ND	
66 1,4-Dioxane	88		5.653					ND	
67 Dichlorobromomethane	83		5.772					ND	
68 2-Nitropropane	41		5.973					ND	
69 2-Chloroethyl vinyl ether	63		6.021					ND	
70 cis-1,3-Dichloropropene	75		6.163					ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294					ND	
72 Toluene	91		6.460					ND	7
73 trans-1,3-Dichloropropene	75		6.650					ND	
74 Ethyl methacrylate	69		6.709					ND	
75 1,1,2-Trichloroethane	97		6.816					ND	
76 Tetrachloroethene	164		6.946					ND	
77 1,3-Dichloropropane	76		6.970					ND	
78 2-Hexanone	43		7.029					ND	
79 n-Butyl acetate	43		7.136					ND	
80 Chlorodibromomethane	129		7.183					ND	
82 Ethylene Dibromide	107		7.290					ND	
81 Tetrahydrothiophene	60		7.292					ND	
83 1-Chlorohexane	91		7.705					ND	7
84 Chlorobenzene	112		7.740					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,1,2-Tetrachloroethane	131		7.812					ND	
86 Ethylbenzene	106		7.835					ND	
87 m-Xylene & p-Xylene	91		7.942					ND	
88 o-Xylene	106		8.322					ND	
89 Styrene	104		8.333					ND	
90 Bromoform	173		8.511					ND	
91 Isopropylbenzene	105		8.665					ND	
92 Cyclohexanone	55		8.772					ND	
93 1,4-Dichlorobutane	55		8.881					ND	
94 1,1,2,2-Tetrachloroethane	83		8.950					ND	
95 Bromobenzene	156		8.974					ND	
96 1,2,3-Trichloropropane	110		8.997					ND	
97 trans-1,4-Dichloro-2-butene	53		9.009					ND	
98 N-Propylbenzene	120		9.057					ND	
99 2-Chlorotoluene	126		9.152					ND	
101 1,3,5-Trimethylbenzene	105		9.235					ND	
102 4-Chlorotoluene	91		9.258					ND	
100 3-Ethyltoluene	105		9.324					ND	
104 tert-Butylbenzene	119		9.555					ND	
105 Pentachloroethane	167		9.578					ND	
106 1,2,4-Trimethylbenzene	105		9.602					ND	
103 2-Ethyltoluene	105		9.609					ND	
107 sec-Butylbenzene	105		9.768					ND	
108 1,3-Dichlorobenzene	146		9.875					ND	
109 4-Isopropyltoluene	119		9.911					ND	
110 1,4-Dichlorobenzene	146		9.970					ND	
111 1,2,3-Trimethylbenzene	105		10.017					ND	
112 Benzyl chloride	126		10.100					ND	
113 n-Butylbenzene	91		10.314					ND	
114 1,2-Dichlorobenzene	146		10.337					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.108					ND	
116 1,3,5-Trichlorobenzene	180		11.310					ND	
117 1,2,4-Trichlorobenzene	180		11.938					ND	
118 Hexachlorobutadiene	225		12.104					ND	
119 Naphthalene	128		12.187					ND	
120 1,2,3-Trichlorobenzene	180		12.425					ND	
121 2-Methylnaphthalene	142		13.432					ND	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	92	4524		0.1098	
123 Epichlorohydrin	1		0.000					ND	
125 Propene oxide	1		0.000					ND	
124 Ethylene oxide	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
S 127 1,2-Dichloroethene, Total	96		1.140					ND	
S 128 1,3-Dichloropropene, Total	75		6.760					ND	
S 129 Xylenes, Total	106		16.530					ND	
S 130 Total BTEX	1		0.000					ND	
S 131 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

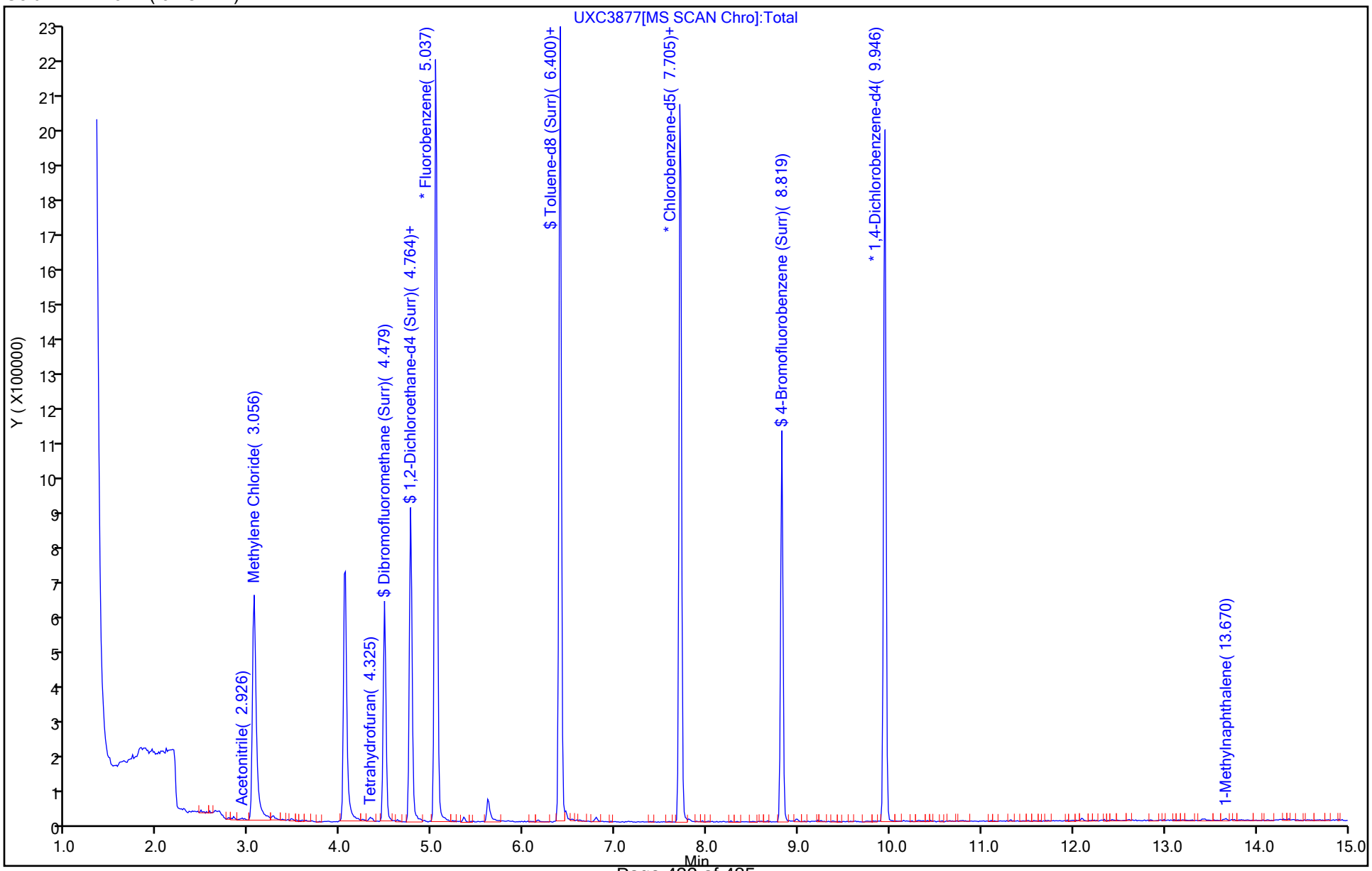
Report Date: 19-Nov-2020 05:38:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3877.D

Injection Date:	18-Nov-2020 11:46:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3877.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2020 11:46:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-007
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: evansle Date: 18-Nov-2020 12:02:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.38	83.84
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.36
$ 6 Toluene-d8 (Surr)	10.0	9.92	99.17
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.03	80.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461048/4

Matrix: Water Lab File ID: UXC3780.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 08:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	8.04		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	14.4		1.0	0.13
79-00-5	1,1,2-Trichloroethane	12.5		1.0	0.090
75-34-3	1,1-Dichloroethane	10.1		1.0	0.17
75-35-4	1,1-Dichloroethene	8.14		1.0	0.19
107-06-2	1,2-Dichloroethane	10.3		1.0	0.21
78-87-5	1,2-Dichloropropane	11.2		1.0	0.15
591-78-6	2-Hexanone	27.0		10	0.54
67-64-1	Acetone	20.6		10	5.4
71-43-2	Benzene	10.5		1.0	0.13
75-25-2	Bromoform	7.00		1.0	0.76
74-83-9	Bromomethane	6.13		1.0	0.42
75-15-0	Carbon disulfide	6.46		1.0	0.28
56-23-5	Carbon tetrachloride	6.90		1.0	0.26
108-90-7	Chlorobenzene	10.1		1.0	0.14
75-00-3	Chloroethane	6.53		1.0	0.83
67-66-3	Chloroform	9.74		1.0	0.13
74-87-3	Chloromethane	10.9		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	9.37		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	8.83		1.0	0.61
75-27-4	Dichlorobromomethane	9.33		1.0	0.17
100-41-4	Ethylbenzene	10.0		1.0	0.11
78-93-3	2-Butanone (MEK)	21.7		10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	22.0		10	0.42
75-09-2	Methylene Chloride	10.6		5.0	2.6
100-42-5	Styrene	10.2		1.0	0.10
127-18-4	Tetrachloroethene	8.23		1.0	0.15
108-88-3	Toluene	11.2		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	9.11		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	9.41		1.0	0.67
79-01-6	Trichloroethene	7.44		1.0	0.10
75-01-4	Vinyl chloride	9.09		1.0	0.20
1330-20-7	Xylenes, Total	20.2		2.0	0.15
124-48-1	Chlorodibromomethane	7.94		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461048/4

Matrix: Water Lab File ID: UXC3780.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 08:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
2037-26-5	Toluene-d8 (Surr)	103		69-122
1868-53-7	Dibromofluoromethane (Surr)	80		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3780.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 08:15:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-004
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	2409752	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	93	1653674	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	829043	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	459495	10.0	8.02	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	737864	10.0	9.33	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	2116625	10.0	10.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	745491	10.0	10.4	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	528285	10.0	7.99	
10 Chloromethane	50	1.598	1.598	0.000	99	862169	10.0	10.9	
11 Vinyl chloride	62	1.693	1.693	0.000	99	711455	10.0	9.09	
12 Butadiene	54	1.704	1.704	0.000	96	729683	10.0	8.18	
13 Bromomethane	94	1.965	1.965	0.000	91	403488	10.0	6.13	
14 Chloroethane	64	2.037	2.037	0.000	100	400160	10.0	6.53	
15 Dichlorofluoromethane	67	2.191	2.191	0.000	97	1180670	10.0	7.97	
16 Trichlorofluoromethane	101	2.238	2.238	0.000	98	731386	10.0	5.66	
17 Ethyl ether	59	2.452	2.452	0.000	93	752192	10.0	11.4	
18 Acrolein	56	2.570	2.570	0.000	98	224856	50.0	43.2	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	590091	10.0	8.14	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.665	0.000	96	355812	10.0	6.51	
21 Acetone	58	2.689	2.689	0.000	99	142004	20.0	20.6	
22 Iodomethane	142	2.784	2.784	0.000	99	824169	10.0	6.42	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1295109	10.0	6.46	
26 3-Chloro-1-propene	76	2.950	2.950	0.000	85	353779	10.0	9.02	
27 Methyl acetate	43	2.961	2.961	0.000	99	1105585	20.0	25.4	
28 Methylene Chloride	84	3.044	3.056	-0.012	98	675818	10.0	10.6	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	88	277519	100.0	82.8	
30 Acrylonitrile	53	3.258	3.258	0.000	99	2596238	100.0	124.3	
31 Methyl tert-butyl ether	73	3.270	3.270	0.000	96	1516923	10.0	9.03	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	603704	10.0	9.11	
34 Hexane	86	3.483	3.483	0.000	95	97796	10.0	8.58	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	1111623	10.0	10.1	
36 Vinyl acetate	43	3.649	3.649	0.000	98	1054228	10.0	9.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	148893	20.0	21.7	
41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	85	646335	10.0	9.37	
42 2,2-Dichloropropane	97	4.100	4.100	0.000	64	134178	10.0	7.82	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	272149	10.0	8.04	
47 Tetrahydrofuran	42	4.337	4.337	0.000	89	377787	20.0	23.3	
48 Chloroform	83	4.349	4.349	0.000	97	1078106	10.0	9.74	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	96	732939	10.0	8.04	
50 Cyclohexane	56	4.562	4.562	0.000	95	818417	10.0	9.36	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	524876	10.0	6.90	
51 1,1-Dichloropropene	75	4.645	4.645	0.000	91	774560	10.0	8.69	
53 Isobutyl alcohol	41	4.717	4.717	0.000	90	483248	250.0	362.5	
55 Benzene	78	4.823	4.823	0.000	97	2747678	10.0	10.5	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	97	988538	10.0	10.3	
58 n-Heptane	100	5.013	5.013	0.000	91	76483	10.0	7.26	
60 Trichloroethene	130	5.357	5.357	0.000	96	525050	10.0	7.44	
62 Methylcyclohexane	83	5.511	5.523	-0.012	95	552296	10.0	7.69	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	677419	10.0	11.2	
65 Dibromomethane	93	5.653	5.653	0.000	92	341391	10.0	9.28	
66 1,4-Dioxane	88	5.665	5.665	0.000	33	82994	200.0	227.9	
67 Dichlorobromomethane	83	5.784	5.772	0.012	98	668349	10.0	9.33	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	325655	10.0	9.19	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	771455	10.0	8.83	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1131540	20.0	22.0	
72 Toluene	91	6.460	6.460	0.000	97	2673919	10.0	11.2	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	99	632135	10.0	9.41	
74 Ethyl methacrylate	69	6.721	6.721	0.000	90	630389	10.0	11.4	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	531917	10.0	12.5	
76 Tetrachloroethene	164	6.946	6.946	0.000	90	360965	10.0	8.23	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	96	995653	10.0	12.6	
78 2-Hexanone	43	7.041	7.041	0.000	99	800366	20.0	27.0	
80 Chlorodibromomethane	129	7.183	7.183	0.000	89	373448	10.0	7.94	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	474603	10.0	10.8	
84 Chlorobenzene	112	7.740	7.740	0.000	96	1537702	10.0	10.1	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	457285	10.0	9.30	
86 Ethylbenzene	106	7.835	7.835	0.000	99	785111	10.0	10.0	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	2062508	10.0	10.7	
88 o-Xylene	106	8.322	8.322	0.000	96	922810	10.0	9.49	
89 Styrene	104	8.333	8.333	0.000	94	1658827	10.0	10.2	
90 Bromoform	173	8.523	8.523	0.000	93	173151	10.0	7.00	
91 Isopropylbenzene	105	8.665	8.665	0.000	97	2074949	10.0	8.94	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	694615	10.0	14.4	
95 Bromobenzene	156	8.974	8.974	0.000	97	555019	10.0	10.1	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	74	187778	10.0	12.7	
96 1,2,3-Trichloropropane	110	8.997	9.009	-0.012	91	211877	10.0	12.7	
98 N-Propylbenzene	120	9.057	9.069	-0.012	99	555196	10.0	10.5	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	535152	10.0	10.6	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	1780505	10.0	10.9	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2196901	10.0	12.8	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1245765	10.0	9.31	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1916697	10.0	11.3	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1758353	10.0	10.2	
108 1,3-Dichlorobenzene	146	9.875	9.887	-0.012	95	1019296	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	9.911	9.911	0.000	97	1520001	10.0	9.54	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	90	1108357	10.0	10.1	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1221725	10.0	9.74	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	94	1016561	10.0	9.73	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	67	62903	10.0	7.68	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	93	357304	10.0	6.37	
118 Hexachlorobutadiene	225	12.104	12.104	0.000	95	128863	10.0	5.17	
119 Naphthalene	128	12.187	12.187	0.000	97	1031611	10.0	7.16	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	365281	10.0	7.18	
S 129 Xylenes, Total	106				0		20.0	20.1	
S 130 Total BTEX	1				0		50.0	51.8	
S 131 Trihalomethanes, Total	1				0		40.0	34.0	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00373	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

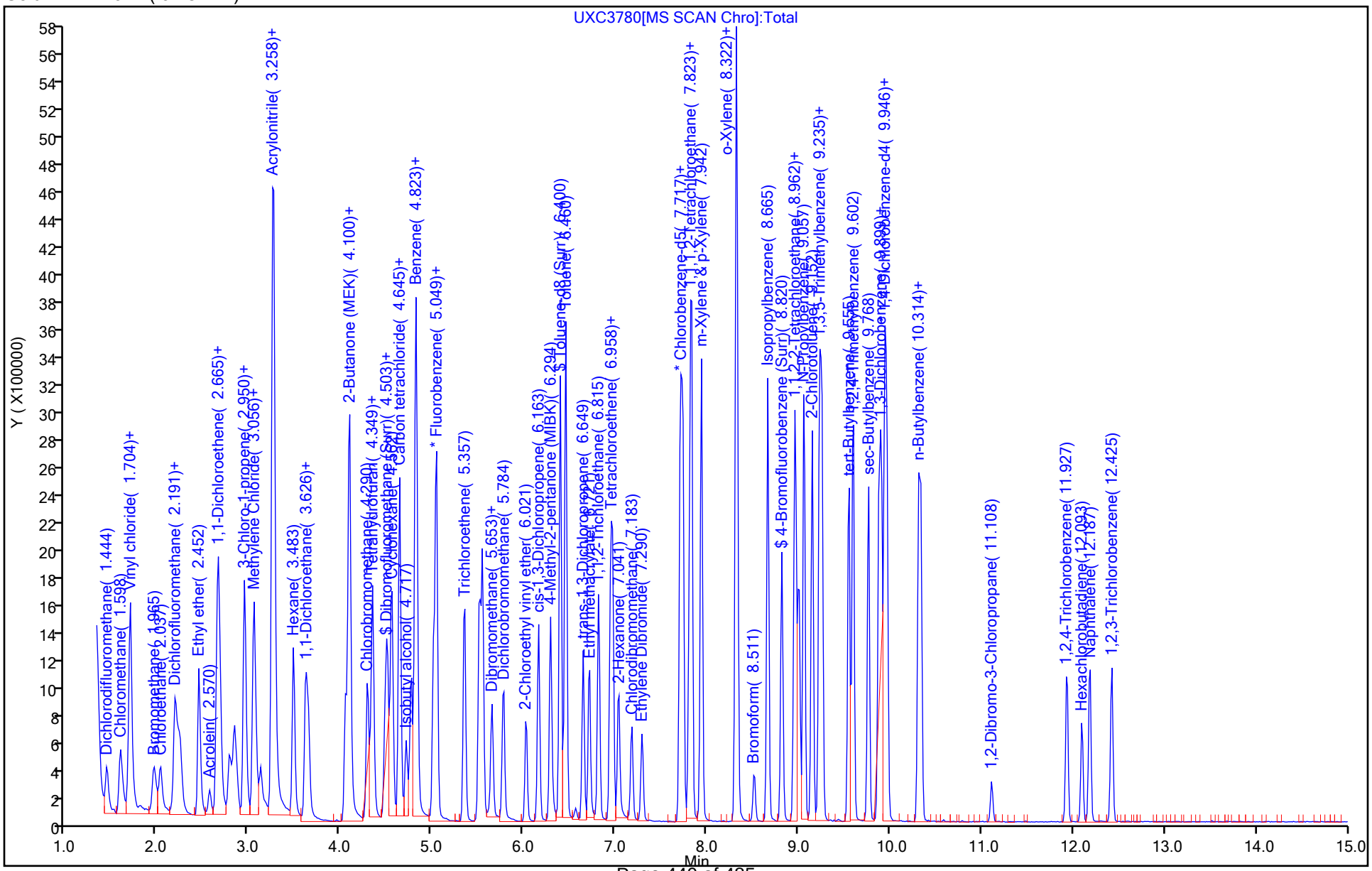
Report Date: 16-Nov-2020 07:51:15 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3780.D

Injection Date:	15-Nov-2020 08:15:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3780.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 08:15:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-004
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.02	80.19
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.33	93.33
$ 6 Toluene-d8 (Surr)	10.0	10.3	103.06
$ 7 4-Bromofluorobenzene (Surr)	10.0	10.4	103.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461088/4

Matrix: Water Lab File ID: UXC3811.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 09:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.23		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	16.1		1.0	0.13
79-00-5	1,1,2-Trichloroethane	13.7		1.0	0.090
75-34-3	1,1-Dichloroethane	11.7		1.0	0.17
75-35-4	1,1-Dichloroethene	9.38		1.0	0.19
107-06-2	1,2-Dichloroethane	11.3		1.0	0.21
78-87-5	1,2-Dichloropropane	12.3		1.0	0.15
591-78-6	2-Hexanone	28.7		10	0.54
67-64-1	Acetone	20.2		10	5.4
71-43-2	Benzene	11.7		1.0	0.13
75-25-2	Bromoform	7.48		1.0	0.76
74-83-9	Bromomethane	6.35		1.0	0.42
75-15-0	Carbon disulfide	7.23		1.0	0.28
56-23-5	Carbon tetrachloride	8.10		1.0	0.26
108-90-7	Chlorobenzene	11.2		1.0	0.14
75-00-3	Chloroethane	6.50		1.0	0.83
67-66-3	Chloroform	10.9		1.0	0.13
74-87-3	Chloromethane	11.3		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	10.7		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	9.50		1.0	0.61
75-27-4	Dichlorobromomethane	10.4		1.0	0.17
100-41-4	Ethylbenzene	11.4		1.0	0.11
78-93-3	2-Butanone (MEK)	22.6		10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	22.6		10	0.42
75-09-2	Methylene Chloride	11.5		5.0	2.6
100-42-5	Styrene	11.2		1.0	0.10
127-18-4	Tetrachloroethene	9.53		1.0	0.15
108-88-3	Toluene	12.9		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	10.6		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	10.4		1.0	0.67
79-01-6	Trichloroethene	8.52		1.0	0.10
75-01-4	Vinyl chloride	9.44		1.0	0.20
1330-20-7	Xylenes, Total	22.7		2.0	0.15
124-48-1	Chlorodibromomethane	8.63		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461088/4

Matrix: Water Lab File ID: UXC3811.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2020 09:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461088 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
2037-26-5	Toluene-d8 (Surr)	105		69-122
1868-53-7	Dibromofluoromethane (Surr)	80		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3811.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Nov-2020 09:35:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-004
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:56:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.049	-0.001	98	2329441	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	89	1508267	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	96	738100	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	442077	10.0	7.98	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	711896	10.0	9.31	
$ 6 Toluene-d8 (Surr)	98	6.400	6.401	-0.001	95	1963353	10.0	10.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	81	681931	10.0	10.4	
9 Dichlorodifluoromethane	85	1.443	1.444	-0.001	100	541729	10.0	8.48	
10 Chloromethane	50	1.586	1.598	-0.012	100	860496	10.0	11.3	
11 Vinyl chloride	62	1.692	1.693	-0.001	98	713955	10.0	9.44	
12 Butadiene	54	1.704	1.705	-0.001	96	753090	10.0	8.73	
13 Bromomethane	94	1.953	1.954	-0.001	91	403678	10.0	6.35	
14 Chloroethane	64	2.025	2.025	0.000	100	384742	10.0	6.50	
15 Dichlorofluoromethane	67	2.191	2.191	0.000	98	1167409	10.0	8.15	
16 Trichlorofluoromethane	101	2.238	2.238	0.000	99	764004	10.0	6.12	
17 Ethyl ether	59	2.451	2.452	-0.001	93	820586	10.0	12.8	
18 Acrolein	56	2.570	2.558	0.012	99	191632	50.0	38.1	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	657561	10.0	9.38	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.665	0.000	94	411972	10.0	7.79	
21 Acetone	58	2.689	2.689	0.000	99	135188	20.0	20.2	
22 Iodomethane	142	2.783	2.784	-0.001	99	754896	10.0	6.08	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1401930	10.0	7.23	
26 3-Chloro-1-propene	76	2.949	2.950	-0.001	86	391593	10.0	10.3	
27 Methyl acetate	43	2.949	2.950	-0.001	99	1126903	20.0	26.8	
28 Methylene Chloride	84	3.044	3.045	-0.001	98	705775	10.0	11.5	
29 2-Methyl-2-propanol	59	3.127	3.128	-0.001	86	242636	100.0	74.9	
30 Acrylonitrile	53	3.246	3.246	0.000	98	2731963	100.0	135.4	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	95	1616660	10.0	9.95	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	95	678738	10.0	10.6	
34 Hexane	86	3.483	3.483	0.000	95	117139	10.0	10.6	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	1250096	10.0	11.7	
36 Vinyl acetate	43	3.649	3.649	0.000	98	1200406	10.0	11.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	97	4.100	4.088	0.012	72	153505	10.0	9.25	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	94	714350	10.0	10.7	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	150188	20.0	22.6	
46 Chlorobromomethane	128	4.290	4.290	0.000	91	293795	10.0	8.98	
47 Tetrahydrofuran	42	4.337	4.337	0.000	90	386542	20.0	24.7	
48 Chloroform	83	4.349	4.349	0.000	94	1166369	10.0	10.9	
49 1,1,1-Trichloroethane	97	4.503	4.515	-0.012	96	813710	10.0	9.23	
50 Cyclohexane	56	4.550	4.551	-0.001	95	983704	10.0	11.6	
51 1,1-Dichloropropene	75	4.645	4.645	0.000	90	873133	10.0	10.1	
52 Carbon tetrachloride	117	4.645	4.645	0.000	75	595290	10.0	8.10	
53 Isobutyl alcohol	41	4.716	4.717	-0.001	90	471812	250.0	366.1	
55 Benzene	78	4.823	4.823	0.000	97	2960010	10.0	11.7	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	97	1055247	10.0	11.3	
58 n-Heptane	100	5.013	5.013	0.000	90	92936	10.0	9.12	
60 Trichloroethene	130	5.357	5.357	0.000	95	581100	10.0	8.52	
62 Methylcyclohexane	83	5.511	5.511	0.000	95	662341	10.0	9.54	
63 1,2-Dichloropropane	63	5.547	5.547	-0.001	95	718673	10.0	12.3	
66 1,4-Dioxane	88	5.653	5.653	0.000	30	67807	200.0	192.7	
65 Dibromomethane	93	5.653	5.653	0.000	88	374028	10.0	10.5	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	719883	10.0	10.4	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	316878	10.0	9.25	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	802639	10.0	9.50	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1126243	20.0	22.6	
72 Toluene	91	6.460	6.460	0.000	97	2808113	10.0	12.9	
73 trans-1,3-Dichloropropene	75	6.649	6.650	-0.001	99	634741	10.0	10.4	
74 Ethyl methacrylate	69	6.720	6.721	-0.001	90	628019	10.0	12.4	
75 1,1,2-Trichloroethane	97	6.815	6.816	-0.001	94	532622	10.0	13.7	
76 Tetrachloroethene	164	6.946	6.946	0.000	89	381187	10.0	9.53	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	96	1012872	10.0	14.0	
78 2-Hexanone	43	7.029	7.029	0.000	98	776394	20.0	28.7	
80 Chlorodibromomethane	129	7.183	7.183	0.000	91	372136	10.0	8.63	
82 Ethylene Dibromide	107	7.290	7.290	0.000	97	483152	10.0	12.1	
84 Chlorobenzene	112	7.740	7.741	-0.001	91	1559568	10.0	11.2	
85 1,1,1,2-Tetrachloroethane	131	7.811	7.812	-0.001	90	463815	10.0	10.3	
86 Ethylbenzene	106	7.835	7.835	0.000	99	812191	10.0	11.4	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	2081299	10.0	11.8	
88 o-Xylene	106	8.321	8.322	-0.001	98	965485	10.0	10.9	
89 Styrene	104	8.333	8.333	0.000	94	1659282	10.0	11.2	
90 Bromoform	173	8.523	8.523	0.000	93	170625	10.0	7.48	
91 Isopropylbenzene	105	8.665	8.666	-0.001	96	2179749	10.0	10.3	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	693952	10.0	16.1	
95 Bromobenzene	156	8.974	8.974	0.000	97	539937	10.0	11.0	
96 1,2,3-Trichloropropane	110	8.997	8.998	-0.001	91	216904	10.0	14.6	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	70	167909	10.0	12.8	
98 N-Propylbenzene	120	9.057	9.057	0.000	100	575170	10.0	12.2	
99 2-Chlorotoluene	126	9.151	9.152	-0.001	99	537648	10.0	11.9	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	-0.001	95	1844668	10.0	12.7	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2194550	10.0	14.3	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1274845	10.0	10.7	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1944924	10.0	12.8	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1831743	10.0	11.9	
108 1,3-Dichlorobenzene	146	9.887	9.887	0.000	95	1018372	10.0	11.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	9.910	9.911	-0.001	97	1558377	10.0	11.0	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	94	1084364	10.0	11.1	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1271042	10.0	11.4	
114 1,2-Dichlorobenzene	146	10.337	10.338	-0.001	94	1016252	10.0	10.9	
115 1,2-Dibromo-3-Chloropropane	157	11.120	11.108	0.012	69	66604	10.0	9.13	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	94	390530	10.0	7.82	
118 Hexachlorobutadiene	225	12.092	12.093	-0.001	89	130151	10.0	5.96	
119 Naphthalene	128	12.187	12.187	0.000	98	1188426	10.0	9.27	
120 1,2,3-Trichlorobenzene	180	12.424	12.425	-0.001	94	405058	10.0	8.95	
S 129 Xylenes, Total	106				0		20.0	22.7	
S 130 Total BTEX	1				0		50.0	58.6	
S 131 Trihalomethanes, Total	1				0		40.0	37.4	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00374	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

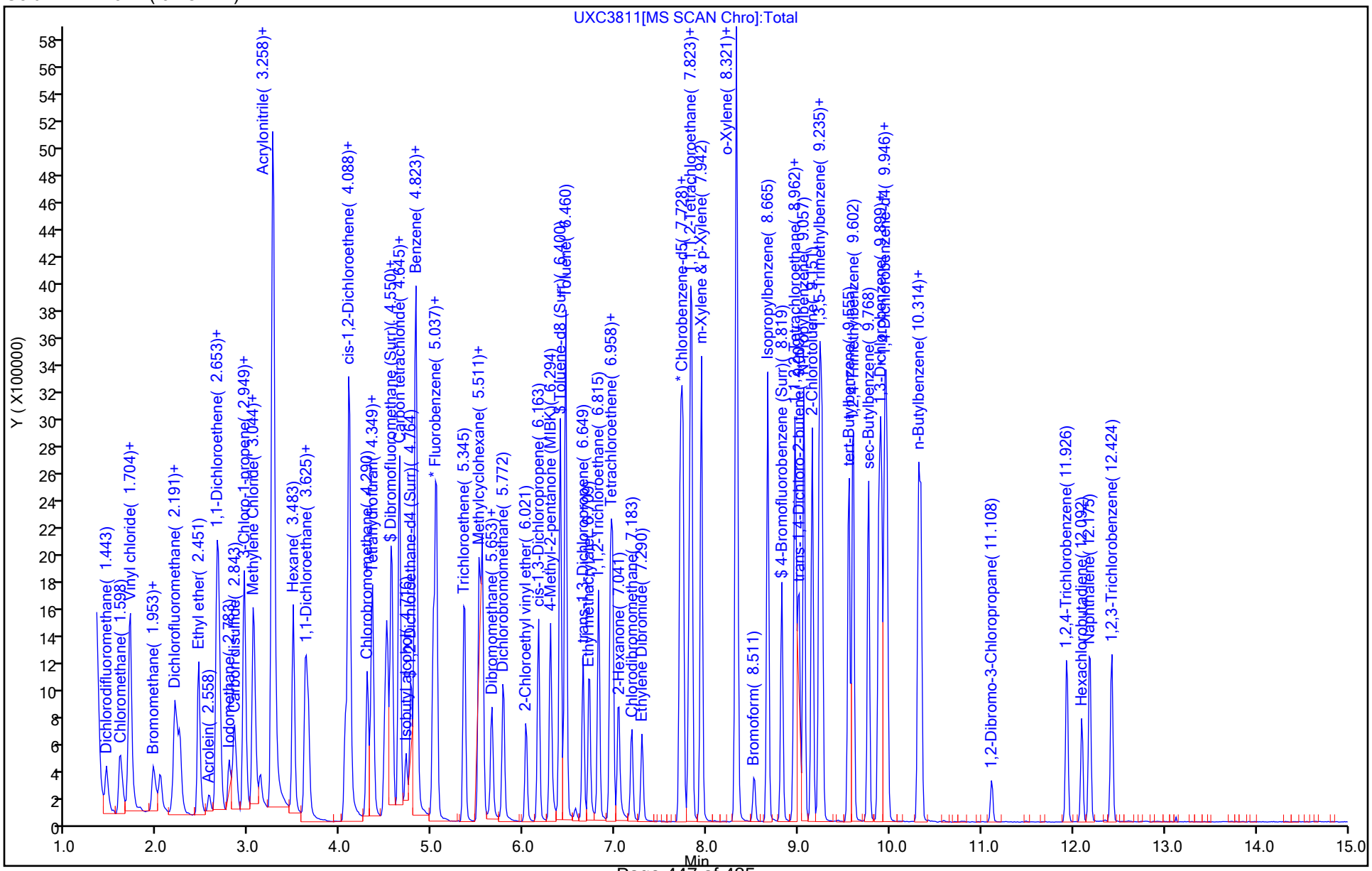
Report Date: 17-Nov-2020 08:56:20 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3811.D

Injection Date:	16-Nov-2020 09:35:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\UXC3811.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Nov-2020 09:35:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103981-004
Misc. Info.: C201116A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201116-103981.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 17-Nov-2020 08:56:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1672

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	7.98	79.81
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.31	93.15
$ 6 Toluene-d8 (Surr)	10.0	10.5	104.82
$ 7 4-Bromofluorobenzene (Surr)	10.0	10.4	103.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461535/4

Matrix: Water Lab File ID: UXC3873A.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	7.94		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	14.6		1.0	0.13
79-00-5	1,1,2-Trichloroethane	12.4		1.0	0.090
75-34-3	1,1-Dichloroethane	11.3		1.0	0.17
75-35-4	1,1-Dichloroethene	8.09		1.0	0.19
107-06-2	1,2-Dichloroethane	10.3		1.0	0.21
78-87-5	1,2-Dichloropropane	10.7		1.0	0.15
591-78-6	2-Hexanone	22.6		10	0.54
67-64-1	Acetone	21.9		10	5.4
71-43-2	Benzene	10.6		1.0	0.13
75-25-2	Bromoform	6.69		1.0	0.76
74-83-9	Bromomethane	8.04		1.0	0.42
75-15-0	Carbon disulfide	7.48		1.0	0.28
56-23-5	Carbon tetrachloride	6.57		1.0	0.26
108-90-7	Chlorobenzene	10.6		1.0	0.14
75-00-3	Chloroethane	9.79		1.0	0.83
67-66-3	Chloroform	10.7		1.0	0.13
74-87-3	Chloromethane	10.5		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	10.3		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	8.38		1.0	0.61
75-27-4	Dichlorobromomethane	8.98		1.0	0.17
100-41-4	Ethylbenzene	10.7		1.0	0.11
78-93-3	2-Butanone (MEK)	19.6		10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	19.8		10	0.42
75-09-2	Methylene Chloride	11.5		5.0	2.6
100-42-5	Styrene	10.5		1.0	0.10
127-18-4	Tetrachloroethene	8.90		1.0	0.15
108-88-3	Toluene	12.0		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	10.3		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	9.64		1.0	0.67
79-01-6	Trichloroethene	7.79		1.0	0.10
75-01-4	Vinyl chloride	8.91		1.0	0.20
1330-20-7	Xylenes, Total	22.0		2.0	0.15
124-48-1	Chlorodibromomethane	7.77		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461535/4

Matrix: Water Lab File ID: UXC3873A.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
2037-26-5	Toluene-d8 (Surr)	104		69-122
1868-53-7	Dibromofluoromethane (Surr)	81		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3873A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 10:19:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-004
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	98	2400699	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.705	0.000	90	1459109	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	765712	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	91	464938	10.0	8.14	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	751481	10.0	9.54	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1891035	10.0	10.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	80	633120	10.0	9.97	
9 Dichlorodifluoromethane	85	1.443	1.444	-0.001	99	588939	10.0	8.95	
10 Chloromethane	50	1.598	1.598	0.000	99	827925	10.0	10.5	
12 Butadiene	54	1.693	1.693	0.000	95	844885	10.0	9.51	
11 Vinyl chloride	62	1.681	1.693	-0.012	96	694284	10.0	8.91	
13 Bromomethane	94	1.942	1.942	0.000	91	526938	10.0	8.04	
14 Chloroethane	64	2.013	2.025	-0.012	100	597476	10.0	9.79	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	1302740	10.0	8.82	
16 Trichlorofluoromethane	101	2.214	2.226	-0.012	98	634487	10.0	4.93	
17 Ethyl ether	59	2.440	2.440	0.000	95	703715	10.0	10.7	
18 Acrolein	56	2.558	2.558	0.000	99	209982	50.0	40.5	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	94	584227	10.0	8.09	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.653	2.653	0.000	95	313587	10.0	5.76	
21 Acetone	58	2.677	2.677	0.000	99	149580	20.0	21.9	
22 Iodomethane	142	2.772	2.784	-0.012	99	857678	10.0	6.70	
24 Carbon disulfide	76	2.831	2.843	-0.012	100	1494784	10.0	7.48	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	395487	10.0	10.1	
27 Methyl acetate	43	2.950	2.950	0.000	99	1106461	20.0	25.5	
28 Methylene Chloride	84	3.033	3.045	-0.011	97	730232	10.0	11.5	
29 2-Methyl-2-propanol	59	3.116	3.116	0.000	93	404329	100.0	121.0	
30 Acrylonitrile	53	3.246	3.246	0.000	99	2733143	100.0	131.4	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	96	1672963	10.0	10.0	
32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	97	682648	10.0	10.3	
34 Hexane	86	3.471	3.471	0.000	95	102672	10.0	9.04	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	1246311	10.0	11.3	
36 Vinyl acetate	43	3.637	3.637	0.000	98	1058161	10.0	9.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	87	704285	10.0	10.3	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	62	134260	10.0	7.85	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	133827	20.0	19.6	
46 Chlorobromomethane	128	4.290	4.290	0.000	94	282393	10.0	8.38	
47 Tetrahydrofuran	42	4.325	4.325	0.000	89	355170	20.0	22.0	
48 Chloroform	83	4.349	4.349	0.000	94	1175756	10.0	10.7	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	96	721602	10.0	7.94	
50 Cyclohexane	56	4.550	4.551	-0.001	95	950294	10.0	10.9	
51 1,1-Dichloropropene	75	4.633	4.634	-0.001	90	818624	10.0	9.22	
52 Carbon tetrachloride	117	4.645	4.645	0.000	98	497980	10.0	6.57	
53 Isobutyl alcohol	41	4.716	4.717	-0.001	90	508021	250.0	382.5	
55 Benzene	78	4.811	4.811	0.000	97	2775829	10.0	10.6	
56 1,2-Dichloroethane	62	4.823	4.823	0.000	98	992007	10.0	10.3	
58 n-Heptane	100	5.013	5.013	0.000	90	77429	10.0	7.37	
60 Trichloroethene	130	5.345	5.345	0.000	94	547583	10.0	7.79	
62 Methylcyclohexane	83	5.511	5.511	0.000	95	644453	10.0	9.01	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	95	643957	10.0	10.7	
65 Dibromomethane	93	5.641	5.642	-0.001	96	346207	10.0	9.44	
66 1,4-Dioxane	88	5.653	5.653	0.000	97	86496	200.0	238.5	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	641225	10.0	8.98	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	260292	10.0	7.37	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	729375	10.0	8.38	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1018064	20.0	19.8	
72 Toluene	91	6.460	6.460	0.000	97	2530587	10.0	12.0	
73 trans-1,3-Dichloropropene	75	6.649	6.650	-0.001	99	570974	10.0	9.64	
74 Ethyl methacrylate	69	6.709	6.709	0.000	92	520546	10.0	10.7	
75 1,1,2-Trichloroethane	97	6.815	6.816	-0.001	94	466932	10.0	12.4	
76 Tetrachloroethene	164	6.946	6.946	0.000	89	344485	10.0	8.90	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	96	862932	10.0	12.3	
78 2-Hexanone	43	7.029	7.029	0.000	98	589778	20.0	22.6	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	321695	10.0	7.77	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	403139	10.0	10.4	
84 Chlorobenzene	112	7.740	7.740	0.000	91	1427704	10.0	10.6	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	439049	10.0	10.1	
86 Ethylbenzene	106	7.835	7.835	0.000	99	743297	10.0	10.7	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1931739	10.0	11.3	
88 o-Xylene	106	8.321	8.322	-0.001	99	918800	10.0	10.7	
89 Styrene	104	8.333	8.333	0.000	94	1504191	10.0	10.5	
90 Bromoform	173	8.523	8.511	0.012	94	144926	10.0	6.69	
91 Isopropylbenzene	105	8.665	8.665	0.000	97	2118917	10.0	10.3	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	651746	10.0	14.6	
95 Bromobenzene	156	8.974	8.974	0.000	97	515003	10.0	10.1	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	88	185303	10.0	12.0	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	70	166927	10.0	12.3	
98 N-Propylbenzene	120	9.057	9.057	0.000	100	543109	10.0	11.1	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	532310	10.0	11.4	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	93	1871441	10.0	12.4	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2107430	10.0	13.3	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1297682	10.0	10.5	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1979992	10.0	12.6	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1868570	10.0	11.7	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	95	1017959	10.0	10.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	9.910	9.911	-0.001	97	1640115	10.0	11.1	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	90	1092029	10.0	10.8	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1355778	10.0	11.7	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	94	1063588	10.0	11.0	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	66	63509	10.0	8.39	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	93	414728	10.0	8.01	
118 Hexachlorobutadiene	225	12.104	12.104	0.000	95	145218	10.0	6.47	
119 Naphthalene	128	12.187	12.187	0.000	98	1219862	10.0	9.17	
120 1,2,3-Trichlorobenzene	180	12.424	12.425	-0.001	94	416593	10.0	8.87	
S 129 Xylenes, Total	106				0		20.0	22.0	
S 130 Total BTEX	1				0		50.0	55.4	
S 131 Trihalomethanes, Total	1				0		40.0	34.1	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00374	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

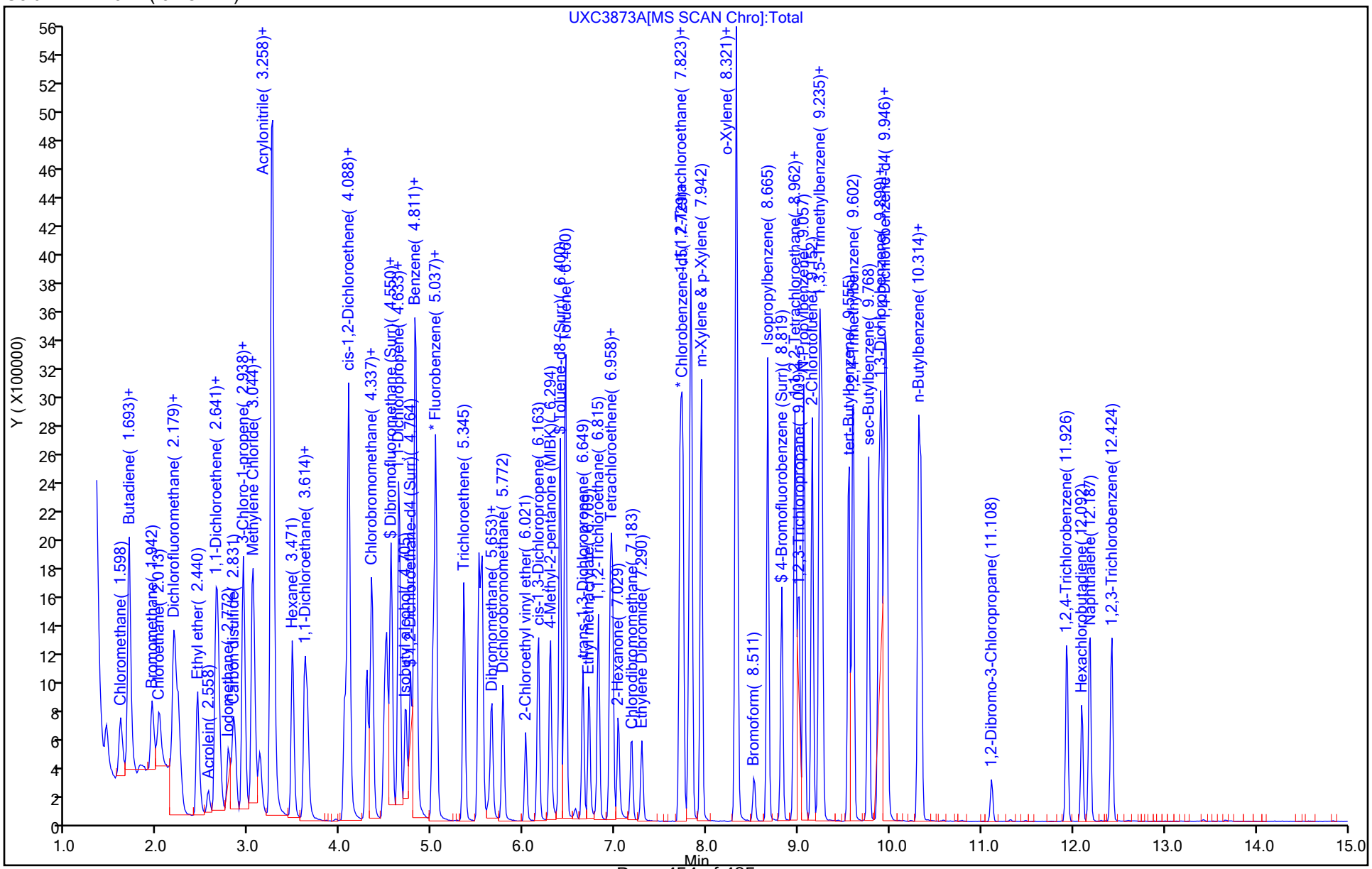
Report Date: 19-Nov-2020 05:38:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3873A.D

Injection Date:	18-Nov-2020 10:19:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3873A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 10:19:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0104072-004
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.14	81.45
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.54	95.41
$ 6 Toluene-d8 (Surr)	10.0	10.4	104.36
$ 7 4-Bromofluorobenzene (Surr)	10.0	9.97	99.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-015 MS Lab Sample ID: 240-139669-15 MS

Matrix: Water Lab File ID: UXC3880.D

Analysis Method: 8260B Date Collected: 11/05/2020 11:11

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:52

Soil Aliquot Vol: Dilution Factor: 33.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	204		33	8.0
79-34-5	1,1,2,2-Tetrachloroethane	441		33	4.3
79-00-5	1,1,2-Trichloroethane	389		33	3.0
75-34-3	1,1-Dichloroethane	321		33	5.7
75-35-4	1,1-Dichloroethene	212		33	6.3
107-06-2	1,2-Dichloroethane	324		33	7.0
78-87-5	1,2-Dichloropropane	321		33	5.0
591-78-6	2-Hexanone	681		330	18
67-64-1	Acetone	502		330	180
71-43-2	Benzene	298		33	4.3
75-25-2	Bromoform	213		33	25
74-83-9	Bromomethane	220		33	14
75-15-0	Carbon disulfide	167		33	9.3
56-23-5	Carbon tetrachloride	162		33	8.7
108-90-7	Chlorobenzene	307		33	4.7
75-00-3	Chloroethane	247		33	28
67-66-3	Chloroform	310		33	4.3
74-87-3	Chloromethane	281		33	6.7
156-59-2	cis-1,2-Dichloroethene	879		33	5.3
10061-01-5	cis-1,3-Dichloropropene	244		33	20
75-27-4	Dichlorobromomethane	276		33	5.7
100-41-4	Ethylbenzene	279		33	3.7
78-93-3	2-Butanone (MEK)	602		330	39
108-10-1	4-Methyl-2-pentanone (MIBK)	544		330	14
75-09-2	Methylene Chloride	352		170	87
100-42-5	Styrene	302		33	3.3
127-18-4	Tetrachloroethene	227		33	5.0
108-88-3	Toluene	334		33	4.7
156-60-5	trans-1,2-Dichloroethene	287		33	6.3
10061-02-6	trans-1,3-Dichloropropene	289		33	22
79-01-6	Trichloroethene	225		33	3.3
75-01-4	Vinyl chloride	204		33	6.7
1330-20-7	Xylenes, Total	586		67	5.0
124-48-1	Chlorodibromomethane	248		33	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-015 MS Lab Sample ID: 240-139669-15 MS

Matrix: Water Lab File ID: UXC3880.D

Analysis Method: 8260B Date Collected: 11/05/2020 11:11

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:52

Soil Aliquot Vol: Dilution Factor: 33.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
2037-26-5	Toluene-d8 (Surr)	106		69-122
1868-53-7	Dibromofluoromethane (Surr)	83		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3880.D
Lims ID: 240-139669-B-15 MS
Client ID: GW-110520-BE-015
Sample Type: MS
Inject. Date: 18-Nov-2020 12:52:30 ALS Bottle#: 9 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 33.3300
Sample Info: 240-0104072-037
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	98	2298218	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.705	0.000	91	1370857	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	96	713939	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	452858	10.0	8.29	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	715610	10.0	9.49	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1804957	10.0	10.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	589984	10.0	9.89	
10 Chloromethane	50	1.598	1.598	0.000	99	634487	10.0	8.43	
11 Vinyl chloride	62	1.681	1.693	-0.012	98	457157	10.0	6.13	
13 Bromomethane	94	1.942	1.942	0.000	90	413328	10.0	6.59	
14 Chloroethane	64	2.025	2.025	0.000	100	433070	10.0	7.41	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	94	438924	10.0	6.35	
21 Acetone	58	2.677	2.677	0.000	98	103360	20.0	15.0	
24 Carbon disulfide	76	2.843	2.843	0.000	100	961065	10.0	5.02	
28 Methylene Chloride	84	3.033	3.045	-0.011	97	639534	10.0	10.6	
32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	99	543625	10.0	8.60	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	1013613	10.0	9.64	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	85	1735116	10.0	26.4	
40 2-Butanone (MEK)	72	4.088	4.100	-0.012	99	118207	20.0	18.1	
48 Chloroform	83	4.349	4.349	0.000	94	980549	10.0	9.29	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	95	533509	10.0	6.13	
52 Carbon tetrachloride	117	4.645	4.645	0.000	94	352593	10.0	4.86	
55 Benzene	78	4.811	4.811	0.000	97	2233562	10.0	8.93	
56 1,2-Dichloroethane	62	4.823	4.823	0.000	97	892288	10.0	9.72	
60 Trichloroethene	130	5.345	5.345	0.000	95	454334	10.0	6.75	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	554661	10.0	9.62	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	565085	10.0	8.27	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	91	611148	10.0	7.34	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	802225	20.0	16.3	
72 Toluene	91	6.460	6.460	0.000	98	1982839	10.0	10.0	
73 trans-1,3-Dichloropropene	75	6.649	6.650	-0.001	99	482319	10.0	8.66	
75 1,1,2-Trichloroethane	97	6.815	6.816	-0.001	96	411727	10.0	11.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
76 Tetrachloroethene	164	6.946	6.946	0.000	89	247656	10.0	6.81	
78 2-Hexanone	43	7.029	7.029	0.000	99	501624	20.0	20.4	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	288230	10.0	7.43	
84 Chlorobenzene	112	7.740	7.740	0.000	96	1165229	10.0	9.22	
86 Ethylbenzene	106	7.835	7.835	0.000	99	542845	10.0	8.36	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1425776	10.0	8.88	
88 o-Xylene	106	8.322	8.322	0.000	96	701957	10.0	8.71	
89 Styrene	104	8.333	8.333	0.000	94	1217263	10.0	9.07	
90 Bromoform	173	8.523	8.511	0.012	94	129266	10.0	6.40	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	550052	10.0	13.2	
S 129 Xylenes, Total	106				0		20.0	17.6	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00374	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

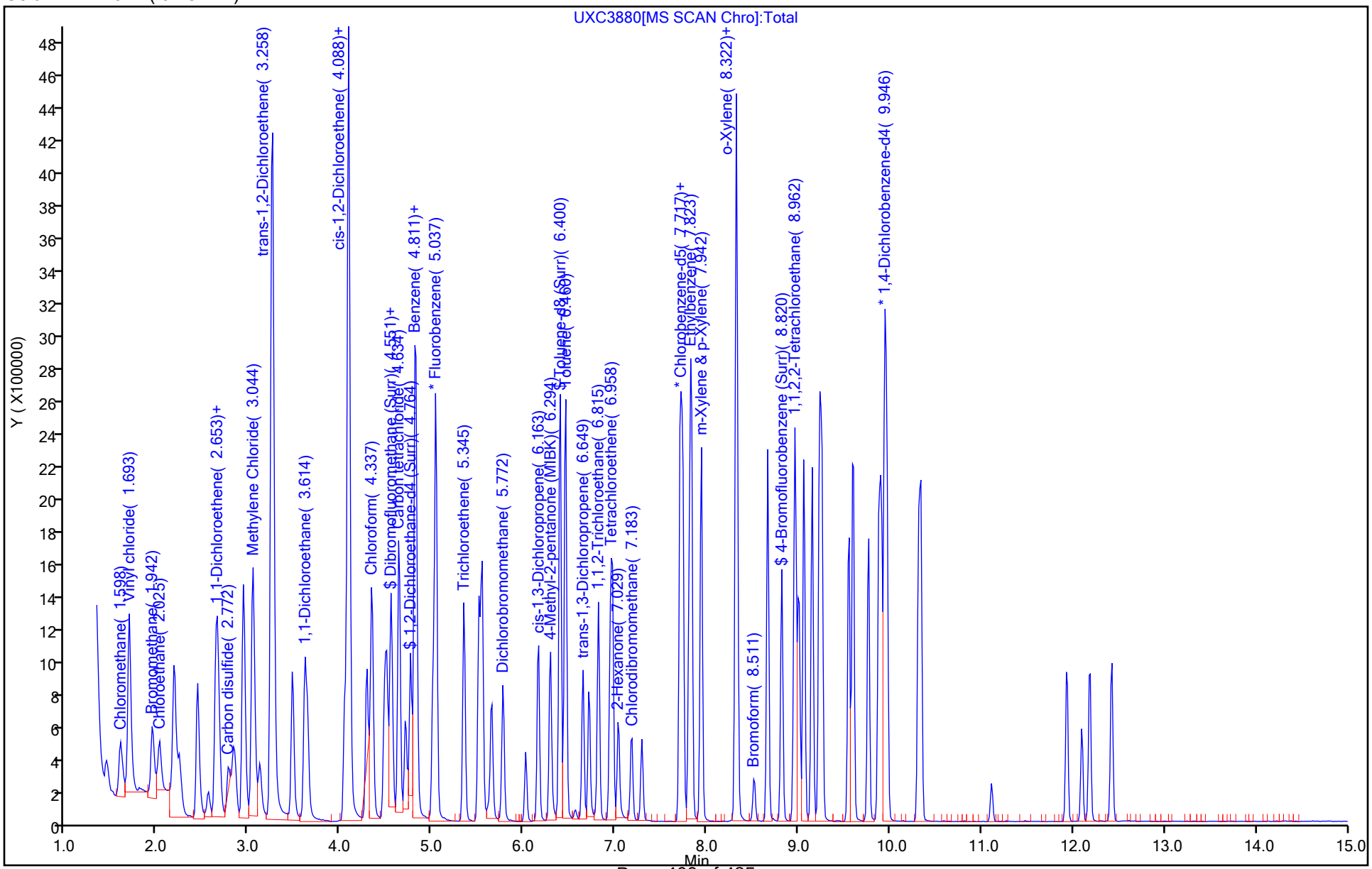
Report Date: 19-Nov-2020 05:38:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3880.D

Injection Date:	18-Nov-2020 12:52:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-15 MS			Worklist Smp#:	37
Client ID:	GW-110520-BE-015				
Purge Vol:	5.000 mL	Dil. Factor:	33.3300	ALS Bottle#:	9
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3880.D
Lims ID: 240-139669-B-15 MS
Client ID: GW-110520-BE-015
Sample Type: MS
Inject. Date: 18-Nov-2020 12:52:30 ALS Bottle#: 9 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 33.3300
Sample Info: 240-0104072-037
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.29	82.87
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.49	94.91
$ 6 Toluene-d8 (Surr)	10.0	10.6	106.02
$ 7 4-Bromofluorobenzene (Surr)	10.0	9.89	98.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-015 MSD Lab Sample ID: 240-139669-15 MSD

Matrix: Water Lab File ID: UXC3881.D

Analysis Method: 8260B Date Collected: 11/05/2020 11:11

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:13

Soil Aliquot Vol: Dilution Factor: 33.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	225		33	8.0
79-34-5	1,1,2,2-Tetrachloroethane	439		33	4.3
79-00-5	1,1,2-Trichloroethane	383		33	3.0
75-34-3	1,1-Dichloroethane	332		33	5.7
75-35-4	1,1-Dichloroethene	247		33	6.3
107-06-2	1,2-Dichloroethane	330		33	7.0
78-87-5	1,2-Dichloropropane	338		33	5.0
591-78-6	2-Hexanone	722		330	18
67-64-1	Acetone	586		330	180
71-43-2	Benzene	315		33	4.3
75-25-2	Bromoform	212		33	25
74-83-9	Bromomethane	274		33	14
75-15-0	Carbon disulfide	200		33	9.3
56-23-5	Carbon tetrachloride	182		33	8.7
108-90-7	Chlorobenzene	321		33	4.7
75-00-3	Chloroethane	314		33	28
67-66-3	Chloroform	318		33	4.3
74-87-3	Chloromethane	345		33	6.7
156-59-2	cis-1,2-Dichloroethene	878		33	5.3
10061-01-5	cis-1,3-Dichloropropene	258		33	20
75-27-4	Dichlorobromomethane	285		33	5.7
100-41-4	Ethylbenzene	291		33	3.7
78-93-3	2-Butanone (MEK)	623		330	39
108-10-1	4-Methyl-2-pentanone (MIBK)	580		330	14
75-09-2	Methylene Chloride	352		170	87
100-42-5	Styrene	316		33	3.3
127-18-4	Tetrachloroethene	247		33	5.0
108-88-3	Toluene	350		33	4.7
156-60-5	trans-1,2-Dichloroethene	304		33	6.3
10061-02-6	trans-1,3-Dichloropropene	299		33	22
79-01-6	Trichloroethene	237		33	3.3
75-01-4	Vinyl chloride	293		33	6.7
1330-20-7	Xylenes, Total	628		67	5.0
124-48-1	Chlorodibromomethane	243		33	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Client Sample ID: GW-110520-BE-015 MSD Lab Sample ID: 240-139669-15 MSD

Matrix: Water Lab File ID: UXC3881.D

Analysis Method: 8260B Date Collected: 11/05/2020 11:11

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:13

Soil Aliquot Vol: Dilution Factor: 33.33

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461535 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
2037-26-5	Toluene-d8 (Surr)	105		69-122
1868-53-7	Dibromofluoromethane (Surr)	83		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3881.D
Lims ID: 240-139669-B-15 MSD
Client ID: GW-110520-BE-015
Sample Type: MSD
Inject. Date: 18-Nov-2020 13:13:30 ALS Bottle#: 10 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 33.3300
Sample Info: 240-0104072-038
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	98	2344815	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.705	0.000	92	1447169	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	751363	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	92	460968	10.0	8.27	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	757418	10.0	9.85	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1891930	10.0	10.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	633050	10.0	10.1	
10 Chloromethane	50	1.598	1.598	0.000	99	794144	10.0	10.3	
11 Vinyl chloride	62	1.693	1.693	0.000	64	668364	10.0	8.78	
13 Bromomethane	94	1.942	1.942	0.000	91	525634	10.0	8.21	
14 Chloroethane	64	2.013	2.025	-0.012	100	562369	10.0	9.43	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	94	522247	10.0	7.40	
21 Acetone	58	2.677	2.677	0.000	99	120499	20.0	17.6	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1174201	10.0	6.01	
28 Methylene Chloride	84	3.033	3.045	-0.011	97	652983	10.0	10.6	
32 trans-1,2-Dichloroethene	96	3.258	3.258	0.000	75	588558	10.0	9.13	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	1069688	10.0	9.97	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	86	1768532	10.0	26.4	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	124930	20.0	18.7	
48 Chloroform	83	4.349	4.349	0.000	94	1026532	10.0	9.54	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	96	597800	10.0	6.74	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	403343	10.0	5.45	
55 Benzene	78	4.811	4.811	0.000	97	2412519	10.0	9.46	
56 1,2-Dichloroethane	62	4.823	4.823	0.000	98	927791	10.0	9.91	
60 Trichloroethene	130	5.345	5.345	0.000	94	488504	10.0	7.12	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	95	596505	10.0	10.1	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	596965	10.0	8.56	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	658231	10.0	7.74	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	872598	20.0	17.4	
72 Toluene	91	6.460	6.460	0.000	97	2194559	10.0	10.5	
73 trans-1,3-Dichloropropene	75	6.649	6.650	-0.001	99	526561	10.0	8.96	
75 1,1,2-Trichloroethane	97	6.815	6.816	-0.001	94	428170	10.0	11.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
76 Tetrachloroethene	164	6.946	6.946	0.000	90	284414	10.0	7.41	
78 2-Hexanone	43	7.029	7.029	0.000	99	561518	20.0	21.7	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	298327	10.0	7.30	
84 Chlorobenzene	112	7.740	7.740	0.000	91	1283980	10.0	9.63	
86 Ethylbenzene	106	7.835	7.835	0.000	100	598969	10.0	8.73	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1617896	10.0	9.55	
88 o-Xylene	106	8.321	8.322	-0.001	99	791586	10.0	9.30	
89 Styrene	104	8.333	8.333	0.000	94	1344694	10.0	9.49	
90 Bromoform	173	8.511	8.511	0.000	92	135515	10.0	6.36	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	577248	10.0	13.2	
S 129 Xylenes, Total	106				0		20.0	18.9	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00374	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

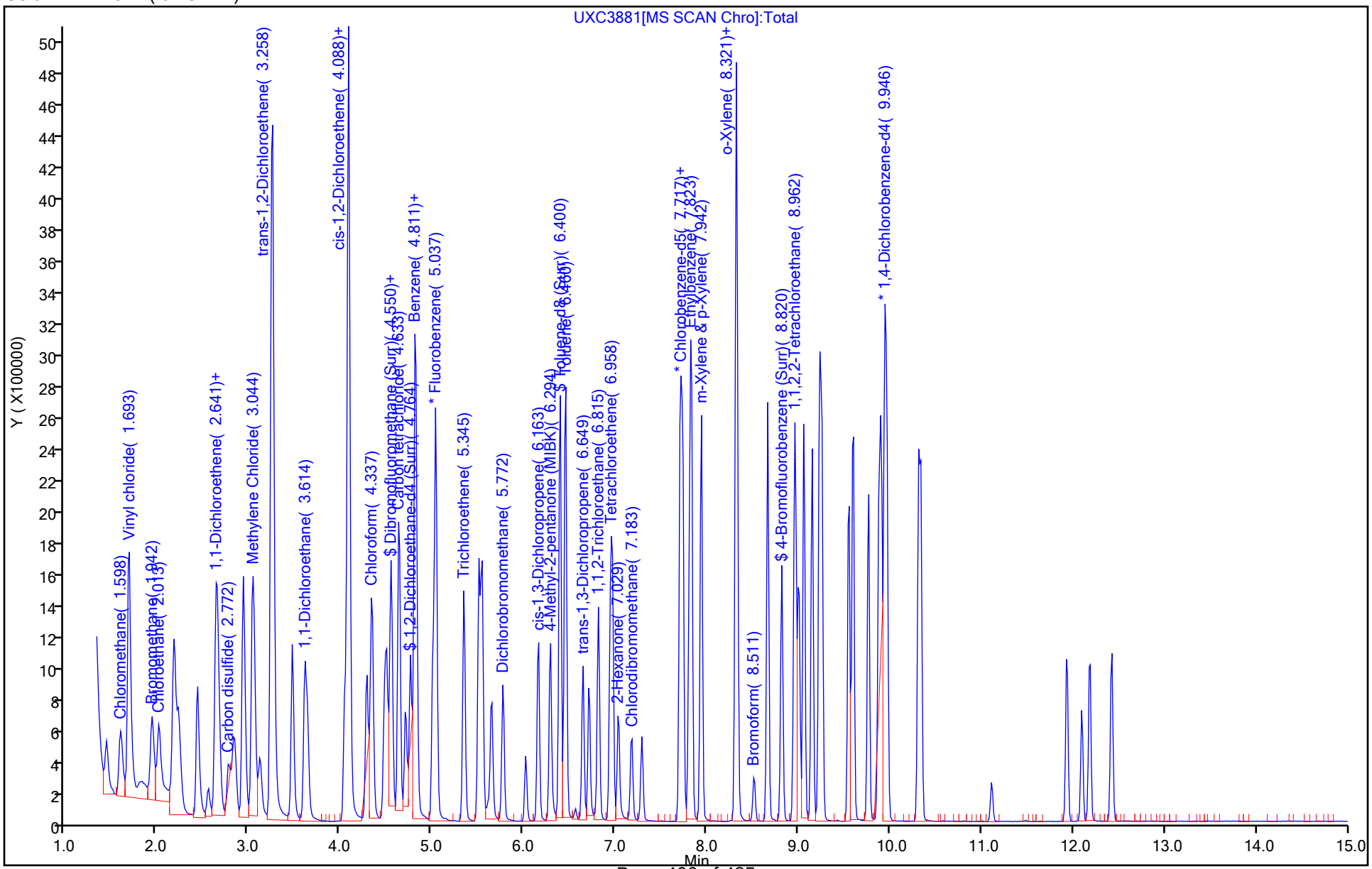
Report Date: 19-Nov-2020 05:38:56 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3881.D

Injection Date:	18-Nov-2020 13:13:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139669-B-15 MSD			Worklist Smp#:	38
Client ID:	GW-110520-BE-015				
Purge Vol:	5.000 mL	Dil. Factor:	33.3300	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\UXC3881.D
Lims ID: 240-139669-B-15 MSD
Client ID: GW-110520-BE-015
Sample Type: MSD
Inject. Date: 18-Nov-2020 13:13:30 ALS Bottle#: 10 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 33.3300
Sample Info: 240-0104072-038
Misc. Info.: C201118A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201118-104072.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 19-Nov-2020 05:38:39 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1674

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.27	82.68
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.85	98.46
$ 6 Toluene-d8 (Surr)	10.0	10.5	105.27
$ 7 4-Bromofluorobenzene (Surr)	10.0	10.1	100.54

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Instrument ID: A3UX15 Start Date: 07/15/2020 07:58

Analysis Batch Number: 442673 End Date: 07/15/2020 14:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-442673/1		07/15/2020 07:58	1	BFB715.D	DB-624 0.18(mm)
STD8260 240-442673/2 IC		07/15/2020 08:39	1	UXC0317.D	DB-624 0.18(mm)
STD8260 240-442673/3 IC		07/15/2020 09:01	1	UXC0318.D	DB-624 0.18(mm)
STD8260 240-442673/4 ICIS		07/15/2020 09:23	1	UXC0319.D	DB-624 0.18(mm)
STD8260 240-442673/5 IC		07/15/2020 09:45	1	UXC0320.D	DB-624 0.18(mm)
STD8260 240-442673/6 IC		07/15/2020 10:07	1	UXC0321.D	DB-624 0.18(mm)
STD8260 240-442673/7 IC		07/15/2020 10:29	1	UXC0322.D	DB-624 0.18(mm)
ICV 240-442673/14		07/15/2020 10:50	1	UXC0323.D	DB-624 0.18(mm)
STD 240-442673/8 IC		07/15/2020 11:12	1	UXC0324.D	DB-624 0.18(mm)
STD 240-442673/9 IC		07/15/2020 11:34	1	UXC0325.D	DB-624 0.18(mm)
STD 240-442673/10 IC		07/15/2020 11:56	1	UXC0326.D	DB-624 0.18(mm)
STD 240-442673/11 IC		07/15/2020 12:17	1	UXC0327.D	DB-624 0.18(mm)
STD 240-442673/12 IC		07/15/2020 12:39	1	UXC0328.D	DB-624 0.18(mm)
STD 240-442673/13 IC		07/15/2020 13:01	1	UXC0329.D	DB-624 0.18(mm)
ICV 240-442673/15		07/15/2020 13:23	1	UXC0330.D	DB-624 0.18(mm)
MRL 240-442673/16 MDLV		07/15/2020 13:45	1		DB-624 0.18(mm)
MRL 240-442673/17 MDLV		07/15/2020 14:06	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Instrument ID: A3UX15 Start Date: 11/15/2020 07:23

Analysis Batch Number: 461048 End Date: 11/15/2020 18:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-461048/1		11/15/2020 07:23	1	BFB1115A.D	DB-624 0.18(mm)
CCVIS 240-461048/2		11/15/2020 07:53	1	UXC3779.D	DB-624 0.18(mm)
LCS 240-461048/4		11/15/2020 08:15	1	UXC3780.D	DB-624 0.18(mm)
CCV 240-461048/3		11/15/2020 08:37	1	UXC3781.D	DB-624 0.18(mm)
MRL 240-461048/5 MDLV		11/15/2020 09:21	1		DB-624 0.18(mm)
MRL 240-461048/6 MDLV		11/15/2020 09:43	1		DB-624 0.18(mm)
MB 240-461048/7		11/15/2020 10:05	1	UXC3785.D	DB-624 0.18(mm)
ZZZZZ		11/15/2020 11:54	2		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:16	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:38	2		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:59	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 13:21	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 13:43	1		DB-624 0.18(mm)
240-139669-1	GW-110320-SS-001	11/15/2020 14:05	1	UXC3796.D	DB-624 0.18(mm)
240-139669-2	GW-110320-BE-002	11/15/2020 14:27	1	UXC3797.D	DB-624 0.18(mm)
240-139669-3	GW-110320-SS-003	11/15/2020 14:49	1	UXC3798.D	DB-624 0.18(mm)
240-139669-5	GW-110320-SS-005	11/15/2020 15:32	1	UXC3800.D	DB-624 0.18(mm)
240-139669-6	GW-110320-BE-006	11/15/2020 15:54	142.86	UXC3801.D	DB-624 0.18(mm)
240-139669-7	GW-110320-SS-007	11/15/2020 16:16	333.33	UXC3802.D	DB-624 0.18(mm)
240-139669-8	GW-110320-BE-008	11/15/2020 16:38	142.86	UXC3803.D	DB-624 0.18(mm)
ZZZZZ		11/15/2020 17:21	10		DB-624 0.18(mm)
ZZZZZ		11/15/2020 17:43	10		DB-624 0.18(mm)
ZZZZZ		11/15/2020 18:05	10		DB-624 0.18(mm)
ZZZZZ		11/15/2020 18:27	10		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Instrument ID: A3UX15 Start Date: 11/16/2020 08:49

Analysis Batch Number: 461088 End Date: 11/16/2020 20:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-461088/1		11/16/2020 08:49	1	BFB1116B.D	DB-624 0.18(mm)
LCS 240-461088/4		11/16/2020 09:35	1	UXC3811.D	DB-624 0.18(mm)
CCVIS 240-461088/2		11/16/2020 09:58	1	UXC3812.D	DB-624 0.18(mm)
CCV 240-461088/3		11/16/2020 10:20	1	UXC3813.D	DB-624 0.18(mm)
MRL 240-461088/5 MDLV		11/16/2020 10:42	1		DB-624 0.18(mm)
MRL 240-461088/6 MDLV		11/16/2020 11:03	1		DB-624 0.18(mm)
MB 240-461088/7		11/16/2020 11:25	1	UXC3816.D	DB-624 0.18(mm)
ZZZZZ		11/16/2020 11:47	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 12:09	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 12:31	20		DB-624 0.18(mm)
ZZZZZ		11/16/2020 12:53	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 13:15	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 13:36	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 14:42	5		DB-624 0.18(mm)
ZZZZZ		11/16/2020 15:53	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 16:19	1		DB-624 0.18(mm)
240-139669-4	GW-110320-BE-004	11/16/2020 16:46	50	UXC3828.D	DB-624 0.18(mm)
240-139669-9	GW-110320-BE-009	11/16/2020 17:13	333.33	UXC3829.D	DB-624 0.18(mm)
240-139669-10	GW-110420-BE-010	11/16/2020 17:40	2.5	UXC3830.D	DB-624 0.18(mm)
240-139669-11	GW-110420-BE-011	11/16/2020 18:06	1	UXC3831.D	DB-624 0.18(mm)
240-139669-12	GW-110420-BE-012	11/16/2020 18:33	1	UXC3832.D	DB-624 0.18(mm)
240-139669-13	GW-110420-BE-013	11/16/2020 19:00	1	UXC3833.D	DB-624 0.18(mm)
ZZZZZ		11/16/2020 19:27	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 19:53	2.5		DB-624 0.18(mm)
ZZZZZ		11/16/2020 20:20	1		DB-624 0.18(mm)
ZZZZZ		11/16/2020 20:47	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Instrument ID: A3UX15 Start Date: 11/18/2020 09:35

Analysis Batch Number: 461535 End Date: 11/18/2020 20:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-461535/1		11/18/2020 09:35	1	BFB1118G.D	DB-624 0.18(mm)
CCVIS 240-461535/2		11/18/2020 09:57	1	UXC3872A.D	DB-624 0.18(mm)
LCS 240-461535/4		11/18/2020 10:19	1	UXC3873A.D	DB-624 0.18(mm)
CCV 240-461535/3		11/18/2020 10:40	1	UXC3874A.D	DB-624 0.18(mm)
MRL 240-461535/5 MDLV		11/18/2020 11:02	1		DB-624 0.18(mm)
MRL 240-461535/6 MDLV		11/18/2020 11:24	1		DB-624 0.18(mm)
MB 240-461535/7		11/18/2020 11:46	1	UXC3877.D	DB-624 0.18(mm)
240-139669-14	GW-110520-BE-014	11/18/2020 12:08	1	UXC3878.D	DB-624 0.18(mm)
240-139669-15	GW-110520-BE-015	11/18/2020 12:30	33.33	UXC3879.D	DB-624 0.18(mm)
240-139669-15 MS	GW-110520-BE-015 MS	11/18/2020 12:52	33.33	UXC3880.D	DB-624 0.18(mm)
240-139669-15 MSD	GW-110520-BE-015 MSD	11/18/2020 13:13	33.33	UXC3881.D	DB-624 0.18(mm)
240-139669-16	GW-110520-BE-016	11/18/2020 13:35	1	UXC3882.D	DB-624 0.18(mm)
240-139669-17	GW-110520-BE-017	11/18/2020 13:57	1	UXC3883.D	DB-624 0.18(mm)
240-139669-18	EB-110520-BE-001	11/18/2020 14:19	1	UXC3884.D	DB-624 0.18(mm)
240-139669-19	GW-110520-BE-018	11/18/2020 14:41	66.67	UXC3885.D	DB-624 0.18(mm)
240-139669-20	TB-110520-BE-002	11/18/2020 15:03	1	UXC3886.D	DB-624 0.18(mm)
ZZZZZ		11/18/2020 16:30	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 16:52	1.67		DB-624 0.18(mm)
ZZZZZ		11/18/2020 17:14	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 17:36	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 17:58	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 18:19	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 18:41	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 19:03	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 19:25	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 19:47	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 20:08	20		DB-624 0.18(mm)
ZZZZZ		11/18/2020 20:30	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 442673 Batch Start Date: 07/15/20 07:58 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VM50is 00084	vm50ss_stk 00085	VMAROLISTDW 00352	vmbfb 00025
BFB 240-442673/1		8260B		5 mL	5 mL				1 uL
STD8260 240-442673/2 IC		8260B		5 mL	5 mL	1 uL	32 uL	32 uL	
STD8260 240-442673/3 IC		8260B		5 mL	5 mL	1 uL	16 uL	16 uL	
STD8260 240-442673/4 ICIS		8260B		5 mL	5 mL	1 uL	8 uL	8 uL	
STD8260 240-442673/5 IC		8260B		5 mL	5 mL	1 uL	4 uL	4 uL	
STD8260 240-442673/6 IC		8260B		5 mL	5 mL	1 uL	1.6 uL	1.6 uL	
STD8260 240-442673/7 IC		8260B		5 mL	5 mL	1 uL	0.8 uL	0.8 uL	
STD 240-442673/8 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/9 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/10 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/11 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/12 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/13 IC		8260B		5 mL	5 mL	1 uL			
ICV 240-442673/14		8260B		5 mL	5 mL	1 uL	1 uL		
ICV 240-442673/15		8260B		5 mL	5 mL	1 uL	1 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00284	VMFASAW 00335	VMFASGW 00366	VMFASPW 00358	VMRA9W 00352	VMRGAS 00346
BFB 240-442673/1		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 442673 Batch Start Date: 07/15/20 07:58 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00284	VMFASAW 00335	VMFASGW 00366	VMFASPW 00358	VMRA9W 00352	VMRGAS 00346
STD8260 240-442673/2 IC		8260B							32 uL
STD8260 240-442673/3 IC		8260B							16 uL
STD8260 240-442673/4 ICIS		8260B							8 uL
STD8260 240-442673/5 IC		8260B							4 uL
STD8260 240-442673/6 IC		8260B							1.6 uL
STD8260 240-442673/7 IC		8260B							0.8 uL
STD 240-442673/8 IC		8260B						32 uL	
STD 240-442673/9 IC		8260B						16 uL	
STD 240-442673/10 IC		8260B						8 uL	
STD 240-442673/11 IC		8260B						4 uL	
STD 240-442673/12 IC		8260B						1.6 uL	
STD 240-442673/13 IC		8260B						0.8 uL	
ICV 240-442673/14		8260B			8 uL	8 uL	8 uL		
ICV 240-442673/15		8260B		8 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRPRIMW 00393					
BFB 240-442673/1		8260B							
STD8260 240-442673/2 IC		8260B		32 uL					
STD8260 240-442673/3 IC		8260B		16 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 442673 Batch Start Date: 07/15/20 07:58 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRPRIMW 00393					
STD8260 240-442673/4 ICIS		8260B		8 uL					
STD8260 240-442673/5 IC		8260B		4 uL					
STD8260 240-442673/6 IC		8260B		1.6 uL					
STD8260 240-442673/7 IC		8260B		0.8 uL					
STD 240-442673/8 IC		8260B							
STD 240-442673/9 IC		8260B							
STD 240-442673/10 IC		8260B							
STD 240-442673/11 IC		8260B							
STD 240-442673/12 IC		8260B							
STD 240-442673/13 IC		8260B							
ICV 240-442673/14		8260B							
ICV 240-442673/15		8260B							

Batch Notes	
pH Indicator ID	HC861525

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461048 Batch Start Date: 11/15/20 07:23 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VM50IS 00084	VM50IS 00085	vm50ss_stk 00086
BFB 240-461048/1		8260B		5 mL	5 mL				
CCVIS 240-461048/2		8260B		5 mL	5 mL			1 uL	1 uL
CCV 240-461048/3		8260B		5 mL	5 mL		1 uL		
LCS 240-461048/4		8260B		5 mL	5 mL			1 uL	1 uL
MB 240-461048/7		8260B		5 mL	5 mL			1 uL	1 uL
240-139669-B-1	GW-110320-SS-001	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-2	GW-110320-BE-002	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-3	GW-110320-SS-003	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-5	GW-110320-SS-005	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-6	GW-110320-BE-006	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-7	GW-110320-SS-007	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-8	GW-110320-BE-008	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMAROLISTDW 00368	vmbfb 00025	VMFASAW 00351	VMFASGW 00384	VMFASPW 00373	VMRA9W 00368
BFB 240-461048/1		8260B			1 uL				
CCVIS 240-461048/2		8260B		8 uL					
CCV 240-461048/3		8260B							8 uL
LCS 240-461048/4		8260B				8 uL	8 uL	8 uL	
MB 240-461048/7		8260B							
240-139669-B-1	GW-110320-SS-001	8260B	T						
240-139669-B-2	GW-110320-BE-002	8260B	T						
240-139669-B-3	GW-110320-SS-003	8260B	T						
240-139669-B-5	GW-110320-SS-005	8260B	T						
240-139669-B-6	GW-110320-BE-006	8260B	T						
240-139669-B-7	GW-110320-SS-007	8260B	T						
240-139669-B-8	GW-110320-BE-008	8260B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461048 Batch Start Date: 11/15/20 07:23 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRGAS 00362	VMRPRIMW 00411				
BFB 240-461048/1		8260B							
CCVIS 240-461048/2		8260B		8 uL	8 uL				
CCV 240-461048/3		8260B							
LCS 240-461048/4		8260B							
MB 240-461048/7		8260B							
240-139669-B-1	GW-110320-SS-001	8260B	T						
240-139669-B-2	GW-110320-BE-002	8260B	T						
240-139669-B-3	GW-110320-SS-003	8260B	T						
240-139669-B-5	GW-110320-SS-005	8260B	T						
240-139669-B-6	GW-110320-BE-006	8260B	T						
240-139669-B-7	GW-110320-SS-007	8260B	T						
240-139669-B-8	GW-110320-BE-008	8260B	T						

Batch Notes	
pH Indicator ID	hc907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461088 Batch Start Date: 11/16/20 08:49 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VM50IS 00084	VM50IS 00085	vm50ss_stk 00086
BFB 240-461088/1		8260B		5 mL	5 mL				
CCVIS 240-461088/2		8260B		5 mL	5 mL			1 uL	1 uL
CCV 240-461088/3		8260B		5 mL	5 mL		1 uL		
LCS 240-461088/4		8260B		5 mL	5 mL			1 uL	1 uL
MB 240-461088/7		8260B		5 mL	5 mL			1 uL	1 uL
240-139669-A-4	GW-110320-BE-004	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-A-9	GW-110320-BE-009	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-10	GW-110420-BE-010	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-11	GW-110420-BE-011	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-12	GW-110420-BE-012	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-13	GW-110420-BE-013	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMAROLISTDW 00368	vmbfb 00025	VMFASAW 00351	VMFASGW 00384	VMFASPW 00374	VMRA9W 00368
BFB 240-461088/1		8260B			1 uL				
CCVIS 240-461088/2		8260B		8 uL					
CCV 240-461088/3		8260B							8 uL
LCS 240-461088/4		8260B				8 uL	8 uL	8 uL	
MB 240-461088/7		8260B							
240-139669-A-4	GW-110320-BE-004	8260B	T						
240-139669-A-9	GW-110320-BE-009	8260B	T						
240-139669-B-10	GW-110420-BE-010	8260B	T						
240-139669-B-11	GW-110420-BE-011	8260B	T						
240-139669-B-12	GW-110420-BE-012	8260B	T						
240-139669-B-13	GW-110420-BE-013	8260B	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRGAS 00362	VMRPRIMW 00411				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461088 Batch Start Date: 11/16/20 08:49 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRGAS 00362	VMRPRIMW 00411				
BFB 240-461088/1		8260B							
CCVIS 240-461088/2		8260B		8 uL	8 uL				
CCV 240-461088/3		8260B							
LCS 240-461088/4		8260B							
MB 240-461088/7		8260B							
240-139669-A-4	GW-110320-BE-004	8260B	T						
240-139669-A-9	GW-110320-BE-009	8260B	T						
240-139669-B-10	GW-110420-BE-010	8260B	T						
240-139669-B-11	GW-110420-BE-011	8260B	T						
240-139669-B-12	GW-110420-BE-012	8260B	T						
240-139669-B-13	GW-110420-BE-013	8260B	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461535 Batch Start Date: 11/18/20 09:35 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VM50IS 00084	VM50IS 00085	vm50ss_stk 00086
BFB 240-461535/1		8260B		5 mL	5 mL				
CCVIS 240-461535/2		8260B		5 mL	5 mL			1 uL	1 uL
CCV 240-461535/3		8260B		5 mL	5 mL		1 uL		
LCS 240-461535/4		8260B		5 mL	5 mL			1 uL	1 uL
MB 240-461535/7		8260B		5 mL	5 mL			1 uL	1 uL
240-139669-B-14	GW-110520-BE-014	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-15	GW-110520-BE-015	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-15 MS	GW-110520-BE-015	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-15 MSD	GW-110520-BE-015	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-16	GW-110520-BE-016	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-17	GW-110520-BE-017	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-18	EB-110520-BE-001	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-19	GW-110520-BE-018	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139669-B-20	TB-110520-BE-002	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMAROLISTDW 00368	vmbfb 00025	VMFASAW 00351	VMFASGW 00384	VMFASPW 00374	VMRA9W 00368
BFB 240-461535/1		8260B			1 uL				
CCVIS 240-461535/2		8260B		8 uL					
CCV 240-461535/3		8260B							8 uL
LCS 240-461535/4		8260B				8 uL	8 uL	8 uL	
MB 240-461535/7		8260B							
240-139669-B-14	GW-110520-BE-014	8260B	T						
240-139669-B-15	GW-110520-BE-015	8260B	T						
240-139669-B-15 MS	GW-110520-BE-015	8260B	T			8 uL	8 uL	8 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461535 Batch Start Date: 11/18/20 09:35 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMAROLISTDW 00368	vmbfb 00025	VMFASAW 00351	VMFASGW 00384	VMFASPW 00374	VMRA9W 00368
240-139669-B-15 MSD	GW-110520-BE-015	8260B	T			8 uL	8 uL	8 uL	
240-139669-B-16	GW-110520-BE-016	8260B	T						
240-139669-B-17	GW-110520-BE-017	8260B	T						
240-139669-B-18	EB-110520-BE-001	8260B	T						
240-139669-B-19	GW-110520-BE-018	8260B	T						
240-139669-B-20	TB-110520-BE-002	8260B	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRGAS 00362	VMRPRIMW 00411				
BFB 240-461535/1		8260B							
CCVIS 240-461535/2		8260B		8 uL	8 uL				
CCV 240-461535/3		8260B							
LCS 240-461535/4		8260B							
MB 240-461535/7		8260B							
240-139669-B-14	GW-110520-BE-014	8260B	T						
240-139669-B-15	GW-110520-BE-015	8260B	T						
240-139669-B-15 MS	GW-110520-BE-015	8260B	T						
240-139669-B-15 MSD	GW-110520-BE-015	8260B	T						
240-139669-B-16	GW-110520-BE-016	8260B	T						
240-139669-B-17	GW-110520-BE-017	8260B	T						
240-139669-B-18	EB-110520-BE-001	8260B	T						
240-139669-B-19	GW-110520-BE-018	8260B	T						
240-139669-B-20	TB-110520-BE-002	8260B	T						

Batch Notes	
pH Indicator ID	HC907861

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139669-1

SDG No.:

Batch Number: 461535 Batch Start Date: 11/18/20 09:35 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

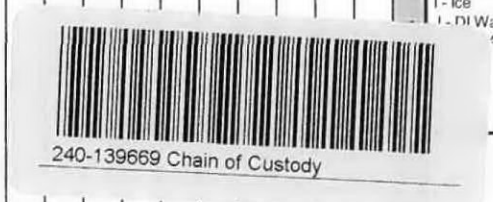
Shipping and Receiving Documents

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record 0-7/16

eurofins | Environment Testing America

Client Information	Sampler: Brynn Einecker	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-76065-30482.1
Client Contact: Ms. Ruth Mickle	Phone:	E-Mail: Denise.Heckler@Eurofinset.com		Page: Page 1 of 6
Company: GHD Services Inc.		Analysis Requested		Job #:
Address: 26850 Haggerty Rd.	Due Date Requested: Standard 2 weeks			Preservation Codes:
City: Farmington Hills	TAT Requested (days): 14 days			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MI, 48331				
Phone:	PO #: Purchase Order Requested			
Email: ruth.mickle@ghd.com	WO #: 11209506 - T0720			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			



Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Tot	Special Instructions/Note:
			Preservation Code:				A		
~~GW-110320-BE-001 BE - SS - BE~~				Water					
GW-110320-SS-001	11/3/20	1118	G	Water			X	3	
GW-110320-BE-002	11/3/20	1125	G	Water			X	3	
GW-110320-SS-003	11/3/20	1228	G	Water			X	3	
GW-110320-BE-004	11/3/20	1259	G	Water			X	3	
~~GW-110320-BE-005~~ GW-110320-SS-005	11/3/20	1358	G	Water			X	3	
GW-110320-BE-006	11/3/20	1412	G	Water			X	3	
GW-110320-SS-007	11/3/20	1523	G	Water			X	3	
GW-110320-BE-008	11/3/20	1420	G	Water			X	3	
GW-110320-BE-009	11/3/20	1604	G	Water			X	3	
GW-110420-BE-010	11/4/20	1029	G	Water			X	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brynn Einecker	11/5/20 1730	GHD			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/6/20 9:50	Company ETK

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

0-7/1-6

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Brynn Einecker	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-76065-30482.2
Client Contact: Ms. Ruth Mickle	Phone:	E-Mail: Denise.Heckler@Eurofinset.com		Page: Page 2 of 6
Company: GHD Services Inc.				Job #:
Address: 26850 Haggerty Rd.	Due Date Requested:			
City: Farmington Hills	TAT Requested (days): 14 days, standard			
State, Zip: MI, 48331				
Phone:	PO #: Purchase Order Requested			
Email: ruth.mickle@ghd.com	WO #: 11209506			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	X	
GW-110420-BE-011	11/4/20	1133	G	Water			X	3	
GW-110420-BE-012	11/4/20	1338	G	Water			X	3	
GW-110420-BE-013	11/4/20	1521	G	Water			X	3	
GW-110520-BE-014	11/5/20	1000	G	Water			X	3	
GW-110520-BE-015	11/5/20	1111	G	Water		X	X	9	
GW-110520-BE-016	11/5/20	1233	G	Water			X	3	
GW-110520-BE-017	11/5/20	1409	G	Water			X	3	
EB-110520-BE-001	11/5/20	1427	G	Water			X	3	
GW-110520-BE-018	11/5/20	1605	G	Water			X	3	
~~GW-110~~	~~11/5/20~~		~~G~~	Water			~~X~~ 86		
TB-110520-BE-002	11/5/20	1645	G	Water			X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Brynn Einecker	11/5/20 1730	GHD			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	11/6/20 9:30	ETAC

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 139669
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Alex

Cooler Received on 11/6/20 Opened on 11/6/20

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF **+0.9** °C) Observed Cooler Temp. .7 °C Corrected Cooler Temp. 1.6 °C
   IR GUN #IR-12 (CF **+0.5**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC907861**
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0212801F	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____

_____

_____

_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

ANALYTICAL REPORT

Job Number: 240-139671-1

Job Description: 11209506-T07, MLK - Anderson, IN

For:
GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, MI 48331

Attention: Ms. Ruth Mickle

Approved for release.
Denise D Heckler
Project Manager II
11/17/2020 8:42 AM

Denise D Heckler, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9477
Denise.Heckler@Eurofinset.com
11/17/2020

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: GHD Services Inc. Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
240-139671-1

Comments
No additional comments.

Receipt
The samples were received on 11/6/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260B: The Laboratory Check Sample (LCS) for analytical batch 461048 exceeded control criteria for multiple compounds. The samples associated with this LCS were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: SW-110320-BE-001
Lab Sample ID: 240-139671-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.1	J	10	1.7	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	200		10	1.6	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	7.4	J	10	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	11		10	2.0	ug/L	10		8260B	Total/NA

Client Sample ID: SW-110320-BE-002
Lab Sample ID: 240-139671-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.3	J	10	1.7	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	200		10	1.6	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	7.1	J	10	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	9.1	J	10	2.0	ug/L	10		8260B	Total/NA

Client Sample ID: SW-110320-BE-003
Lab Sample ID: 240-139671-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.9		2.5	0.43	ug/L	2.5		8260B	Total/NA
cis-1,2-Dichloroethene	76		2.5	0.40	ug/L	2.5		8260B	Total/NA
trans-1,2-Dichloroethene	2.4	J	2.5	0.48	ug/L	2.5		8260B	Total/NA
Vinyl chloride	3.9		2.5	0.50	ug/L	2.5		8260B	Total/NA

Client Sample ID: TB-110320-BE-001
Lab Sample ID: 240-139671-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-110320-BE-001 — Lab Sample ID: 240-139671-1

Date Collected: 11/03/20 16:08 **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10	2.4	ug/L			11/15/20 17:21	10
1,1,2,2-Tetrachloroethane	10	U	10	1.3	ug/L			11/15/20 17:21	10
1,1,2-Trichloroethane	10	U *	10	0.90	ug/L			11/15/20 17:21	10
1,1-Dichloroethane	**8.1**	**J**	10	1.7	ug/L			11/15/20 17:21	10
1,1-Dichloroethene	10	U	10	1.9	ug/L			11/15/20 17:21	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			11/15/20 17:21	10
1,2-Dichloropropane	10	U	10	1.5	ug/L			11/15/20 17:21	10
2-Hexanone	100	U	100	5.4	ug/L			11/15/20 17:21	10
Acetone	100	U	100	54	ug/L			11/15/20 17:21	10
Benzene	10	U	10	1.3	ug/L			11/15/20 17:21	10
Bromoform	10	U	10	7.6	ug/L			11/15/20 17:21	10
Bromomethane	10	U	10	4.2	ug/L			11/15/20 17:21	10
Carbon disulfide	10	U *	10	2.8	ug/L			11/15/20 17:21	10
Carbon tetrachloride	10	U	10	2.6	ug/L			11/15/20 17:21	10
Chlorobenzene	10	U	10	1.4	ug/L			11/15/20 17:21	10
Chloroethane	10	U	10	8.3	ug/L			11/15/20 17:21	10
Chloroform	10	U	10	1.3	ug/L			11/15/20 17:21	10
Chloromethane	10	U	10	2.0	ug/L			11/15/20 17:21	10
cis-1,2-Dichloroethene	**200**		10	1.6	ug/L			11/15/20 17:21	10
cis-1,3-Dichloropropene	10	U	10	6.1	ug/L			11/15/20 17:21	10
Dichlorobromomethane	10	U	10	1.7	ug/L			11/15/20 17:21	10
Ethylbenzene	10	U	10	1.1	ug/L			11/15/20 17:21	10
2-Butanone (MEK)	100	U	100	12	ug/L			11/15/20 17:21	10
4-Methyl-2-pentanone (MIBK)	100	U	100	4.2	ug/L			11/15/20 17:21	10
Methylene Chloride	50	U	50	26	ug/L			11/15/20 17:21	10
Styrene	10	U	10	1.0	ug/L			11/15/20 17:21	10
Tetrachloroethene	10	U	10	1.5	ug/L			11/15/20 17:21	10
Toluene	10	U	10	1.4	ug/L			11/15/20 17:21	10
trans-1,2-Dichloroethene	**7.4**	**J**	10	1.9	ug/L			11/15/20 17:21	10
trans-1,3-Dichloropropene	10	U	10	6.7	ug/L			11/15/20 17:21	10
Trichloroethene	10	U	10	1.0	ug/L			11/15/20 17:21	10
Vinyl chloride	**11**		10	2.0	ug/L			11/15/20 17:21	10
Xylenes, Total	20	U	20	1.5	ug/L			11/15/20 17:21	10
Chlorodibromomethane	10	U	10	3.9	ug/L			11/15/20 17:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 130*		*11/15/20 17:21*	*10*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/15/20 17:21*	*10*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/15/20 17:21*	*10*
Dibromofluoromethane (Surr)	*86*		*78 - 129*		*11/15/20 17:21*	*10*

Client Sample ID: SW-110320-BE-002 — Lab Sample ID: 240-139671-2

Date Collected: 11/03/20 16:12 **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10	2.4	ug/L			11/15/20 17:43	10
1,1,2,2-Tetrachloroethane	10	U	10	1.3	ug/L			11/15/20 17:43	10
1,1,2-Trichloroethane	10	U F1 *	10	0.90	ug/L			11/15/20 17:43	10

Client Sample ID: SW-110320-BE-002 — Lab Sample ID: 240-139671-2

Date Collected: 11/03/20 16:12 — **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**9.3**	**J**	10	1.7	ug/L			11/15/20 17:43	10
1,1-Dichloroethene	10	U	10	1.9	ug/L			11/15/20 17:43	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			11/15/20 17:43	10
1,2-Dichloropropane	10	U	10	1.5	ug/L			11/15/20 17:43	10
2-Hexanone	100	U	100	5.4	ug/L			11/15/20 17:43	10
Acetone	100	U	100	54	ug/L			11/15/20 17:43	10
Benzene	10	U	10	1.3	ug/L			11/15/20 17:43	10
Bromoform	10	U	10	7.6	ug/L			11/15/20 17:43	10
Bromomethane	10	U	10	4.2	ug/L			11/15/20 17:43	10
Carbon disulfide	10	U *	10	2.8	ug/L			11/15/20 17:43	10
Carbon tetrachloride	10	U	10	2.6	ug/L			11/15/20 17:43	10
Chlorobenzene	10	U	10	1.4	ug/L			11/15/20 17:43	10
Chloroethane	10	U	10	8.3	ug/L			11/15/20 17:43	10
Chloroform	10	U	10	1.3	ug/L			11/15/20 17:43	10
Chloromethane	10	U	10	2.0	ug/L			11/15/20 17:43	10
cis-1,2-Dichloroethene	**200**		10	1.6	ug/L			11/15/20 17:43	10
cis-1,3-Dichloropropene	10	U	10	6.1	ug/L			11/15/20 17:43	10
Dichlorobromomethane	10	U	10	1.7	ug/L			11/15/20 17:43	10
Ethylbenzene	10	U	10	1.1	ug/L			11/15/20 17:43	10
2-Butanone (MEK)	100	U	100	12	ug/L			11/15/20 17:43	10
4-Methyl-2-pentanone (MIBK)	100	U	100	4.2	ug/L			11/15/20 17:43	10
Methylene Chloride	50	U	50	26	ug/L			11/15/20 17:43	10
Styrene	10	U	10	1.0	ug/L			11/15/20 17:43	10
Tetrachloroethene	10	U	10	1.5	ug/L			11/15/20 17:43	10
Toluene	10	U	10	1.4	ug/L			11/15/20 17:43	10
trans-1,2-Dichloroethene	**7.1**	**J**	10	1.9	ug/L			11/15/20 17:43	10
trans-1,3-Dichloropropene	10	U	10	6.7	ug/L			11/15/20 17:43	10
Trichloroethene	10	U	10	1.0	ug/L			11/15/20 17:43	10
Vinyl chloride	**9.1**	**J**	10	2.0	ug/L			11/15/20 17:43	10
Xylenes, Total	20	U	20	1.5	ug/L			11/15/20 17:43	10
Chlorodibromomethane	10	U	10	3.9	ug/L			11/15/20 17:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 130*		*11/15/20 17:43*	*10*
4-Bromofluorobenzene (Surr)	*80*		*47 - 134*		*11/15/20 17:43*	*10*
Toluene-d8 (Surr)	*95*		*69 - 122*		*11/15/20 17:43*	*10*
Dibromofluoromethane (Surr)	*87*		*78 - 129*		*11/15/20 17:43*	*10*

Client Sample ID: SW-110320-BE-003 — Lab Sample ID: 240-139671-3

Date Collected: 11/03/20 16:20 — **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	2.5	0.60	ug/L			11/15/20 18:56	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.33	ug/L			11/15/20 18:56	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.23	ug/L			11/15/20 18:56	2.5
1,1-Dichloroethane	**3.9**		2.5	0.43	ug/L			11/15/20 18:56	2.5
1,1-Dichloroethene	2.5	U	2.5	0.48	ug/L			11/15/20 18:56	2.5
1,2-Dichloroethane	2.5	U	2.5	0.53	ug/L			11/15/20 18:56	2.5

Client Sample ID: SW-110320-BE-003 — Lab Sample ID: 240-139671-3

Date Collected: 11/03/20 16:20 — **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	2.5	U	2.5	0.38	ug/L			11/15/20 18:56	2.5
2-Hexanone	25	U	25	1.4	ug/L			11/15/20 18:56	2.5
Acetone	25	U	25	14	ug/L			11/15/20 18:56	2.5
Benzene	2.5	U	2.5	0.33	ug/L			11/15/20 18:56	2.5
Bromoform	2.5	U	2.5	1.9	ug/L			11/15/20 18:56	2.5
Bromomethane	2.5	U	2.5	1.1	ug/L			11/15/20 18:56	2.5
Carbon disulfide	2.5	U	2.5	0.70	ug/L			11/15/20 18:56	2.5
Carbon tetrachloride	2.5	U	2.5	0.65	ug/L			11/15/20 18:56	2.5
Chlorobenzene	2.5	U	2.5	0.35	ug/L			11/15/20 18:56	2.5
Chloroethane	2.5	U	2.5	2.1	ug/L			11/15/20 18:56	2.5
Chloroform	2.5	U	2.5	0.33	ug/L			11/15/20 18:56	2.5
Chloromethane	2.5	U	2.5	0.50	ug/L			11/15/20 18:56	2.5
cis-1,2-Dichloroethene	**76**		2.5	0.40	ug/L			11/15/20 18:56	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	1.5	ug/L			11/15/20 18:56	2.5
Dichlorobromomethane	2.5	U	2.5	0.43	ug/L			11/15/20 18:56	2.5
Ethylbenzene	2.5	U	2.5	0.28	ug/L			11/15/20 18:56	2.5
2-Butanone (MEK)	25	U	25	2.9	ug/L			11/15/20 18:56	2.5
4-Methyl-2-pentanone (MIBK)	25	U	25	1.1	ug/L			11/15/20 18:56	2.5
Methylene Chloride	13	U	13	6.6	ug/L			11/15/20 18:56	2.5
Styrene	2.5	U	2.5	0.25	ug/L			11/15/20 18:56	2.5
Tetrachloroethene	2.5	U	2.5	0.38	ug/L			11/15/20 18:56	2.5
Toluene	2.5	U	2.5	0.35	ug/L			11/15/20 18:56	2.5
trans-1,2-Dichloroethene	**2.4**	**J**	2.5	0.48	ug/L			11/15/20 18:56	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	1.7	ug/L			11/15/20 18:56	2.5
Trichloroethene	2.5	U	2.5	0.25	ug/L			11/15/20 18:56	2.5
Vinyl chloride	**3.9**		2.5	0.50	ug/L			11/15/20 18:56	2.5
Xylenes, Total	5.0	U	5.0	0.38	ug/L			11/15/20 18:56	2.5
Chlorodibromomethane	2.5	U	2.5	0.98	ug/L			11/15/20 18:56	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 130*		*11/15/20 18:56*	*2.5*
4-Bromofluorobenzene (Surr)	*98*		*47 - 134*		*11/15/20 18:56*	*2.5*
Toluene-d8 (Surr)	*104*		*69 - 122*		*11/15/20 18:56*	*2.5*
Dibromofluoromethane (Surr)	*119*		*78 - 129*		*11/15/20 18:56*	*2.5*

Client Sample ID: TB-110320-BE-001 — Lab Sample ID: 240-139671-4

Date Collected: 11/03/20 16:30 — **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 19:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 19:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			11/15/20 19:18	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 19:18	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 19:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 19:18	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 19:18	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 19:18	1
Acetone	10	U	10	5.4	ug/L			11/15/20 19:18	1

Client Sample ID: TB-110320-BE-001 — Lab Sample ID: 240-139671-4

Date Collected: 11/03/20 16:30 — **Matrix: Water**
Date Received: 11/06/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 19:18	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 19:18	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 19:18	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/15/20 19:18	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 19:18	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 19:18	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 19:18	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 19:18	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 19:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 19:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 19:18	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 19:18	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 19:18	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 19:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 19:18	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 19:18	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 19:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 19:18	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 19:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 19:18	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 19:18	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 19:18	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 19:18	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 130*		*11/15/20 19:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*11/15/20 19:18*	*1*
Toluene-d8 (Surr)	*110*		*69 - 122*		*11/15/20 19:18*	*1*
Dibromofluoromethane (Surr)	*117*		*78 - 129*		*11/15/20 19:18*	*1*

Surrogate Summary

Client: GHD Services Inc.
Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)
240-139671-1	SW-110320-BE-001	109	82	95	86
240-139671-2	SW-110320-BE-002	109	80	95	87
240-139671-2 MS	SW-110320-BE-002	92	102	100	78
240-139671-2 MSD	SW-110320-BE-002	93	104	104	79
240-139671-3	SW-110320-BE-003	108	98	104	119
240-139671-4	TB-110320-BE-001	117	99	110	117
LCS 240-461046/4	Lab Control Sample	101	99	102	107
LCS 240-461046/9	Lab Control Sample	106	102	100	107
LCS 240-461048/4	Lab Control Sample	93	104	103	80
MB 240-461046/6	Method Blank	115	100	107	114
MB 240-461048/7	Method Blank	102	82	94	81

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-461046/6
Matrix: Water
Analysis Batch: 461046

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 10:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 10:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			11/15/20 10:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 10:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 10:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 10:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 10:21	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 10:21	1
Acetone	10	U	10	5.4	ug/L			11/15/20 10:21	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 10:21	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 10:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 10:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/15/20 10:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 10:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 10:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 10:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 10:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 10:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 10:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 10:21	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 10:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 10:21	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 10:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 10:21	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 10:21	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 10:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 10:21	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 10:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 10:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 10:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 10:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 10:21	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 10:21	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 130*		*11/15/20 10:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*11/15/20 10:21*	*1*
Toluene-d8 (Surr)	*107*		*69 - 122*		*11/15/20 10:21*	*1*
Dibromofluoromethane (Surr)	*114*		*78 - 129*		*11/15/20 10:21*	*1*

Lab Sample ID: LCS 240-461046/4
Matrix: Water
Analysis Batch: 461046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			10.0	7.99		ug/L		80	65 - 141		
1,1,2,2-Tetrachloroethane			10.0	8.47		ug/L		85	45 - 151		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-461046/4
Matrix: Water
Analysis Batch: 461046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	8.46		ug/L		85	79 - 121
1,1-Dichloroethane	10.0	10.8		ug/L		108	74 - 126
1,1-Dichloroethene	10.0	8.47		ug/L		85	73 - 129
1,2-Dichloroethane	10.0	8.40		ug/L		84	66 - 129
1,2-Dichloropropane	10.0	10.1		ug/L		101	79 - 127
2-Hexanone	20.0	13.6		ug/L		68	43 - 142
Acetone	20.0	14.7		ug/L		74	33 - 155
Benzene	10.0	9.57		ug/L		96	77 - 123
Bromoform	10.0	7.51		ug/L		75	47 - 133
Bromomethane	10.0	9.23		ug/L		92	48 - 144
Carbon disulfide	10.0	8.25		ug/L		83	67 - 127
Carbon tetrachloride	10.0	7.76		ug/L		78	61 - 142
Chlorobenzene	10.0	8.60		ug/L		86	80 - 120
Chloroethane	10.0	9.97		ug/L		100	41 - 147
Chloroform	10.0	9.53		ug/L		95	74 - 127
Chloromethane	10.0	10.1		ug/L		101	46 - 148
cis-1,2-Dichloroethene	10.0	9.20		ug/L		92	75 - 124
cis-1,3-Dichloropropene	10.0	8.17		ug/L		82	68 - 128
Dichlorobromomethane	10.0	8.76		ug/L		88	73 - 122
Ethylbenzene	10.0	8.46		ug/L		85	80 - 120
m-Xylene & p-Xylene	10.0	8.48		ug/L		85	79 - 121
2-Butanone (MEK)	20.0	15.2		ug/L		76	41 - 151
4-Methyl-2-pentanone (MIBK)	20.0	15.2		ug/L		76	43 - 145
Methylene Chloride	10.0	10.1		ug/L		101	63 - 134
o-Xylene	10.0	8.99		ug/L		90	75 - 123
Styrene	10.0	8.84		ug/L		88	75 - 121
Tetrachloroethene	10.0	7.94		ug/L		79	70 - 125
Toluene	10.0	9.00		ug/L		90	79 - 122
trans-1,2-Dichloroethene	10.0	9.44		ug/L		94	74 - 130
trans-1,3-Dichloropropene	10.0	7.51		ug/L		75	64 - 120
Trichloroethene	10.0	7.96		ug/L		80	71 - 121
Vinyl chloride	10.0	10.3		ug/L		103	61 - 134
Xylenes, Total	20.0	17.5		ug/L		87	78 - 122
Chlorodibromomethane	10.0	7.96		ug/L		80	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*
Toluene-d8 (Surr)	*102*		*69 - 122*
Dibromofluoromethane (Surr)	*107*		*78 - 129*

Lab Sample ID: LCS 240-461046/9
Matrix: Water
Analysis Batch: 461046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-461046/9
Matrix: Water
Analysis Batch: 461046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*100*		*69 - 122*
Dibromofluoromethane (Surr)	*107*		*78 - 129*

Lab Sample ID: MB 240-461048/7
Matrix: Water
Analysis Batch: 461048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			11/15/20 10:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			11/15/20 10:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.090	ug/L			11/15/20 10:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			11/15/20 10:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 10:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/15/20 10:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			11/15/20 10:05	1
2-Hexanone	10	U	10	0.54	ug/L			11/15/20 10:05	1
Acetone	10	U	10	5.4	ug/L			11/15/20 10:05	1
Benzene	1.0	U	1.0	0.13	ug/L			11/15/20 10:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			11/15/20 10:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			11/15/20 10:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			11/15/20 10:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			11/15/20 10:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			11/15/20 10:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			11/15/20 10:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			11/15/20 10:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			11/15/20 10:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/15/20 10:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			11/15/20 10:05	1
Dichlorobromomethane	1.0	U	1.0	0.17	ug/L			11/15/20 10:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			11/15/20 10:05	1
2-Butanone (MEK)	10	U	10	1.2	ug/L			11/15/20 10:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.42	ug/L			11/15/20 10:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			11/15/20 10:05	1
Styrene	1.0	U	1.0	0.10	ug/L			11/15/20 10:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/15/20 10:05	1
Toluene	1.0	U	1.0	0.14	ug/L			11/15/20 10:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/15/20 10:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			11/15/20 10:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/15/20 10:05	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/15/20 10:05	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			11/15/20 10:05	1
Chlorodibromomethane	1.0	U	1.0	0.39	ug/L			11/15/20 10:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 130*		*11/15/20 10:05*	*1*
4-Bromofluorobenzene (Surr)	*82*		*47 - 134*		*11/15/20 10:05*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*11/15/20 10:05*	*1*
Dibromofluoromethane (Surr)	*81*		*78 - 129*		*11/15/20 10:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-461048/4
Matrix: Water
Analysis Batch: 461048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	8.04		ug/L		80	65 - 141
1,1,2,2-Tetrachloroethane	10.0	14.4		ug/L		144	45 - 151
1,1,2-Trichloroethane	10.0	12.5	*	ug/L		125	79 - 121
1,1-Dichloroethane	10.0	10.1		ug/L		101	74 - 126
1,1-Dichloroethene	10.0	8.14		ug/L		81	73 - 129
1,2-Dichloroethane	10.0	10.3		ug/L		103	66 - 129
1,2-Dichloropropane	10.0	11.2		ug/L		112	79 - 127
2-Hexanone	20.0	27.0		ug/L		135	43 - 142
Acetone	20.0	20.6		ug/L		103	33 - 155
Benzene	10.0	10.5		ug/L		105	77 - 123
Bromoform	10.0	7.00		ug/L		70	47 - 133
Bromomethane	10.0	6.13		ug/L		61	48 - 144
Carbon disulfide	10.0	6.46	*	ug/L		65	67 - 127
Carbon tetrachloride	10.0	6.90		ug/L		69	61 - 142
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Chloroethane	10.0	6.53		ug/L		65	41 - 147
Chloroform	10.0	9.74		ug/L		97	74 - 127
Chloromethane	10.0	10.9		ug/L		109	46 - 148
cis-1,2-Dichloroethene	10.0	9.37		ug/L		94	75 - 124
cis-1,3-Dichloropropene	10.0	8.83		ug/L		88	68 - 128
Dichlorobromomethane	10.0	9.33		ug/L		93	73 - 122
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	79 - 121
2-Butanone (MEK)	20.0	21.7		ug/L		108	41 - 151
4-Methyl-2-pentanone (MIBK)	20.0	22.0		ug/L		110	43 - 145
Methylene Chloride	10.0	10.6		ug/L		106	63 - 134
o-Xylene	10.0	9.49		ug/L		95	75 - 123
Styrene	10.0	10.2		ug/L		102	75 - 121
Tetrachloroethene	10.0	8.23		ug/L		82	70 - 125
Toluene	10.0	11.2		ug/L		112	79 - 122
trans-1,2-Dichloroethene	10.0	9.11		ug/L		91	74 - 130
trans-1,3-Dichloropropene	10.0	9.41		ug/L		94	64 - 120
Trichloroethene	10.0	7.44		ug/L		74	71 - 121
Vinyl chloride	10.0	9.09		ug/L		91	61 - 134
Xylenes, Total	20.0	20.2		ug/L		101	78 - 122
Chlorodibromomethane	10.0	7.94		ug/L		79	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*
Toluene-d8 (Surr)	*103*		*69 - 122*
Dibromofluoromethane (Surr)	*80*		*78 - 129*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-139671-2 MS **Client Sample ID: SW-110320-BE-002**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 461048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10	U	100	76.2		ug/L		76	62 - 135
1,1,2,2-Tetrachloroethane	10	U	100	135		ug/L		135	37 - 149
1,1,2-Trichloroethane	10	U F1 *	100	123	F1	ug/L		123	73 - 122
1,1-Dichloroethane	9.3	J	100	108		ug/L		98	71 - 121
1,1-Dichloroethene	10	U	100	81.5		ug/L		82	64 - 132
1,2-Dichloroethane	10	U	100	103		ug/L		103	65 - 127
1,2-Dichloropropane	10	U	100	104		ug/L		104	73 - 125
2-Hexanone	100	U	200	254		ug/L		127	44 - 142
Acetone	100	U	200	187		ug/L		94	32 - 157
Benzene	10	U	100	101		ug/L		101	70 - 121
Bromoform	10	U	100	65.9		ug/L		66	41 - 128
Bromomethane	10	U	100	71.0		ug/L		71	41 - 136
Carbon disulfide	10	U *	100	54.5		ug/L		55	54 - 131
Carbon tetrachloride	10	U	100	64.5		ug/L		64	53 - 142
Chlorobenzene	10	U	100	96.7		ug/L		97	73 - 120
Chloroethane	10	U	100	63.9		ug/L		64	37 - 142
Chloroform	10	U	100	93.3		ug/L		93	66 - 126
Chloromethane	10	U	100	115		ug/L		115	33 - 146
cis-1,2-Dichloroethene	200		100	275		ug/L		72	68 - 121
cis-1,3-Dichloropropene	10	U	100	70.2		ug/L		70	56 - 121
Dichlorobromomethane	10	U	100	88.3		ug/L		88	69 - 120
Ethylbenzene	10	U	100	92.6		ug/L		93	66 - 122
m-Xylene & p-Xylene	20	U	100	99.2		ug/L		99	65 - 123
2-Butanone (MEK)	100	U	200	215		ug/L		107	40 - 147
4-Methyl-2-pentanone (MIBK)	100	U	200	192		ug/L		96	40 - 147
Methylene Chloride	50	U	100	101		ug/L		101	59 - 127
o-Xylene	10	U	100	87.4		ug/L		87	63 - 124
Styrene	10	U	100	96.9		ug/L		97	57 - 126
Tetrachloroethene	10	U	100	77.5		ug/L		78	52 - 129
Toluene	10	U	100	107		ug/L		107	68 - 124
trans-1,2-Dichloroethene	7.1	J	100	94.7		ug/L		88	69 - 126
trans-1,3-Dichloropropene	10	U	100	82.7		ug/L		83	53 - 120
Trichloroethene	10	U	100	69.5		ug/L		69	56 - 124
Vinyl chloride	9.1	J	100	110		ug/L		101	49 - 136
Xylenes, Total	20	U	200	187		ug/L		93	64 - 124
Chlorodibromomethane	10	U	100	74.2		ug/L		74	66 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*
Toluene-d8 (Surr)	*100*		*69 - 122*
Dibromofluoromethane (Surr)	*78*		*78 - 129*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-139671-2 MSD **Client Sample ID: SW-110320-BE-002**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 461048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10	U	100	81.0		ug/L		81	62 - 135	6	35
1,1,2,2-Tetrachloroethane	10	U	100	145		ug/L		145	37 - 149	7	35
1,1,2-Trichloroethane	10	U F1 *	100	126	F1	ug/L		126	73 - 122	2	35
1,1-Dichloroethane	9.3	J	100	114		ug/L		104	71 - 121	5	35
1,1-Dichloroethene	10	U	100	84.1		ug/L		84	64 - 132	3	35
1,2-Dichloroethane	10	U	100	104		ug/L		104	65 - 127	2	35
1,2-Dichloropropane	10	U	100	111		ug/L		111	73 - 125	6	35
2-Hexanone	100	U	200	267		ug/L		134	44 - 142	5	35
Acetone	100	U	200	198		ug/L		99	32 - 157	6	35
Benzene	10	U	100	103		ug/L		103	70 - 121	3	35
Bromoform	10	U	100	69.0		ug/L		69	41 - 128	5	35
Bromomethane	10	U	100	74.1		ug/L		74	41 - 136	4	35
Carbon disulfide	10	U *	100	59.8		ug/L		60	54 - 131	9	35
Carbon tetrachloride	10	U	100	69.5		ug/L		69	53 - 142	7	35
Chlorobenzene	10	U	100	97.7		ug/L		98	73 - 120	1	35
Chloroethane	10	U	100	60.8		ug/L		61	37 - 142	5	35
Chloroform	10	U	100	99.1		ug/L		99	66 - 126	6	35
Chloromethane	10	U	100	114		ug/L		114	33 - 146	2	35
cis-1,2-Dichloroethene	200		100	281		ug/L		78	68 - 121	2	35
cis-1,3-Dichloropropene	10	U	100	77.0		ug/L		77	56 - 121	9	35
Dichlorobromomethane	10	U	100	91.3		ug/L		91	69 - 120	3	35
Ethylbenzene	10	U	100	94.9		ug/L		95	66 - 122	2	35
m-Xylene & p-Xylene	20	U	100	98.1		ug/L		98	65 - 123	1	35
2-Butanone (MEK)	100	U	200	230		ug/L		115	40 - 147	7	35
4-Methyl-2-pentanone (MIBK)	100	U	200	207		ug/L		103	40 - 147	7	35
Methylene Chloride	50	U	100	107		ug/L		107	59 - 127	6	32
o-Xylene	10	U	100	90.8		ug/L		91	63 - 124	4	35
Styrene	10	U	100	97.2		ug/L		97	57 - 126	0	35
Tetrachloroethene	10	U	100	78.9		ug/L		79	52 - 129	2	35
Toluene	10	U	100	110		ug/L		110	68 - 124	3	35
trans-1,2-Dichloroethene	7.1	J	100	98.8		ug/L		92	69 - 126	4	35
trans-1,3-Dichloropropene	10	U	100	87.2		ug/L		87	53 - 120	5	35
Trichloroethene	10	U	100	71.6		ug/L		72	56 - 124	3	35
Vinyl chloride	9.1	J	100	112		ug/L		103	49 - 136	2	35
Xylenes, Total	20	U	200	189		ug/L		94	64 - 124	1	35
Chlorodibromomethane	10	U	100	77.5		ug/L		78	66 - 120	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 130*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*
Toluene-d8 (Surr)	*104*		*69 - 122*
Dibromofluoromethane (Surr)	*79*		*78 - 129*

QC Association Summary

Client: GHD Services Inc.
Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

GC/MS VOA

Analysis Batch: 461046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139671-3	SW-110320-BE-003	Total/NA	Water	8260B	
240-139671-4	TB-110320-BE-001	Total/NA	Water	8260B	
MB 240-461046/6	Method Blank	Total/NA	Water	8260B	
LCS 240-461046/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 240-461046/9	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 461048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139671-1	SW-110320-BE-001	Total/NA	Water	8260B	
240-139671-2	SW-110320-BE-002	Total/NA	Water	8260B	
MB 240-461048/7	Method Blank	Total/NA	Water	8260B	
LCS 240-461048/4	Lab Control Sample	Total/NA	Water	8260B	
240-139671-2 MS	SW-110320-BE-002	Total/NA	Water	8260B	
240-139671-2 MSD	SW-110320-BE-002	Total/NA	Water	8260B	

Lab Chronicle

Client: GHD Services Inc. Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Client Sample ID: SW-110320-BE-001 Lab Sample ID: 240-139671-1

Date Collected: 11/03/20 16:08 **Matrix: Water**
Date Received: 11/06/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	461048	11/15/20 17:21	LEE	TAL CAN

Client Sample ID: SW-110320-BE-002 Lab Sample ID: 240-139671-2

Date Collected: 11/03/20 16:12 **Matrix: Water**
Date Received: 11/06/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	461048	11/15/20 17:43	LEE	TAL CAN

Client Sample ID: SW-110320-BE-003 Lab Sample ID: 240-139671-3

Date Collected: 11/03/20 16:20 **Matrix: Water**
Date Received: 11/06/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	461046	11/15/20 18:56	LEE	TAL CAN

Client Sample ID: TB-110320-BE-001 Lab Sample ID: 240-139671-4

Date Collected: 11/03/20 16:30 **Matrix: Water**
Date Received: 11/06/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461046	11/15/20 19:18	LEE	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Method Summary

Client: GHD Services Inc. Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Job ID: 240-139671-1
Project/Site: 11209506-T07, MLK - Anderson, IN

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-139671-1	SW-110320-BE-001	Water	11/03/20 16:08	11/06/20 09:50	
240-139671-2	SW-110320-BE-002	Water	11/03/20 16:12	11/06/20 09:50	
240-139671-3	SW-110320-BE-003	Water	11/03/20 16:20	11/06/20 09:50	
240-139671-4	TB-110320-BE-001	Water	11/03/20 16:30	11/06/20 09:50	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Instrument ID: A3UX11 Analysis Batch Number: 443953

Lab Sample ID: STD8260 240-443953/3 IC Client Sample ID:

Date Analyzed: 07/23/20 11:26 Lab File ID: UXJ1035.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.36	Poor chromatography	evansle	07/24/20 09:16

Lab Sample ID: STD8260 240-443953/4 IC Client Sample ID:

Date Analyzed: 07/23/20 11:48 Lab File ID: UXJ1036.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran	4.03	Peak assignment corrected	evansle	07/24/20 09:34
1,2,4-Trimethylbenzene	9.27	Peak assignment corrected	evansle	07/23/20 14:00
sec-Butylbenzene	9.43	Peak assignment corrected	evansle	07/23/20 14:00

Lab Sample ID: STD8260 240-443953/6 IC Client Sample ID:

Date Analyzed: 07/23/20 12:33 Lab File ID: UXJ1038.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.34	Peak assignment corrected	evansle	07/23/20 14:07

Lab Sample ID: STD8260 240-443953/7 IC Client Sample ID:

Date Analyzed: 07/23/20 12:55 Lab File ID: UXJ1039.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.36	Poor chromatography	evansle	07/23/20 14:25
Trichlorofluoromethane	1.86	Poor chromatography	evansle	07/24/20 09:15
1,4-Dioxane	5.36	Poor chromatography	evansle	07/23/20 14:25
Ethylene Dibromide	6.94	Poor chromatography	evansle	07/23/20 14:26
Hexachlorobutadiene	11.74	Poor chromatography	evansle	07/23/20 14:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Instrument ID: A3UX11 Analysis Batch Number: 461046

Lab Sample ID: MB 240-461046/6 Client Sample ID:

Date Analyzed: 11/15/20 10:21 Lab File ID: UXJ4083.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	evansle	11/16/20 06:42

Lab Sample ID: 240-139671-3 Client Sample ID: SW-110320-BE-003

Date Analyzed: 11/15/20 18:56 Lab File ID: UXJ4106.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	evansle	11/16/20 07:22

Lab Sample ID: 240-139671-4 Client Sample ID: TB-110320-BE-001

Date Analyzed: 11/15/20 19:18 Lab File ID: UXJ4107.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	evansle	11/16/20 07:23

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VM50IS_00084	11/21/20	05/21/20	MEOH, Lot 177891	50 mL	VM568718_00017	10 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VM568718_00017	01/31/24		restek, Lot A0145169		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
VM50IS_00085	02/28/21	08/28/20	MEOH, Lot 177891	50 mL	VM568718_00018	10 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.VM568718_00018	01/31/24		restek, Lot A0145169		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00086	03/28/21	09/28/20	MEOH, Lot 0000230446	200 mL	VM567650_00033	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00033	11/30/23		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00352	07/16/20	07/09/20	MEOH, Lot na	5 mL	VMACROLSTD_00085	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00085	08/01/20	07/01/20	MEOH, Lot 0000230446	20 mL	VM568720_00037	0.25 mL	Acrolein	250 ug/mL
..VM568720_00037	04/30/21		restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00353	07/24/20	07/17/20	MEOH, Lot na	5 mL	VMACROLSTD_00085	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00085	08/01/20	07/01/20	MEOH, Lot 0000230446	20 mL	VM568720_00037	0.25 mL	Acrolein	250 ug/mL
..VM568720_00037	04/30/21		restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00025							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00003	1.25 mL	BFB	50 ug/mL
.vm30026_00003	08/31/23		restek, Lot A0141187		(Purchased Reagent)		BFB	2000 ug/mL
VMFASGW_00366	07/15/20	07/01/20	MEOH, Lot NA	5 mL	VMFASG_00096	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00096	08/01/20	07/01/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00368	07/24/20	07/17/20	MEOH, Lot NA	5 mL	VMFASG_00096	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00096	08/01/20	07/01/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00384	11/21/20	11/14/20	MEOH, Lot NA	5 mL	VMFASG_00100	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00100	12/06/20	11/06/20	MEOH, Lot 0000258810	100 mL	vm569722S_00008	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00008	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASPW_00358	07/20/20	07/13/20	MEOH, Lot n/a	5 mL	VMRFASP_00067	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00067	09/18/20	06/18/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992S_00006	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00359	07/28/20	07/21/20	MEOH, Lot n/a	5 mL	VMRFASP_00067	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00067	09/18/20	06/18/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992S_00006	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00373	11/15/20	11/08/20	MEOH, Lot n/a	5 mL	VMRFASP_00071	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00071	12/31/20	11/05/20	MEOH, Lot 0000258810	100 mL	VM569721S_00005	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992S_00005	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992S_00005	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMRA9W_00352	07/19/20	07/12/20	MEOH, Lot NA	5 mL	VMRA9_00031	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.VMRA9_00031	07/31/20	05/30/20	MEOH, Lot 0000230446	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00004	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00004	2 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					VM570808_00005	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00003	1 mL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
..VM569727_00004	01/31/22		RESTEK, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00004	04/30/22		Restek, Lot A0126447		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00004	02/28/22		Restek, Lot A0125050		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..VM570808_00005	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM571993_00003	07/31/20		restek, Lot A0139911		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
VMRGAS_00346	07/15/20	07/08/20	MEOH, Lot 0000230446	10 mL	vm569722_00015	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00015	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00348	07/30/20	07/23/20	MEOH, Lot 0000230446	10 mL	vm569722_00015	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00015	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00362	11/20/20	11/13/20	MEOH, Lot 0000258810	10 mL	vm569722_00017	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00017	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00393	07/15/20	07/08/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00393	07/15/20	07/08/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	Xylenes, Total	100 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM571992_00003	1 mL	Xylenes, Total	100 ug/mL
..VM571992_00003	06/30/21	Restek, Lot A0143774			(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VMRPRIMW_00394	07/23/20	07/16/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00394	07/23/20	07/16/20	MEOH, Lot NA	5 mL	VMRPRIM_00045	5 mL	Xylenes, Total	100 ug/mL
.VMRPRIM_00045	08/01/20	05/01/20	MEOH, Lot 0000230446	50 mL	VM571992_00003	1 mL	Xylenes, Total	100 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VMRPRIMW_00411	11/22/20	11/15/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM571992_00003	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methylene Chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL

Reagent

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vm30026_00003

Rec: 11/28/18
VM30026-00063

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0141187

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,004.7 µg/mL	+/- 11.7645	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 112.4110	µg/mL	Unstressed
	Purity 99%		+/- 115.0408	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00033

VM567650_00033 Rec: 4/9/19

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Catalog No. : 567650 **Lot No.:** A0143613

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012017) **Purity** 99%	2,506.4 µg/mL	+/- 14.5724 +/- 140.5314 +/- 143.8196	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,503.8 µg/mL	+/- 14.5570 +/- 140.3828 +/- 143.6676	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-27311) **Purity** 99%	2,512.2 µg/mL	+/- 14.6059 +/- 140.8538 +/- 144.1496	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,501.8 µg/mL	+/- 14.5457 +/- 140.2734 +/- 143.5557	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568718_00017

VM568718-00017 Rec: 7/12/19

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0145169

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 (Lot CD-107) **Purity** 98%	5,044.0 µg/mL	+/- 29.3246 µg/mL +/- 107.9918 µg/mL +/- 111.1314 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 (Lot M-276) **Purity** 99%	1,254.2 µg/mL	+/- 7.2922 µg/mL +/- 26.8533 µg/mL +/- 27.6340 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 (Lot BCBK8171V) **Purity** 99%	252.1 µg/mL	+/- 1.4689 µg/mL +/- 5.3977 µg/mL +/- 5.5545 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 (Lot I-19942) **Purity** 99%	5,027.8 µg/mL	+/- 29.2304 µg/mL +/- 107.6448 µg/mL +/- 110.7743 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	250.6 µg/mL	+/- 1.4603 µg/mL +/- 5.3661 µg/mL +/- 5.5220 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	251.6 µg/mL	+/- 1.4660 µg/mL +/- 5.3871 µg/mL +/- 5.5436 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM568718_00018

Rec: 12/4/19
VM568718_00018

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0145169

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 (Lot CD-107) **Purity** 98%	5,044.0 µg/mL	+/- 29.3246 µg/mL +/- 107.9918 µg/mL +/- 111.1314 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 (Lot M-276) **Purity** 99%	1,254.2 µg/mL	+/- 7.2922 µg/mL +/- 26.8533 µg/mL +/- 27.6340 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 (Lot BCBK8171V) **Purity** 99%	252.1 µg/mL	+/- 1.4689 µg/mL +/- 5.3977 µg/mL +/- 5.5545 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 (Lot I-19942) **Purity** 99%	5,027.8 µg/mL	+/- 29.2304 µg/mL +/- 107.6448 µg/mL +/- 110.7743 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	250.6 µg/mL	+/- 1.4603 µg/mL +/- 5.3661 µg/mL +/- 5.5220 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	251.6 µg/mL	+/- 1.4660 µg/mL +/- 5.3871 µg/mL +/- 5.5436 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM568720_00037

Rec: 1/16/20 VM568720_000376

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0154578

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,810.7 µg/mL	+/- 115.9958	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot D0012019410)		+/- 395.7642	µg/mL	Unstressed
	Purity 99%		+/- 887.8866	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00006

RCL: 12/4/18

VM569721_00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0137509

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBH6933) **Purity** 99%	12,619.0 µg/mL	+/- 73.8870 µg/mL +/- 761.4104 µg/mL +/- 763.2179 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBF2461V) **Purity** 99%	12,602.0 µg/mL	+/- 73.7875 µg/mL +/- 760.3846 µg/mL +/- 762.1897 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBH7006) **Purity** 99%	12,531.0 µg/mL	+/- 73.3718 µg/mL +/- 756.1006 µg/mL +/- 757.8955 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBW0198V) **Purity** 99%	12,606.0 µg/mL	+/- 73.8109 µg/mL +/- 760.6260 µg/mL +/- 762.4316 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00005

Rec: 6/15/18 20 vials

VM569721S-00005

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0133078

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	12,504.8 µg/mL	+/- 73.2184	µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot P14A572)		+/- 754.5197	µg/mL	Unstressed
	Purity 99%		+/- 756.3109	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.0 µg/mL	+/- 73.2137	µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RA58J)		+/- 754.4715	µg/mL	Unstressed
	Purity 99%		+/- 756.2625	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,500.8 µg/mL	+/- 73.1949	µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.2784	µg/mL	Unstressed
	Purity 99%		+/- 756.0689	µg/mL	Stressed
4	2-Hexanone	12,503.6 µg/mL	+/- 73.2113	µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- 754.4473	µg/mL	Unstressed
	Purity 99%		+/- 756.2383	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

vm569722_00015

Rec: 4/14/20
VM569722_0005

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0154679

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.7 µg/mL	+/- 18.2705 µg/mL +/- 140.7566 µg/mL +/- 144.0300 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.3 µg/mL	+/- 18.7547 µg/mL +/- 140.6865 µg/mL +/- 143.9553 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,501.1 µg/mL	+/- 18.5858 µg/mL +/- 140.7083 µg/mL +/- 143.9787 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,497.1 µg/mL	+/- 17.5808 µg/mL +/- 140.3628 µg/mL +/- 143.6309 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.8 µg/mL	+/- 23.3138 µg/mL +/- 141.3956 µg/mL +/- 144.6498 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,499.0 µg/mL	+/- 21.4252 µg/mL +/- 140.9973 µg/mL +/- 144.2558 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,499.6	µg/mL	+/-	21.2368	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot 25931)			+/-	141.0019	µg/mL	Unstressed
	Purity 99%				+/-	144.2618	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

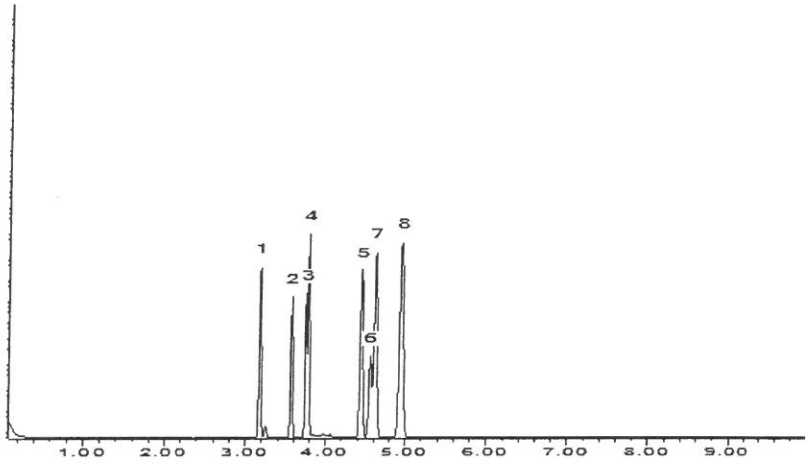
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 04-Nov-2019 **Balance:** B707717271

Feng-Yun Lo - QC Analyst

Date Passed: 10-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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VM569722-00017

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Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,502.3 µg/mL	+/- 16.4178	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 140.5076	µg/mL	Unstressed
	Purity 99%		+/- 143.7858	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.6 µg/mL	+/- 16.3299	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 140.4038	µg/mL	Unstressed
	Purity 99%		+/- 143.6799	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/- 17.2154	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 140.4890	µg/mL	Unstressed
	Purity 99%		+/- 143.7623	µg/mL	Stressed
4	1,3-Butadiene	2,500.7 µg/mL	+/- 17.6652	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 140.5681	µg/mL	Unstressed
	Purity 99%		+/- 143.8406	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,501.2 µg/mL	+/- 16.4034	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 140.4450	µg/mL	Unstressed
	Purity 99%		+/- 143.7217	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/- 17.7279	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 140.5555	µg/mL	Unstressed
	Purity 99%		+/- 143.8274	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 8582700)		+/- 140.1725	µg/mL	Unstressed
	Purity 99%		+/- 143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

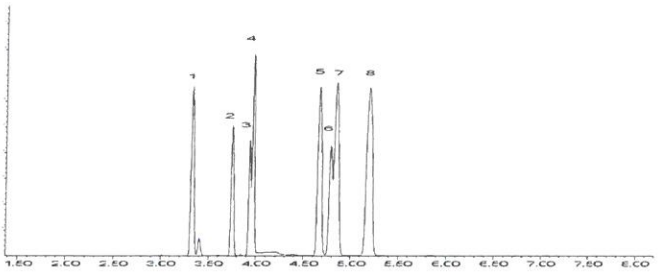
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

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Re: 1-23-19

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0142117

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,503.0 µg/mL	+/- 23.3708 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 24847)		+/- 141.5277 µg/mL	Unstressed
	Purity 99%		+/- 144.7846 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,497.4 µg/mL	+/- 25.3963 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 141.5662 µg/mL	Unstressed
	Purity 99%		+/- 144.8078 µg/mL	Stressed
3	Vinyl chloride	2,501.8 µg/mL	+/- 19.5755 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 140.8855 µg/mL	Unstressed
	Purity 99%		+/- 144.1539 µg/mL	Stressed
4	1,3-Butadiene	2,505.3 µg/mL	+/- 20.9927 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 22331)		+/- 141.2797 µg/mL	Unstressed
	Purity 99%		+/- 144.5480 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,498.6 µg/mL	+/- 25.6449 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 141.6796 µg/mL	Unstressed
	Purity 99%		+/- 144.9218 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,498.9 µg/mL	+/- 24.9623 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 141.5741 µg/mL	Unstressed
	Purity 99%		+/- 144.8194 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.6714 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7766400)		+/- 140.1867 µg/mL	Unstressed
	Purity 99%		+/- 143.4662 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.7	µg/mL	+/-	23.1926	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	141.4285	µg/mL	Unstressed
	Purity 99%				+/-	144.6844	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

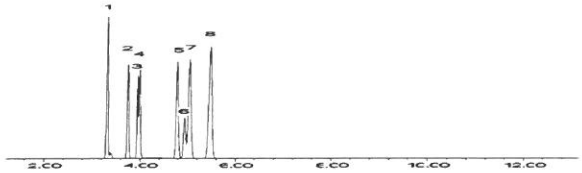
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 04-Oct-2018 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Oct-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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Rec: 7/17/20
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Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,496.5 µg/mL	+/-	17.7311	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)		+/-	140.3462	µg/mL	Unstressed
	Purity 99%			+/-	143.6131	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

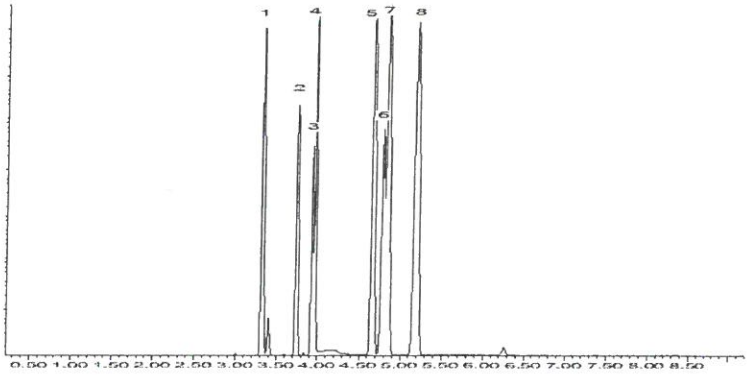
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM569723_00008

Rec: 9/9/19
VM569723-00008

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Catalog No. : 569723 **Lot No.:** A0146250

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.5253	µg/mL	Unstressed
	Purity 99%		+/- 55.0814	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569724_00024

Rcd 4-20-20 VM569724_00024

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0156559

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate		5,040.0 µg/mL	+/- 29.5103	µg/mL	Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/- 304.1056	µg/mL	Unstressed
	Purity 99%			+/- 304.8275	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
08 April 2020
Expiration date extended from July 31, 2020 to July 31, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569727_00004

Rec: 9/9/19 (10)
VMS69727_00004

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Catalog No. : 569727 **Lot No.:** A0145193

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,008.5 µg/mL	+/- 146.4305 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKCD4357)		+/- 1,508.9751 µg/mL	Unstressed
	Purity 99%		+/- 1,512.5572 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

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vm570806_00004

VMS70806_00004 Rec: 6/15/19 10 Vials

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570806 **Lot No.:** A0126447

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,519.0 µg/mL	+/- 14.7829	µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 160830B-BL2)		+/- 141.2521	µg/mL	Unstressed
	Purity 99%		+/- 144.5566	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807_00004

Rec: 6/15/18 10 Vials

VM570807_00004

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Catalog No. : 570807 **Lot No.:** A0125050

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBF0201V) **Purity** 95%	2,511.8 µg/mL	+/- 14.7406 µg/mL +/- 140.8484 µg/mL +/- 144.1434 µg/mL		Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0 (Lot 523400-9) **Purity** 98%	2,514.2 µg/mL	+/- 14.7547 µg/mL +/- 140.9824 µg/mL +/- 144.2806 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570808_00005

Rec: 4-9-19
VMS70808_00005

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Catalog No. : 570808 **Lot No.:** A0145375

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBH7211) **Purity** 99%	25,151.3 µg/mL	+/- 147.2666 µg/mL +/- 1,244.3044 µg/mL +/- 1,275.2391 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 180921JLM) **Purity** 99%	2,508.0 µg/mL	+/- 14.7183 µg/mL +/- 124.0815 µg/mL +/- 127.1661 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,161.0 µg/mL	+/- 147.3232 µg/mL +/- 1,244.7826 µg/mL +/- 1,275.7292 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBF8066V) **Purity** 99%	2,510.3 µg/mL	+/- 14.7320 µg/mL +/- 124.1969 µg/mL +/- 127.2844 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBK1866) **Purity** 99%	62,638.0 µg/mL	+/- 366.7403 µg/mL +/- 3,098.8687 µg/mL +/- 3,175.9100 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,032.0 µg/mL	+/- 29.4633 µg/mL +/- 248.9453 µg/mL +/- 255.1343 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,510.4 µg/mL	+/- 14.7326 µg/mL +/- 124.2019 µg/mL +/- 127.2895 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,514.7 µg/mL	+/-	14.7576	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-12)		+/-	124.4120	µg/mL	Unstressed
	Purity 98%			+/-	127.5048	µg/mL	Stressed
9	Benzyl chloride		2,516.7 µg/mL	+/-	14.7692	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)		+/-	124.5103	µg/mL	Unstressed
	Purity 99%			+/-	127.6055	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,513.3 µg/mL	+/-	14.7496	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)		+/-	124.3454	µg/mL	Unstressed
	Purity 99%			+/-	127.4365	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

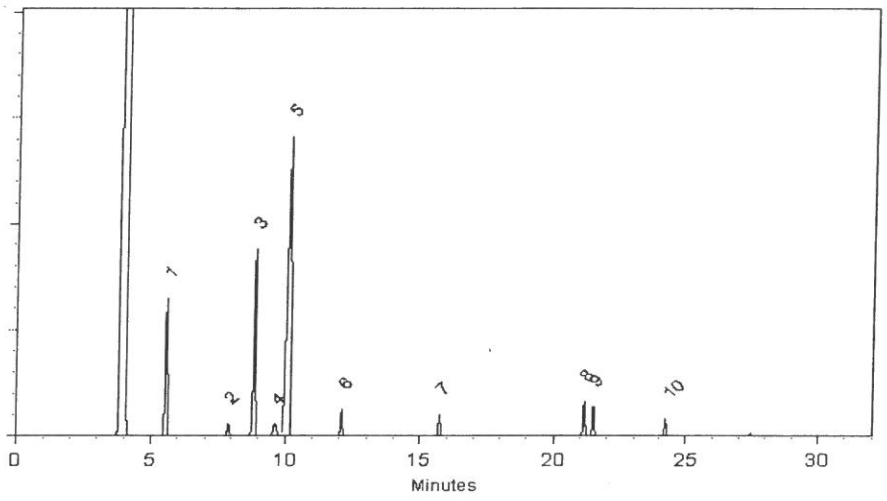
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham - Mix Technician

Date Mixed: 27-Jan-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 29-Jan-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBL1336) **Purity** 99%	5,015.6 µg/mL	+/- 29.3674 µg/mL +/- 302.6333 µg/mL +/- 303.3517 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,508.8 µg/mL	+/- 14.7230 µg/mL +/- 151.3803 µg/mL +/- 151.7396 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKCG6589) **Purity** 99%	5,015.2 µg/mL	+/- 29.3651 µg/mL +/- 302.6092 µg/mL +/- 303.3275 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBK5137) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 151.5733 µg/mL +/- 151.9331 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00003

Rec: 5/31/19
VM571992_00003

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Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- +/- +/-	14.5493 150.9827 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- +/- +/-	7.2763 75.5085 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- +/- +/-	7.2683 75.4256 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- +/- +/-	14.5355 150.8389 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

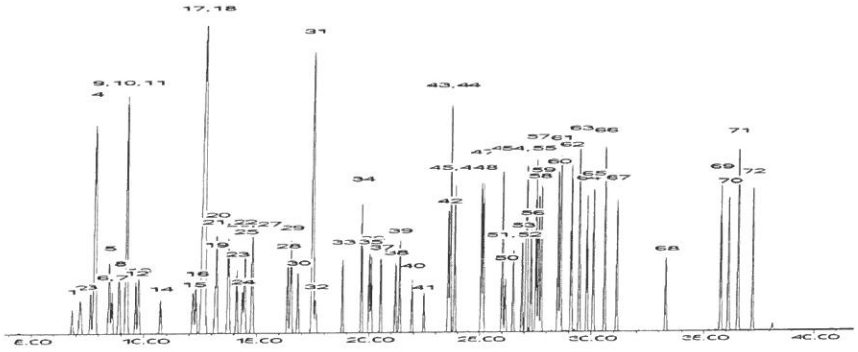
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00005

Rec: 5/31/19
VM571992S-00005

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
9	Carbon disulfide		2,500.7 µg/mL	+/-	14.5391	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)		+/-	150.8763	µg/mL	Unstressed
	Purity 99%			+/-	151.2345	µg/mL	Stressed
10	Acrylonitrile		25,001.2 µg/mL	+/-	145.3513	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot UERIL)		+/-	1,508.4304	µg/mL	Unstressed
	Purity 99%			+/-	1,512.0117	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)		+/-	150.9266	µg/mL	Unstressed
	Purity 99%			+/-	151.2849	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
13	n-Hexane (C6)		2,503.2 µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)		+/-	151.0320	µg/mL	Unstressed
	Purity 97%			+/-	151.3905	µg/mL	Stressed
14	1,1-Dichloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 5379000)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
15	2,2-Dichloropropane		2,503.2 µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot I7E8E)		+/-	151.0320	µg/mL	Unstressed
	Purity 98%			+/-	151.3905	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,501.0 µg/mL	+/-	14.5409	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)		+/-	150.8954	µg/mL	Unstressed
	Purity 97%			+/-	151.2537	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,508.3 µg/mL	+/-	363.4098	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)		+/-	3,771.4029	µg/mL	Unstressed
	Purity 99%			+/-	3,780.3569	µg/mL	Stressed
18	Chloroform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)		+/-	150.8662	µg/mL	Unstressed
	Purity 99%			+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,507.0 µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 5670200)		+/-	151.2584	µg/mL	Unstressed
	Purity 99%			+/-	151.6175	µg/mL	Stressed
20	Tetrahydrofuran		5,006.7 µg/mL	+/-	29.1092	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 8DAOJ)		+/-	302.0744	µg/mL	Unstressed
	Purity 99%			+/-	302.7916	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,507.7 µg/mL	+/-	14.5798	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 7998000)		+/-	151.2986	µg/mL	Unstressed
	Purity 99%			+/-	151.6579	µg/mL	Stressed
22	Cyclohexane		2,508.0 µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)		+/-	151.3188	µg/mL	Unstressed
	Purity 99%			+/-	151.6780	µg/mL	Stressed
23	1,1-Dichloropropene		2,502.4 µg/mL	+/-	14.5492	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 5221100)		+/-	150.9809	µg/mL	Unstressed
	Purity 96%			+/-	151.3393	µg/mL	Stressed

24	Carbon tetrachloride		2,510.3 µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)		+/-	151.4595	µg/mL	Unstressed
	Purity 99%			+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8 µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)		+/-	151.5500	µg/mL	Unstressed
	Purity 99%			+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3 µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)		+/-	150.9165	µg/mL	Unstressed
	Purity 99%			+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7 µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)		+/-	151.3590	µg/mL	Unstressed
	Purity 99%			+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5 µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)		+/-	151.1076	µg/mL	Unstressed
	Purity 99%			+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0 µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)		+/-	151.0774	µg/mL	Unstressed
	Purity 99%			+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0 µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)		+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%			+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5 µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)		+/-	151.4093	µg/mL	Unstressed
	Purity 99%			+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)		+/-	150.9266	µg/mL	Unstressed
	Purity 99%			+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8 µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)		+/-	151.3690	µg/mL	Unstressed
	Purity 99%			+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9 µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)		+/-	151.0098	µg/mL	Unstressed
	Purity 96%			+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7 µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)		+/-	150.9970	µg/mL	Unstressed
	Purity 99%			+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0 µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)		+/-	151.1378	µg/mL	Unstressed
	Purity 99%			+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4 µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)		+/-	150.9832	µg/mL	Unstressed
	Purity 97%			+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%			+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7 µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)		+/-	75.5202	µg/mL	Unstressed
	Purity 99%			+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7 µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)		+/-	75.6409	µg/mL	Unstressed
	Purity 99%			+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%			+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2 µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)		+/-	151.0875	µg/mL	Unstressed
	Purity 99%			+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2 µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)		+/-	151.2685	µg/mL	Unstressed
	Purity 99%			+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2 µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)		+/-	151.1478	µg/mL	Unstressed
	Purity 99%			+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)		+/-	150.8661	µg/mL	Unstressed
	Purity 97%			+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7 µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)		+/-	151.1780	µg/mL	Unstressed
	Purity 99%			+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2 µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)		+/-	151.6922	µg/mL	Unstressed
	Purity 98%			+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7 µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)		+/-	151.0573	µg/mL	Unstressed
	Purity 99%			+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

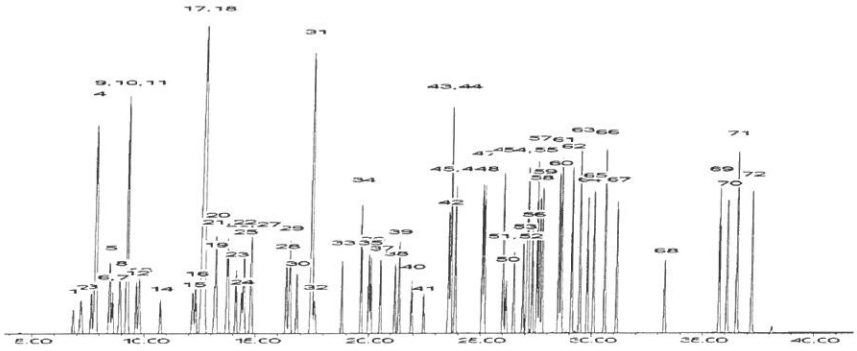
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00006

Rec: 9/9/19
VM571992S-00006

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 +/- 151.8598 +/- 152.2203	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 +/- 1,508.4071 +/- 1,511.9883	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 +/- 301.8129 +/- 302.5295	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 +/- 151.5400 +/- 151.8998	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC (Lot MKBL1376V) **Purity** 99%	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC (Lot UERIL) **Purity** 99%	25,001.2 µg/mL	+/- 145.3513 +/- 1,508.4304 +/- 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC (Lot ZHKYA) **Purity** 99%	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot HGC01-BLKT) **Purity** 98%	2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC (Lot K24W001) **Purity** 97%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 5379000) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 97%	2,501.0 µg/mL	+/- 14.5409 +/- 150.8954 +/- 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC (Lot PH2XK) **Purity** 99%	62,508.3 µg/mL	+/- 363.4098 +/- 3,771.4029 +/- 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC (Lot 5670200) **Purity** 99%	2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC (Lot 8DAOJ) **Purity** 99%	5,006.7 µg/mL	+/- 29.1092 +/- 302.0744 +/- 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC (Lot 7998000) **Purity** 99%	2,507.7 µg/mL	+/- 14.5798 +/- 151.2986 +/- 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC (Lot YADRA) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 +/- 151.3188 +/- 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC (Lot 5221100) **Purity** 96%	2,502.4 µg/mL	+/- 14.5492 +/- 150.9809 +/- 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride		2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	151.4595	µg/mL	Unstressed
	Purity 99%				+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	151.5500	µg/mL	Unstressed
	Purity 99%				+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9165	µg/mL	Unstressed
	Purity 99%				+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	151.1076	µg/mL	Unstressed
	Purity 99%				+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	151.0774	µg/mL	Unstressed
	Purity 99%				+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)			+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	151.4093	µg/mL	Unstressed
	Purity 99%				+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	151.3690	µg/mL	Unstressed
	Purity 99%				+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	151.0098	µg/mL	Unstressed
	Purity 96%				+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.9970	µg/mL	Unstressed
	Purity 99%				+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4 µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)		+/-	150.9832	µg/mL	Unstressed
	Purity 97%			+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%			+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7 µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)		+/-	75.5202	µg/mL	Unstressed
	Purity 99%			+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7 µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)		+/-	75.6409	µg/mL	Unstressed
	Purity 99%			+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%			+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2 µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)		+/-	151.0875	µg/mL	Unstressed
	Purity 99%			+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2 µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)		+/-	151.2685	µg/mL	Unstressed
	Purity 99%			+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2 µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)		+/-	151.1478	µg/mL	Unstressed
	Purity 99%			+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)		+/-	150.8661	µg/mL	Unstressed
	Purity 97%			+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7 µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)		+/-	151.1780	µg/mL	Unstressed
	Purity 99%			+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2 µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)		+/-	151.6922	µg/mL	Unstressed
	Purity 98%			+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7 µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)		+/-	151.0573	µg/mL	Unstressed
	Purity 99%			+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2 µg/mL	+/- 14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)		+/- 151.2081	µg/mL	Unstressed
	Purity 99%			+/- 151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0 µg/mL	+/- 14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)		+/- 151.4394	µg/mL	Unstressed
	Purity 99%			+/- 151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7 µg/mL	+/- 14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)		+/- 151.1176	µg/mL	Unstressed
	Purity 99%			+/- 151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2 µg/mL	+/- 14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)		+/- 151.3891	µg/mL	Unstressed
	Purity 99%			+/- 151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8 µg/mL	+/- 14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)		+/- 151.1880	µg/mL	Unstressed
	Purity 99%			+/- 151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7 µg/mL	+/- 14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)		+/- 151.3590	µg/mL	Unstressed
	Purity 99%			+/- 151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7 µg/mL	+/- 14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)		+/- 151.1176	µg/mL	Unstressed
	Purity 99%			+/- 151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3 µg/mL	+/- 14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)		+/- 150.8562	µg/mL	Unstressed
	Purity 99%			+/- 151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3 µg/mL	+/- 14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)		+/- 151.2182	µg/mL	Unstressed
	Purity 99%			+/- 151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8 µg/mL	+/- 14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)		+/- 151.4294	µg/mL	Unstressed
	Purity 99%			+/- 151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7 µg/mL	+/- 14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)		+/- 151.6607	µg/mL	Unstressed
	Purity 99%			+/- 152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8 µg/mL	+/- 14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)		+/- 150.9467	µg/mL	Unstressed
	Purity 99%			+/- 151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5 µg/mL	+/- 14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)		+/- 151.3473	µg/mL	Unstressed
	Purity 98%			+/- 151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3 µg/mL	+/- 14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)		+/- 151.0372	µg/mL	Unstressed
	Purity 99%			+/- 151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4 µg/mL	+/- 14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)		+/- 151.1002	µg/mL	Unstressed
	Purity 97%			+/- 151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3 µg/mL	+/- 14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)		+/- 151.0372	µg/mL	Unstressed
	Purity 99%			+/- 151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

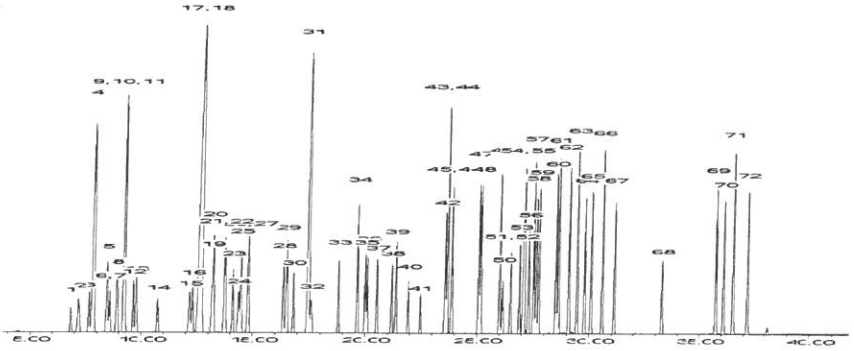
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571993_00003

VM571993-00003 Rec: 12/4/18

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0139911

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile		25,212.5 µg/mL	+/- 147.6247 µg/mL		Gravimetric
	CAS # 75-05-8	(Lot SHBH6233)		+/- 1,247.3304 µg/mL		Unstressed
	Purity 99%			+/- 1,278.3404 µg/mL		Stressed
2	Diisopropyl ether (DIPE)		2,525.0 µg/mL	+/- 14.8181 µg/mL		Gravimetric
	CAS # 108-20-3	(Lot SHBC0391V)		+/- 124.9226 µg/mL		Unstressed
	Purity 99%			+/- 128.0281 µg/mL		Stressed
3	Ethyl-tert-butyl ether (ETBE)		2,518.5 µg/mL	+/- 14.7800 µg/mL		Gravimetric
	CAS # 637-92-3	(Lot MKCC2702)		+/- 124.6010 µg/mL		Unstressed
	Purity 99%			+/- 127.6985 µg/mL		Stressed
4	Propionitrile		25,227.5 µg/mL	+/- 147.7126 µg/mL		Gravimetric
	CAS # 107-12-0	(Lot BCBV8545)		+/- 1,248.0725 µg/mL		Unstressed
	Purity 99%			+/- 1,279.1009 µg/mL		Stressed
5	tert-Amyl alcohol		25,152.5 µg/mL	+/- 147.2734 µg/mL		Gravimetric
	CAS # 75-85-4	(Lot STBB1898V)		+/- 1,244.3621 µg/mL		Unstressed
	Purity 99%			+/- 1,275.2982 µg/mL		Stressed
6	tert-Amyl methyl ether (TAME)		2,525.0 µg/mL	+/- 14.8181 µg/mL		Gravimetric
	CAS # 994-05-8	(Lot HMBF8365V)		+/- 124.9226 µg/mL		Unstressed
	Purity 99%			+/- 128.0281 µg/mL		Stressed

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SW-110320-BE-001	240-139671-1	86	109	95	82
SW-110320-BE-002	240-139671-2	87	109	95	80
SW-110320-BE-003	240-139671-3	119	108	104	98
TB-110320-BE-001	240-139671-4	117	117	110	99
	MB 240-461046/6	114	115	107	100
	MB 240-461048/7	81	102	94	82
	LCS 240-461046/4	107	101	102	99
	LCS 240-461046/9	107	106	100	102
	LCS 240-461048/4	80	93	103	104
SW-110320-BE-002 MS	240-139671-2 MS	78	92	100	102
SW-110320-BE-002 MSD	240-139671-2 MSD	79	93	104	104

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ4078.D

Lab ID: LCS 240-461046/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	7.99	80	65-141	
1,1,2,2-Tetrachloroethane	10.0	8.47	85	45-151	
1,1,2-Trichloroethane	10.0	8.46	85	79-121	
1,1-Dichloroethane	10.0	10.8	108	74-126	
1,1-Dichloroethene	10.0	8.47	85	73-129	
1,2-Dichloroethane	10.0	8.40	84	66-129	
1,2-Dichloropropane	10.0	10.1	101	79-127	
2-Hexanone	20.0	13.6	68	43-142	
Acetone	20.0	14.7	74	33-155	
Benzene	10.0	9.57	96	77-123	
Bromoform	10.0	7.51	75	47-133	
Bromomethane	10.0	9.23	92	48-144	
Carbon disulfide	10.0	8.25	83	67-127	
Carbon tetrachloride	10.0	7.76	78	61-142	
Chlorobenzene	10.0	8.60	86	80-120	
Chloroethane	10.0	9.97	100	41-147	
Chloroform	10.0	9.53	95	74-127	
Chloromethane	10.0	10.1	101	46-148	
cis-1,2-Dichloroethene	10.0	9.20	92	75-124	
cis-1,3-Dichloropropene	10.0	8.17	82	68-128	
Dichlorobromomethane	10.0	8.76	88	73-122	
Ethylbenzene	10.0	8.46	85	80-120	
m-Xylene & p-Xylene	10.0	8.48	85	79-121	
2-Butanone (MEK)	20.0	15.2	76	41-151	
4-Methyl-2-pentanone (MIBK)	20.0	15.2	76	43-145	
Methylene Chloride	10.0	10.1	101	63-134	
o-Xylene	10.0	8.99	90	75-123	
Styrene	10.0	8.84	88	75-121	
Tetrachloroethene	10.0	7.94	79	70-125	
Toluene	10.0	9.00	90	79-122	
trans-1,2-Dichloroethene	10.0	9.44	94	74-130	
trans-1,3-Dichloropropene	10.0	7.51	75	64-120	
Trichloroethene	10.0	7.96	80	71-121	
Vinyl chloride	10.0	10.3	103	61-134	
Xylenes, Total	20.0	17.5	87	78-122	
Chlorodibromomethane	10.0	7.96	80	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3780.D

Lab ID: LCS 240-461048/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	8.04	80	65-141	
1,1,2,2-Tetrachloroethane	10.0	14.4	144	45-151	
1,1,2-Trichloroethane	10.0	12.5	125	79-121	*
1,1-Dichloroethane	10.0	10.1	101	74-126	
1,1-Dichloroethene	10.0	8.14	81	73-129	
1,2-Dichloroethane	10.0	10.3	103	66-129	
1,2-Dichloropropane	10.0	11.2	112	79-127	
2-Hexanone	20.0	27.0	135	43-142	
Acetone	20.0	20.6	103	33-155	
Benzene	10.0	10.5	105	77-123	
Bromoform	10.0	7.00	70	47-133	
Bromomethane	10.0	6.13	61	48-144	
Carbon disulfide	10.0	6.46	65	67-127	*
Carbon tetrachloride	10.0	6.90	69	61-142	
Chlorobenzene	10.0	10.1	101	80-120	
Chloroethane	10.0	6.53	65	41-147	
Chloroform	10.0	9.74	97	74-127	
Chloromethane	10.0	10.9	109	46-148	
cis-1,2-Dichloroethene	10.0	9.37	94	75-124	
cis-1,3-Dichloropropene	10.0	8.83	88	68-128	
Dichlorobromomethane	10.0	9.33	93	73-122	
Ethylbenzene	10.0	10.0	100	80-120	
m-Xylene & p-Xylene	10.0	10.7	107	79-121	
2-Butanone (MEK)	20.0	21.7	108	41-151	
4-Methyl-2-pentanone (MIBK)	20.0	22.0	110	43-145	
Methylene Chloride	10.0	10.6	106	63-134	
o-Xylene	10.0	9.49	95	75-123	
Styrene	10.0	10.2	102	75-121	
Tetrachloroethene	10.0	8.23	82	70-125	
Toluene	10.0	11.2	112	79-122	
trans-1,2-Dichloroethene	10.0	9.11	91	74-130	
trans-1,3-Dichloropropene	10.0	9.41	94	64-120	
Trichloroethene	10.0	7.44	74	71-121	
Vinyl chloride	10.0	9.09	91	61-134	
Xylenes, Total	20.0	20.2	101	78-122	
Chlorodibromomethane	10.0	7.94	79	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3807.D

Lab ID: 240-139671-2 MS Client ID: SW-110320-BE-002 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	10 U	76.2	76	62-135	
1,1,2,2-Tetrachloroethane	100	10 U	135	135	37-149	
1,1,2-Trichloroethane	100	10 U	123	123	73-122	F1
1,1-Dichloroethane	100	9.3 J	108	98	71-121	
1,1-Dichloroethene	100	10 U	81.5	82	64-132	
1,2-Dichloroethane	100	10 U	103	103	65-127	
1,2-Dichloropropane	100	10 U	104	104	73-125	
2-Hexanone	200	100 U	254	127	44-142	
Acetone	200	100 U	187	94	32-157	
Benzene	100	10 U	101	101	70-121	
Bromoform	100	10 U	65.9	66	41-128	
Bromomethane	100	10 U	71.0	71	41-136	
Carbon disulfide	100	10 U	54.5	55	54-131	
Carbon tetrachloride	100	10 U	64.5	64	53-142	
Chlorobenzene	100	10 U	96.7	97	73-120	
Chloroethane	100	10 U	63.9	64	37-142	
Chloroform	100	10 U	93.3	93	66-126	
Chloromethane	100	10 U	115	115	33-146	
cis-1,2-Dichloroethene	100	200	275	72	68-121	
cis-1,3-Dichloropropene	100	10 U	70.2	70	56-121	
Dichlorobromomethane	100	10 U	88.3	88	69-120	
Ethylbenzene	100	10 U	92.6	93	66-122	
m-Xylene & p-Xylene	100	20 U	99.2	99	65-123	
2-Butanone (MEK)	200	100 U	215	107	40-147	
4-Methyl-2-pentanone (MIBK)	200	100 U	192	96	40-147	
Methylene Chloride	100	50 U	101	101	59-127	
o-Xylene	100	10 U	87.4	87	63-124	
Styrene	100	10 U	96.9	97	57-126	
Tetrachloroethene	100	10 U	77.5	78	52-129	
Toluene	100	10 U	107	107	68-124	
trans-1,2-Dichloroethene	100	7.1 J	94.7	88	69-126	
trans-1,3-Dichloropropene	100	10 U	82.7	83	53-120	
Trichloroethene	100	10 U	69.5	69	56-124	
Vinyl chloride	100	9.1 J	110	101	49-136	
Xylenes, Total	200	20 U	187	93	64-124	
Chlorodibromomethane	100	10 U	74.2	74	66-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC3808.D

Lab ID: 240-139671-2 MSD Client ID: SW-110320-BE-002 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	100	81.0	81	6	35	62-135	
1,1,2,2-Tetrachloroethane	100	145	145	7	35	37-149	
1,1,2-Trichloroethane	100	126	126	2	35	73-122	F1
1,1-Dichloroethane	100	114	104	5	35	71-121	
1,1-Dichloroethene	100	84.1	84	3	35	64-132	
1,2-Dichloroethane	100	104	104	2	35	65-127	
1,2-Dichloropropane	100	111	111	6	35	73-125	
2-Hexanone	200	267	134	5	35	44-142	
Acetone	200	198	99	6	35	32-157	
Benzene	100	103	103	3	35	70-121	
Bromoform	100	69.0	69	5	35	41-128	
Bromomethane	100	74.1	74	4	35	41-136	
Carbon disulfide	100	59.8	60	9	35	54-131	
Carbon tetrachloride	100	69.5	69	7	35	53-142	
Chlorobenzene	100	97.7	98	1	35	73-120	
Chloroethane	100	60.8	61	5	35	37-142	
Chloroform	100	99.1	99	6	35	66-126	
Chloromethane	100	114	114	2	35	33-146	
cis-1,2-Dichloroethene	100	281	78	2	35	68-121	
cis-1,3-Dichloropropene	100	77.0	77	9	35	56-121	
Dichlorobromomethane	100	91.3	91	3	35	69-120	
Ethylbenzene	100	94.9	95	2	35	66-122	
m-Xylene & p-Xylene	100	98.1	98	1	35	65-123	
2-Butanone (MEK)	200	230	115	7	35	40-147	
4-Methyl-2-pentanone (MIBK)	200	207	103	7	35	40-147	
Methylene Chloride	100	107	107	6	32	59-127	
o-Xylene	100	90.8	91	4	35	63-124	
Styrene	100	97.2	97	0	35	57-126	
Tetrachloroethene	100	78.9	79	2	35	52-129	
Toluene	100	110	110	3	35	68-124	
trans-1,2-Dichloroethene	100	98.8	92	4	35	69-126	
trans-1,3-Dichloropropene	100	87.2	87	5	35	53-120	
Trichloroethene	100	71.6	72	3	35	56-124	
Vinyl chloride	100	112	103	2	35	49-136	
Xylenes, Total	200	189	94	1	35	64-124	
Chlorodibromomethane	100	77.5	78	4	35	66-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab File ID: UXC3785.D Lab Sample ID: MB 240-461048/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 11/15/2020 10:05

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-461048/4	UXC3780.D	11/15/2020 08:15
SW-110320-BE-001	240-139671-1	UXC3805.D	11/15/2020 17:21
SW-110320-BE-002	240-139671-2	UXC3806.D	11/15/2020 17:43
SW-110320-BE-002 MS	240-139671-2 MS	UXC3807.D	11/15/2020 18:05
SW-110320-BE-002 MSD	240-139671-2 MSD	UXC3808.D	11/15/2020 18:27

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab File ID: UXJ4083.D Lab Sample ID: MB 240-461046/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 11/15/2020 10:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-461046/4	UXJ4078.D	11/15/2020 08:28
	LCS 240-461046/9	UXJ4080.D	11/15/2020 09:13
SW-110320-BE-003	240-139671-3	UXJ4106.D	11/15/2020 18:56
TB-110320-BE-001	240-139671-4	UXJ4107.D	11/15/2020 19:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab File ID: BFB723B.D BFB Injection Date: 07/23/2020

Instrument ID: A3UX11 BFB Injection Time: 10:40

Analysis Batch No.: 443953

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	Greater than 50% of mass 95	83.1	
175	5.0 - 9.0 % of mass 174	5.9	(7.1) 1
176	95.0 - 101.0 % of mass 174	79.7	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-443953/2	UXJ1034.D	07/23/2020	11:03
	STD8260 240-443953/3	UXJ1035.D	07/23/2020	11:26
	STD8260 240-443953/4	UXJ1036.D	07/23/2020	11:48
	STD8260 240-443953/5	UXJ1037.D	07/23/2020	12:11
	STD8260 240-443953/6	UXJ1038.D	07/23/2020	12:33
	STD8260 240-443953/7	UXJ1039.D	07/23/2020	12:55
	ICV 240-443953/14	UXJ1040.D	07/23/2020	13:18
	ICV 240-443953/15	UXJ1047.D	07/23/2020	15:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab File ID: BFB1115B.D BFB Injection Date: 11/15/2020

Instrument ID: A3UX11 BFB Injection Time: 07:37

Analysis Batch No.: 461046

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	73.8	
175	5.0 - 9.0 % of mass 174	5.4	(7.3) 1
176	95.0 - 101.0 % of mass 174	70.6	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.0	(7.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-461046/2	UXJ4077.D	11/15/2020	8:06
	LCS 240-461046/4	UXJ4078.D	11/15/2020	8:28
	CCV 240-461046/3	UXJ4079.D	11/15/2020	8:51
	LCS 240-461046/9	UXJ4080.D	11/15/2020	9:13
	MB 240-461046/6	UXJ4083.D	11/15/2020	10:21
SW-110320-BE-003	240-139671-3	UXJ4106.D	11/15/2020	18:56
TB-110320-BE-001	240-139671-4	UXJ4107.D	11/15/2020	19:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab File ID: BFB715.D BFB Injection Date: 07/15/2020

Instrument ID: A3UX15 BFB Injection Time: 07:58

Analysis Batch No.: 442673

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	Greater than 50% of mass 95	86.8	
175	5.0 - 9.0 % of mass 174	6.4	(7.4) 1
176	95.0 - 101.0 % of mass 174	85.8	(98.8) 1
177	5.0 - 9.0 % of mass 176	4.7	(5.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-442673/2	UXC0317.D	07/15/2020	8:39
	STD8260 240-442673/3	UXC0318.D	07/15/2020	9:01
	STD8260 240-442673/4	UXC0319.D	07/15/2020	9:23
	STD8260 240-442673/5	UXC0320.D	07/15/2020	9:45
	STD8260 240-442673/6	UXC0321.D	07/15/2020	10:07
	STD8260 240-442673/7	UXC0322.D	07/15/2020	10:29
	ICV 240-442673/14	UXC0323.D	07/15/2020	10:50
	STD 240-442673/8	UXC0324.D	07/15/2020	11:12
	STD 240-442673/9	UXC0325.D	07/15/2020	11:34
	STD 240-442673/10	UXC0326.D	07/15/2020	11:56
	STD 240-442673/11	UXC0327.D	07/15/2020	12:17
	STD 240-442673/12	UXC0328.D	07/15/2020	12:39
	STD 240-442673/13	UXC0329.D	07/15/2020	13:01
	ICV 240-442673/15	UXC0330.D	07/15/2020	13:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab File ID: BFB1115A.D BFB Injection Date: 11/15/2020

Instrument ID: A3UX15 BFB Injection Time: 07:23

Analysis Batch No.: 461048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.9	
75	30.0 - 60.0 % of mass 95	56.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.4	(0.6) 1
174	Greater than 50% of mass 95	67.4	
175	5.0 - 9.0 % of mass 174	5.2	(7.8) 1
176	95.0 - 101.0 % of mass 174	66.9	(99.3) 1
177	5.0 - 9.0 % of mass 176	3.6	(5.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-461048/2	UXC3779.D	11/15/2020	7:53
	LCS 240-461048/4	UXC3780.D	11/15/2020	8:15
	CCV 240-461048/3	UXC3781.D	11/15/2020	8:37
	MB 240-461048/7	UXC3785.D	11/15/2020	10:05
SW-110320-BE-001	240-139671-1	UXC3805.D	11/15/2020	17:21
SW-110320-BE-002	240-139671-2	UXC3806.D	11/15/2020	17:43
SW-110320-BE-002 MS	240-139671-2 MS	UXC3807.D	11/15/2020	18:05
SW-110320-BE-002 MSD	240-139671-2 MSD	UXC3808.D	11/15/2020	18:27

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Sample No.: STD8260 240-443953/4 Date Analyzed: 07/23/2020 11:48

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ1036.D Heated Purge: (Y/N) N

Calibration ID: 57852

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1068199	4.71	754498	7.38	309827	9.59
UPPER LIMIT		2136398	5.21	1508996	7.88	619654	10.09
LOWER LIMIT		534100	4.21	377249	6.88	154914	9.09
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-443953/14		975206	4.71	706401	7.37	292739	9.59
ICV 240-443953/15		928320	4.71	660990	7.38	263798	9.59
CCVIS 240-461046/2		961387	4.71	640367	7.36	267314	9.59

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Sample No.: CCVIS 240-461046/2 Date Analyzed: 11/15/2020 08:06

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ4077.D Heated Purge: (Y/N) N

Calibration ID: 57858

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		961387	4.71	640367	7.36	267314	9.59
UPPER LIMIT		1922774	5.21	1280734	7.86	534628	10.09
LOWER LIMIT		480694	4.21	320184	6.86	133657	9.09
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-461046/4		994949	4.71	683848	7.36	287066	9.59
CCV 240-461046/3		948586	4.71	661800	7.36	251893	9.59
LCS 240-461046/9		898688	4.71	660620	7.36	252113	9.59
MB 240-461046/6		756727	4.71	514086	7.38	199403	9.59
240-139671-3	SW-110320-BE-003	797267	4.71	569931	7.36	189792	9.59
240-139671-4	TB-110320-BE-001	605273	4.71	405675	7.36	156209	9.59

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Sample No.: STD8260 240-442673/4 Date Analyzed: 07/15/2020 09:23

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC0319.D Heated Purge: (Y/N) N

Calibration ID: 57825

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1524094	5.05	1190685	7.72	707908	9.95
UPPER LIMIT		3048188	5.55	2381370	8.22	1415816	10.45
LOWER LIMIT		762047	4.55	595343	7.22	353954	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-442673/14		1403144	5.04	1095940	7.71	649329	9.95
ICV 240-442673/15		1288738	5.05	999150	7.72	537104	9.95
CCVIS 240-461048/2		2338180	5.05	1568080	7.72	795428	9.95

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Sample No.: CCVIS 240-461048/2 Date Analyzed: 11/15/2020 07:53

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC3779.D Heated Purge: (Y/N) N

Calibration ID: 57827

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2338180	5.05	1568080	7.72	795428	9.95
UPPER LIMIT		4676360	5.55	3136160	8.22	1590856	10.45
LOWER LIMIT		1169090	4.55	784040	7.22	397714	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-461048/4		2409752	5.05	1653674	7.72	829043	9.95
CCV 240-461048/3		2380799	5.05	1740259	7.72	659547	9.95
MB 240-461048/7		2089639	5.05	1493121	7.72	622083	9.95
240-139671-1	SW-110320-BE-001	2004663	5.05	1404694	7.72	567160	9.95
240-139671-2	SW-110320-BE-002	2003348	5.05	1430452	7.72	562446	9.95
240-139671-2 MS	SW-110320-BE-002 MS	2344247	5.05	1576550	7.72	829216	9.95
240-139671-2 MSD	SW-110320-BE-002 MSD	2370468	5.05	1580279	7.72	811531	9.95

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-001 Lab Sample ID: 240-139671-1

Matrix: Water Lab File ID: UXC3805.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:08

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 17:21

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10	U	10	2.4
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	1.3
79-00-5	1,1,2-Trichloroethane	10	U *	10	0.90
75-34-3	1,1-Dichloroethane	8.1	J	10	1.7
75-35-4	1,1-Dichloroethene	10	U	10	1.9
107-06-2	1,2-Dichloroethane	10	U	10	2.1
78-87-5	1,2-Dichloropropane	10	U	10	1.5
591-78-6	2-Hexanone	100	U	100	5.4
67-64-1	Acetone	100	U	100	54
71-43-2	Benzene	10	U	10	1.3
75-25-2	Bromoform	10	U	10	7.6
74-83-9	Bromomethane	10	U	10	4.2
75-15-0	Carbon disulfide	10	U *	10	2.8
56-23-5	Carbon tetrachloride	10	U	10	2.6
108-90-7	Chlorobenzene	10	U	10	1.4
75-00-3	Chloroethane	10	U	10	8.3
67-66-3	Chloroform	10	U	10	1.3
74-87-3	Chloromethane	10	U	10	2.0
156-59-2	cis-1,2-Dichloroethene	200		10	1.6
10061-01-5	cis-1,3-Dichloropropene	10	U	10	6.1
75-27-4	Dichlorobromomethane	10	U	10	1.7
100-41-4	Ethylbenzene	10	U	10	1.1
78-93-3	2-Butanone (MEK)	100	U	100	12
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	4.2
75-09-2	Methylene Chloride	50	U	50	26
100-42-5	Styrene	10	U	10	1.0
127-18-4	Tetrachloroethene	10	U	10	1.5
108-88-3	Toluene	10	U	10	1.4
156-60-5	trans-1,2-Dichloroethene	7.4	J	10	1.9
10061-02-6	trans-1,3-Dichloropropene	10	U	10	6.7
79-01-6	Trichloroethene	10	U	10	1.0
75-01-4	Vinyl chloride	11		10	2.0
1330-20-7	Xylenes, Total	20	U	20	1.5
124-48-1	Chlorodibromomethane	10	U	10	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-001 Lab Sample ID: 240-139671-1

Matrix: Water Lab File ID: UXC3805.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:08

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 17:21

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	86		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D
Lims ID: 240-139671-B-1
Client ID: SW-110320-BE-001
Sample Type: Client
Inject. Date: 15-Nov-2020 17:21:30 ALS Bottle#: 27 Worklist Smp#: 55
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-055
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:46:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.048	0.000	98	2004663	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1404694	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	567160	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	411135	8.63	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	716748	10.9	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1655927	9.49	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	80	503479	8.24	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.692	1.693	-0.001	98	73237	1.13	
13 Bromomethane	94		1.965				ND	
14 Chloroethane	64		2.037				ND	
19 1,1-Dichloroethene	96		2.653				ND	7
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	7
28 Methylene Chloride	84		3.056				ND	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	94	40718	0.7386	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	98	74177	0.8088	
40 2-Butanone (MEK)	72		4.100				ND	
41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	84	1154194	20.1	
48 Chloroform	83		4.349				ND	
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	7
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	7
73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

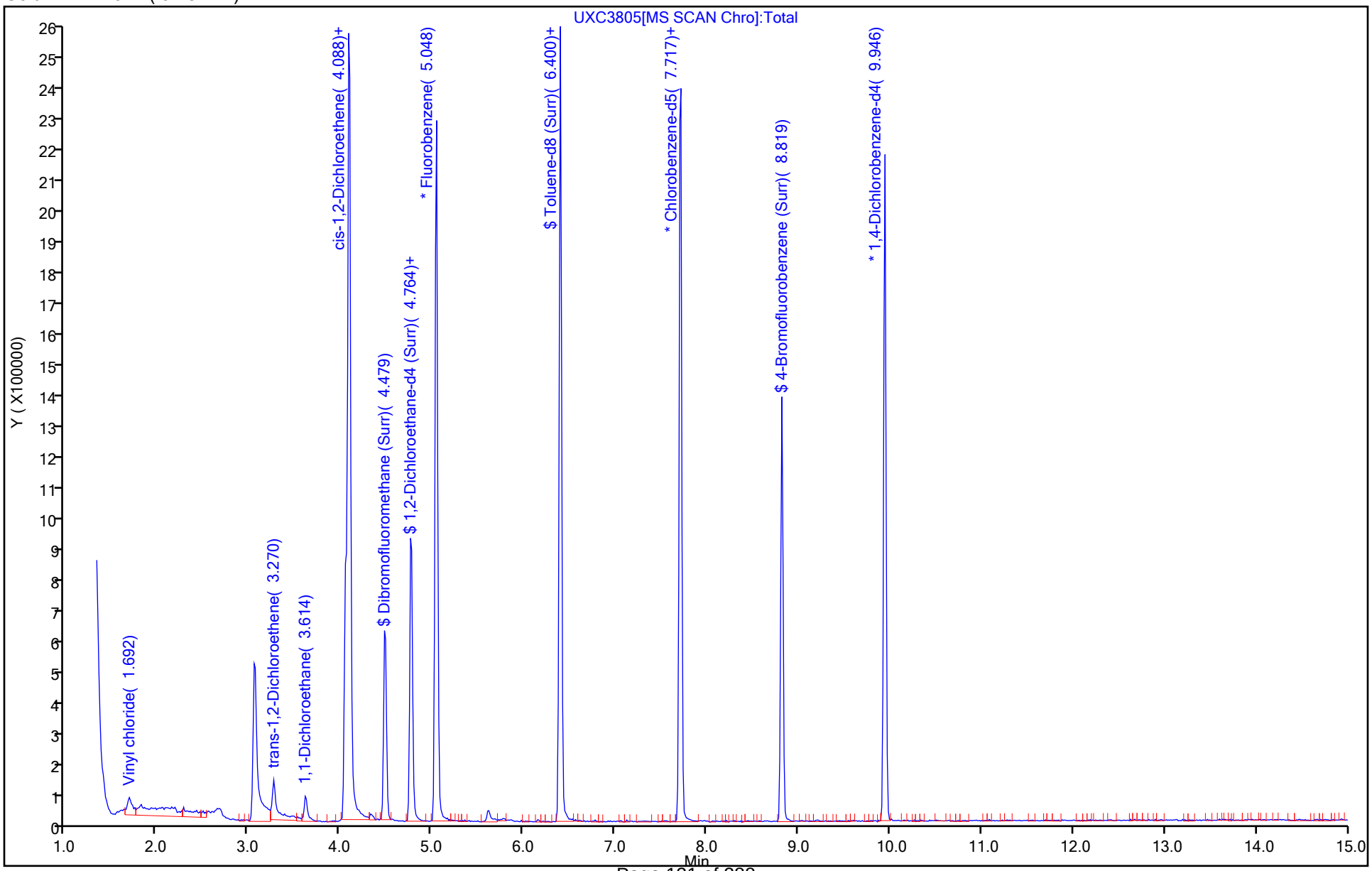
Report Date: 16-Nov-2020 07:53:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D

Injection Date:	15-Nov-2020 17:21:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139671-B-1	Lab Sample ID:	240-139671-1	Worklist Smp#:	55
Client ID:	SW-110320-BE-001				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	27
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D
Lims ID: 240-139671-B-1
Client ID: SW-110320-BE-001
Sample Type: Client
Inject. Date: 15-Nov-2020 17:21:30 ALS Bottle#: 27 Worklist Smp#: 55
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-055
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:46:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.63	86.25
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	108.98
$ 6 Toluene-d8 (Surr)	10.0	9.49	94.92
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.24	82.38

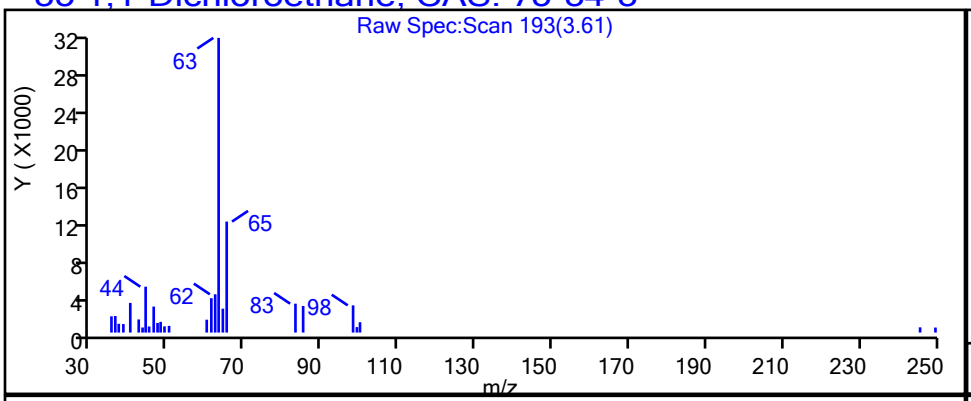
Report Date: 16-Nov-2020 07:53:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

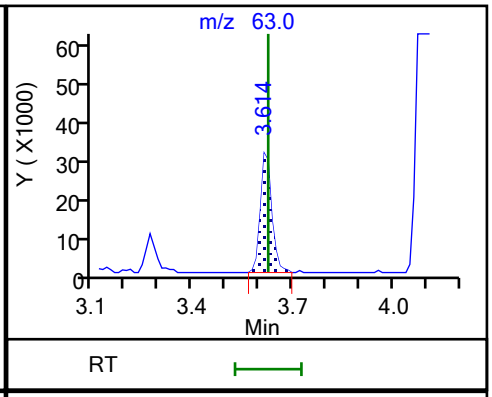
Eurofins TestAmerica, Canton

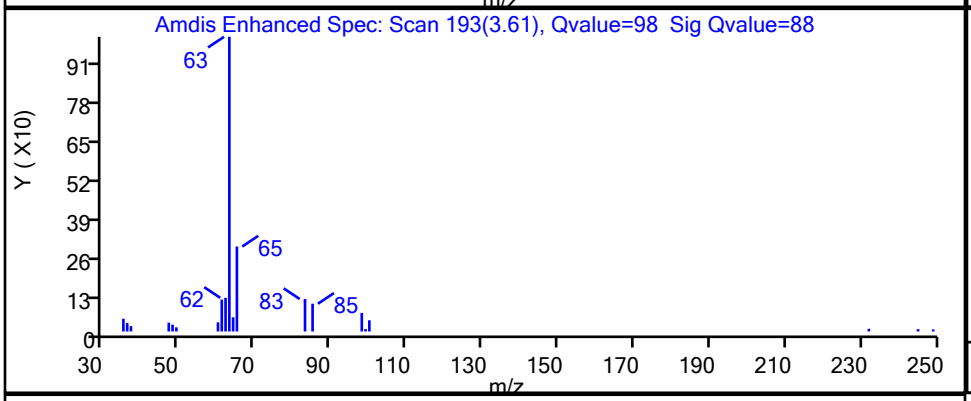
Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D

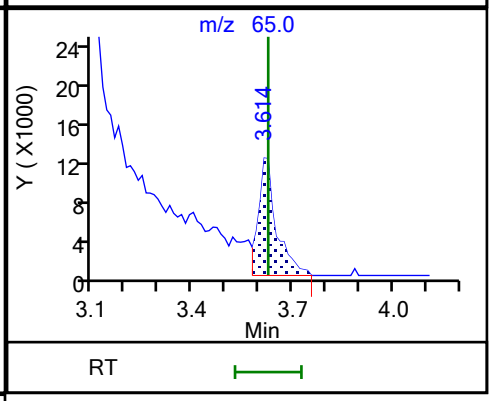
Injection Date:	15-Nov-2020 17:21:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-1	Lab Sample ID:	240-139671-1		
Client ID:	SW-110320-BE-001				
Operator ID:	43582	ALS Bottle#:	27	Worklist Smp#:	55
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

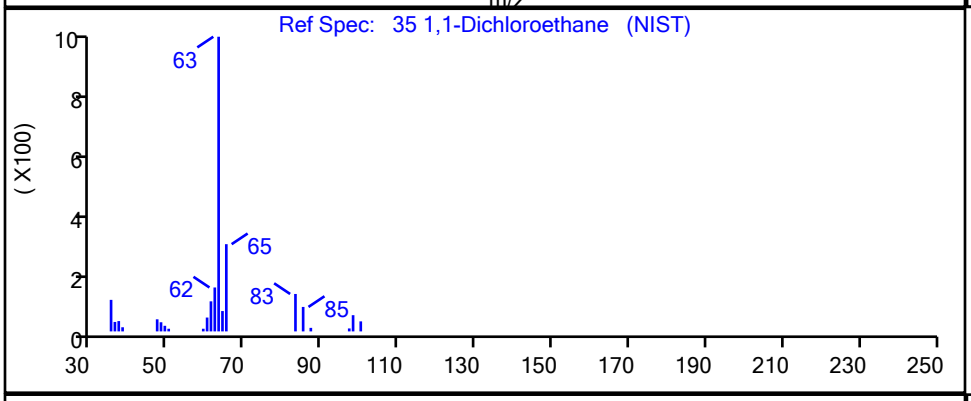
35 1,1-Dichloroethane, CAS: 75-34-3

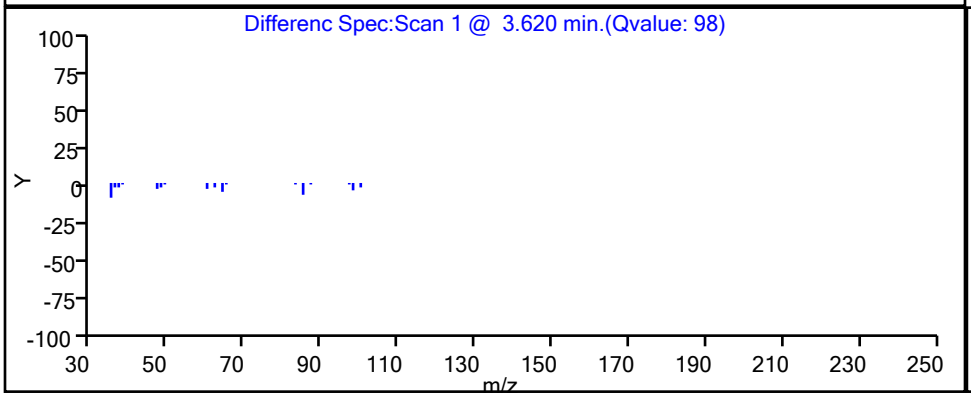


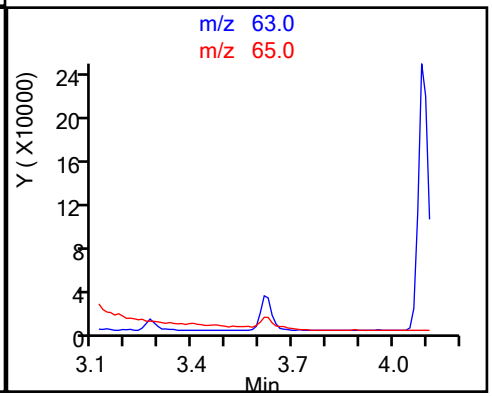












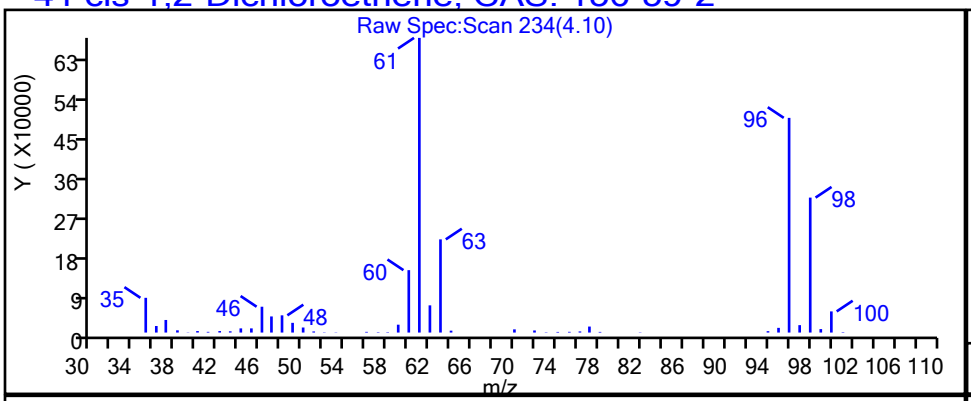
Report Date: 16-Nov-2020 07:53:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

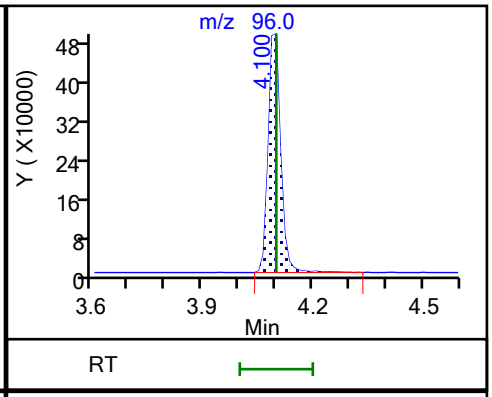
Eurofins TestAmerica, Canton

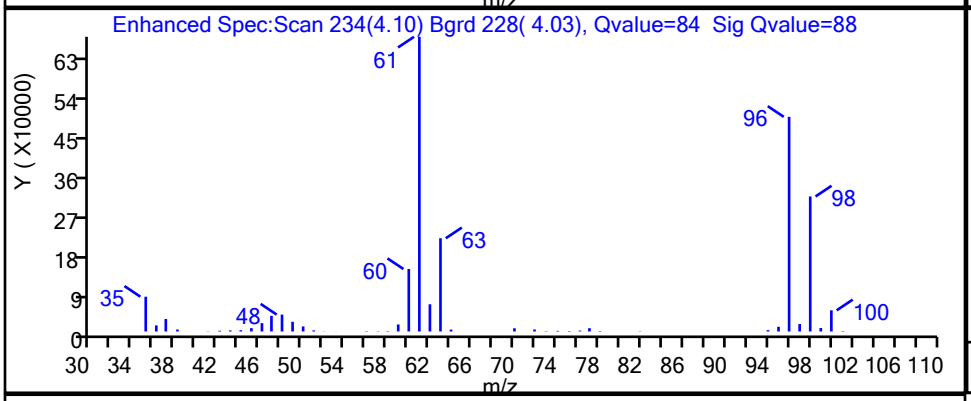
Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D

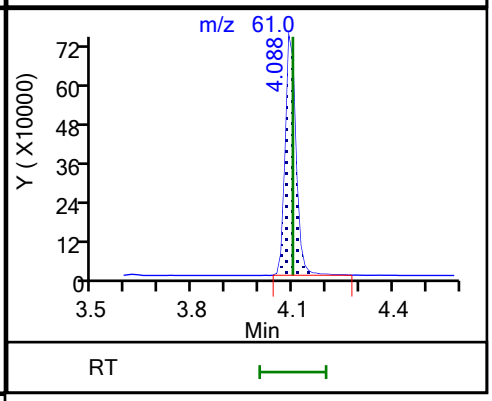
Injection Date:	15-Nov-2020 17:21:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-1	Lab Sample ID:	240-139671-1		
Client ID:	SW-110320-BE-001				
Operator ID:	43582	ALS Bottle#:	27	Worklist Smp#:	55
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

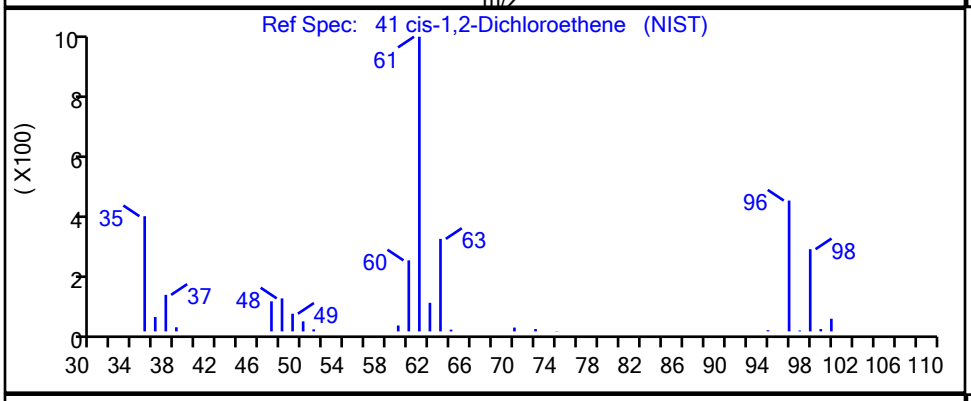
41 cis-1,2-Dichloroethene, CAS: 156-59-2

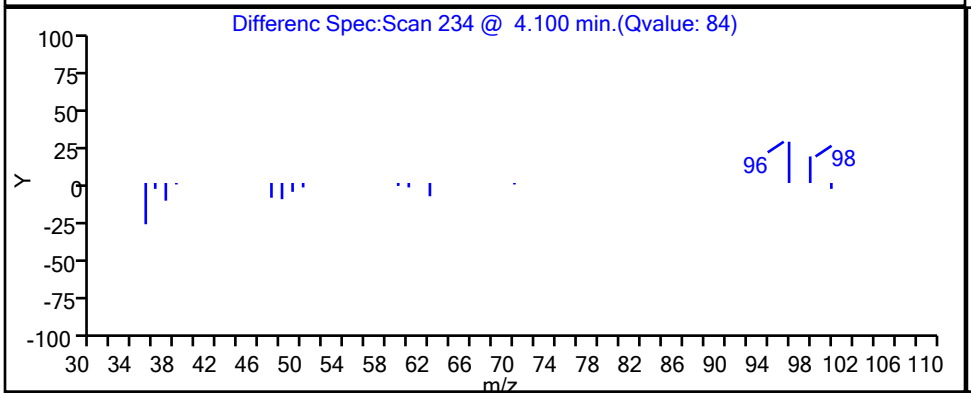


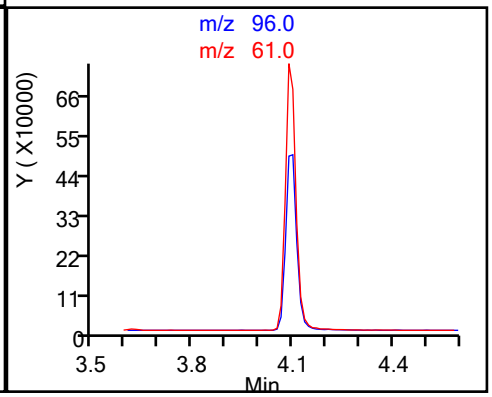












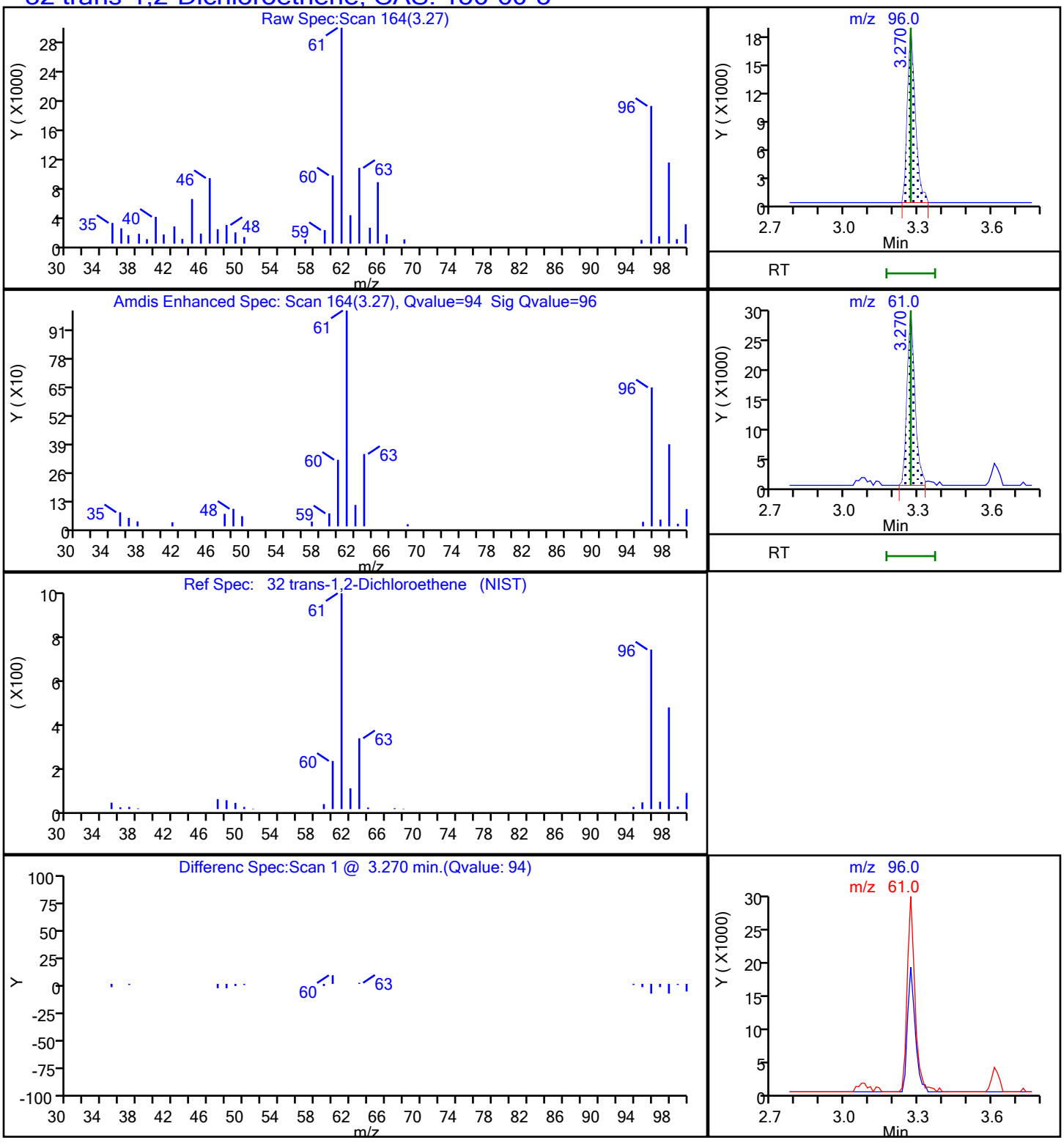
Report Date: 16-Nov-2020 07:53:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D

Injection Date:	15-Nov-2020 17:21:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-1	Lab Sample ID:	240-139671-1		
Client ID:	SW-110320-BE-001				
Operator ID:	43582	ALS Bottle#:	27	Worklist Smp#:	55
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



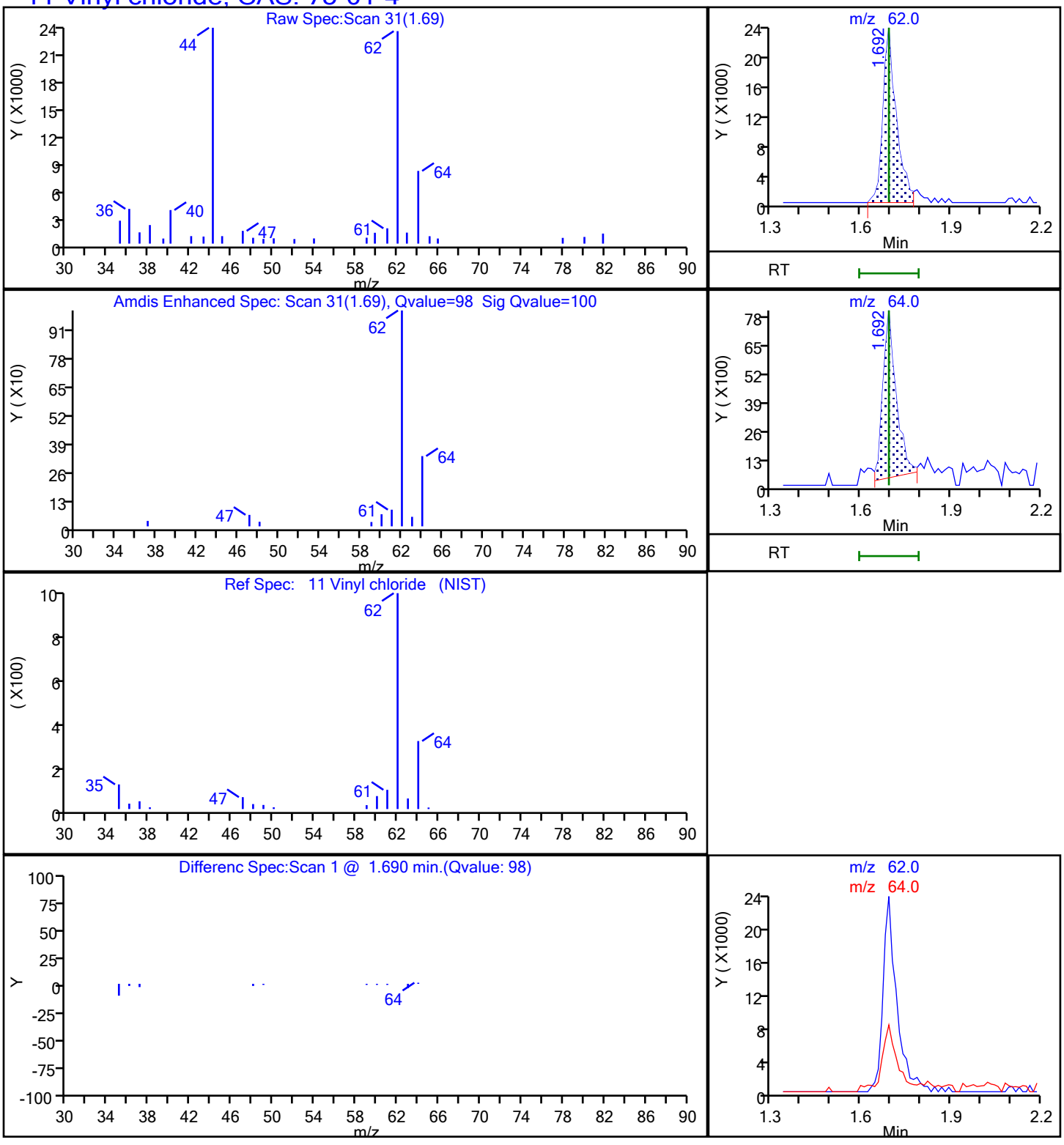
Report Date: 16-Nov-2020 07:53:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3805.D

Injection Date:	15-Nov-2020 17:21:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-1	Lab Sample ID:	240-139671-1		
Client ID:	SW-110320-BE-001				
Operator ID:	43582	ALS Bottle#:	27	Worklist Smp#:	55
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-002 Lab Sample ID: 240-139671-2

Matrix: Water Lab File ID: UXC3806.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 17:43

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10	U	10	2.4
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	1.3
79-00-5	1,1,2-Trichloroethane	10	U F1 *	10	0.90
75-34-3	1,1-Dichloroethane	9.3	J	10	1.7
75-35-4	1,1-Dichloroethene	10	U	10	1.9
107-06-2	1,2-Dichloroethane	10	U	10	2.1
78-87-5	1,2-Dichloropropane	10	U	10	1.5
591-78-6	2-Hexanone	100	U	100	5.4
67-64-1	Acetone	100	U	100	54
71-43-2	Benzene	10	U	10	1.3
75-25-2	Bromoform	10	U	10	7.6
74-83-9	Bromomethane	10	U	10	4.2
75-15-0	Carbon disulfide	10	U *	10	2.8
56-23-5	Carbon tetrachloride	10	U	10	2.6
108-90-7	Chlorobenzene	10	U	10	1.4
75-00-3	Chloroethane	10	U	10	8.3
67-66-3	Chloroform	10	U	10	1.3
74-87-3	Chloromethane	10	U	10	2.0
156-59-2	cis-1,2-Dichloroethene	200		10	1.6
10061-01-5	cis-1,3-Dichloropropene	10	U	10	6.1
75-27-4	Dichlorobromomethane	10	U	10	1.7
100-41-4	Ethylbenzene	10	U	10	1.1
78-93-3	2-Butanone (MEK)	100	U	100	12
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	4.2
75-09-2	Methylene Chloride	50	U	50	26
100-42-5	Styrene	10	U	10	1.0
127-18-4	Tetrachloroethene	10	U	10	1.5
108-88-3	Toluene	10	U	10	1.4
156-60-5	trans-1,2-Dichloroethene	7.1	J	10	1.9
10061-02-6	trans-1,3-Dichloropropene	10	U	10	6.7
79-01-6	Trichloroethene	10	U	10	1.0
75-01-4	Vinyl chloride	9.1	J	10	2.0
1330-20-7	Xylenes, Total	20	U	20	1.5
124-48-1	Chlorodibromomethane	10	U	10	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-002 Lab Sample ID: 240-139671-2

Matrix: Water Lab File ID: UXC3806.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 17:43

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		75-130
460-00-4	4-Bromofluorobenzene (Surr)	80		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	87		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D
Lims ID: 240-139671-B-2
Client ID: SW-110320-BE-002
Sample Type: Client
Inject. Date: 15-Nov-2020 17:43:30 ALS Bottle#: 28 Worklist Smp#: 56
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-056
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:47:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	2003348	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1430452	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	562446	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	91	415083	8.71	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	715253	10.9	
$ 6 Toluene-d8 (Surr)	98	6.401	6.400	0.001	95	1680464	9.46	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	499490	8.03	
10 Chloromethane	50		1.598				ND	
11 Vinyl chloride	62	1.693	1.693	0.000	97	59252	0.9111	
13 Bromomethane	94		1.965				ND	
14 Chloroethane	64		2.037				ND	
19 1,1-Dichloroethene	96		2.653				ND	
21 Acetone	58		2.689				ND	7
24 Carbon disulfide	76		2.843				ND	7
28 Methylene Chloride	84	3.056	3.056	0.000	93	21747	0.4116	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	93	39269	0.7128	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	85246	0.9301	
40 2-Butanone (MEK)	72		4.100				ND	
41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	85	1165086	20.3	
48 Chloroform	83		4.349				ND	7
49 1,1,1-Trichloroethane	97		4.515				ND	
52 Carbon tetrachloride	117		4.645				ND	
55 Benzene	78		4.823				ND	
56 1,2-Dichloroethane	62		4.835				ND	7
60 Trichloroethene	130		5.357				ND	
63 1,2-Dichloropropane	63		5.547				ND	
67 Dichlorobromomethane	83		5.772				ND	
70 cis-1,3-Dichloropropene	75		6.163				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294				ND	
72 Toluene	91		6.460				ND	
73 trans-1,3-Dichloropropene	75		6.649				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.815				ND	
76 Tetrachloroethene	164		6.946				ND	
78 2-Hexanone	43		7.041				ND	
80 Chlorodibromomethane	129		7.183				ND	
84 Chlorobenzene	112		7.740				ND	
86 Ethylbenzene	106		7.835				ND	
87 m-Xylene & p-Xylene	91		7.942				ND	
88 o-Xylene	106		8.322				ND	
89 Styrene	104		8.333				ND	
90 Bromoform	173		8.523				ND	
94 1,1,2,2-Tetrachloroethane	83		8.950				ND	
S 129 Xylenes, Total	106		16.530				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

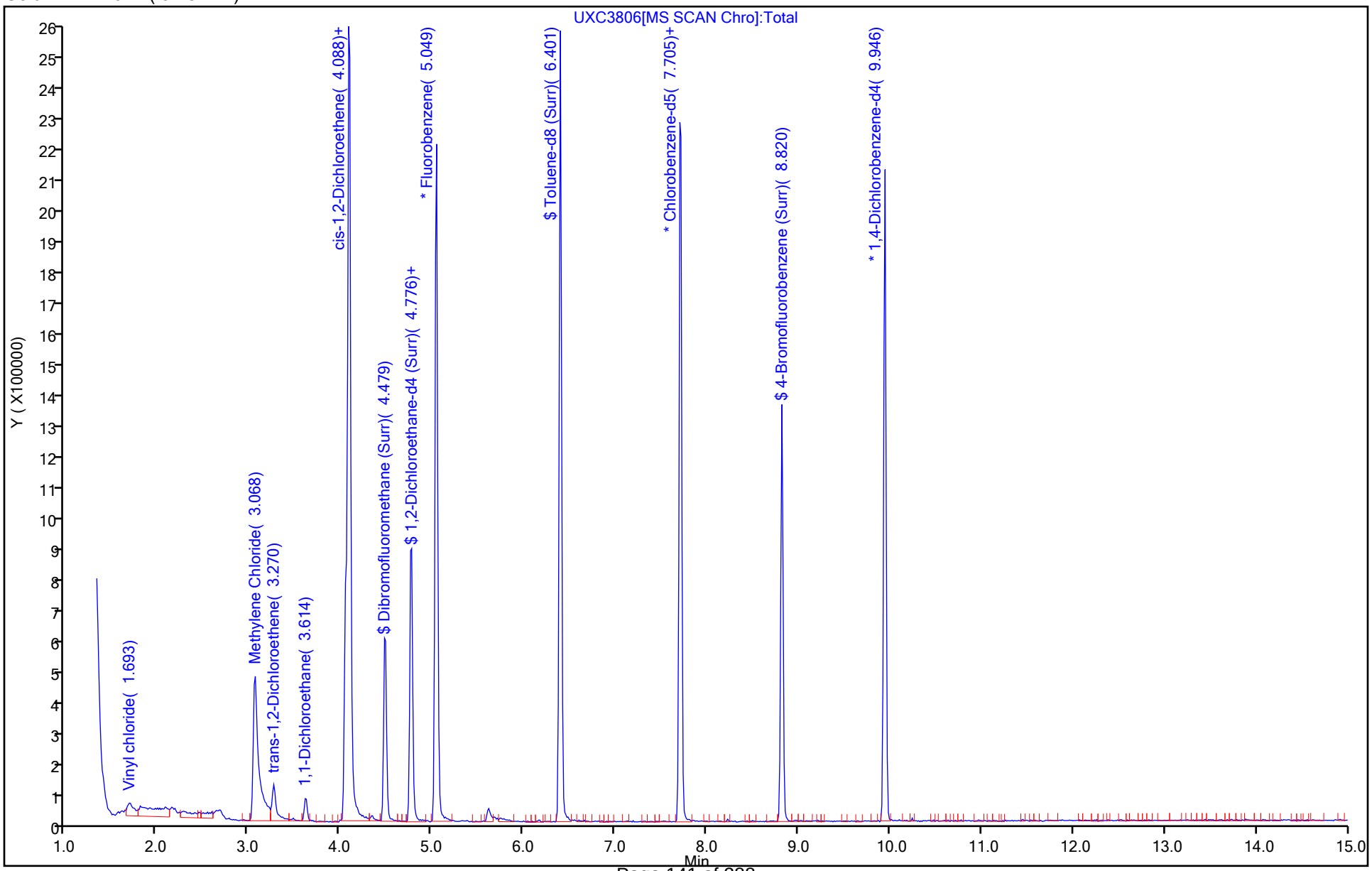
Report Date: 16-Nov-2020 07:53:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D

Injection Date:	15-Nov-2020 17:43:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139671-B-2	Lab Sample ID:	240-139671-2	Worklist Smp#:	56
Client ID:	SW-110320-BE-002				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	28
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D
Lims ID: 240-139671-B-2
Client ID: SW-110320-BE-002
Sample Type: Client
Inject. Date: 15-Nov-2020 17:43:30 ALS Bottle#: 28 Worklist Smp#: 56
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-056
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:47:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.71	87.14
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	108.82
$ 6 Toluene-d8 (Surr)	10.0	9.46	94.59
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.03	80.26

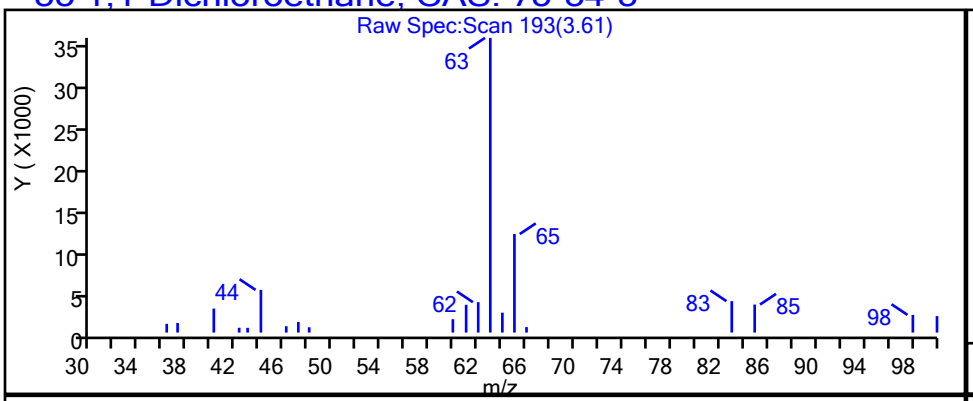
Report Date: 16-Nov-2020 07:53:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

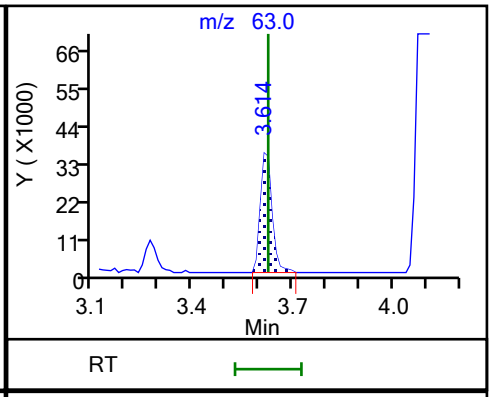
Eurofins TestAmerica, Canton

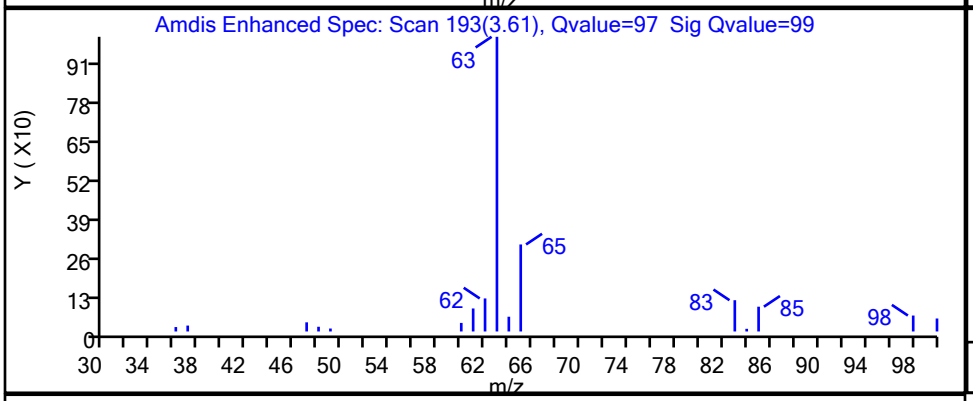
Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D

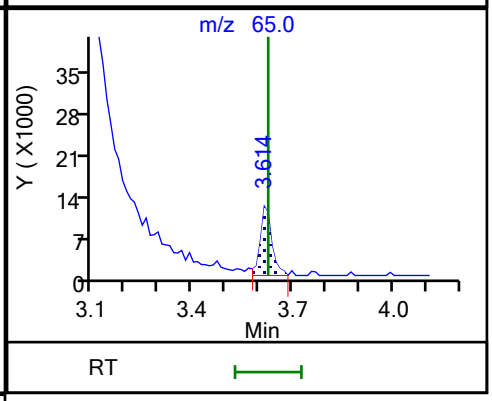
Injection Date:	15-Nov-2020 17:43:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-2	Lab Sample ID:	240-139671-2		
Client ID:	SW-110320-BE-002				
Operator ID:	43582	ALS Bottle#:	28	Worklist Smp#:	56
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

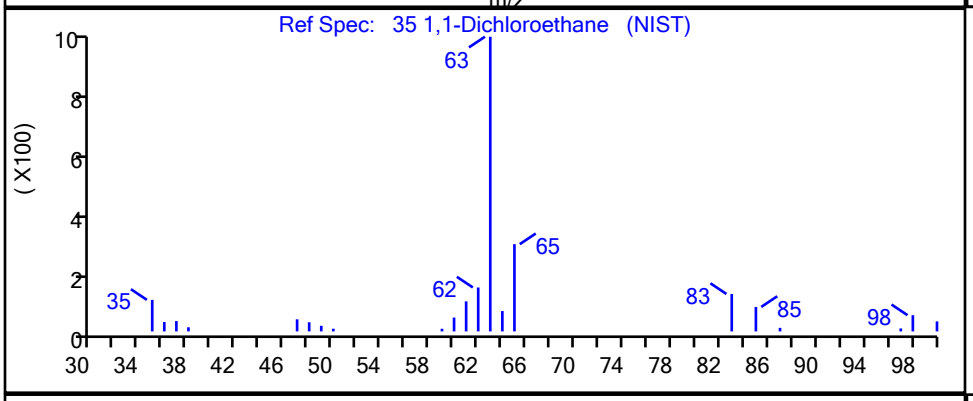
35 1,1-Dichloroethane, CAS: 75-34-3

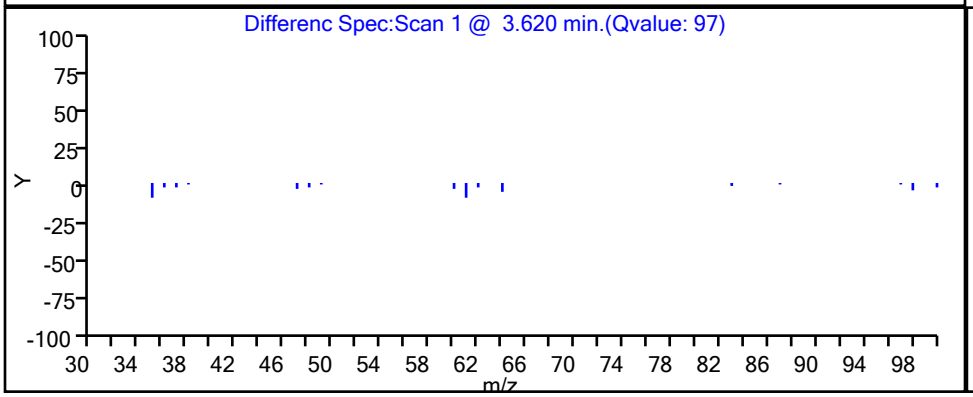


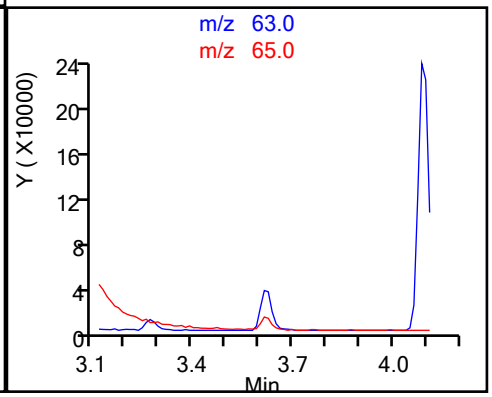












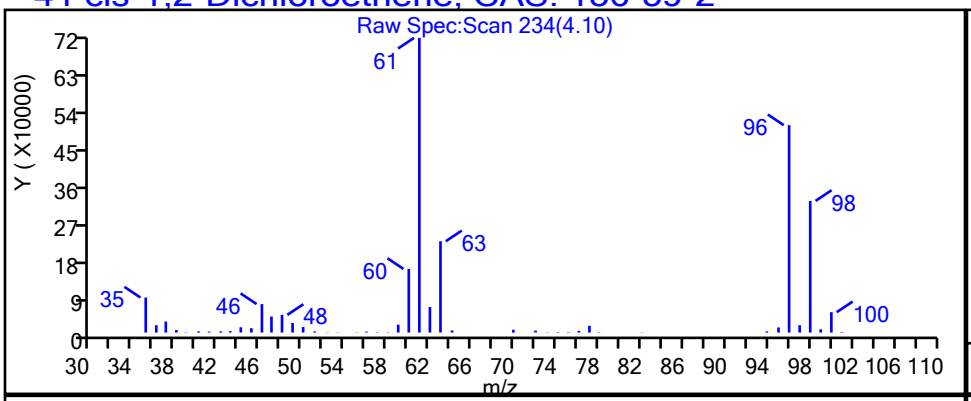
Report Date: 16-Nov-2020 07:53:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

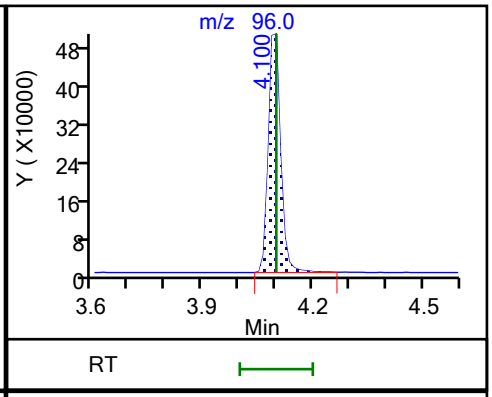
Eurofins TestAmerica, Canton

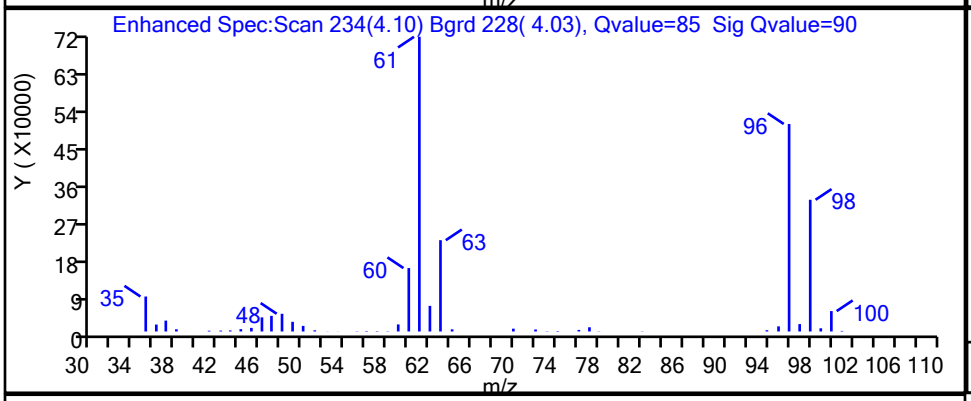
Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D

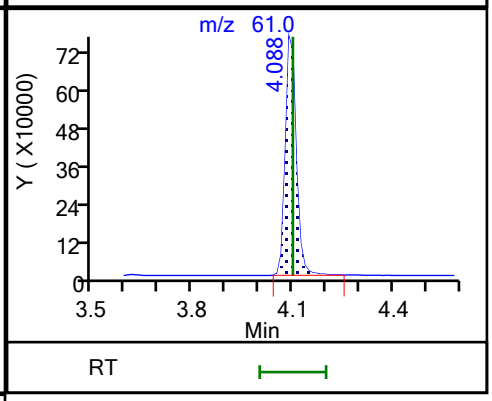
Injection Date:	15-Nov-2020 17:43:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-2	Lab Sample ID:	240-139671-2		
Client ID:	SW-110320-BE-002				
Operator ID:	43582	ALS Bottle#:	28	Worklist Smp#:	56
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

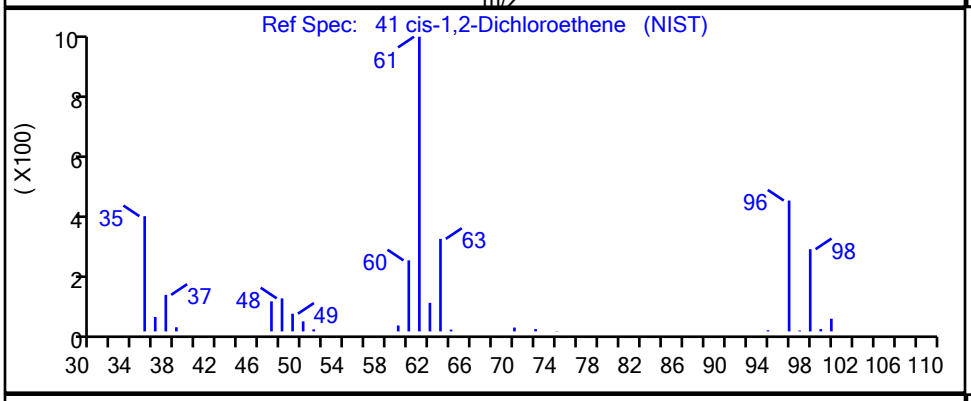
41 cis-1,2-Dichloroethene, CAS: 156-59-2

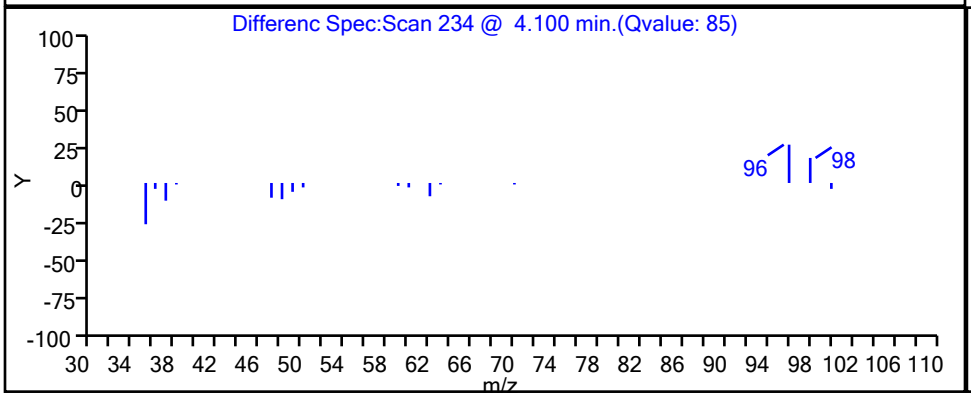


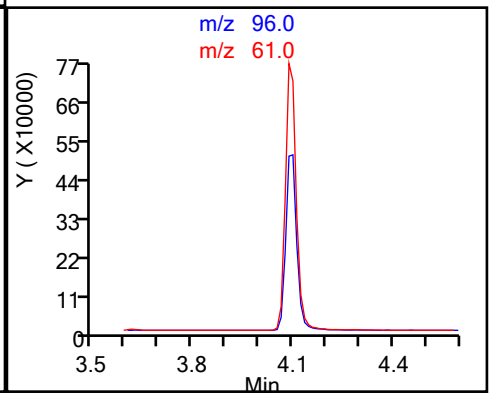












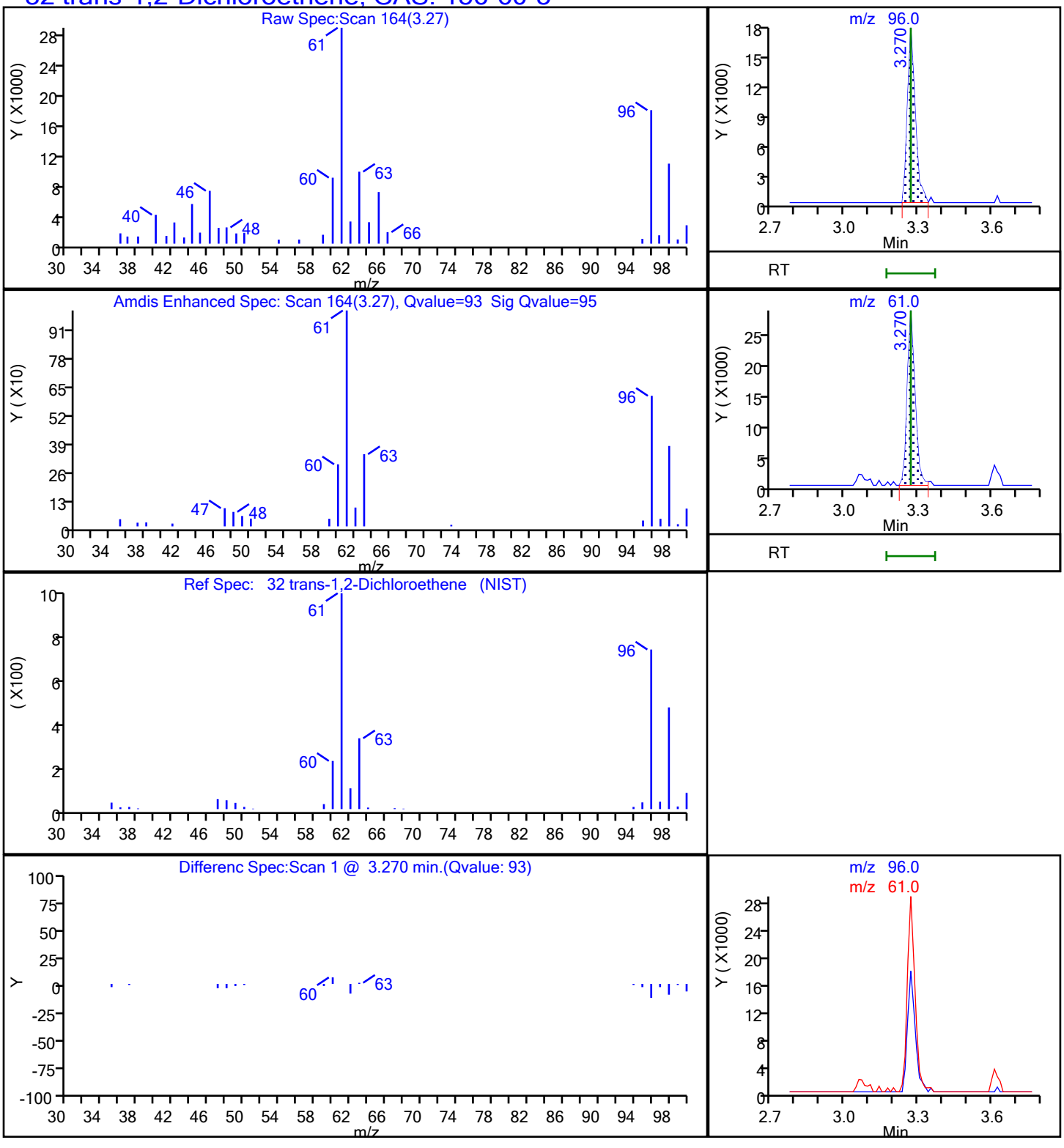
Report Date: 16-Nov-2020 07:53:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D

Injection Date:	15-Nov-2020 17:43:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-2	Lab Sample ID:	240-139671-2		
Client ID:	SW-110320-BE-002				
Operator ID:	43582	ALS Bottle#:	28	Worklist Smp#:	56
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

32 trans-1,2-Dichloroethene, CAS: 156-60-5



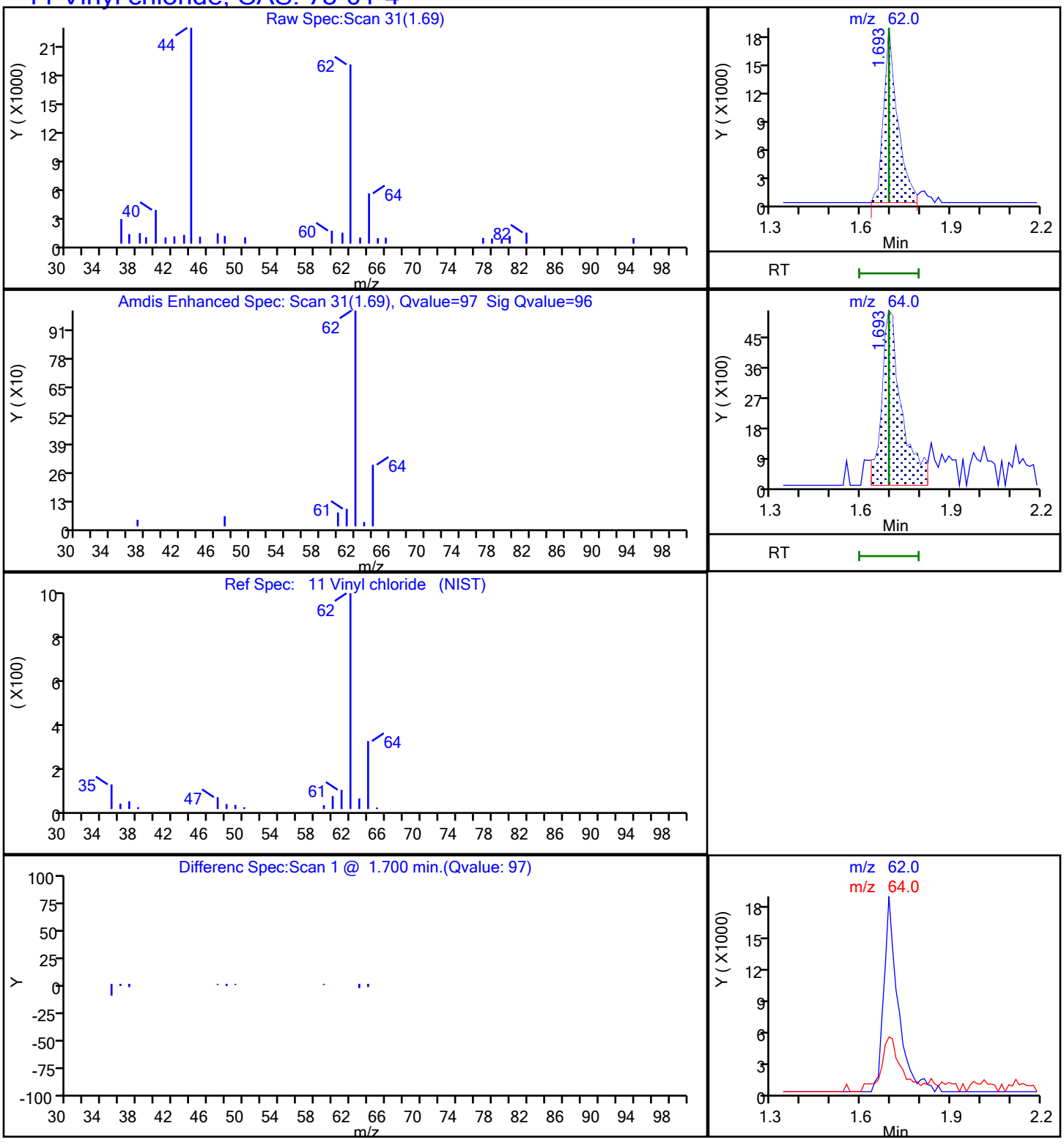
Report Date: 16-Nov-2020 07:53:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3806.D

Injection Date:	15-Nov-2020 17:43:30	Instrument ID:	A3UX15		
Lims ID:	240-139671-B-2	Lab Sample ID:	240-139671-2		
Client ID:	SW-110320-BE-002				
Operator ID:	43582	ALS Bottle#:	28	Worklist Smp#:	56
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	8260_15	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-003 Lab Sample ID: 240-139671-3

Matrix: Water Lab File ID: UXJ4106.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:20

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 18:56

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.5	U	2.5	0.60
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.33
79-00-5	1,1,2-Trichloroethane	2.5	U	2.5	0.23
75-34-3	1,1-Dichloroethane	3.9		2.5	0.43
75-35-4	1,1-Dichloroethene	2.5	U	2.5	0.48
107-06-2	1,2-Dichloroethane	2.5	U	2.5	0.53
78-87-5	1,2-Dichloropropane	2.5	U	2.5	0.38
591-78-6	2-Hexanone	25	U	25	1.4
67-64-1	Acetone	25	U	25	14
71-43-2	Benzene	2.5	U	2.5	0.33
75-25-2	Bromoform	2.5	U	2.5	1.9
74-83-9	Bromomethane	2.5	U	2.5	1.1
75-15-0	Carbon disulfide	2.5	U	2.5	0.70
56-23-5	Carbon tetrachloride	2.5	U	2.5	0.65
108-90-7	Chlorobenzene	2.5	U	2.5	0.35
75-00-3	Chloroethane	2.5	U	2.5	2.1
67-66-3	Chloroform	2.5	U	2.5	0.33
74-87-3	Chloromethane	2.5	U	2.5	0.50
156-59-2	cis-1,2-Dichloroethene	76		2.5	0.40
10061-01-5	cis-1,3-Dichloropropene	2.5	U	2.5	1.5
75-27-4	Dichlorobromomethane	2.5	U	2.5	0.43
100-41-4	Ethylbenzene	2.5	U	2.5	0.28
78-93-3	2-Butanone (MEK)	25	U	25	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.1
75-09-2	Methylene Chloride	13	U	13	6.6
100-42-5	Styrene	2.5	U	2.5	0.25
127-18-4	Tetrachloroethene	2.5	U	2.5	0.38
108-88-3	Toluene	2.5	U	2.5	0.35
156-60-5	trans-1,2-Dichloroethene	2.4	J	2.5	0.48
10061-02-6	trans-1,3-Dichloropropene	2.5	U	2.5	1.7
79-01-6	Trichloroethene	2.5	U	2.5	0.25
75-01-4	Vinyl chloride	3.9		2.5	0.50
1330-20-7	Xylenes, Total	5.0	U	5.0	0.38
124-48-1	Chlorodibromomethane	2.5	U	2.5	0.98

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-003 Lab Sample ID: 240-139671-3

Matrix: Water Lab File ID: UXJ4106.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:20

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 18:56

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-130
460-00-4	4-Bromofluorobenzene (Surr)	98		47-134
2037-26-5	Toluene-d8 (Surr)	104		69-122
1868-53-7	Dibromofluoromethane (Surr)	119		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D
Lims ID: 240-139671-B-3
Client ID: SW-110320-BE-003
Sample Type: Client
Inject. Date: 15-Nov-2020 18:56:30 ALS Bottle#: 30 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 2.5000
Sample Info: 240-0103971-032
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:22:56

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	4.713	4.712	0.001	99	797267	20.0	
*	2 Chlorobenzene-d5	117	7.363	7.363	0.000	88	569931	20.0	
*	3 1,4-Dichlorobenzene-d4	152	9.588	9.588	0.000	95	189792	20.0	
$	4 Dibromofluoromethane (Surr)	113	4.145	4.144	0.001	98	191050	23.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.429	4.428	0.001	97	220613	21.7	
$	6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	93	781667	20.9	
$	7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	97	244299	19.6	
	12 Chloromethane	50		1.340				ND	
	14 Vinyl chloride	62	1.411	1.411	0.000	93	14074	1.57	
	15 Bromomethane	94		1.624				ND	
	16 Chloroethane	64		1.695				ND	
	21 1,1-Dichloroethene	96		2.287				ND	
	24 Acetone	43		2.334				ND	7
	26 Carbon disulfide	76		2.452				ND	
	30 Methylene Chloride	84	2.677	2.689	-0.012	89	5060	0.1436	
	33 trans-1,2-Dichloroethene	96	2.914	2.926	-0.012	97	8625	0.9540	
	36 1,1-Dichloroethane	63	3.269	3.269	0.000	96	20646	1.54	
	41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	78	294717	30.4	
	43 2-Butanone (MEK)	43		3.778				ND	U
	48 Chloroform	83		4.014				ND	
	50 1,1,1-Trichloroethane	97		4.180				ND	
	52 Carbon tetrachloride	117		4.310				ND	
	55 Benzene	78		4.476				ND	
	56 1,2-Dichloroethane	62		4.488				ND	
	60 Trichloroethene	130		5.032				ND	
	63 1,2-Dichloropropane	63		5.209				ND	
	67 Dichlorobromomethane	83		5.446				ND	
	70 cis-1,3-Dichloropropene	75		5.837				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		5.990				ND	
	72 Toluene	91		6.132				ND	
	73 trans-1,3-Dichloropropene	75		6.322				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.487				ND	
76 Tetrachloroethene	164		6.618				ND	
78 2-Hexanone	43		6.724				ND	
80 Chlorodibromomethane	129		6.831				ND	
84 Chlorobenzene	112		7.399				ND	
86 Ethylbenzene	106		7.505				ND	
87 m-Xylene & p-Xylene	106		7.612				ND	
89 o-Xylene	106		7.978				ND	
88 Styrene	104		7.990				ND	
90 Bromoform	173		8.156				ND	
94 1,1,2,2-Tetrachloroethane	83		8.606				ND	
S 132 Xylenes, Total	106		16.030				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

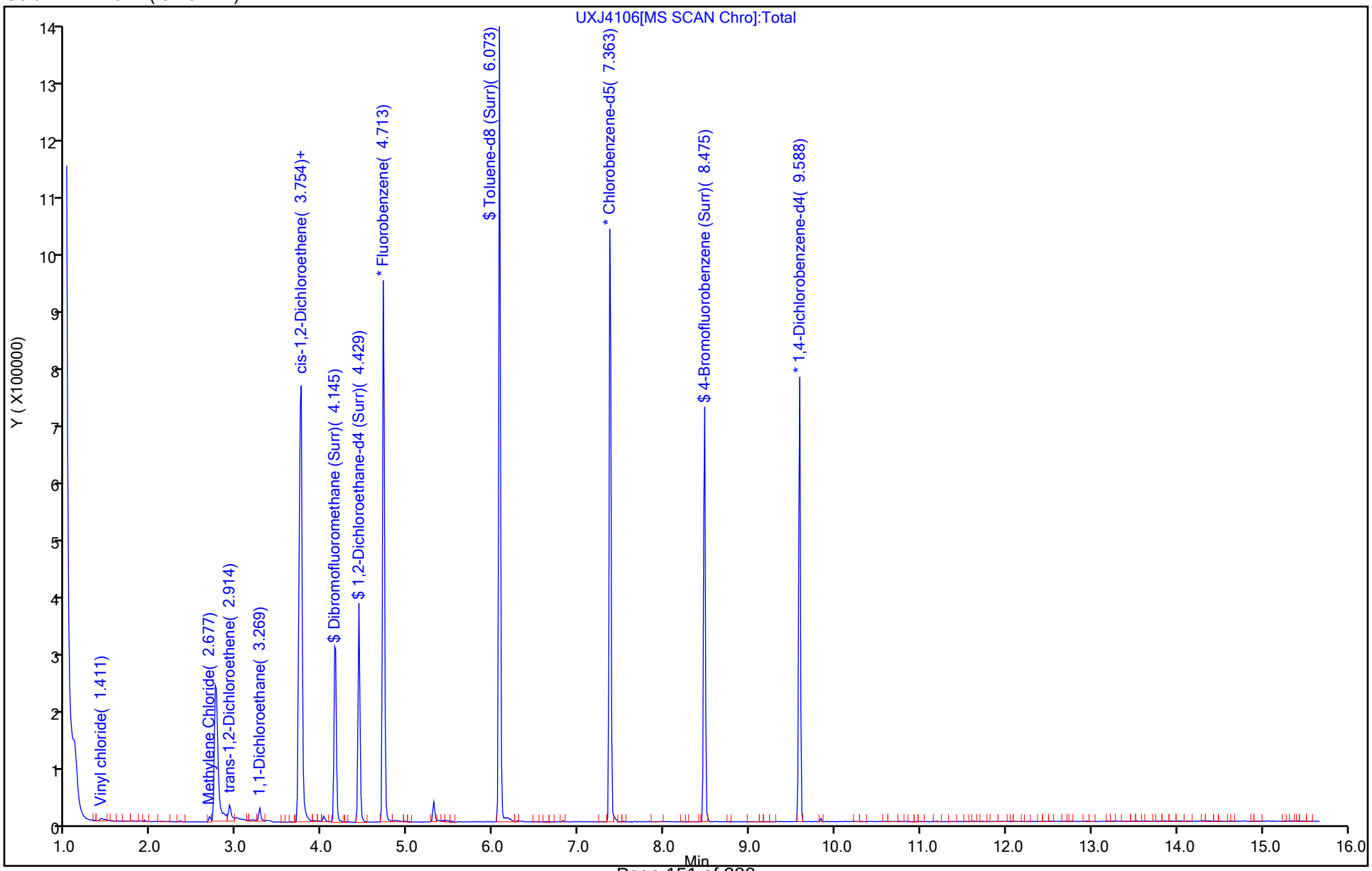
Report Date: 16-Nov-2020 07:32:06 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D

Injection Date:	15-Nov-2020 18:56:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	240-139671-B-3	Lab Sample ID:	240-139671-3	Worklist Smp#:	32
Client ID:	SW-110320-BE-003				
Purge Vol:	5.000 mL	Dil. Factor:	2.5000	ALS Bottle#:	30
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D				
Lims ID:	240-139671-B-3				
Client ID:	SW-110320-BE-003				
Sample Type:	Client				
Inject. Date:	15-Nov-2020 18:56:30	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Sample Info:	240-0103971-032				
Misc. Info.:	J201115A,8260LLUX11,,43582				
Operator ID:	043582	Instrument ID:	A3UX11		
Method:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	16-Nov-2020 07:31:19	Calib Date:	23-Jul-2020 18:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1649				

First Level Reviewer: evansle Date: 16-Nov-2020 07:22:56

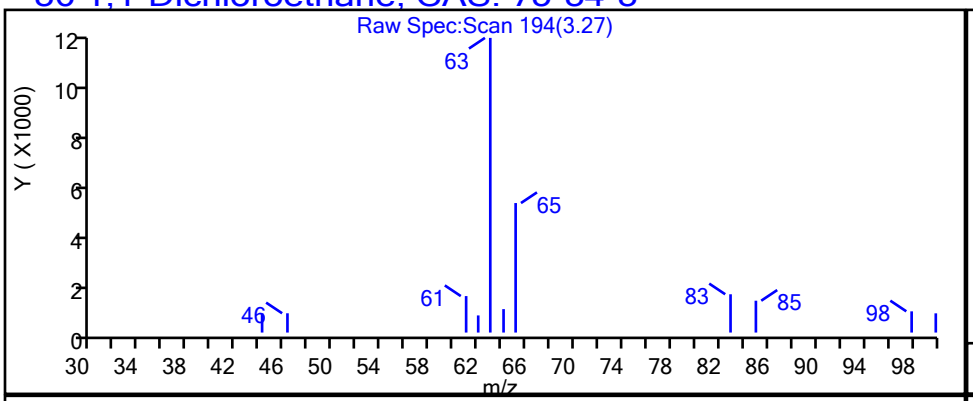
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.7	118.68
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.7	108.38
$ 6 Toluene-d8 (Surr)	20.0	20.9	104.45
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.6	97.97

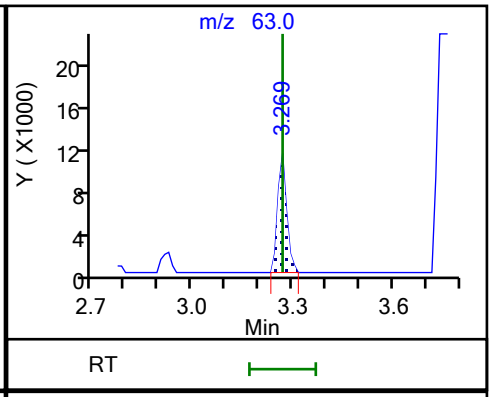
Report Date: 16-Nov-2020 07:32:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

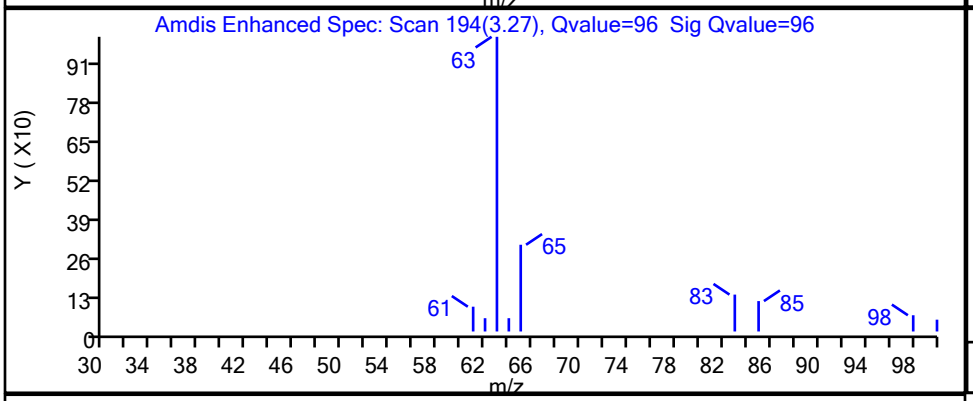
Eurofins TestAmerica, Canton

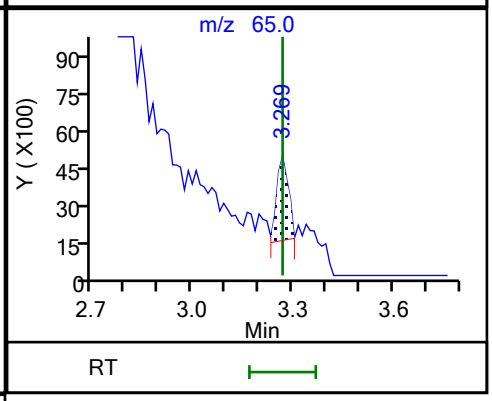
Data File:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D				
Injection Date:	15-Nov-2020 18:56:30	Instrument ID:	A3UX11		
Lims ID:	240-139671-B-3	Lab Sample ID:	240-139671-3		
Client ID:	SW-110320-BE-003				
Operator ID:	043582	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

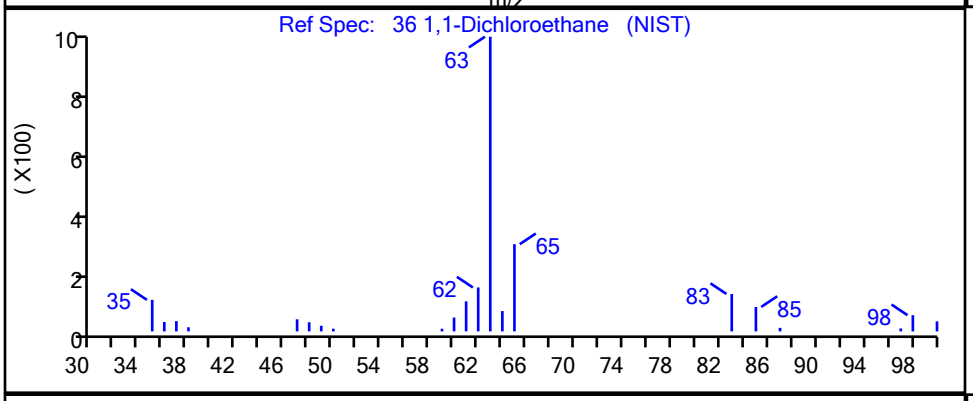
36 1,1-Dichloroethane, CAS: 75-34-3

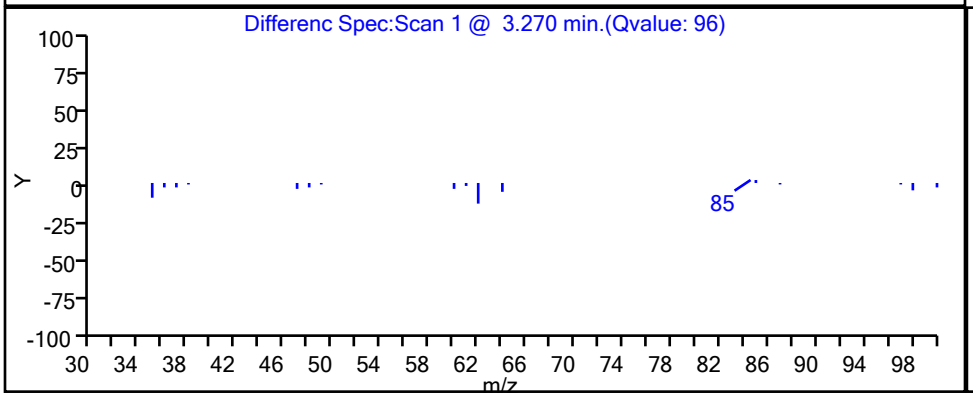


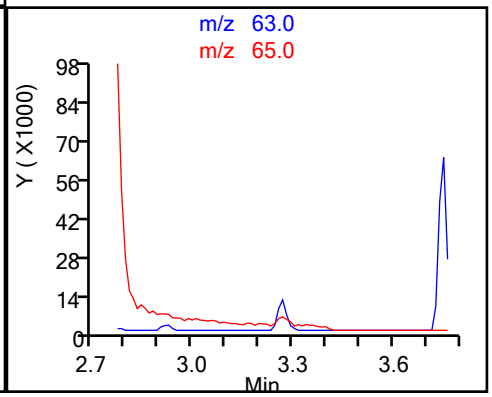












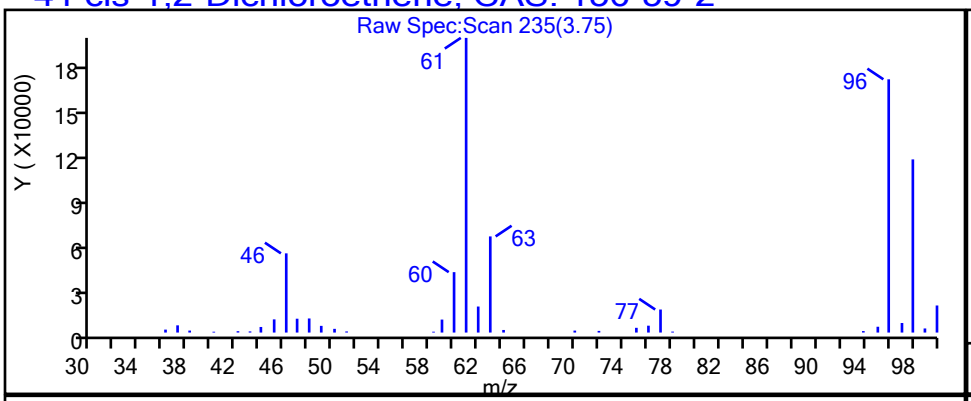
Report Date: 16-Nov-2020 07:32:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

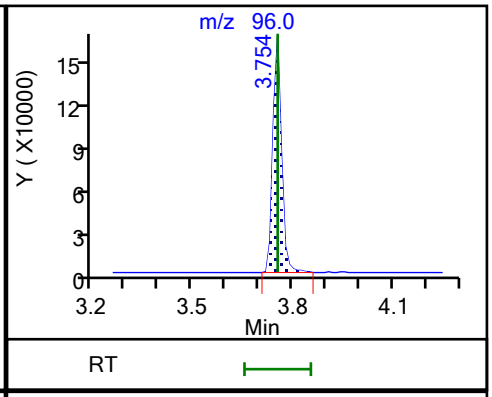
Eurofins TestAmerica, Canton

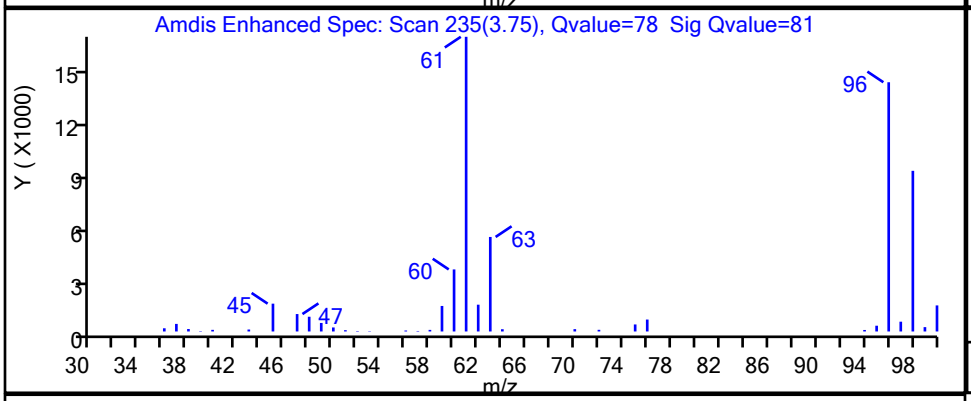
Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D

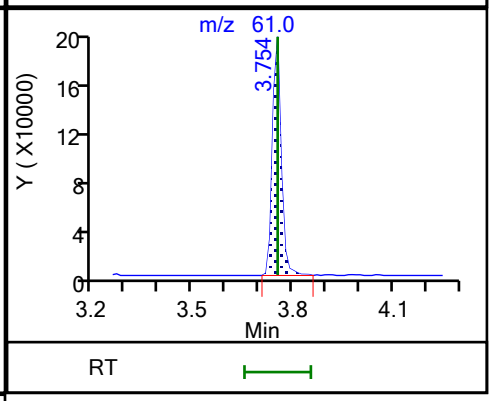
Injection Date:	15-Nov-2020 18:56:30	Instrument ID:	A3UX11		
Lims ID:	240-139671-B-3	Lab Sample ID:	240-139671-3		
Client ID:	SW-110320-BE-003				
Operator ID:	043582	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

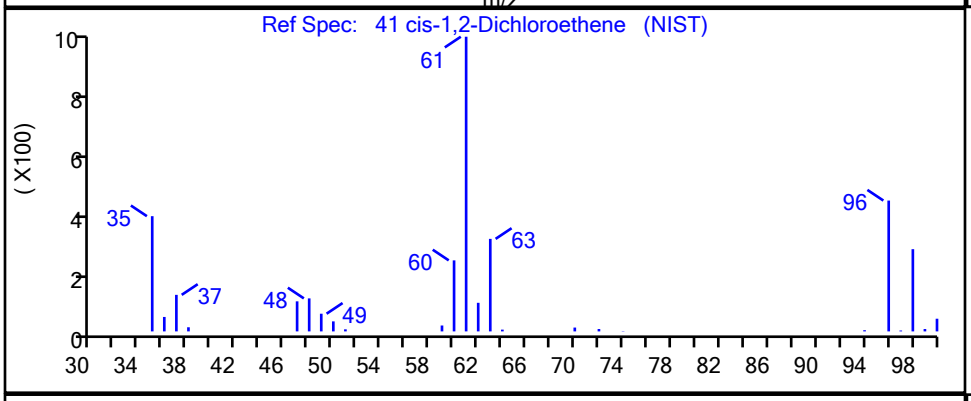
41 cis-1,2-Dichloroethene, CAS: 156-59-2

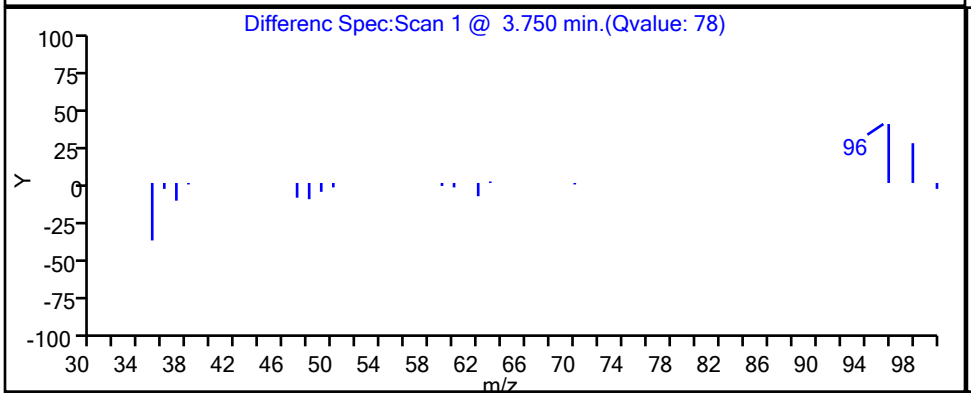


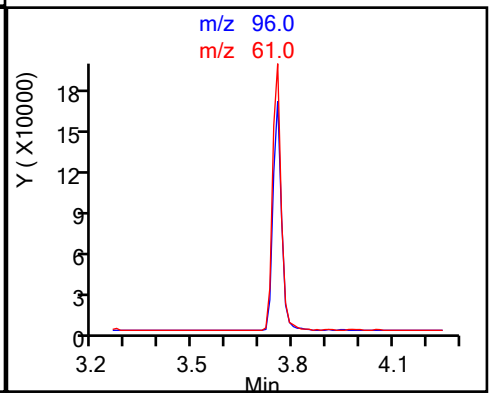












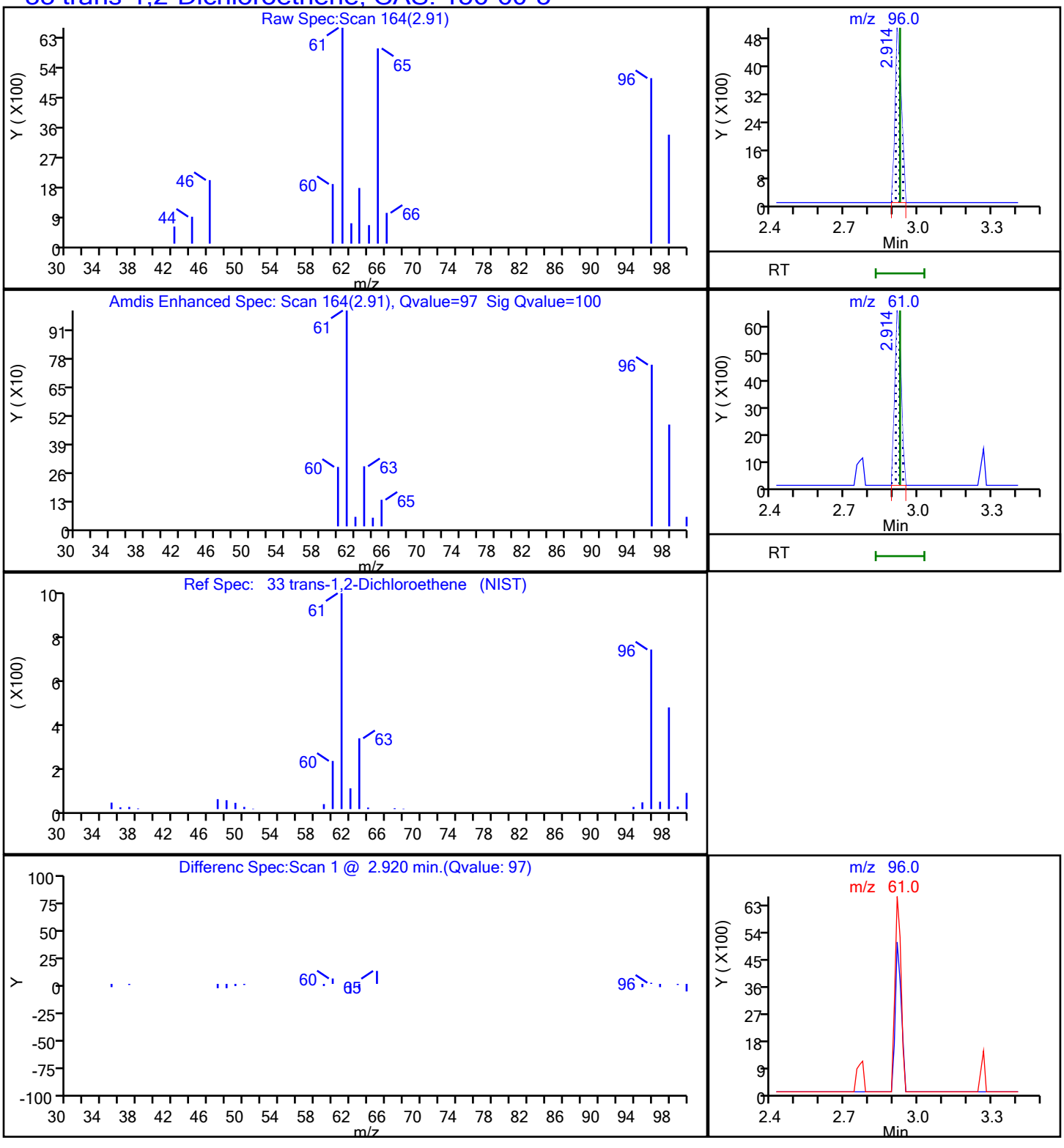
Report Date: 16-Nov-2020 07:32:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D

Injection Date:	15-Nov-2020 18:56:30	Instrument ID:	A3UX11		
Lims ID:	240-139671-B-3	Lab Sample ID:	240-139671-3		
Client ID:	SW-110320-BE-003				
Operator ID:	043582	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

33 trans-1,2-Dichloroethene, CAS: 156-60-5

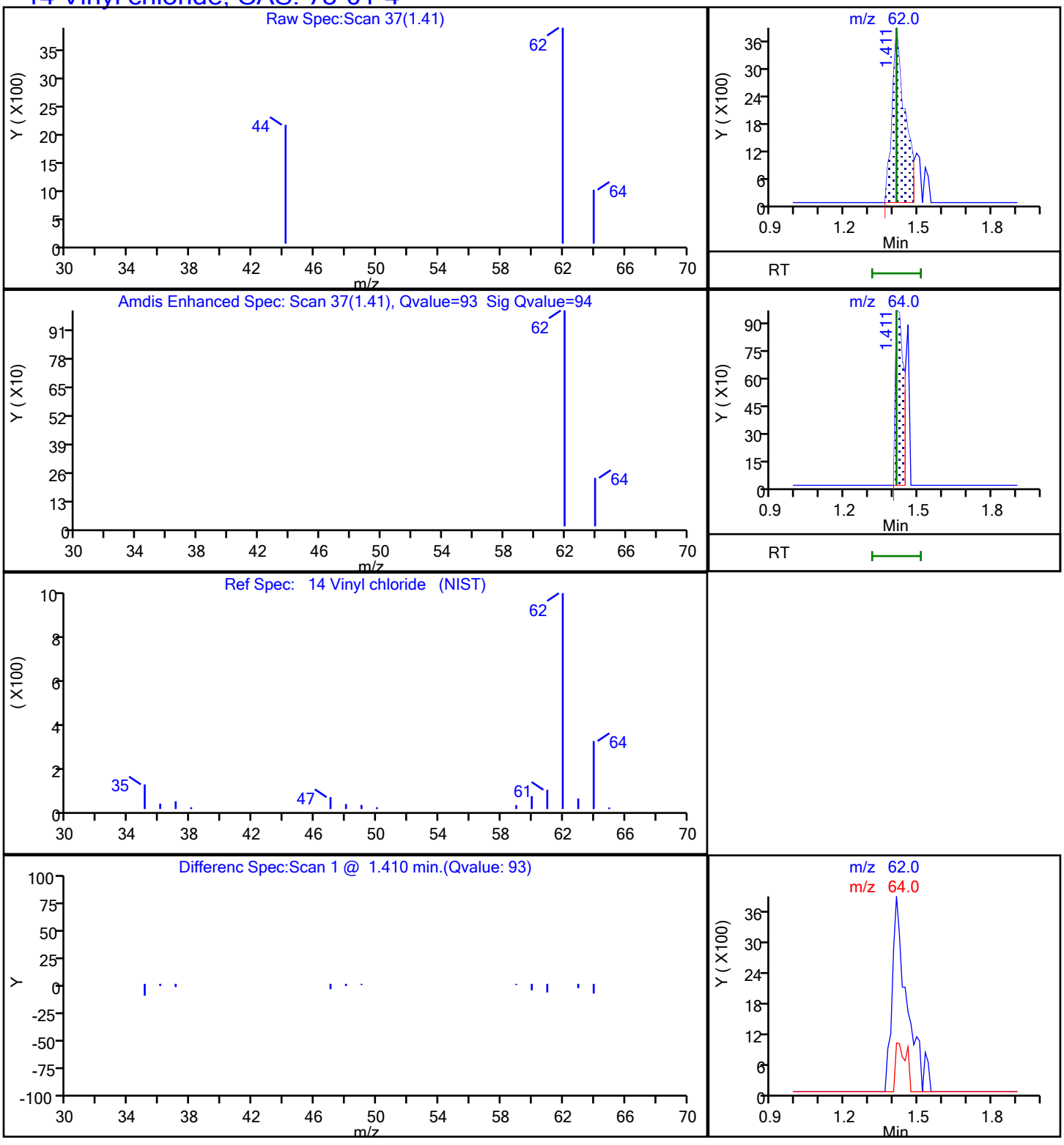


Report Date: 16-Nov-2020 07:32:06 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D				
Injection Date:	15-Nov-2020 18:56:30	Instrument ID:	A3UX11		
Lims ID:	240-139671-B-3	Lab Sample ID:	240-139671-3		
Client ID:	SW-110320-BE-003				
Operator ID:	043582	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4



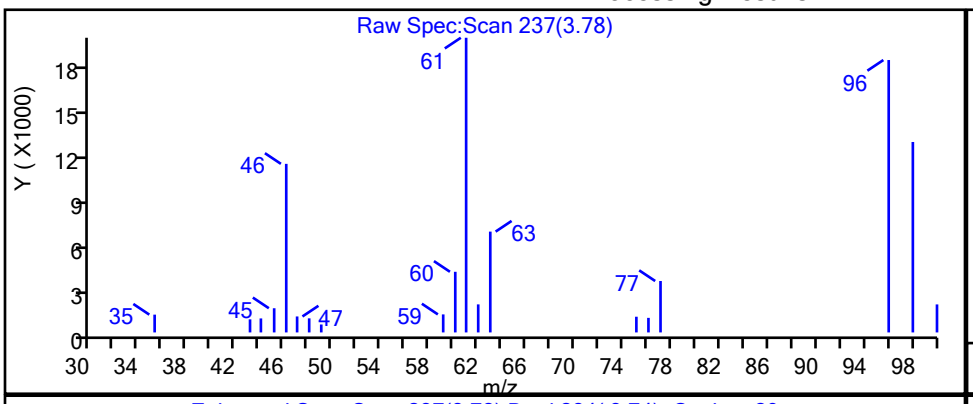
User Disabled Compound Report

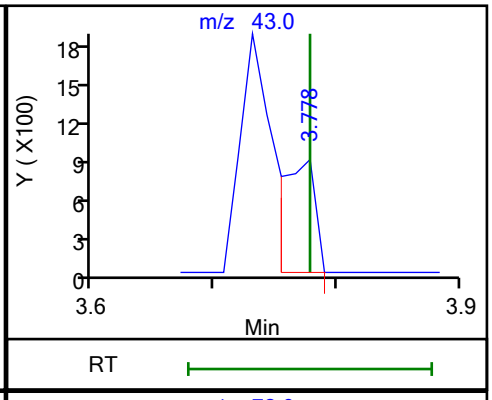
Eurofins TestAmerica, Canton

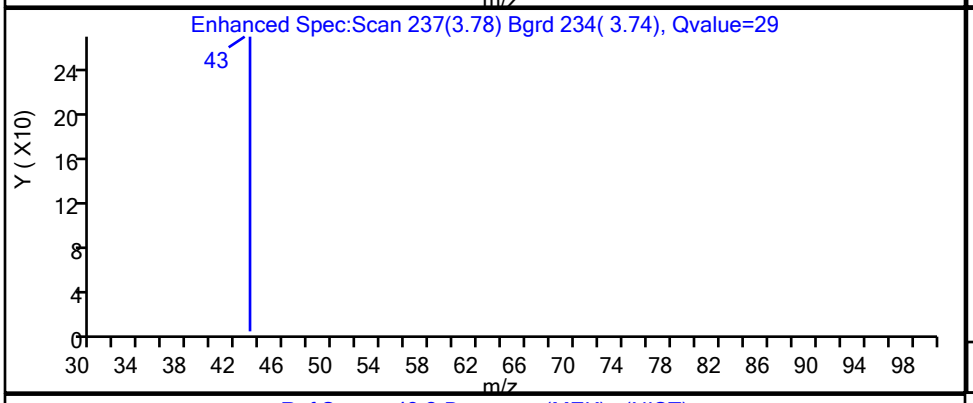
Data File:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4106.D				
Injection Date:	15-Nov-2020 18:56:30	Instrument ID:	A3UX11		
Lims ID:	240-139671-B-3	Lab Sample ID:	240-139671-3		
Client ID:	SW-110320-BE-003				
Operator ID:	043582	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

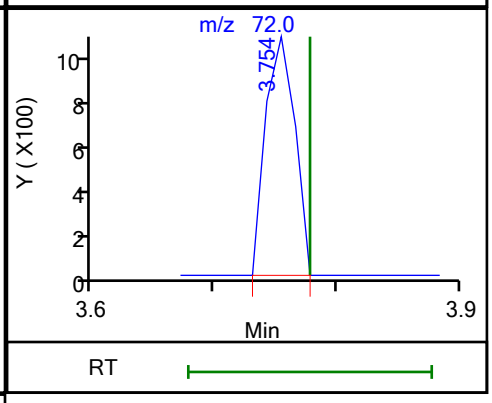
43 2-Butanone (MEK), CAS: 78-93-3

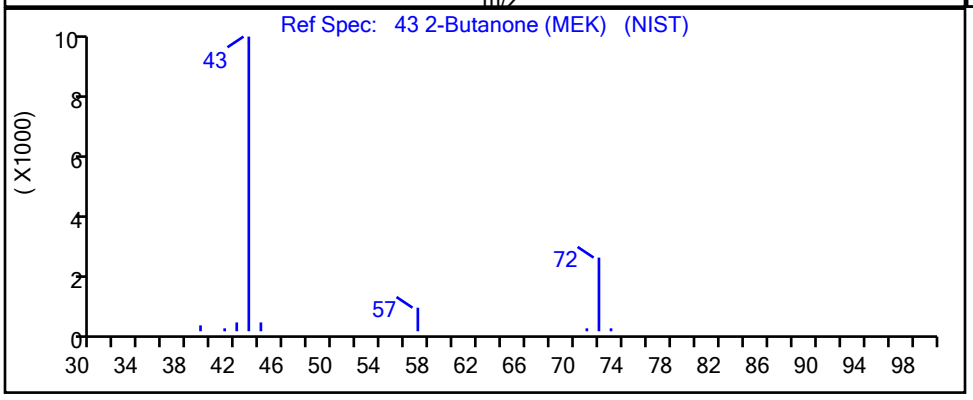
Processing Results











RT	Mass	Response	Amount
3.78	43.00	1708	0.272353
3.75	72.00	1823	

Reviewer: evansle, 16-Nov-2020 07:22:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: TB-110320-BE-001 Lab Sample ID: 240-139671-4

Matrix: Water Lab File ID: UXJ4107.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:30

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: TB-110320-BE-001 Lab Sample ID: 240-139671-4

Matrix: Water Lab File ID: UXJ4107.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:30

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 19:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		75-130
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
2037-26-5	Toluene-d8 (Surr)	110		69-122
1868-53-7	Dibromofluoromethane (Surr)	117		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4107.D
Lims ID: 240-139671-A-4
Client ID: TB-110320-BE-001
Sample Type: Client
Inject. Date: 15-Nov-2020 19:18:30 ALS Bottle#: 31 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-033
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:24:15

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	4.712	4.712	0.000	99	605273	20.0	
*	2 Chlorobenzene-d5	117	7.363	7.363	0.000	88	405675	20.0	
*	3 1,4-Dichlorobenzene-d4	152	9.588	9.588	0.000	96	156209	20.0	
$	4 Dibromofluoromethane (Surr)	113	4.144	4.144	0.000	96	142607	23.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	99	180968	23.4	
$	6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	93	586090	22.0	
$	7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	98	176300	19.9	
	12 Chloromethane	50		1.340				ND	
	14 Vinyl chloride	62		1.411				ND	
	15 Bromomethane	94		1.624				ND	
	16 Chloroethane	64		1.695				ND	
	21 1,1-Dichloroethene	96		2.287				ND	
	24 Acetone	43	2.346	2.334	0.012	99	12617	3.80	
	26 Carbon disulfide	76		2.452				ND	
	30 Methylene Chloride	84		2.689				ND	7
	33 trans-1,2-Dichloroethene	96		2.926				ND	
	36 1,1-Dichloroethane	63		3.269				ND	
	41 cis-1,2-Dichloroethene	96		3.754				ND	
	43 2-Butanone (MEK)	43		3.778				ND	U
	48 Chloroform	83		4.014				ND	
	50 1,1,1-Trichloroethane	97		4.180				ND	
	52 Carbon tetrachloride	117		4.310				ND	
	55 Benzene	78		4.476				ND	
	56 1,2-Dichloroethane	62		4.488				ND	
	60 Trichloroethene	130		5.032				ND	
	63 1,2-Dichloropropane	63		5.209				ND	
	67 Dichlorobromomethane	83		5.446				ND	
	70 cis-1,3-Dichloropropene	75		5.837				ND	
	71 4-Methyl-2-pentanone (MIBK)	43		5.990				ND	
	72 Toluene	91		6.132				ND	
	73 trans-1,3-Dichloropropene	75		6.322				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97		6.487				ND	
76 Tetrachloroethene	164		6.618				ND	
78 2-Hexanone	43		6.724				ND	
80 Chlorodibromomethane	129		6.831				ND	
84 Chlorobenzene	112		7.399				ND	
86 Ethylbenzene	106		7.505				ND	
87 m-Xylene & p-Xylene	106		7.612				ND	
89 o-Xylene	106		7.978				ND	
88 Styrene	104		7.990				ND	
90 Bromoform	173		8.156				ND	
94 1,1,2,2-Tetrachloroethane	83		8.606				ND	
S 132 Xylenes, Total	106		16.030				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

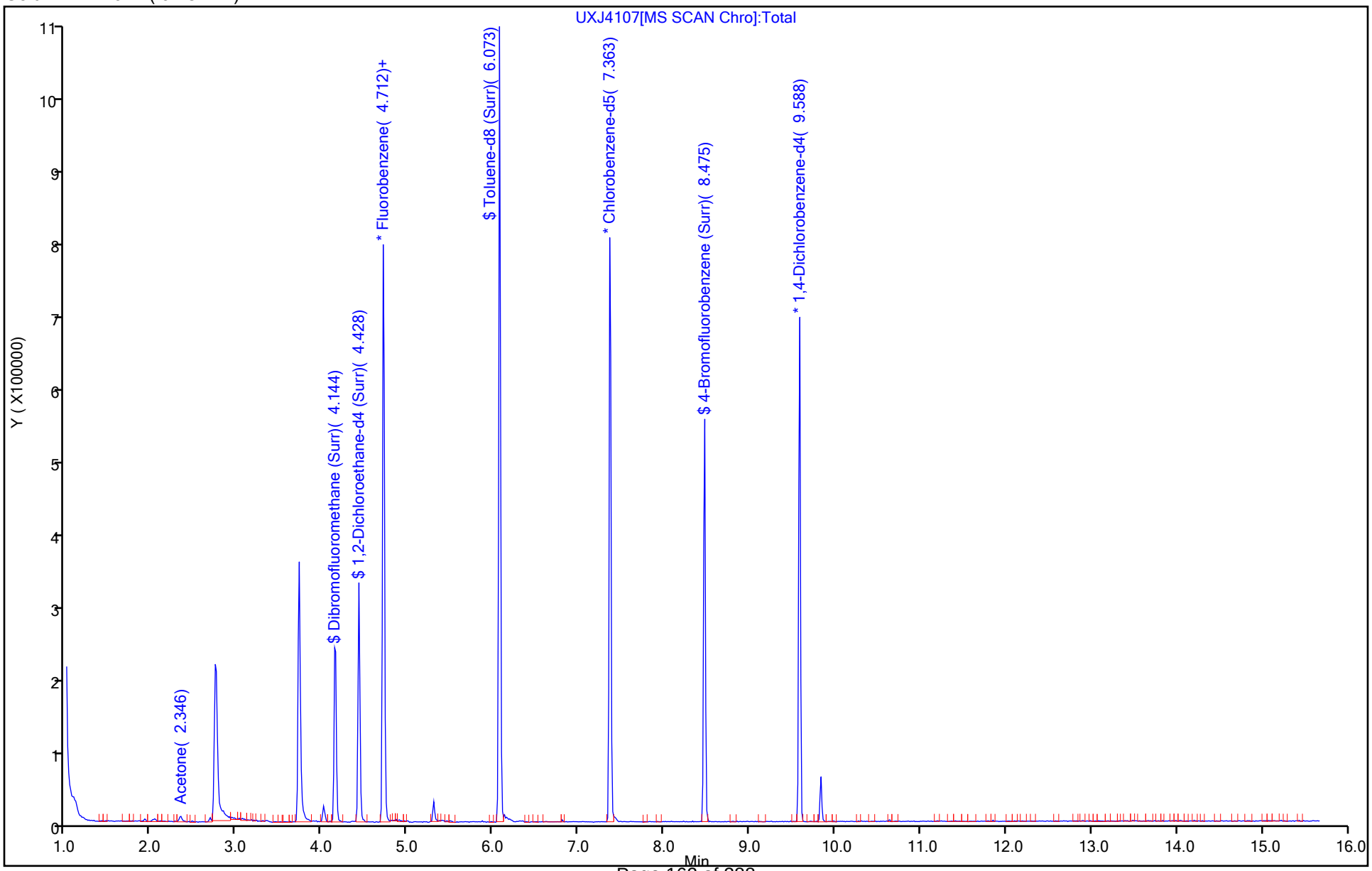
Report Date: 16-Nov-2020 07:32:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4107.D

Injection Date:	15-Nov-2020 19:18:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	240-139671-A-4	Lab Sample ID:	240-139671-4	Worklist Smp#:	33
Client ID:	TB-110320-BE-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4107.D
Lims ID: 240-139671-A-4
Client ID: TB-110320-BE-001
Sample Type: Client
Inject. Date: 15-Nov-2020 19:18:30 ALS Bottle#: 31 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-033
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:24:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.3	116.69
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	23.4	117.11
$ 6 Toluene-d8 (Surr)	20.0	22.0	110.02
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.9	99.33

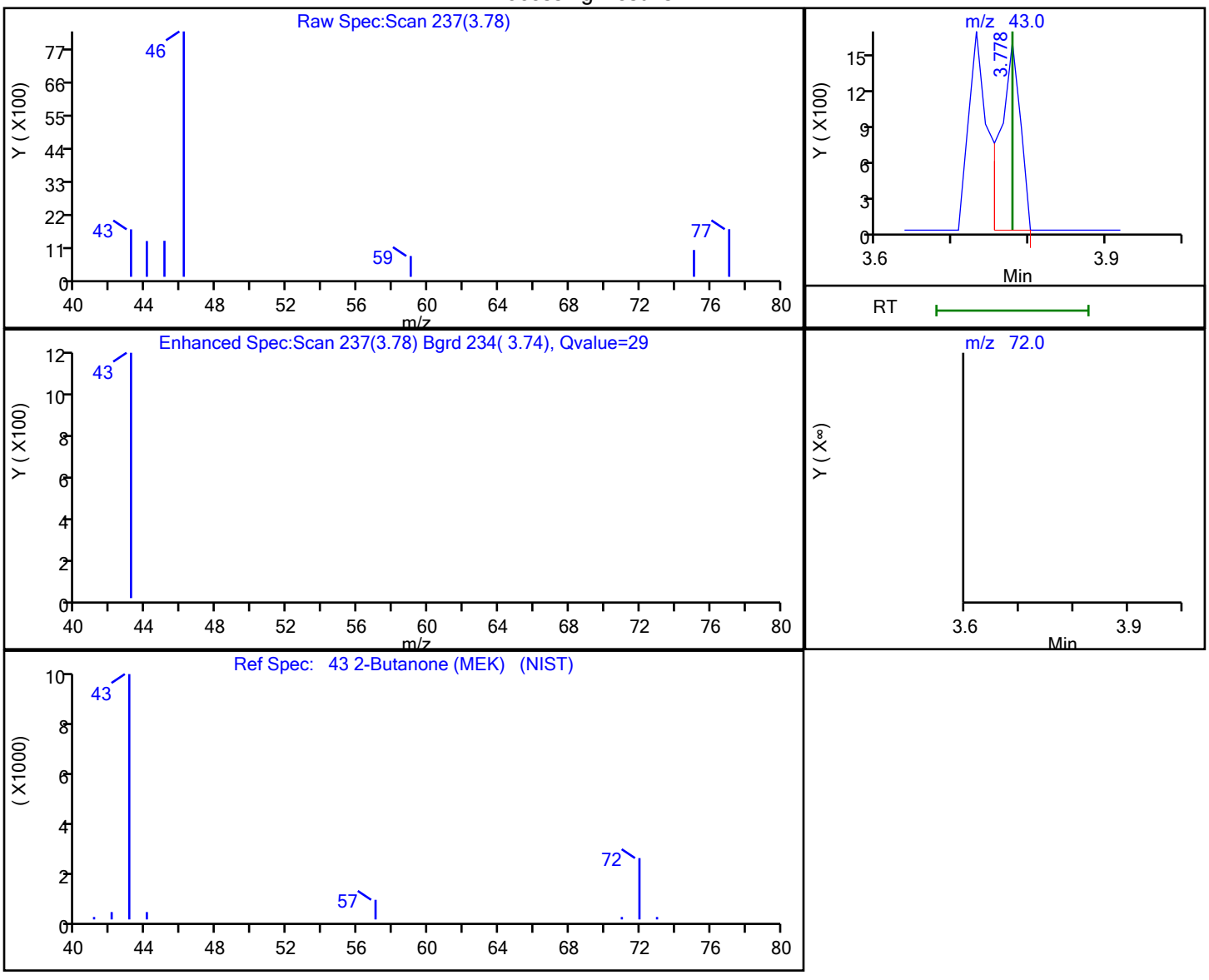
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4107.D				
Injection Date:	15-Nov-2020 19:18:30	Instrument ID:	A3UX11		
Lims ID:	240-139671-A-4	Lab Sample ID:	240-139671-4		
Client ID:	TB-110320-BE-001				
Operator ID:	043582	ALS Bottle#:	31	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.78	43.00	2908	0.610789
3.78	72.00	0	

Reviewer: evansle, 16-Nov-2020 07:23:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-443953/7	UXJ1039.D
Level 2	STD8260 240-443953/6	UXJ1038.D
Level 3	STD8260 240-443953/5	UXJ1037.D
Level 4	STD8260 240-443953/4	UXJ1036.D
Level 5	STD8260 240-443953/3	UXJ1035.D
Level 6	STD8260 240-443953/2	UXJ1034.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2515 0.2531	0.2333	0.2661	0.2263	0.2535	Ave		0.2473				6.0		15.0			
Chloromethane	0.1806 0.1588	0.1236	0.1691	0.1523	0.1951	Qua	-0.191	0.2193	-0.001368		0.1000				0.9930		0.9900
Butadiene	0.2392 0.2011	0.1988	0.2140	0.1804	0.1981	Ave		0.2053				9.6		15.0			
Vinyl chloride	0.2366 0.2301	0.1966	0.2390	0.2197	0.2313	Ave		0.2255				7.0		15.0			
Bromomethane	0.2006 0.1431	0.1655	0.1703	0.1552	0.1583	Ave		0.1655				11.8		15.0			
Chloroethane	0.1471 0.1251	0.1329	0.1370	0.1270	0.1319	Ave		0.1335				5.9		15.0			
Dichlorofluoromethane	0.3841 0.3071	0.3177	0.3317	0.3002	0.3182	Ave		0.3265				9.3		15.0			
Trichlorofluoromethane	0.3778 0.3298	0.3098	0.3436	0.2995	0.3282	Ave		0.3314				8.3		15.0			
Ethyl ether	0.1681 0.1715	0.1747	0.1750	0.1694	0.1727	Ave		0.1719				1.6		15.0			
Acrolein	0.0170 0.0168	0.0151	0.0153	0.0151	0.0160	Ave		0.0159				5.3		15.0			
1,1-Dichloroethene	0.2222 0.1790	0.1885	0.1927	0.1837	0.1918	Ave		0.1930				7.9		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1266 0.1640	0.1203	0.1622	0.1561	0.1683	Ave		0.1496				13.8		15.0			
Acetone	0.1487 0.0799	0.1113	0.0876	0.0706	0.0727	Lin1	0.1365	0.0738							0.9930		0.9900
Iodomethane	0.3229 0.3162	0.3190	0.3311	0.3128	0.3336	Ave		0.3226				2.6		15.0			
Carbon disulfide	0.6761 0.5448	0.5733	0.5991	0.5765	0.5698	Ave		0.5899				7.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1412 0.1374	0.1224	0.1425	0.1304	0.1411	Ave		0.1358				5.8		15.0			
Methyl acetate	0.2531 0.1905	0.2009	0.1873	0.1828	0.1881	Ave		0.2005				13.2		15.0			
Methylene Chloride	0.2950 0.1939	0.2377	0.2148	0.1950	0.1994	Lin1	0.0994	0.1915							1.0000		0.9900
2-Methyl-2-propanol	0.0403 0.0441	0.0413	0.0433	0.0387	0.0441	Ave		0.0420				5.4		15.0			
Acrylonitrile	0.1027 0.0983	0.0940	0.0955	0.0923	0.0964	Ave		0.0965				3.8		15.0			
trans-1,2-Dichloroethene	0.2551 0.2104	0.2262	0.2306	0.2184	0.2202	Ave		0.2268				6.8		15.0			
Methyl tert-butyl ether	0.7020 0.5891	0.6013	0.6229	0.6008	0.6184	Ave		0.6224				6.6		15.0			
Hexane	0.0565 0.0585	0.0531	0.0613	0.0585	0.0632	Ave		0.0585				6.1		15.0			
1,1-Dichloroethane	0.3653 0.3235	0.3250	0.3374	0.3260	0.3366	Ave		0.3356			0.1000	4.7		15.0			
Vinyl acetate	0.5545 0.5183	0.5326	0.5322	0.5412	0.5361	Ave		0.5358				2.2		15.0			
cis-1,2-Dichloroethene	0.2632 0.2277	0.2520	0.2433	0.2289	0.2431	Ave		0.2430				5.6		15.0			
2,2-Dichloropropane	0.0624 0.0650	0.0605	0.0619	0.0667	0.0701	Ave		0.0644				5.6		15.0			
2-Butanone (MEK)	0.1847 0.1465	0.1695	0.1470	0.1478	0.1484	Ave		0.1573				10.2		15.0			
Chlorobromomethane	0.1236 0.1146	0.1130	0.1137	0.1098	0.1147	Ave		0.1149				4.0		15.0			
Chloroform	0.3798 0.3388	0.3518	0.3507	0.3420	0.3583	Ave		0.3536				4.1		15.0			
Tetrahydrofuran	0.1091 0.0922	0.0938	0.0927	0.0879	0.0937	Ave		0.0949				7.7		15.0			
1,1,1-Trichloroethane	0.3306 0.2979	0.2754	0.3164	0.3022	0.3145	Ave		0.3062				6.2		15.0			
Cyclohexane	0.3077 0.2982	0.2433	0.3233	0.3077	0.3127	Ave		0.2988				9.5		15.0			
1,1-Dichloropropene	0.3455 0.3038	0.3080	0.3357	0.3186	0.3292	Ave		0.3235				5.0		15.0			
Carbon tetrachloride	0.2624 0.2649	0.2324	0.2779	0.2634	0.2801	Ave		0.2635				6.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0191 0.0169	0.0173	0.0173	0.0175	0.0177	Ave		0.0176				4.3		15.0			
Benzene	0.9904 0.8735	0.9272	0.9579	0.9246	0.9474	Ave		0.9368				4.2		15.0			
1,2-Dichloroethane	0.3359 0.2778	0.3062	0.3019	0.2902	0.2959	Ave		0.3013				6.5		15.0			
n-Heptane	0.0526 0.0518	0.0421	0.0570	0.0572	0.0562	Ave		0.0528				10.9		15.0			
Trichloroethene	0.3021 0.2578	0.2687	0.2806	0.2689	0.2836	Ave		0.2770				5.6		15.0			
Methylcyclohexane	0.3058 0.2992	0.2639	0.3265	0.3136	0.3250	Ave		0.3057				7.5		15.0			
1,2-Dichloropropane	0.2277 0.1955	0.2115	0.2060	0.2016	0.2116	Ave		0.2090				5.3		15.0			
Dibromomethane	0.1683 0.1366	0.1473	0.1460	0.1428	0.1469	Ave		0.1480				7.2		15.0			
1,4-Dioxane	0.0026 0.0038	0.0025	0.0030	0.0032	0.0036	Lin1	-0.038	0.0037							0.9960		0.9900
Dichlorobromomethane	0.3087 0.2839	0.2882	0.3071	0.2935	0.3054	Ave		0.2978				3.6		15.0			
2-Chloroethyl vinyl ether	0.1851 0.1761	0.1824	0.1798	0.1773	0.1872	Ave		0.1813				2.4		15.0			
cis-1,3-Dichloropropene	0.4210 0.3823	0.3882	0.4023	0.3802	0.3990	Ave		0.3955				3.9		15.0			
4-Methyl-2-pentanone (MIBK)	0.3053 0.2726	0.2881	0.2846	0.2805	0.2884	Ave		0.2866				3.8		15.0			
Toluene	1.6525 1.4030	1.5070	1.5753	1.4473	1.5386	Ave		1.5206				5.9		15.0			
trans-1,3-Dichloropropene	0.5648 0.5019	0.5455	0.5273	0.5117	0.5466	Ave		0.5330				4.4		15.0			
Ethyl methacrylate	0.5335 0.5016	0.4882	0.5039	0.5011	0.5269	Ave		0.5092				3.4		15.0			
1,1,2-Trichloroethane	0.3500 0.3026	0.3176	0.3225	0.3043	0.3232	Ave		0.3200				5.4		15.0			
Tetrachloroethene	0.2871 0.2597	0.2619	0.2908	0.2758	0.2909	Ave		0.2777				5.1		15.0			
1,3-Dichloropropane	0.5686 0.5010	0.5487	0.5277	0.5141	0.5373	Ave		0.5329				4.6		15.0			
2-Hexanone	0.3124 0.3079	0.3219	0.3027	0.3118	0.3197	Ave		0.3127				2.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodibromomethane	0.3453 0.3203	0.3262	0.3249	0.3216	0.3488	Ave		0.3312				3.8		15.0			
Ethylene Dibromide	0.3825 0.3207	0.3319	0.3501	0.3299	0.3416	Ave		0.3428				6.4		15.0			
Chlorobenzene	0.9803 0.8474	0.9234	0.9472	0.8861	0.9368	Ave		0.9202			0.3000	5.1		15.0			
1,1,1,2-Tetrachloroethane	0.2909 0.2750	0.2665	0.2935	0.2836	0.3025	Ave		0.2853				4.6		15.0			
Ethylbenzene	0.5122 0.4541	0.4886	0.5040	0.4877	0.4994	Ave		0.4910				4.1		15.0			
m-Xylene & p-Xylene	0.6542 0.5541	0.5687	0.6197	0.5802	0.6117	Ave		0.5981				6.2		15.0			
o-Xylene	0.5560 0.5087	0.5298	0.5508	0.5216	0.5614	Ave		0.5381				3.9		15.0			
Styrene	1.0128 0.9211	0.9492	0.9665	0.9427	1.0006	Ave		0.9655				3.7		15.0			
Bromoform	0.2189 0.2257	0.2086	0.2071	0.2226	0.2380	Ave		0.2202			0.1000	5.2		15.0			
Isopropylbenzene	1.3946 1.2312	1.2686	1.3666	1.2931	1.3465	Ave		1.3168				4.8		15.0			
1,1,2,2-Tetrachloroethane	1.0212 0.9147	0.9811	0.9807	0.9661	1.0425	Ave		0.9844			0.3000	4.5		15.0			
Bromobenzene	0.8941 0.7633	0.8460	0.8358	0.8067	0.8823	Ave		0.8380				5.8		15.0			
1,2,3-Trichloropropane	0.3824 0.3190	0.3388	0.3344	0.3307	0.3601	Ave		0.3442				6.7		15.0			
trans-1,4-Dichloro-2-butene	0.3220 0.3086	0.3209	0.3400	0.3248	0.3390	Ave		0.3259				3.7		15.0			
N-Propylbenzene	0.9576 0.7931	0.8988	0.9321	0.8734	0.9222	Ave		0.8962				6.5		15.0			
2-Chlorotoluene	0.8412 0.6885	0.7958	0.7789	0.7320	0.8149	Ave		0.7752				7.2		15.0			
1,3,5-Trimethylbenzene	2.5921 2.1978	2.3732	2.5128	2.3534	2.5248	Ave		2.4257				6.0		15.0			
4-Chlorotoluene	0.9093 0.7282	0.8526	0.8137	0.7981	0.8491	Ave		0.8252				7.4		15.0			
tert-Butylbenzene	2.1509 1.7330	2.0001	2.0178	1.9131	2.0173	Ave		1.9720				7.1		15.0			
1,2,4-Trimethylbenzene	2.6632 2.2383	2.3926	2.4766	2.3470	2.5837	Ave		2.4502				6.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	2.8125 2.3862	2.5642	2.7954	2.6005	2.7445	Ave		2.6505				6.2		15.0			
1,3-Dichlorobenzene	1.5562 1.2846	1.4615	1.4540	1.3889	1.4800	Ave		1.4375				6.4		15.0			
4-Isopropyltoluene	2.4827 2.0807	2.1245	2.3794	2.2447	2.3818	Ave		2.2823				7.0		15.0			
1,4-Dichlorobenzene	1.5985 1.3001	1.4569	1.4541	1.3995	1.5197	Ave		1.4548				7.0		15.0			
1,2-Dichlorobenzene	1.5245 1.2713	1.3887	1.3566	1.3334	1.4507	Ave		1.3875				6.5		15.0			
n-Butylbenzene	2.0563 1.7573	1.8801	2.0430	1.9118	2.0300	Ave		1.9464				6.1		15.0			
1,2-Dibromo-3-Chloropropane	0.2802 0.2658	0.2520	0.2704	0.2559	0.2883	Ave		0.2688				5.2		15.0			
1,2,4-Trichlorobenzene	0.8570 0.7684	0.8266	0.8296	0.7989	0.8638	Ave		0.8241				4.4		15.0			
Hexachlorobutadiene	0.2424 0.2027	0.2438	0.2457	0.2369	0.2524	Ave		0.2373				7.5		15.0			
Naphthalene	3.5134 3.0111	3.0352	3.1315	2.9904	3.2646	Ave		3.1577				6.4		15.0			
1,2,3-Trichlorobenzene	0.7677 0.7437	0.7896	0.7589	0.7751	0.8007	Ave		0.7726				2.7		15.0			
Dibromofluoromethane (Surr)	0.2186 0.1977	0.1969	0.1974	0.1968	0.2041	Ave		0.2019				4.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3035 0.2353	0.2612	0.2522	0.2377	0.2420	Ave		0.2553				10.0		15.0			
Toluene-d8 (Surr)	1.5020 1.2089	1.3030	1.3075	1.2617	1.2955	Ave		1.3131				7.6		15.0			
4-Bromofluorobenzene (Surr)	0.5338 0.3949	0.4463	0.4297	0.4055	0.4148	Ave		0.4375				11.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-443953/7	UXJ1039.D
Level 2	STD8260 240-443953/6	UXJ1038.D
Level 3	STD8260 240-443953/5	UXJ1037.D
Level 4	STD8260 240-443953/4	UXJ1036.D
Level 5	STD8260 240-443953/3	UXJ1035.D
Level 6	STD8260 240-443953/2	UXJ1034.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	12076 568930	23993	68760	120844	268691	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Qua	8673 357007	12710	43690	81330	206729	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	11489 451994	20447	55280	96368	209981	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	11362 517402	20215	61751	117316	245154	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	9634 321719	17024	43996	82906	167760	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	7063 281289	13665	35388	67804	139784	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	18447 690417	32678	85701	160310	337210	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	18141 741332	31864	88787	159945	347832	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	8073 385492	17964	45206	90477	183020	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	4081 188867	7779	19739	40381	84611	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	10669 402429	19382	49794	98128	203273	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	6082 368768	12370	41896	83368	178383	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	14283 359467	22894	45259	75425	153993	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	15508 710763	32809	85541	167091	353481	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	32467 1224891	58964	154783	307899	603861	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	6782 308800	12590	36809	69630	149488	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	24311 856712	41326	96759	195292	398578	2.00 80.0	4.00	10.0	20.0	40.0
Methylene Chloride	FB	Lin1	14165 435844	24442	55508	104125	211327	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	19340 992149	42498	111911	206513	467524	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	49322 2210114	96715	246856	492748	1021663	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	12251 473055	23261	59575	116622	233329	1.00 40.0	2.00	5.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	33710 1324479	61844	160926	320878	655387	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	2715 131565	5458	15840	31237	66937	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	17543 727250	33428	87168	174114	356747	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	26631 1165113	54775	137498	289052	568139	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	12642 511828	25920	62848	122280	257601	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	2998 146102	6217	15991	35639	74340	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	17742 658909	34858	75943	157858	314592	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	5936 257548	11623	29383	58642	121591	1.00 40.0	2.00	5.00	10.0	20.0
Chloroform	FB	Ave	18240 761703	36182	90601	182658	379700	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	10477 414395	19295	47904	93875	198566	2.00 80.0	4.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	15878 669765	28324	81745	161416	333244	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	14778 670466	25018	83524	164322	331370	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	16593 683022	31673	86730	170180	348817	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	12600 595522	23905	71788	140707	296838	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBNZ d5	Ave	16217 673403	31014	78479	165045	328872	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	47561 1963746	95354	247487	493831	1003989	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	16129 624432	31487	78013	155009	313551	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	2528 116381	4329	14731	30562	59536	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	14509 579511	27636	72499	143631	300591	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	14684 672587	27141	84360	167501	344466	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	10935 439429	21751	53219	107662	224278	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	8080 307088	15145	37729	76283	155716	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	2516 170253	5136	15341	34339	75692	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	14823 638329	29635	79348	156770	323617	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	17779 791754	37513	92884	189430	396869	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	20220 859458	39920	103931	203051	422845	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	29324 1225540	59255	147040	299632	611228	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBNZ d5	Ave	56150 2234978	108091	286322	546008	1145359	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	19191 799559	39128	95846	193021	406903	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	18126 799048	35017	91593	189038	392222	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	11891 482079	22778	58613	114810	240606	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	9754 413665	18783	52860	104041	216516	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	19321 798061	39357	95922	193959	399959	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBNZ d5	Ave	21228 980822	46181	110039	235279	475993	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBNZ d5	Ave	11731 510269	23394	59051	121336	259645	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	12996 510889	23803	63633	124444	254303	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	33310 1349900	66233	172166	334291	697371	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	9885 438048	19115	53342	106978	225215	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	17402 723389	35043	91605	183990	371739	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	22228 882756	40790	112638	218893	455316	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBNZ d5	Ave	18892 810380	38001	100111	196776	417883	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBNZ d5	Ave	34412 1467291	68078	175669	355647	744879	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBNZ d5	Ave	7439 359479	14965	37651	83992	177203	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBNZ d5	Ave	47386 1961375	90989	248383	487812	1002312	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	13942 629873	28420	73576	149659	310810	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCBd 4	Ave	12206 525608	24508	62704	124967	263046	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	5220 219639	9815	25091	51223	107353	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	4396 212479	9296	25511	50317	101062	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	13073 546105	26036	69931	135300	274943	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	11484 474083	23052	58432	113403	242939	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	35387 1513370	68748	188516	364578	752716	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	12414 501411	24699	61044	123638	253158	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	29364 1193333	57940	151379	296358	601410	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	36358 1541297	69309	185801	363580	770269	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	38396 1643102	74280	209721	402847	818227	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	21245 884573	42339	109082	215153	441222	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCBd 4	Ave	33893 1432715	61544	178511	347735	710102	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	21823 895257	42204	109089	216801	453074	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 443953

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 11:03 Calibration End Date: 07/23/2020 12:55 Calibration ID: 57852

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCBd 4	Ave	20813 875431	40229	101776	206560	432496	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCBd 4	Ave	28073 1210071	54465	153273	296165	605195	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	3825 183050	7300	20283	39646	85941	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	11700 529127	23944	62242	123757	257528	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	3309 139588	7062	18435	36705	75261	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCBd 4	Ave	47964 2073421	87925	234937	463251	973269	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	10480 512132	22875	56935	120074	238700	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	10499 444427	20252	51004	105086	216280	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	14573 528936	26863	65165	126956	256432	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	51034 1925863	93460	237643	475973	964341	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	18136 629010	32014	78109	152992	308806	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1034.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jul-2020 11:03:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-002
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:49:56 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 23-Jul-2020 12:34:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	1124071	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	82	796507	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	95	344295	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.144	4.144	0.000	97	444427	40.0	39.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	96	528936	40.0	36.9	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	1925863	40.0	36.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	95	629010	40.0	36.1	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	99	568930	40.0	40.9	
12 Chloromethane	50	1.340	1.340	0.000	76	357007	40.0	39.6	
13 Butadiene	54	1.387	1.387	0.000	95	451994	40.0	39.2	
14 Vinyl chloride	62	1.411	1.423	-0.012	97	517402	40.0	40.8	
15 Bromomethane	94	1.636	1.636	0.000	90	321719	40.0	34.6	
16 Chloroethane	64	1.683	1.683	0.000	99	281289	40.0	37.5	
17 Dichlorofluoromethane	67	1.849	1.849	0.000	97	690417	40.0	37.6	
18 Trichlorofluoromethane	101	1.849	1.860	-0.011	98	741332	40.0	39.8	
19 Ethyl ether	59	2.109	2.109	0.000	86	385492	40.0	39.9	
20 Acrolein	56	2.204	2.204	0.000	99	188867	200.0	211.6	
21 1,1-Dichloroethene	96	2.275	2.275	0.000	95	402429	40.0	37.1	
23 112TCTFE	151	2.322	2.322	0.000	90	368768	40.0	43.9	
24 Acetone	43	2.346	2.346	0.000	100	359467	80.0	84.8	
25 Iodomethane	142	2.405	2.405	0.000	96	710763	40.0	39.2	
26 Carbon disulfide	76	2.452	2.452	0.000	99	1224891	40.0	36.9	
28 3-Chloro-1-propene	76	2.582	2.582	0.000	88	308800	40.0	40.5	
29 Methyl acetate	43	2.618	2.618	0.000	96	856712	80.0	76.0	
30 Methylene Chloride	84	2.689	2.689	0.000	85	435844	40.0	40.0	
31 2-Methyl-2-propanol	59	2.843	2.843	0.000	100	992149	400.0	420.6	
32 Acrylonitrile	53	2.890	2.890	0.000	100	2210114	400.0	407.3	
33 trans-1,2-Dichloroethene	96	2.914	2.914	0.000	94	473055	40.0	37.1	
34 Methyl tert-butyl ether	73	2.949	2.949	0.000	94	1324479	40.0	37.9	
35 Hexane	86	3.150	3.150	0.000	89	131565	40.0	40.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	96	727250	40.0	38.6	
37 Vinyl acetate	43	3.328	3.328	0.000	97	1165113	40.0	38.7	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	69	146102	40.0	40.3	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	79	511828	40.0	37.5	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	97	658909	80.0	74.5	
46 Chlorobromomethane	128	3.943	3.943	0.000	87	257548	40.0	39.9	
48 Chloroform	83	4.014	4.014	0.000	92	761703	40.0	38.3	
49 Tetrahydrofuran	42	4.026	4.026	0.000	82	414395	80.0	77.7	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	97	669765	40.0	38.9	
51 Cyclohexane	56	4.227	4.227	0.000	84	670466	40.0	39.9	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	97	683022	40.0	37.6	
52 Carbon tetrachloride	117	4.310	4.310	0.000	95	595522	40.0	40.2	
54 Isobutyl alcohol	41	4.452	4.452	0.000	94	673403	1000.0	959.5	
55 Benzene	78	4.476	4.475	0.001	94	1963746	40.0	37.3	
56 1,2-Dichloroethane	62	4.487	4.487	0.000	98	624432	40.0	36.9	
58 n-Heptane	100	4.724	4.724	0.000	83	116381	40.0	39.2	
60 Trichloroethene	130	5.032	5.032	0.000	96	579511	40.0	37.2	
62 Methylcyclohexane	83	5.197	5.197	0.000	89	672587	40.0	39.1	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	95	439429	40.0	37.4	
64 Dibromomethane	93	5.304	5.304	0.000	94	307088	40.0	36.9	
66 1,4-Dioxane	88	5.363	5.363	0.000	89	170253	800.0	828.1	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	638329	40.0	38.1	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	93	791754	80.0	77.7	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	97	859458	40.0	38.7	
71 4-Methyl-2-pentanone (MIBK)	43	5.990	5.990	0.000	93	1225540	80.0	76.1	
72 Toluene	91	6.132	6.132	0.000	98	2234978	40.0	36.9	
73 trans-1,3-Dichloropropene	75	6.322	6.321	0.001	91	799559	40.0	37.7	
74 Ethyl methacrylate	69	6.428	6.428	0.000	86	799048	40.0	39.4	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	88	482079	40.0	37.8	
76 Tetrachloroethene	164	6.617	6.617	0.000	97	413665	40.0	37.4	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	87	798061	40.0	37.6	
78 2-Hexanone	43	6.736	6.736	0.000	93	980822	80.0	78.8	
80 Chlorodibromomethane	129	6.842	6.842	0.000	89	510269	40.0	38.7	
82 Ethylene Dibromide	107	6.937	6.937	0.000	98	510889	40.0	37.4	
84 Chlorobenzene	112	7.398	7.398	0.000	97	1349900	40.0	36.8	
85 1,1,1,2-Tetrachloroethane	131	7.469	7.469	0.000	96	438048	40.0	38.5	
86 Ethylbenzene	106	7.505	7.505	0.000	97	723389	40.0	37.0	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	97	882756	40.0	37.1	
89 o-Xylene	106	7.990	7.990	0.000	96	810380	40.0	37.8	
88 Styrene	104	7.990	7.990	0.000	94	1467291	40.0	38.2	
90 Bromoform	173	8.156	8.156	0.000	96	359479	40.0	41.0	
91 Isopropylbenzene	105	8.333	8.333	0.000	95	1961375	40.0	37.4	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	87	629873	40.0	37.2	
95 Bromobenzene	156	8.617	8.617	0.000	87	525608	40.0	36.4	
96 1,2,3-Trichloropropane	110	8.653	8.653	0.001	84	219639	40.0	37.1	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	78	212479	40.0	37.9	
98 N-Propylbenzene	120	8.735	8.735	0.000	98	546105	40.0	35.4	
99 2-Chlorotoluene	126	8.806	8.806	0.000	97	474083	40.0	35.5	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	94	1513370	40.0	36.2	
101 4-Chlorotoluene	126	8.913	8.913	0.000	98	501411	40.0	35.3	
103 tert-Butylbenzene	119	9.221	9.220	0.001	91	1193333	40.0	35.2	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	96	1541297	40.0	36.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.434	9.433	0.001	93	1643102	40.0	36.0	
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	98	884573	40.0	35.7	
107 4-Isopropyltoluene	119	9.576	9.575	0.001	96	1432715	40.0	36.5	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	95	895257	40.0	35.7	
112 1,2-Dichlorobenzene	146	9.966	9.978	-0.012	91	875431	40.0	36.6	
111 n-Butylbenzene	91	9.978	9.978	0.000	97	1210071	40.0	36.1	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	91	183050	40.0	39.6	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	95	529127	40.0	37.3	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	95	139588	40.0	34.2	
118 Naphthalene	128	11.788	11.788	0.000	96	2073421	40.0	38.1	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	97	512132	40.0	38.5	
S 129 Total BTEX	1				0		200.0	186.1	
S 128 Trihalomethanes, Total	1				0		160.0	156.2	
S 130 1,2-Dichloroethene, Total	96				0			74.6	
S 131 1,3-Dichloropropene, Total	75				0			76.3	
S 132 Xylenes, Total	106				0		80.0	74.9	

Reagents:

VMRGAS_00348	Amount Added:	32.00	Units: uL
vm50ss_stk_00085	Amount Added:	32.00	Units: uL
VM50IS_00084	Amount Added:	2.00	Units: uL
VMRPRIMW_00394	Amount Added:	32.00	Units: uL
VMAROLISTDW_00353	Amount Added:	32.00	Units: uL

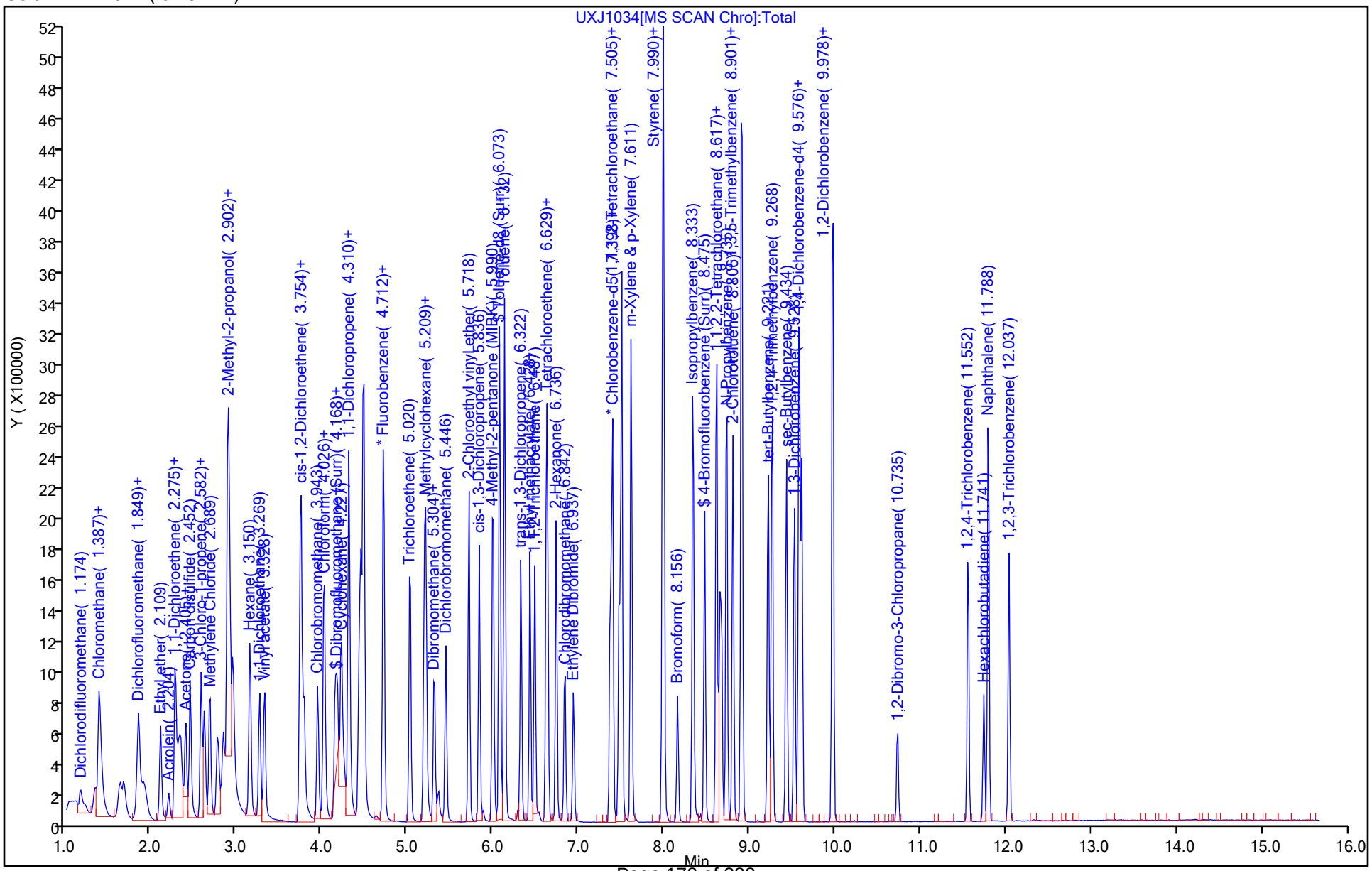
Report Date: 24-Jul-2020 11:49:58 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1034.D

Injection Date:	23-Jul-2020 11:03:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	STD8260 L6			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1035.D
Lims ID: STD8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jul-2020 11:26:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-003
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 12:03:26 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.724	4.712	0.012	97	1059747	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.374	7.375	-0.001	83	744397	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	95	298132	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	97	216280	20.0	20.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	96	256432	20.0	19.0	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	964341	20.0	19.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	95	308806	20.0	19.0	
10 Dichlorodifluoromethane	85	1.186	1.174	0.012	99	268691	20.0	20.5	
12 Chloromethane	50	1.363	1.340	0.023	97	206729	20.0	21.6	Ma
13 Butadiene	54	1.399	1.387	0.012	95	209981	20.0	19.3	
14 Vinyl chloride	62	1.434	1.423	0.011	98	245154	20.0	20.5	
15 Bromomethane	94	1.647	1.636	0.011	90	167760	20.0	19.1	
16 Chloroethane	64	1.695	1.683	0.012	100	139784	20.0	19.8	
17 Dichlorofluoromethane	67	1.860	1.849	0.011	95	337210	20.0	19.5	
18 Trichlorofluoromethane	101	1.860	1.860	0.000	97	347832	20.0	19.8	
19 Ethyl ether	59	2.121	2.109	0.012	87	183020	20.0	20.1	
20 Acrolein	56	2.215	2.204	0.011	99	84611	100.0	100.5	
21 1,1-Dichloroethene	96	2.286	2.275	0.011	95	203273	20.0	19.9	
23 112TCTFE	151	2.334	2.322	0.012	91	178383	20.0	22.5	
24 Acetone	43	2.357	2.346	0.011	99	153993	40.0	37.5	
25 Iodomethane	142	2.416	2.405	0.011	96	353481	20.0	20.7	
26 Carbon disulfide	76	2.464	2.452	0.012	98	603861	20.0	19.3	
28 3-Chloro-1-propene	76	2.594	2.582	0.012	88	149488	20.0	20.8	
29 Methyl acetate	43	2.629	2.618	0.011	96	398578	40.0	37.5	
30 Methylene Chloride	84	2.689	2.689	0.000	83	211327	20.0	20.3	
31 2-Methyl-2-propanol	59	2.842	2.843	-0.001	100	467524	200.0	210.2	
32 Acrylonitrile	53	2.902	2.890	0.012	99	1021663	200.0	199.7	
33 trans-1,2-Dichloroethene	96	2.925	2.914	0.011	95	233329	20.0	19.4	
34 Methyl tert-butyl ether	73	2.961	2.949	0.012	94	655387	20.0	19.9	
35 Hexane	86	3.162	3.150	0.012	89	66937	20.0	21.6	
36 1,1-Dichloroethane	63	3.268	3.269	-0.001	96	356747	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	3.328	3.328	0.000	97	568139	20.0	20.0	
42 2,2-Dichloropropane	97	3.765	3.754	0.011	77	74340	20.0	21.8	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	78	257601	20.0	20.0	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	97	314592	40.0	37.7	
46 Chlorobromomethane	128	3.955	3.943	0.012	87	121591	20.0	20.0	
48 Chloroform	83	4.026	4.014	0.012	93	379700	20.0	20.3	
49 Tetrahydrofuran	42	4.026	4.026	0.000	82	198566	40.0	39.5	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	98	333244	20.0	20.5	
51 Cyclohexane	56	4.227	4.227	0.000	84	331370	20.0	20.9	
52 Carbon tetrachloride	117	4.322	4.310	0.012	95	296838	20.0	21.3	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	97	348817	20.0	20.4	
54 Isobutyl alcohol	41	4.452	4.452	0.000	94	328872	500.0	501.4	
55 Benzene	78	4.487	4.475	0.012	95	1003989	20.0	20.2	
56 1,2-Dichloroethane	62	4.499	4.487	0.012	98	313551	20.0	19.6	
58 n-Heptane	100	4.724	4.724	0.000	51	59536	20.0	21.3	
60 Trichloroethene	130	5.032	5.032	0.000	96	300591	20.0	20.5	
62 Methylcyclohexane	83	5.197	5.197	0.000	88	344466	20.0	21.3	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	95	224278	20.0	20.3	
64 Dibromomethane	93	5.316	5.304	0.012	95	155716	20.0	19.9	
66 1,4-Dioxane	88	5.363	5.363	0.000	90	75692	400.0	395.9	
67 Dichlorobromomethane	83	5.446	5.446	0.000	100	323617	20.0	20.5	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	92	396869	40.0	41.3	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	96	422845	20.0	20.2	
71 4-Methyl-2-pentanone (MIBK)	43	6.002	5.990	0.012	93	611228	40.0	40.3	
72 Toluene	91	6.132	6.132	0.000	98	1145359	20.0	20.2	
73 trans-1,3-Dichloropropene	75	6.321	6.321	0.000	91	406903	20.0	20.5	
74 Ethyl methacrylate	69	6.428	6.428	0.000	86	392222	20.0	20.7	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	88	240606	20.0	20.2	
76 Tetrachloroethene	164	6.629	6.617	0.012	98	216516	20.0	20.9	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	87	399959	20.0	20.2	
78 2-Hexanone	43	6.735	6.736	-0.001	94	475993	40.0	40.9	
80 Chlorodibromomethane	129	6.842	6.842	0.000	90	259645	20.0	21.1	
82 Ethylene Dibromide	107	6.937	6.937	0.000	99	254303	20.0	19.9	
84 Chlorobenzene	112	7.398	7.398	0.000	97	697371	20.0	20.4	
85 1,1,1,2-Tetrachloroethane	131	7.481	7.469	0.012	95	225215	20.0	21.2	
86 Ethylbenzene	106	7.505	7.505	0.000	97	371739	20.0	20.3	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	97	455316	20.0	20.5	
89 o-Xylene	106	7.990	7.990	0.000	94	417883	20.0	20.9	
88 Styrene	104	8.002	7.990	0.012	95	744879	20.0	20.7	
90 Bromoform	173	8.155	8.156	-0.001	96	177203	20.0	21.6	
91 Isopropylbenzene	105	8.333	8.333	0.000	95	1002312	20.0	20.5	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	85	310810	20.0	21.2	
95 Bromobenzene	156	8.617	8.617	0.000	88	263046	20.0	21.1	
96 1,2,3-Trichloropropane	110	8.652	8.653	0.000	82	107353	20.0	20.9	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	93	101062	20.0	20.8	
98 N-Propylbenzene	120	8.735	8.735	0.000	99	274943	20.0	20.6	
99 2-Chlorotoluene	126	8.806	8.806	0.000	98	242939	20.0	21.0	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	94	752716	20.0	20.8	
101 4-Chlorotoluene	126	8.913	8.913	0.000	99	253158	20.0	20.6	
103 tert-Butylbenzene	119	9.220	9.220	0.000	91	601410	20.0	20.5	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	96	770269	20.0	21.1	
105 sec-Butylbenzene	105	9.433	9.433	0.000	93	818227	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	98	441222	20.0	20.6	
107 4-Isopropyltoluene	119	9.575	9.575	0.000	97	710102	20.0	20.9	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	95	453074	20.0	20.9	
111 n-Butylbenzene	91	9.978	9.978	0.000	97	605195	20.0	20.9	
112 1,2-Dichlorobenzene	146	9.978	9.978	0.000	94	432496	20.0	20.9	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	89	85941	20.0	21.5	
116 1,2,4-Trichlorobenzene	180	11.551	11.552	-0.001	94	257528	20.0	21.0	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	94	75261	20.0	21.3	
118 Naphthalene	128	11.788	11.788	0.000	97	973269	20.0	20.7	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	96	238700	20.0	20.7	
S 129 Total BTEX	1				0		100.0	102.1	
S 128 Trihalomethanes, Total	1				0		80.0	83.5	
S 130 1,2-Dichloroethene, Total	96				0			39.4	
S 131 1,3-Dichloropropene, Total	75				0			40.7	
S 132 Xylenes, Total	106				0		40.0	41.3	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VMRGAS_00348	Amount Added:	16.00	Units: uL
vm50ss_stk_00085	Amount Added:	16.00	Units: uL
VM50IS_00084	Amount Added:	2.00	Units: uL
VMRPRIMW_00394	Amount Added:	16.00	Units: uL
VMAROLISTDW_00353	Amount Added:	16.00	Units: uL

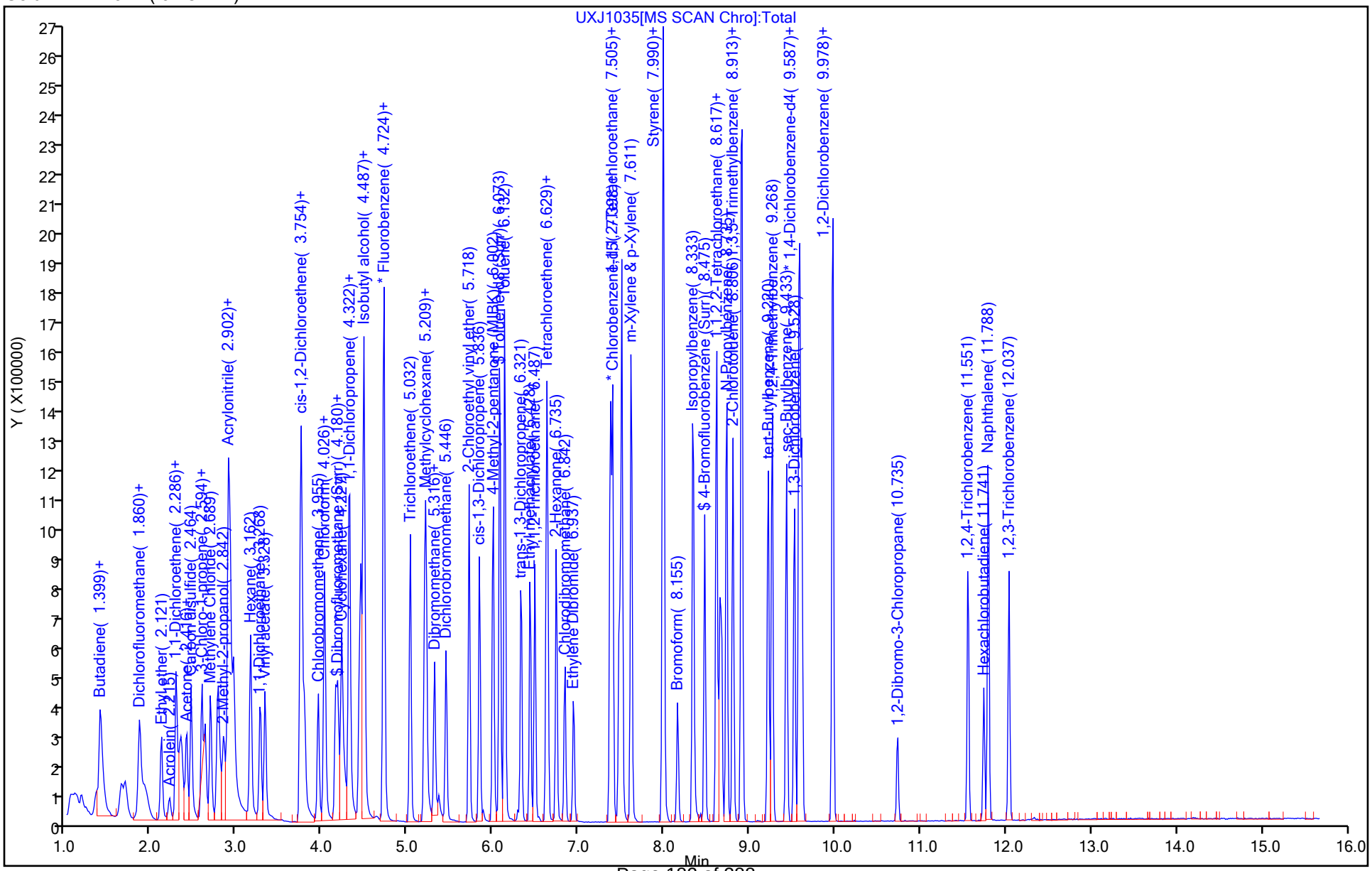
Report Date: 24-Jul-2020 12:03:27 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1035.D

Injection Date:	23-Jul-2020 11:26:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	STD8260 L5			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

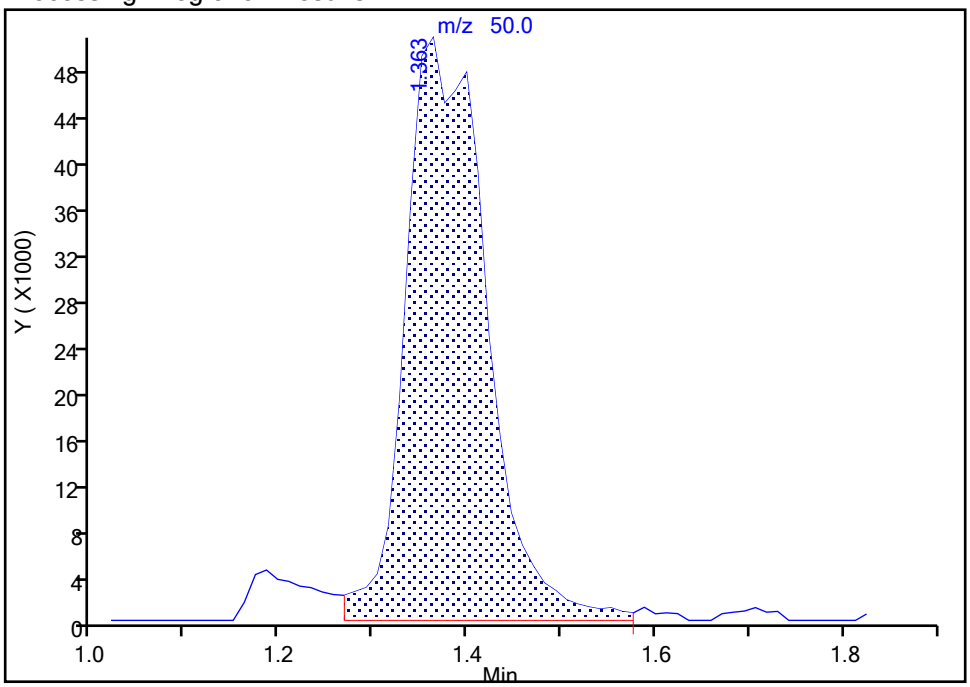
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1035.D
Injection Date: 23-Jul-2020 11:26:30 Instrument ID: A3UX11
Lims ID: STD8260 L5
Client ID:
Operator ID: 043582 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

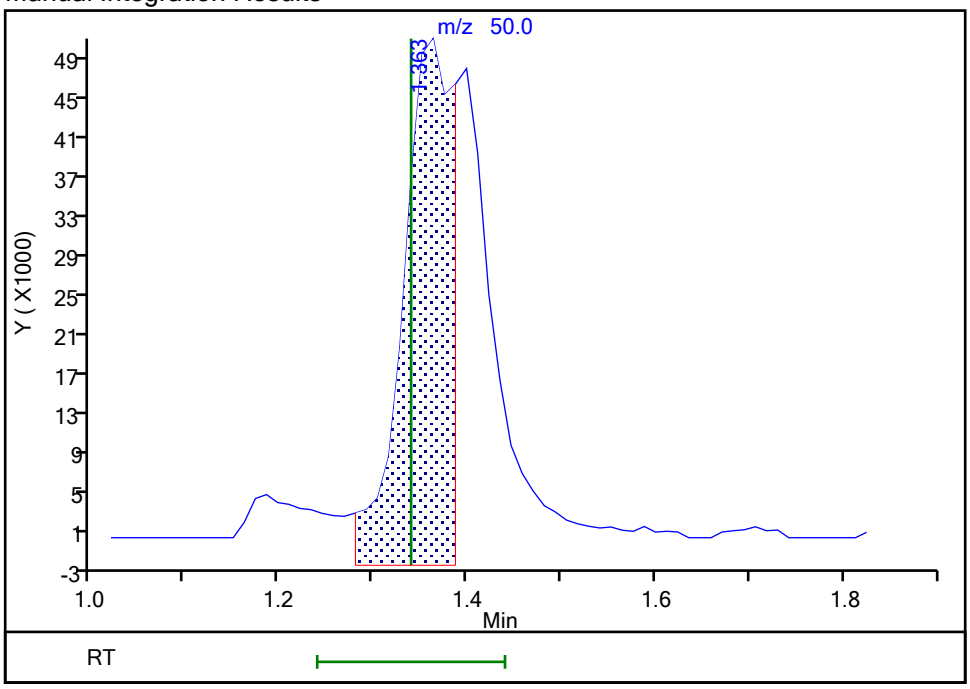
Processing Integration Results

RT: 1.36
Area: 303090
Amount: 32.143550
Amount Units: ug/l



Manual Integration Results

RT: 1.36
Area: 206729
Amount: 21.556762
Amount Units: ug/l



Reviewer: evansle, 24-Jul-2020 09:16:47
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1036.D
Lims ID: STD8260 L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 23-Jul-2020 11:48:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-004
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 12:01:47 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 24-Jul-2020 11:52:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	1068199	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	84	754498	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	95	309827	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.144	4.144	0.000	97	105086	10.0	9.74	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	95	126956	10.0	9.31	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	475973	10.0	9.61	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	94	152992	10.0	9.27	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	99	120844	10.0	9.15	
12 Chloromethane	50	1.340	1.340	0.000	97	81330	10.0	8.24	
13 Butadiene	54	1.387	1.387	0.000	96	96368	10.0	8.79	
14 Vinyl chloride	62	1.423	1.423	0.000	97	117316	10.0	9.74	
15 Bromomethane	94	1.636	1.636	0.000	91	82906	10.0	9.38	
16 Chloroethane	64	1.683	1.683	0.000	99	67804	10.0	9.51	
17 Dichlorofluoromethane	67	1.849	1.849	0.000	97	160310	10.0	9.19	
18 Trichlorofluoromethane	101	1.860	1.860	0.000	95	159945	10.0	9.04	
19 Ethyl ether	59	2.109	2.109	0.000	86	90477	10.0	9.86	
20 Acrolein	56	2.204	2.204	0.000	99	40381	50.0	47.6	
21 1,1-Dichloroethene	96	2.275	2.275	0.000	95	98128	10.0	9.52	
23 112TCTFE	151	2.322	2.322	0.000	91	83368	10.0	10.4	
24 Acetone	43	2.346	2.346	0.000	99	75425	20.0	17.3	
25 Iodomethane	142	2.405	2.405	0.000	96	167091	10.0	9.70	
26 Carbon disulfide	76	2.452	2.452	0.000	99	307899	10.0	9.77	
28 3-Chloro-1-propene	76	2.582	2.582	0.000	89	69630	10.0	9.60	
29 Methyl acetate	43	2.618	2.618	0.000	96	195292	20.0	18.2	
30 Methylene Chloride	84	2.689	2.689	0.000	84	104125	10.0	9.66	
31 2-Methyl-2-propanol	59	2.843	2.843	0.000	99	206513	100.0	92.1	
32 Acrylonitrile	53	2.890	2.890	0.000	99	492748	100.0	95.6	
33 trans-1,2-Dichloroethene	96	2.914	2.914	0.000	95	116622	10.0	9.63	
34 Methyl tert-butyl ether	73	2.949	2.949	0.000	94	320878	10.0	9.65	
35 Hexane	86	3.150	3.150	0.000	89	31237	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	96	174114	10.0	9.71	
37 Vinyl acetate	43	3.328	3.328	0.000	97	289052	10.0	10.1	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	71	35639	10.0	10.4	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	80	122280	10.0	9.42	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	97	157858	20.0	18.8	
46 Chlorobromomethane	128	3.943	3.943	0.000	87	58642	10.0	9.56	
48 Chloroform	83	4.014	4.014	0.000	92	182658	10.0	9.67	
49 Tetrahydrofuran	42	4.026	4.026	0.000	80	93875	20.0	18.5	a
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	97	161416	10.0	9.87	
51 Cyclohexane	56	4.227	4.227	0.000	85	164322	10.0	10.3	
52 Carbon tetrachloride	117	4.310	4.310	0.000	96	140707	10.0	10.0	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	97	170180	10.0	9.85	
54 Isobutyl alcohol	41	4.452	4.452	0.000	94	165045	250.0	248.3	
55 Benzene	78	4.475	4.475	0.000	94	493831	10.0	9.87	
56 1,2-Dichloroethane	62	4.487	4.487	0.000	98	155009	10.0	9.63	
58 n-Heptane	100	4.724	4.724	0.000	83	30562	10.0	10.8	
60 Trichloroethene	130	5.032	5.032	0.000	96	143631	10.0	9.71	
62 Methylcyclohexane	83	5.197	5.197	0.000	87	167501	10.0	10.3	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	92	107662	10.0	9.65	
64 Dibromomethane	93	5.304	5.304	0.000	95	76283	10.0	9.65	
66 1,4-Dioxane	88	5.363	5.363	0.000	90	34339	200.0	183.9	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	156770	10.0	9.86	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	93	189430	20.0	19.6	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	96	203051	10.0	9.61	
71 4-Methyl-2-pentanone (MIBK)	43	5.990	5.990	0.000	95	299632	20.0	19.6	
72 Toluene	91	6.132	6.132	0.000	99	546008	10.0	9.52	
73 trans-1,3-Dichloropropene	75	6.321	6.321	0.000	91	193021	10.0	9.60	
74 Ethyl methacrylate	69	6.428	6.428	0.000	86	189038	10.0	9.84	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	89	114810	10.0	9.51	
76 Tetrachloroethene	164	6.617	6.617	0.000	97	104041	10.0	9.93	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	88	193959	10.0	9.65	
78 2-Hexanone	43	6.736	6.736	0.000	93	235279	20.0	19.9	
80 Chlorodibromomethane	129	6.842	6.842	0.000	89	121336	10.0	9.71	
82 Ethylene Dibromide	107	6.937	6.937	0.000	98	124444	10.0	9.62	
84 Chlorobenzene	112	7.398	7.398	0.000	97	334291	10.0	9.63	
85 1,1,1,2-Tetrachloroethane	131	7.469	7.469	0.000	95	106978	10.0	9.94	
86 Ethylbenzene	106	7.505	7.505	0.000	97	183990	10.0	9.93	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	98	218893	10.0	9.70	
89 o-Xylene	106	7.990	7.990	0.000	94	196776	10.0	9.69	
88 Styrene	104	7.990	7.990	0.000	93	355647	10.0	9.76	
90 Bromoform	173	8.156	8.156	0.000	96	83992	10.0	10.1	
91 Isopropylbenzene	105	8.333	8.333	0.000	96	487812	10.0	9.82	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	89	149659	10.0	9.81	
95 Bromobenzene	156	8.617	8.617	0.000	88	124967	10.0	9.63	
96 1,2,3-Trichloropropane	110	8.653	8.653	0.000	83	51223	10.0	9.61	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	96	50317	10.0	9.97	
98 N-Propylbenzene	120	8.735	8.735	0.000	98	135300	10.0	9.75	
99 2-Chlorotoluene	126	8.806	8.806	0.000	97	113403	10.0	9.44	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	95	364578	10.0	9.70	
101 4-Chlorotoluene	126	8.913	8.913	0.000	99	123638	10.0	9.67	
103 tert-Butylbenzene	119	9.220	9.220	0.000	92	296358	10.0	9.70	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	96	363580	10.0	9.58	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.433	9.433	0.000	93	402847	10.0	9.81	a
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	98	215153	10.0	9.66	
107 4-Isopropyltoluene	119	9.575	9.575	0.000	97	347735	10.0	9.84	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	96	216801	10.0	9.62	
111 n-Butylbenzene	91	9.978	9.978	0.000	97	296165	10.0	9.82	
112 1,2-Dichlorobenzene	146	9.978	9.978	0.000	81	206560	10.0	9.61	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	88	39646	10.0	9.52	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	94	123757	10.0	9.69	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	94	36705	10.0	9.98	
118 Naphthalene	128	11.788	11.788	0.000	96	463251	10.0	9.47	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	95	120074	10.0	10.0	
S 129 Total BTEX	1				0		50.0	48.7	
S 128 Trihalomethanes, Total	1				0		40.0	39.4	
S 132 Xylenes, Total	106				0		20.0	19.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VMRGAS_00348	Amount Added:	8.00	Units: uL
vm50ss_stk_00085	Amount Added:	8.00	Units: uL
VM50IS_00084	Amount Added:	2.00	Units: uL
VMRPRIMW_00394	Amount Added:	8.00	Units: uL
VMAROLISTDW_00353	Amount Added:	8.00	Units: uL

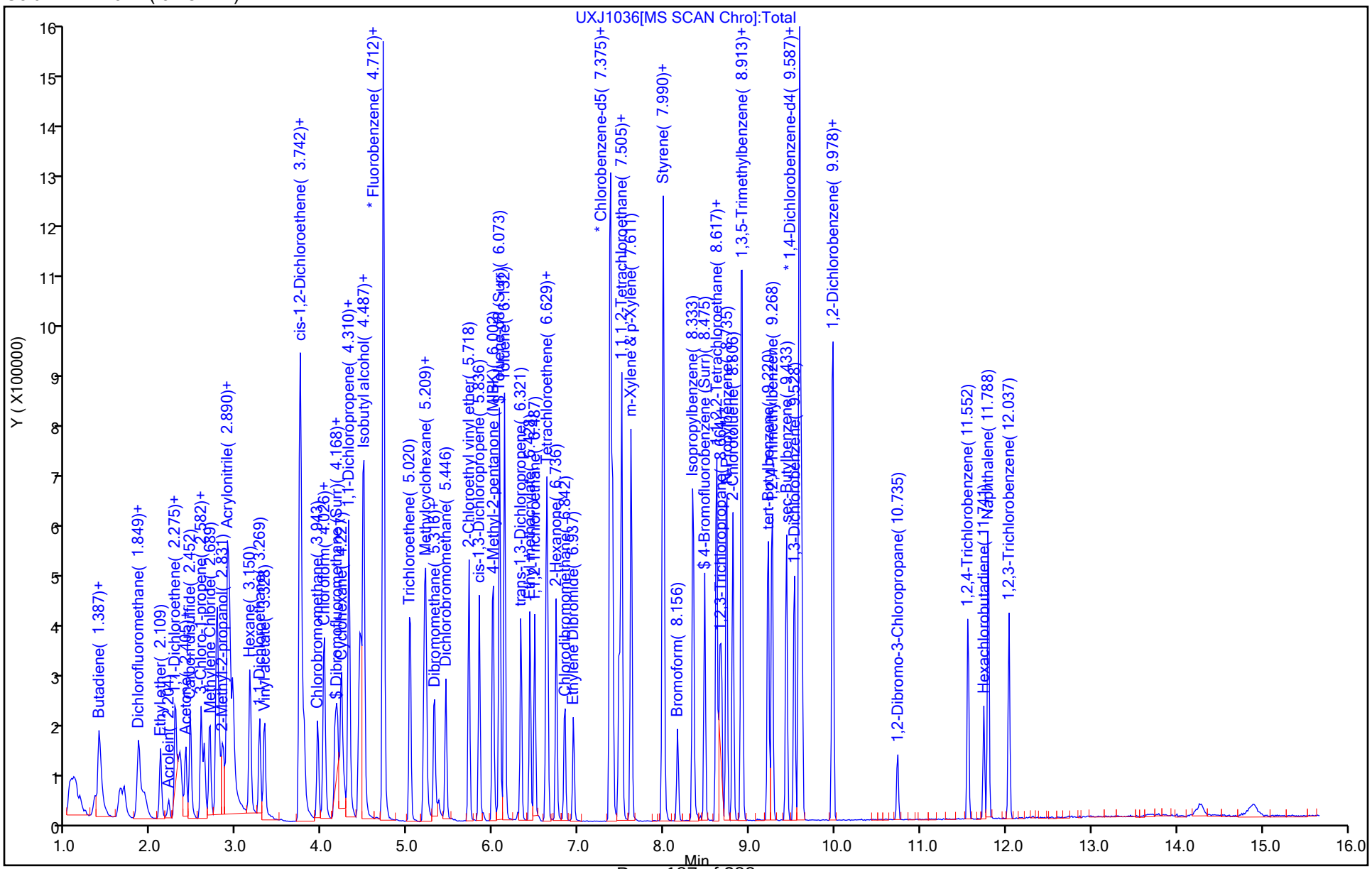
Report Date: 24-Jul-2020 12:01:48 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1036.D

Injection Date:	23-Jul-2020 11:48:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	STD8260 L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

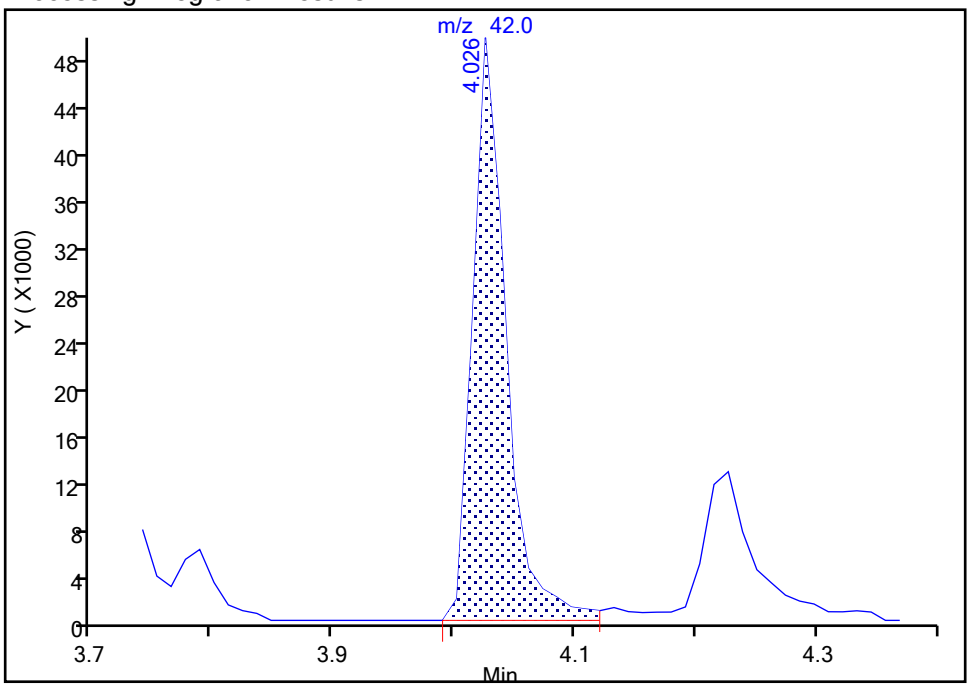
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1036.D
Injection Date: 23-Jul-2020 11:48:30 Instrument ID: A3UX11
Lims ID: STD8260 L4
Client ID:
Operator ID: 043582 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

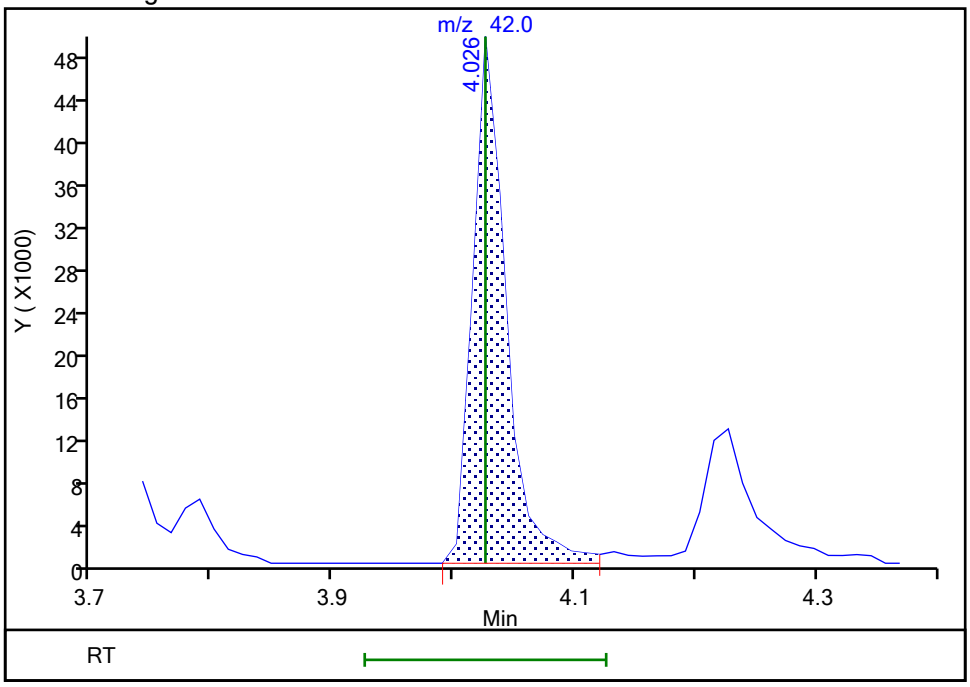
Processing Integration Results

RT: 4.03
Area: 93875
Amount: 18.523245
Amount Units: ug/l



Manual Integration Results

RT: 4.03
Area: 93875
Amount: 18.523245
Amount Units: ug/l



Reviewer: evansle, 24-Jul-2020 09:34:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

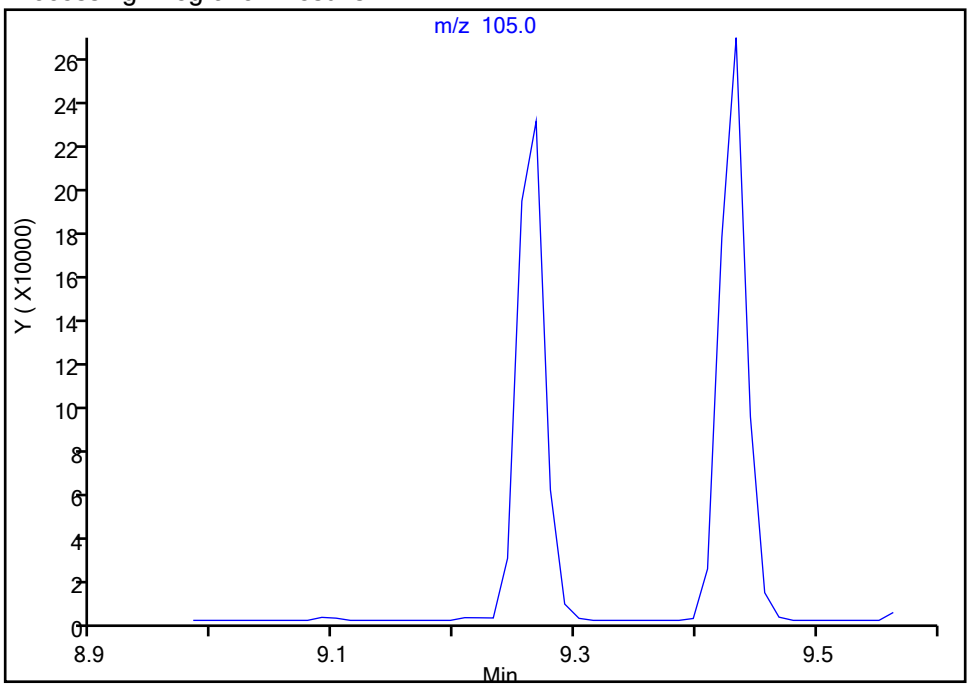
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1036.D
Injection Date: 23-Jul-2020 11:48:30 Instrument ID: A3UX11
Lims ID: STD8260 L4
Client ID:
Operator ID: 043582 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

104 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

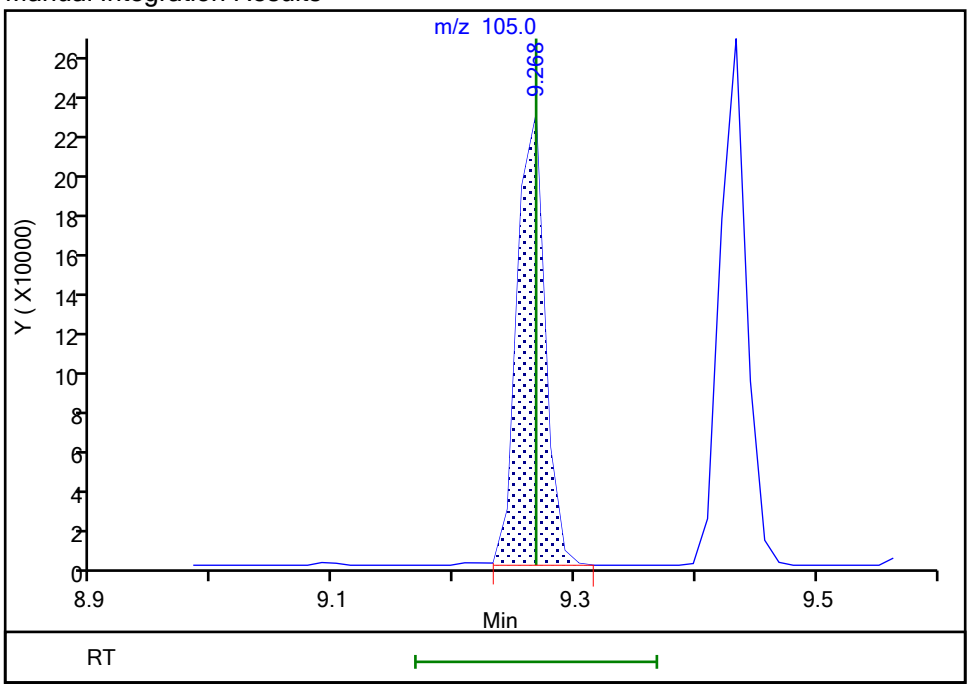
Not Detected
Expected RT: 9.27

Processing Integration Results



Manual Integration Results

RT: 9.27
Area: 363580
Amount: 9.578662
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:00:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

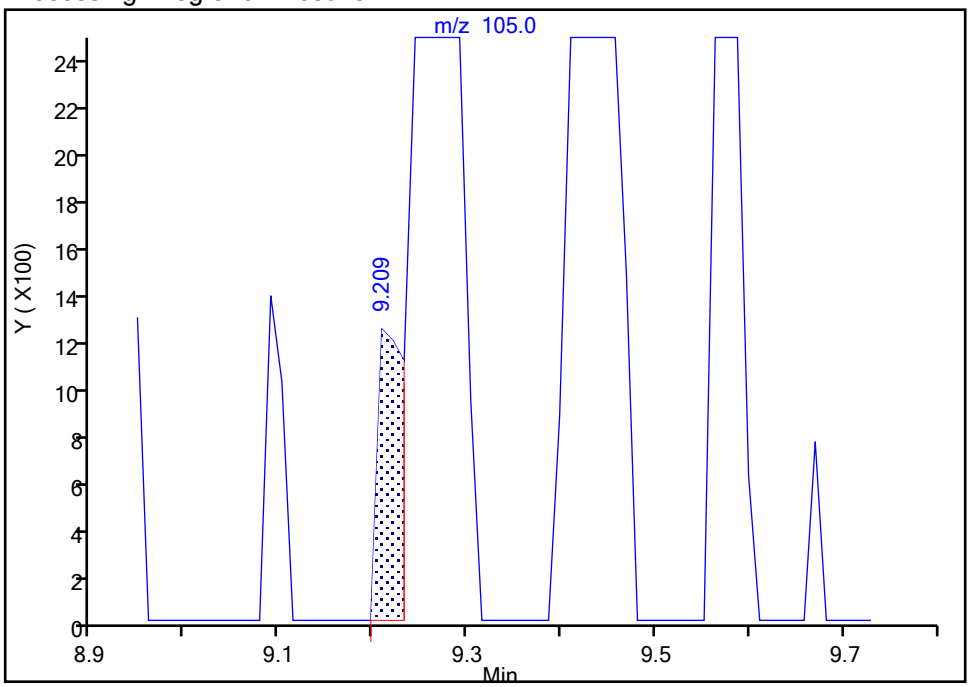
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1036.D
Injection Date: 23-Jul-2020 11:48:30 Instrument ID: A3UX11
Lims ID: STD8260 L4
Client ID:
Operator ID: 043582 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

105 sec-Butylbenzene, CAS: 135-98-8

Signal: 1

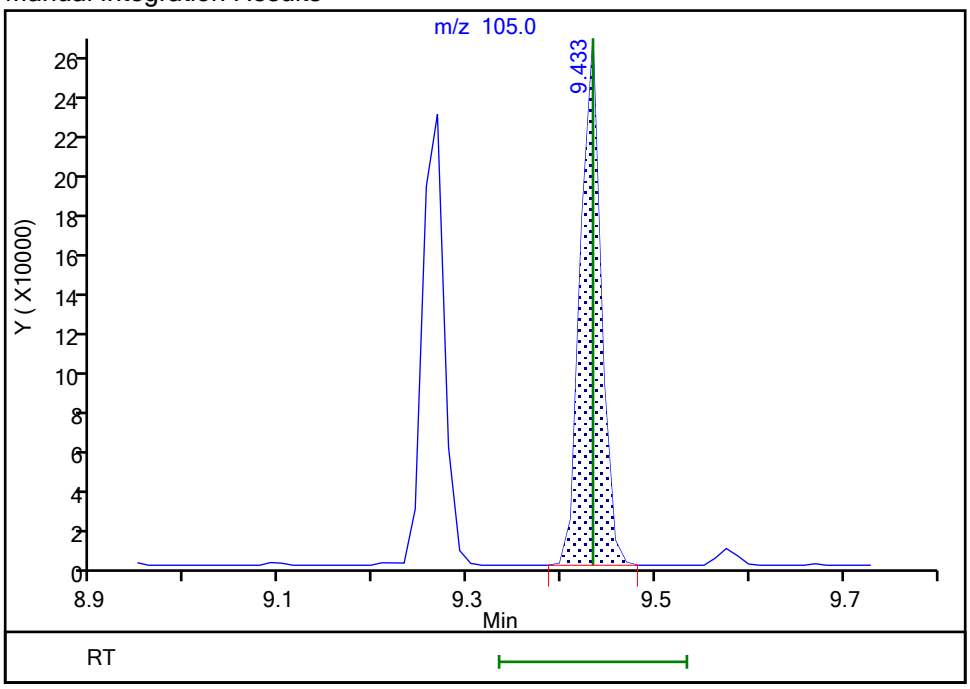
Processing Integration Results

RT: 9.21
Area: 2474
Amount: 9.812434
Amount Units: ug/l



Manual Integration Results

RT: 9.43
Area: 402847
Amount: 9.811067
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:00:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1037.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jul-2020 12:11:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-005
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:50:16 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 23-Jul-2020 13:52:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	1033470	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	83	727030	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	95	300091	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	98	51004	5.00	4.89	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	96	65165	5.00	4.94	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	237643	5.00	4.98	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	96	78109	5.00	4.91	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	98	68760	5.00	5.38	
12 Chloromethane	50	1.352	1.340	0.012	98	43690	5.00	4.87	
13 Butadiene	54	1.399	1.387	0.012	95	55280	5.00	5.21	
14 Vinyl chloride	62	1.423	1.423	0.000	96	61751	5.00	5.30	
15 Bromomethane	94	1.648	1.636	0.012	91	43996	5.00	5.14	
16 Chloroethane	64	1.695	1.683	0.012	99	35388	5.00	5.13	
17 Dichlorofluoromethane	67	1.861	1.849	0.012	95	85701	5.00	5.08	
18 Trichlorofluoromethane	101	1.861	1.860	0.001	96	88787	5.00	5.18	
19 Ethyl ether	59	2.109	2.109	0.000	86	45206	5.00	5.09	
20 Acrolein	56	2.204	2.204	0.000	97	19739	25.0	24.1	
21 1,1-Dichloroethene	96	2.287	2.275	0.012	96	49794	5.00	4.99	
23 112TCTFE	151	2.334	2.322	0.012	91	41896	5.00	5.42	
24 Acetone	43	2.346	2.346	0.000	99	45259	10.0	10.0	
25 Iodomethane	142	2.405	2.405	0.000	96	85541	5.00	5.13	
26 Carbon disulfide	76	2.464	2.452	0.012	98	154783	5.00	5.08	
28 3-Chloro-1-propene	76	2.594	2.582	0.012	88	36809	5.00	5.24	
29 Methyl acetate	43	2.630	2.618	0.012	96	96759	10.0	9.34	
30 Methylene Chloride	84	2.689	2.689	0.000	84	55508	5.00	5.09	
31 2-Methyl-2-propanol	59	2.843	2.843	0.000	99	111911	50.0	51.6	
32 Acrylonitrile	53	2.902	2.890	0.012	100	246856	50.0	49.5	
33 trans-1,2-Dichloroethene	96	2.926	2.914	0.012	94	59575	5.00	5.08	
34 Methyl tert-butyl ether	73	2.961	2.949	0.012	94	160926	5.00	5.00	
35 Hexane	86	3.162	3.150	0.012	89	15840	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	96	87168	5.00	5.03	
37 Vinyl acetate	43	3.328	3.328	0.000	97	137498	5.00	4.97	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	70	15991	5.00	4.80	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	79	62848	5.00	5.00	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	97	75943	10.0	9.34	
46 Chlorobromomethane	128	3.955	3.943	0.012	86	29383	5.00	4.95	
48 Chloroform	83	4.014	4.014	0.000	94	90601	5.00	4.96	
49 Tetrahydrofuran	42	4.026	4.026	0.000	80	47904	10.0	9.77	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	98	81745	5.00	5.17	
51 Cyclohexane	56	4.227	4.227	0.000	85	83524	5.00	5.41	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	96	86730	5.00	5.19	
52 Carbon tetrachloride	117	4.322	4.310	0.012	96	71788	5.00	5.27	
54 Isobutyl alcohol	41	4.452	4.452	0.000	92	78479	125.0	122.5	
55 Benzene	78	4.487	4.475	0.012	94	247487	5.00	5.11	
56 1,2-Dichloroethane	62	4.499	4.487	0.012	98	78013	5.00	5.01	
58 n-Heptane	100	4.724	4.724	0.000	40	14731	5.00	5.40	
60 Trichloroethene	130	5.032	5.032	0.000	97	72499	5.00	5.07	
62 Methylcyclohexane	83	5.197	5.197	0.000	88	84360	5.00	5.34	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	95	53219	5.00	4.93	
64 Dibromomethane	93	5.304	5.304	0.000	95	37729	5.00	4.93	
66 1,4-Dioxane	88	5.363	5.363	0.000	89	15341	100.0	90.4	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	79348	5.00	5.16	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	93	92884	10.0	9.91	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	96	103931	5.00	5.09	
71 4-Methyl-2-pentanone (MIBK)	43	6.002	5.990	0.012	94	147040	10.0	9.93	
72 Toluene	91	6.132	6.132	0.000	98	286322	5.00	5.18	
73 trans-1,3-Dichloropropene	75	6.322	6.321	0.001	91	95846	5.00	4.95	
74 Ethyl methacrylate	69	6.428	6.428	0.000	87	91593	5.00	4.95	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	89	58613	5.00	5.04	
76 Tetrachloroethene	164	6.629	6.617	0.012	98	52860	5.00	5.24	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	88	95922	5.00	4.95	
78 2-Hexanone	43	6.736	6.736	0.000	93	110039	10.0	9.68	
80 Chlorodibromomethane	129	6.842	6.842	0.000	89	59051	5.00	4.91	
82 Ethylene Dibromide	107	6.937	6.937	0.000	97	63633	5.00	5.11	
84 Chlorobenzene	112	7.398	7.398	0.000	97	172166	5.00	5.15	
85 1,1,1,2-Tetrachloroethane	131	7.469	7.469	0.000	94	53342	5.00	5.14	
86 Ethylbenzene	106	7.505	7.505	0.000	97	91605	5.00	5.13	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	98	112638	5.00	5.18	
89 o-Xylene	106	7.990	7.990	0.000	94	100111	5.00	5.12	
88 Styrene	104	7.990	7.990	0.000	94	175669	5.00	5.01	
90 Bromoform	173	8.156	8.156	0.000	95	37651	5.00	4.70	
91 Isopropylbenzene	105	8.333	8.333	0.000	95	248383	5.00	5.19	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	86	73576	5.00	4.98	
95 Bromobenzene	156	8.617	8.617	0.000	89	62704	5.00	4.99	
96 1,2,3-Trichloropropane	110	8.653	8.653	0.001	85	25091	5.00	4.86	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	78	25511	5.00	5.22	
98 N-Propylbenzene	120	8.736	8.735	0.001	99	69931	5.00	5.20	
99 2-Chlorotoluene	126	8.806	8.806	0.000	97	58432	5.00	5.02	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	94	188516	5.00	5.18	
101 4-Chlorotoluene	126	8.913	8.913	0.000	99	61044	5.00	4.93	
103 tert-Butylbenzene	119	9.221	9.220	0.001	92	151379	5.00	5.12	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	96	185801	5.00	5.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.434	9.433	0.001	93	209721	5.00	5.27	
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	98	109082	5.00	5.06	
107 4-Isopropyltoluene	119	9.576	9.575	0.001	97	178511	5.00	5.21	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	96	109089	5.00	5.00	
112 1,2-Dichlorobenzene	146	9.978	9.978	0.000	80	101776	5.00	4.89	
111 n-Butylbenzene	91	9.978	9.978	0.000	97	153273	5.00	5.25	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	89	20283	5.00	5.03	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	93	62242	5.00	5.03	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	94	18435	5.00	5.18	
118 Naphthalene	128	11.788	11.788	0.000	96	234937	5.00	4.96	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	96	56935	5.00	4.91	
S 129 Total BTEX	1				0		25.0	25.7	
S 128 Trihalomethanes, Total	1				0		20.0	19.7	
S 130 1,2-Dichloroethene, Total	96				0			10.1	
S 131 1,3-Dichloropropene, Total	75				0			10.0	
S 132 Xylenes, Total	106				0		10.0	10.3	

Reagents:

VMRGAS_00348	Amount Added:	4.00	Units: uL	
vm50ss_stk_00085	Amount Added:	4.00	Units: uL	
VM50IS_00084	Amount Added:	2.00	Units: uL	
VMRPRIMW_00394	Amount Added:	4.00	Units: uL	
VMAROLISTDW_00353	Amount Added:	4.00	Units: uL	

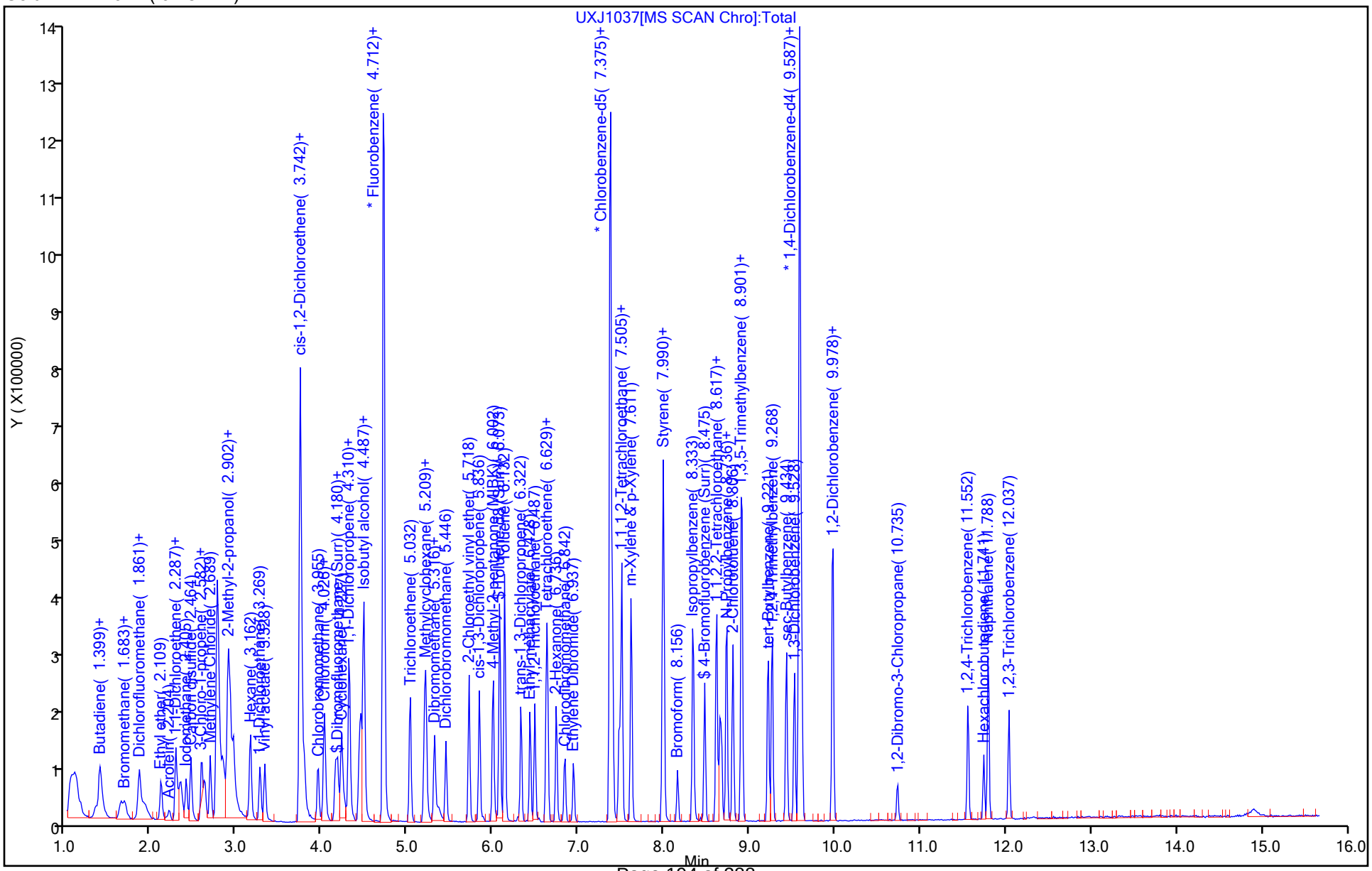
Report Date: 24-Jul-2020 11:50:17 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1037.D

Injection Date:	23-Jul-2020 12:11:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	STD8260 L3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1038.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jul-2020 12:33:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-006
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:50:26 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 23-Jul-2020 14:10:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	1028424	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	84	717241	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	95	289686	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	98	20252	2.00	1.95	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	97	26863	2.00	2.05	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	93	93460	2.00	1.98	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	93	32014	2.00	2.04	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	96	23993	2.00	1.89	
12 Chloromethane	50	1.340	1.340	0.000	37	12710	2.00	2.02	a
13 Butadiene	54	1.399	1.387	0.012	95	20447	2.00	1.94	
14 Vinyl chloride	62	1.434	1.423	0.011	95	20215	2.00	1.74	
15 Bromomethane	94	1.647	1.636	0.011	91	17024	2.00	2.00	
16 Chloroethane	64	1.695	1.683	0.012	98	13665	2.00	1.99	
17 Dichlorofluoromethane	67	1.849	1.849	0.000	92	32678	2.00	1.95	
18 Trichlorofluoromethane	101	1.860	1.860	0.000	94	31864	2.00	1.87	
19 Ethyl ether	59	2.109	2.109	0.000	85	17964	2.00	2.03	
20 Acrolein	56	2.204	2.204	0.000	96	7779	10.0	9.52	
21 1,1-Dichloroethene	96	2.286	2.275	0.011	94	19382	2.00	1.95	
23 112TCTFE	151	2.322	2.322	0.000	87	12370	2.00	1.61	
24 Acetone	43	2.346	2.346	0.000	99	22894	4.00	4.18	
25 Iodomethane	142	2.405	2.405	0.000	97	32809	2.00	1.98	
26 Carbon disulfide	76	2.464	2.452	0.012	98	58964	2.00	1.94	
28 3-Chloro-1-propene	76	2.582	2.582	0.000	84	12590	2.00	1.80	
29 Methyl acetate	43	2.618	2.618	0.000	96	41326	4.00	4.01	
30 Methylene Chloride	84	2.689	2.689	0.000	86	24442	2.00	1.96	
31 2-Methyl-2-propanol	59	2.843	2.843	0.000	99	42498	20.0	19.7	
32 Acrylonitrile	53	2.902	2.890	0.012	100	96715	20.0	19.5	
33 trans-1,2-Dichloroethene	96	2.925	2.914	0.011	92	23261	2.00	1.99	
34 Methyl tert-butyl ether	73	2.961	2.949	0.012	95	61844	2.00	1.93	
35 Hexane	86	3.150	3.150	0.000	89	5458	2.00	1.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.269	3.269	-0.001	96	33428	2.00	1.94	
37 Vinyl acetate	43	3.328	3.328	0.000	97	54775	2.00	1.99	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	51	6217	2.00	1.88	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	79	25920	2.00	2.07	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	98	34858	4.00	4.31	
46 Chlorobromomethane	128	3.943	3.943	0.000	87	11623	2.00	1.97	
48 Chloroform	83	4.014	4.014	0.000	93	36182	2.00	1.99	
49 Tetrahydrofuran	42	4.038	4.026	0.012	82	19295	4.00	3.95	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	97	28324	2.00	1.80	
51 Cyclohexane	56	4.227	4.227	0.000	84	25018	2.00	1.63	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	96	31673	2.00	1.90	
52 Carbon tetrachloride	117	4.322	4.310	0.012	94	23905	2.00	1.76	
54 Isobutyl alcohol	41	4.452	4.452	0.000	94	31014	50.0	49.1	
55 Benzene	78	4.487	4.475	0.012	94	95354	2.00	1.98	
56 1,2-Dichloroethane	62	4.487	4.487	0.000	96	31487	2.00	2.03	
58 n-Heptane	100	4.724	4.724	0.000	37	4329	2.00	1.59	
60 Trichloroethene	130	5.032	5.032	0.000	95	27636	2.00	1.94	
62 Methylcyclohexane	83	5.197	5.197	0.000	84	27141	2.00	1.73	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	94	21751	2.00	2.02	
64 Dibromomethane	93	5.304	5.304	0.000	94	15145	2.00	1.99	
66 1,4-Dioxane	88	5.363	5.363	0.000	94	5136	40.0	37.2	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	29635	2.00	1.94	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	93	37513	4.00	4.02	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	95	39920	2.00	1.96	
71 4-Methyl-2-pentanone (MIBK)	43	6.002	5.990	0.012	94	59255	4.00	4.02	
72 Toluene	91	6.132	6.132	0.000	97	108091	2.00	1.98	
73 trans-1,3-Dichloropropene	75	6.321	6.321	0.000	92	39128	2.00	2.05	
74 Ethyl methacrylate	69	6.428	6.428	0.000	86	35017	2.00	1.92	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	89	22778	2.00	1.98	
76 Tetrachloroethene	164	6.629	6.617	0.012	97	18783	2.00	1.89	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	88	39357	2.00	2.06	
78 2-Hexanone	43	6.736	6.736	0.000	92	46181	4.00	4.12	
80 Chlorodibromomethane	129	6.842	6.842	0.000	88	23394	2.00	1.97	
82 Ethylene Dibromide	107	6.937	6.937	0.000	99	23803	2.00	1.94	
84 Chlorobenzene	112	7.398	7.398	0.000	96	66233	2.00	2.01	
85 1,1,1,2-Tetrachloroethane	131	7.481	7.469	0.012	92	19115	2.00	1.87	
86 Ethylbenzene	106	7.505	7.505	0.000	97	35043	2.00	1.99	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	97	40790	2.00	1.90	
89 o-Xylene	106	7.978	7.990	-0.012	95	38001	2.00	1.97	
88 Styrene	104	7.990	7.990	0.000	94	68078	2.00	1.97	
90 Bromoform	173	8.155	8.156	-0.001	94	14965	2.00	1.90	
91 Isopropylbenzene	105	8.333	8.333	0.000	95	90989	2.00	1.93	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	85	28420	2.00	1.99	
95 Bromobenzene	156	8.617	8.617	0.000	87	24508	2.00	2.02	
96 1,2,3-Trichloropropane	110	8.652	8.653	0.000	85	9815	2.00	1.97	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	80	9296	2.00	1.97	
98 N-Propylbenzene	120	8.735	8.735	0.000	98	26036	2.00	2.01	
99 2-Chlorotoluene	126	8.806	8.806	0.000	98	23052	2.00	2.05	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	93	68748	2.00	1.96	
101 4-Chlorotoluene	126	8.913	8.913	0.000	98	24699	2.00	2.07	
103 tert-Butylbenzene	119	9.220	9.220	0.000	92	57940	2.00	2.03	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	96	69309	2.00	1.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.433	9.433	0.000	93	74280	2.00	1.93	
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	98	42339	2.00	2.03	
107 4-Isopropyltoluene	119	9.575	9.575	0.000	96	61544	2.00	1.86	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	93	42204	2.00	2.00	
112 1,2-Dichlorobenzene	146	9.978	9.978	0.000	84	40229	2.00	2.00	
111 n-Butylbenzene	91	9.978	9.978	0.000	98	54465	2.00	1.93	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	88	7300	2.00	1.88	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	94	23944	2.00	2.01	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	92	7062	2.00	2.05	
118 Naphthalene	128	11.788	11.788	0.000	97	87925	2.00	1.92	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	96	22875	2.00	2.04	
S 129 Total BTEX	1				0		10.0	9.82	
S 128 Trihalomethanes, Total	1				0		8.00	7.79	
S 130 1,2-Dichloroethene, Total	96				0			4.07	
S 131 1,3-Dichloropropene, Total	75				0			4.01	
S 132 Xylenes, Total	106				0		4.00	3.87	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

VMRGAS_00348	Amount Added:	1.60	Units: uL
vm50ss_stk_00085	Amount Added:	1.60	Units: uL
VM50IS_00084	Amount Added:	2.00	Units: uL
VMRPRIMW_00394	Amount Added:	1.60	Units: uL
VMAROLISTDW_00353	Amount Added:	1.60	Units: uL

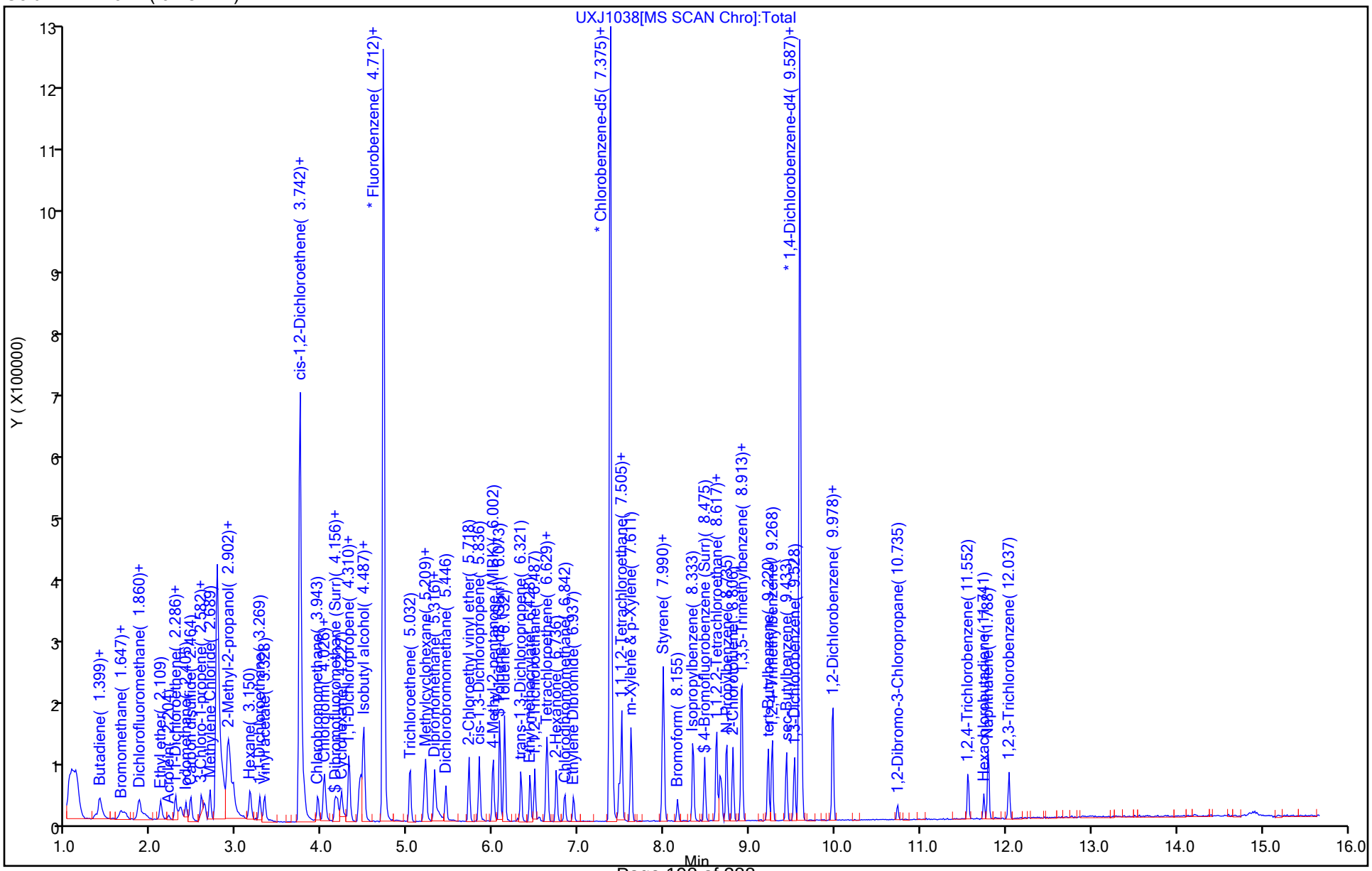
Report Date: 24-Jul-2020 11:50:27 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1038.D

Injection Date:	23-Jul-2020 12:33:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	STD8260 L2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

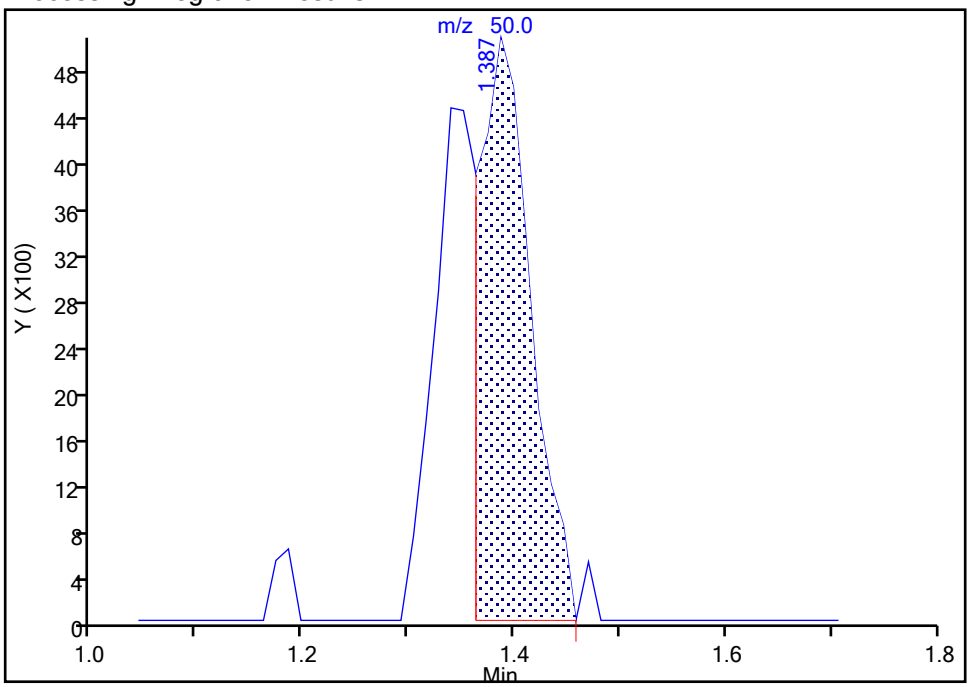
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1038.D
Injection Date: 23-Jul-2020 12:33:30 Instrument ID: A3UX11
Lims ID: STD8260 L2
Client ID:
Operator ID: 043582 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

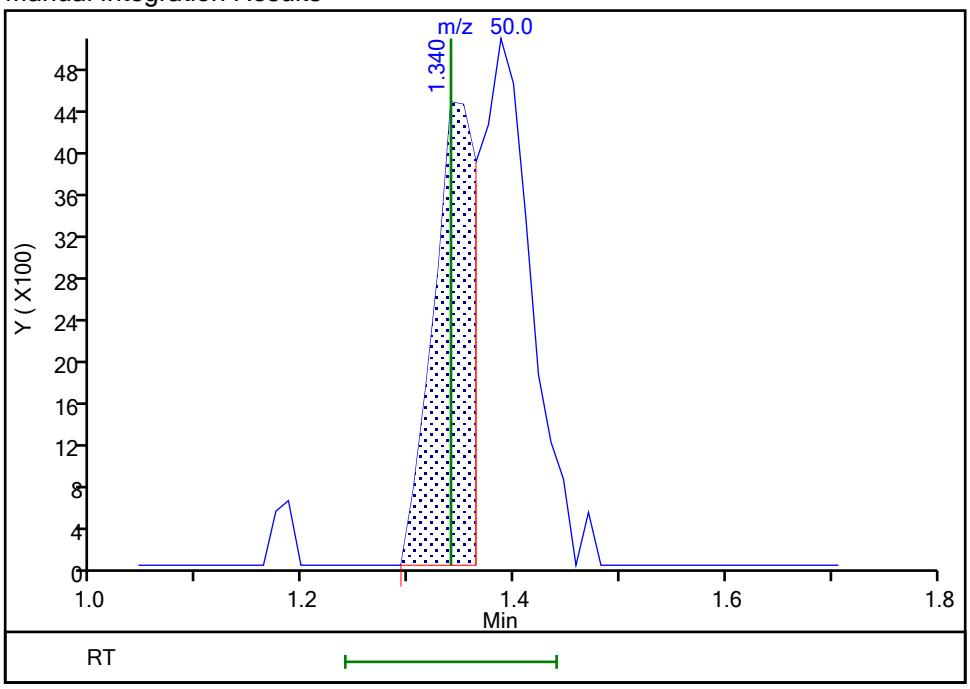
Processing Integration Results

RT: 1.39
Area: 17575
Amount: 1.823689
Amount Units: ug/l



Manual Integration Results

RT: 1.34
Area: 12710
Amount: 2.021530
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:07:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jul-2020 12:55:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-007
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:50:32 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 23-Jul-2020 14:33:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.724	4.712	0.012	100	960466	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	84	679562	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	94	273038	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	98	10499	1.00	1.08	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	95	14573	1.00	1.19	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	51034	1.00	1.14	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	95	18136	1.00	1.22	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	94	12076	1.00	1.02	
12 Chloromethane	50	1.363	1.340	0.023	40	8673	1.00	1.71	Ma
13 Butadiene	54	1.399	1.387	0.012	93	11489	1.00	1.17	
14 Vinyl chloride	62	1.434	1.423	0.011	95	11362	1.00	1.05	
15 Bromomethane	94	1.647	1.636	0.011	79	9634	1.00	1.21	
16 Chloroethane	64	1.695	1.683	0.012	96	7063	1.00	1.10	
17 Dichlorofluoromethane	67	1.860	1.849	0.011	91	18447	1.00	1.18	
18 Trichlorofluoromethane	101	1.860	1.860	0.000	93	18141	1.00	1.14	M
19 Ethyl ether	59	2.109	2.109	0.000	84	8073	1.00	0.9780	
20 Acrolein	56	2.204	2.204	0.000	93	4081	5.00	5.35	
21 1,1-Dichloroethene	96	2.286	2.275	0.011	93	10669	1.00	1.15	
23 112TCTFE	151	2.346	2.322	0.024	58	6082	1.00	0.8466	
24 Acetone	43	2.346	2.346	0.000	99	14283	2.00	2.18	
25 Iodomethane	142	2.417	2.405	0.012	95	15508	1.00	1.00	
26 Carbon disulfide	76	2.464	2.452	0.012	99	32467	1.00	1.15	
28 3-Chloro-1-propene	76	2.594	2.582	0.012	88	6782	1.00	1.04	
29 Methyl acetate	43	2.630	2.618	0.012	95	24311	2.00	2.53	
30 Methylene Chloride	84	2.689	2.689	0.000	90	14165	1.00	1.02	
31 2-Methyl-2-propanol	59	2.843	2.843	0.000	92	19340	10.0	9.60	
32 Acrylonitrile	53	2.902	2.890	0.012	98	49322	10.0	10.6	
33 trans-1,2-Dichloroethene	96	2.925	2.914	0.011	95	12251	1.00	1.12	
34 Methyl tert-butyl ether	73	2.961	2.949	0.012	94	33710	1.00	1.13	
35 Hexane	86	3.162	3.150	0.012	88	2715	1.00	0.9662	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	95	17543	1.00	1.09	
37 Vinyl acetate	43	3.328	3.328	0.000	96	26631	1.00	1.03	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	67	2998	1.00	0.9688	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	75	12642	1.00	1.08	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	97	17742	2.00	2.35	
46 Chlorobromomethane	128	3.955	3.943	0.012	83	5936	1.00	1.08	
48 Chloroform	83	4.026	4.014	0.012	92	18240	1.00	1.07	
49 Tetrahydrofuran	42	4.038	4.026	0.012	75	10477	2.00	2.30	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	97	15878	1.00	1.08	
51 Cyclohexane	56	4.227	4.227	0.000	85	14778	1.00	1.03	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	95	16593	1.00	1.07	
52 Carbon tetrachloride	117	4.322	4.310	0.012	94	12600	1.00	1.00	
54 Isobutyl alcohol	41	4.452	4.452	0.000	92	16217	25.0	27.1	
55 Benzene	78	4.487	4.475	0.012	95	47561	1.00	1.06	
56 1,2-Dichloroethane	62	4.499	4.487	0.012	97	16129	1.00	1.11	
58 n-Heptane	100	4.724	4.724	0.000	37	2528	1.00	1.00	
60 Trichloroethene	130	5.032	5.032	0.000	96	14509	1.00	1.09	
62 Methylcyclohexane	83	5.197	5.197	0.000	84	14684	1.00	1.00	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	94	10935	1.00	1.09	
64 Dibromomethane	93	5.304	5.304	0.000	92	8080	1.00	1.14	
66 1,4-Dioxane	88	5.363	5.363	0.000	70	2516	20.0	24.4	a
67 Dichlorobromomethane	83	5.446	5.446	0.000	98	14823	1.00	1.04	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	92	17779	2.00	2.04	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	95	20220	1.00	1.06	
71 4-Methyl-2-pentanone (MIBK)	43	6.002	5.990	0.012	94	29324	2.00	2.13	
72 Toluene	91	6.132	6.132	0.000	99	56150	1.00	1.09	
73 trans-1,3-Dichloropropene	75	6.321	6.321	0.000	90	19191	1.00	1.06	
74 Ethyl methacrylate	69	6.428	6.428	0.000	85	18126	1.00	1.05	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	88	11891	1.00	1.09	
76 Tetrachloroethene	164	6.629	6.617	0.012	97	9754	1.00	1.03	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	89	19321	1.00	1.07	
78 2-Hexanone	43	6.736	6.736	0.000	92	21228	2.00	2.00	
80 Chlorodibromomethane	129	6.842	6.842	0.000	90	11731	1.00	1.04	
82 Ethylene Dibromide	107	6.937	6.937	0.000	96	12996	1.00	1.12	a
84 Chlorobenzene	112	7.398	7.398	0.000	97	33310	1.00	1.07	
85 1,1,1,2-Tetrachloroethane	131	7.469	7.469	0.000	90	9885	1.00	1.02	
86 Ethylbenzene	106	7.505	7.505	0.000	97	17402	1.00	1.04	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	96	22228	1.00	1.09	
89 o-Xylene	106	7.978	7.990	-0.012	96	18892	1.00	1.03	
88 Styrene	104	8.002	7.990	0.012	95	34412	1.00	1.05	
90 Bromoform	173	8.156	8.156	0.000	94	7439	1.00	0.99	
91 Isopropylbenzene	105	8.333	8.333	0.000	94	47386	1.00	1.06	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	84	13942	1.00	1.04	
95 Bromobenzene	156	8.617	8.617	0.000	89	12206	1.00	1.07	
96 1,2,3-Trichloropropane	110	8.653	8.653	0.000	81	5220	1.00	1.11	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	76	4396	1.00	0.9881	
98 N-Propylbenzene	120	8.735	8.735	0.000	98	13073	1.00	1.07	
99 2-Chlorotoluene	126	8.806	8.806	0.000	97	11484	1.00	1.09	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	92	35387	1.00	1.07	
101 4-Chlorotoluene	126	8.913	8.913	0.000	97	12414	1.00	1.10	
103 tert-Butylbenzene	119	9.220	9.220	0.000	91	29364	1.00	1.09	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	95	36358	1.00	1.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.433	9.433	0.000	93	38396	1.00	1.06	
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	96	21245	1.00	1.08	
107 4-Isopropyltoluene	119	9.575	9.575	0.000	96	33893	1.00	1.09	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	94	21823	1.00	1.10	
112 1,2-Dichlorobenzene	146	9.966	9.978	-0.012	87	20813	1.00	1.10	
111 n-Butylbenzene	91	9.978	9.978	0.000	97	28073	1.00	1.06	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	86	3825	1.00	1.04	
116 1,2,4-Trichlorobenzene	180	11.563	11.552	0.011	93	11700	1.00	1.04	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	82	3309	1.00	1.02	a
118 Naphthalene	128	11.788	11.788	0.000	96	47964	1.00	1.11	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	94	10480	1.00	0.99	
S 129 Total BTEX	1				0		5.00	5.31	
S 128 Trihalomethanes, Total	1				0		4.00	4.15	
S 130 1,2-Dichloroethene, Total	96				0			2.21	
S 131 1,3-Dichloropropene, Total	75				0			2.12	
S 132 Xylenes, Total	106				0		2.00	2.13	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VMRGAS_00348	Amount Added:	0.80	Units: uL
vm50ss_stk_00085	Amount Added:	0.80	Units: uL
VM50IS_00084	Amount Added:	2.00	Units: uL
VMRPRIMW_00394	Amount Added:	0.80	Units: uL
VMAROLISTDW_00353	Amount Added:	0.80	Units: uL

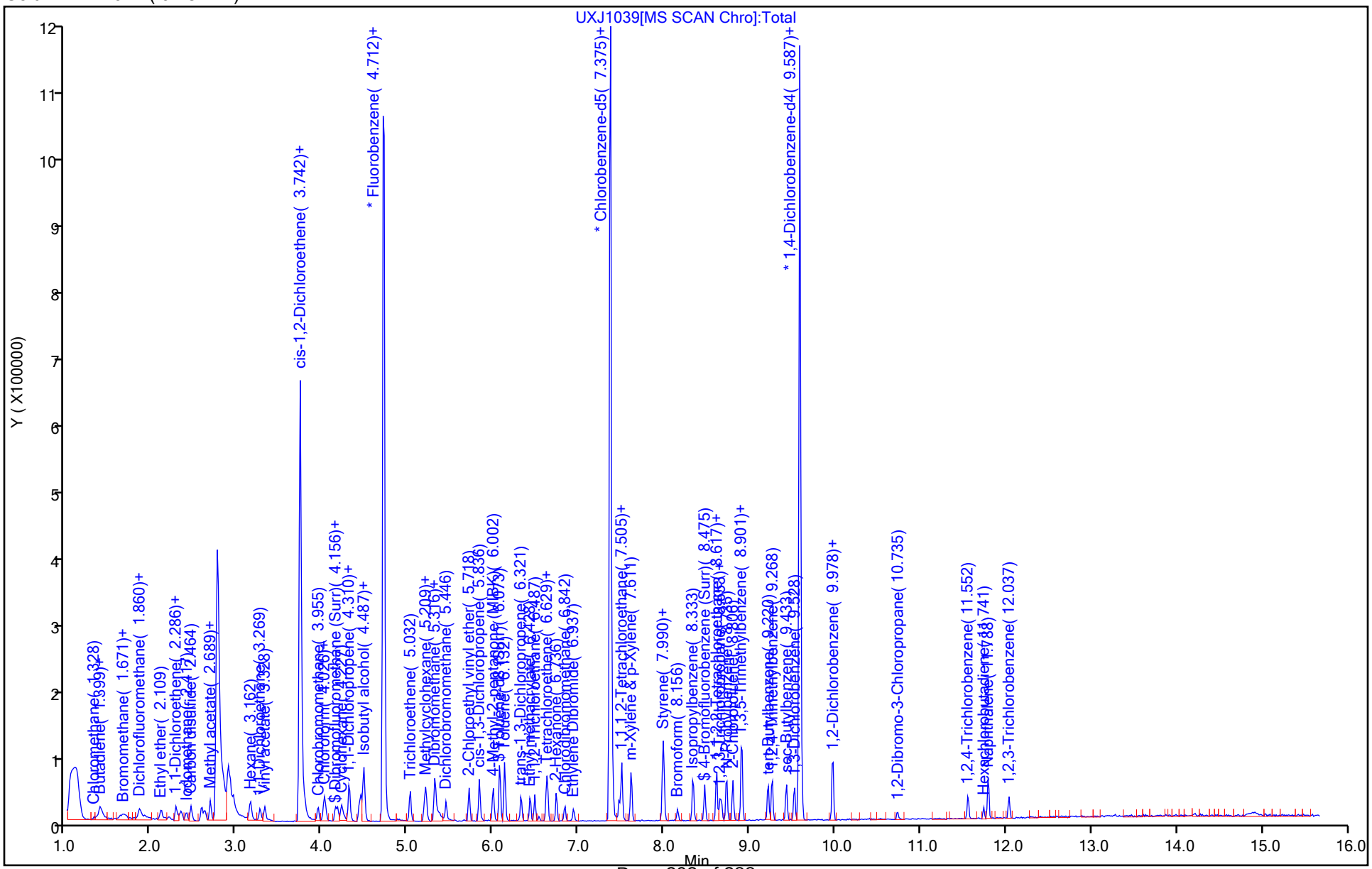
Report Date: 24-Jul-2020 11:50:33 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D

Injection Date:	23-Jul-2020 12:55:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	STD8260 L1			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

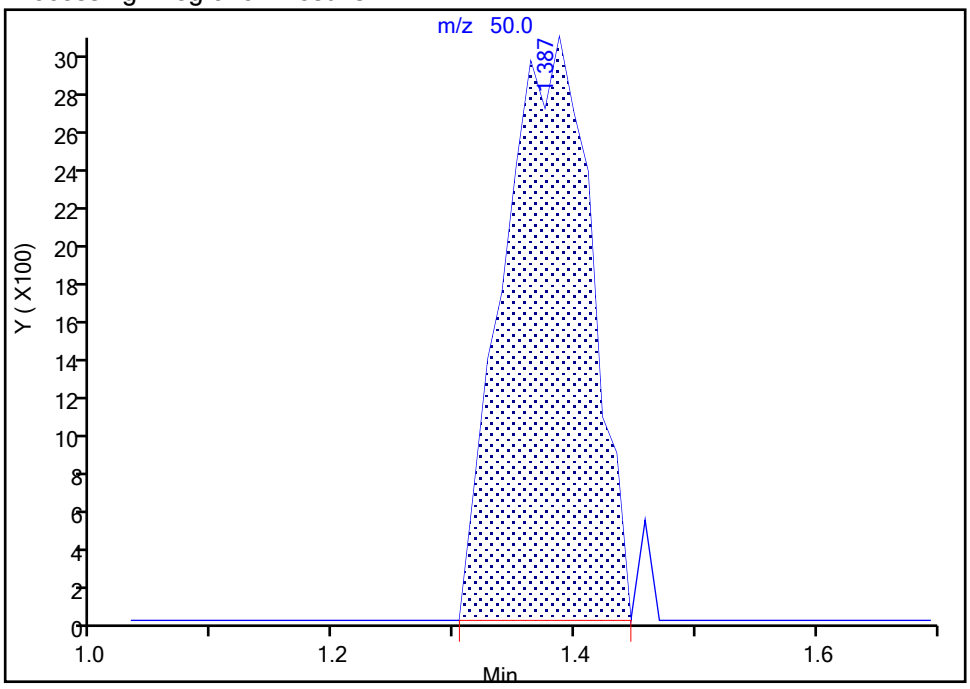
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D
Injection Date: 23-Jul-2020 12:55:30 Instrument ID: A3UX11
Lims ID: STD8260 L1
Client ID:
Operator ID: 043582 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

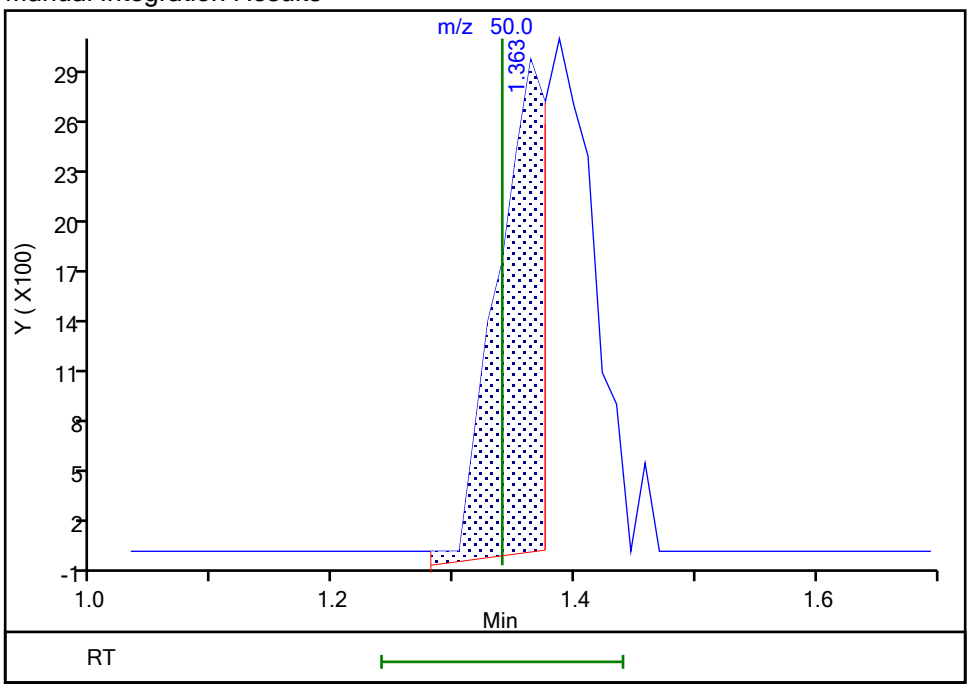
Processing Integration Results

RT: 1.39
Area: 15609
Amount: 1.754305
Amount Units: ug/l



Manual Integration Results

RT: 1.36
Area: 8673
Amount: 1.710733
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:25:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

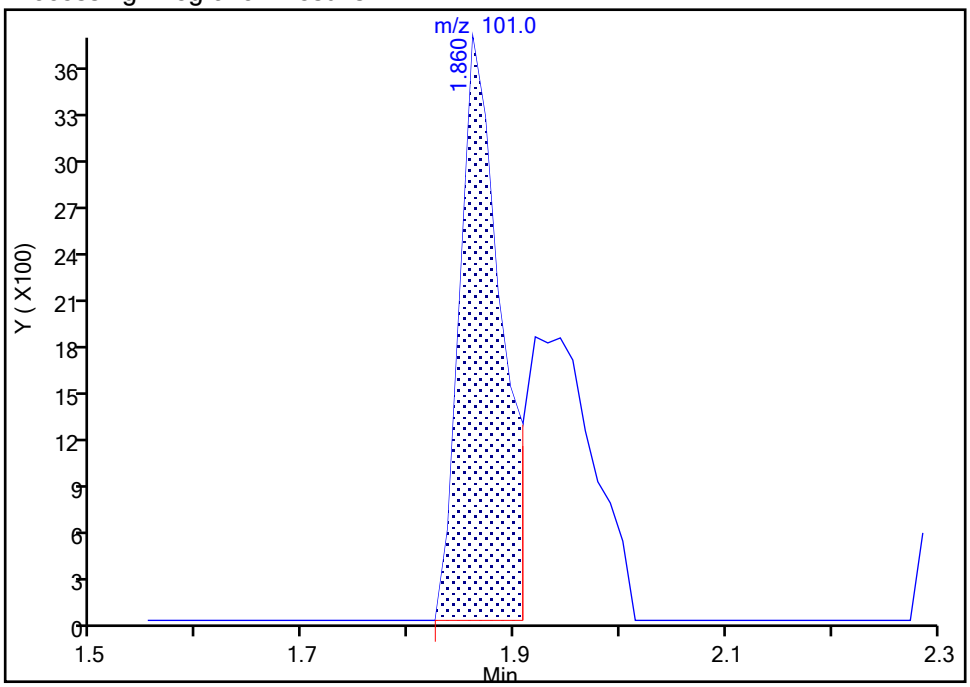
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D
Injection Date: 23-Jul-2020 12:55:30 Instrument ID: A3UX11
Lims ID: STD8260 L1
Client ID:
Operator ID: 043582 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

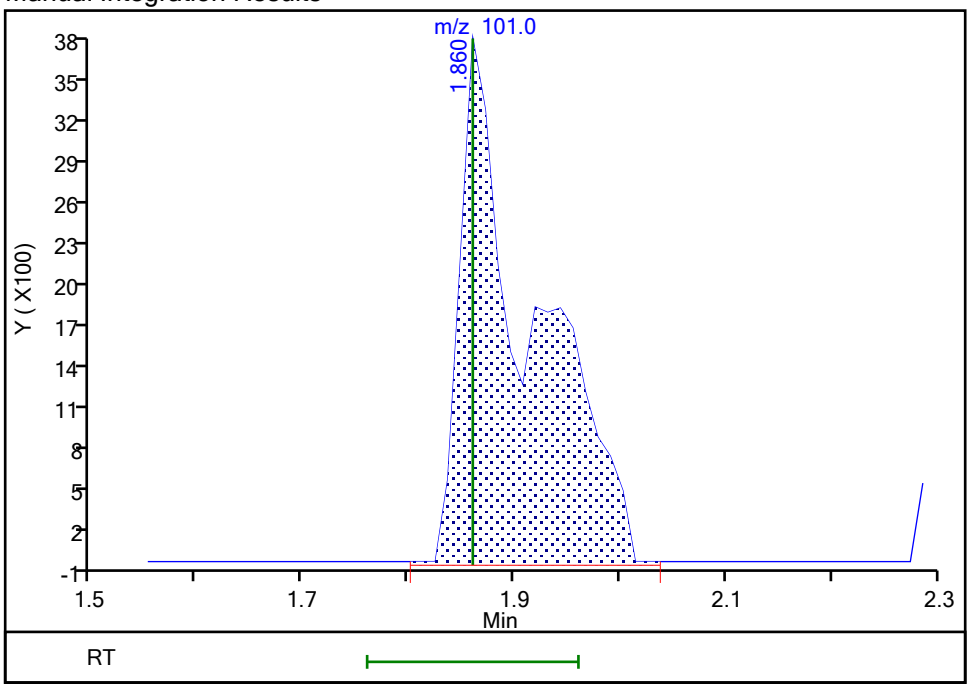
Processing Integration Results

RT: 1.86
Area: 10340
Amount: 0.907411
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 18141
Amount: 1.139716
Amount Units: ug/l



Reviewer: evansle, 24-Jul-2020 09:15:40
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

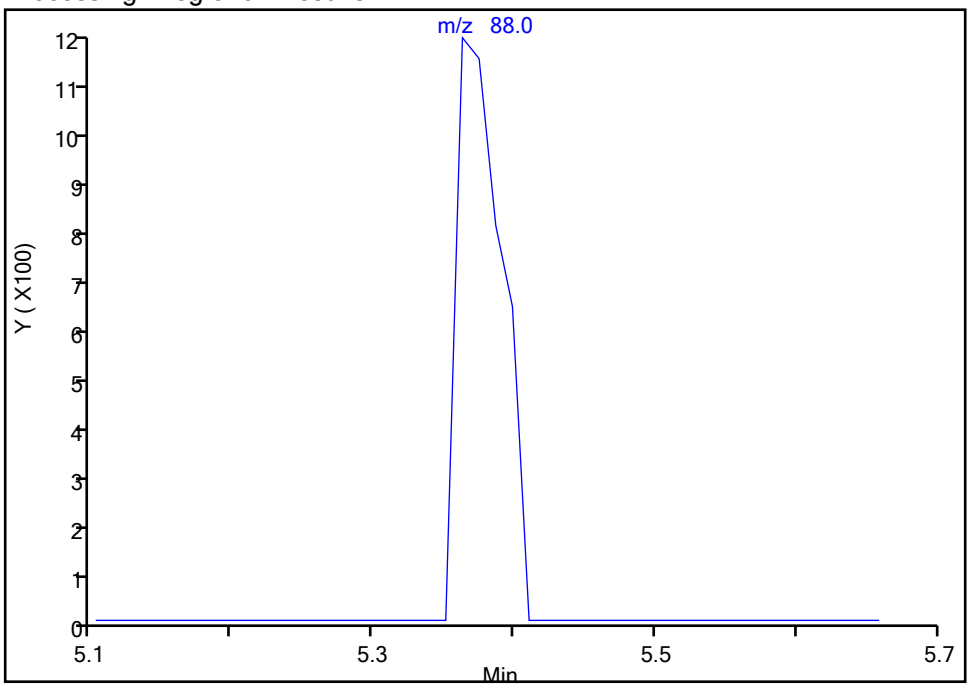
Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D
Injection Date: 23-Jul-2020 12:55:30 Instrument ID: A3UX11
Lims ID: STD8260 L1
Client ID:
Operator ID: 043582 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

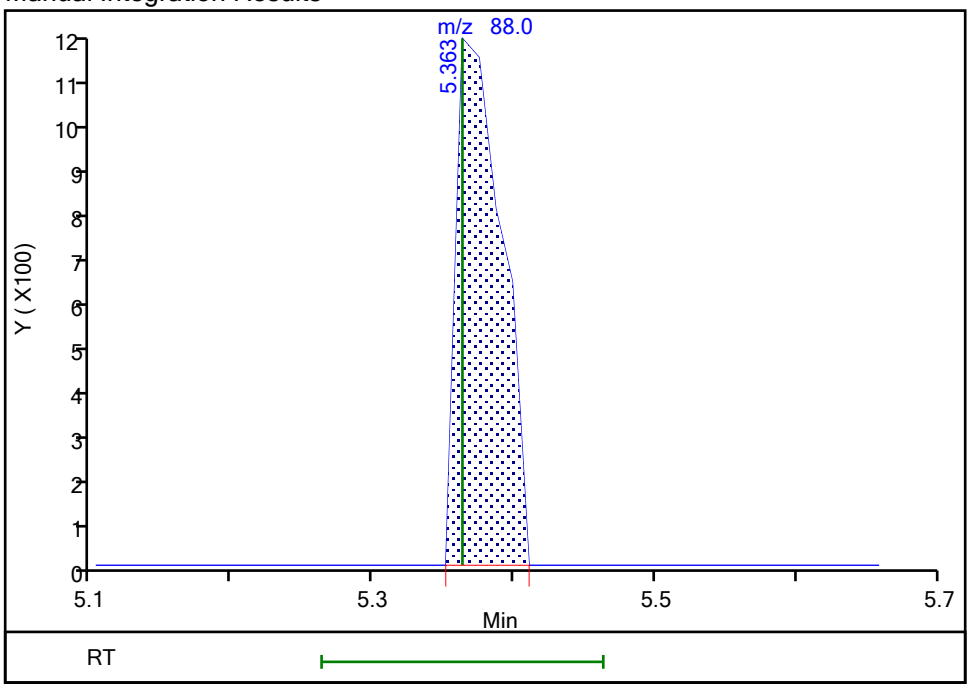
Not Detected
Expected RT: 5.36

Processing Integration Results



Manual Integration Results

RT: 5.36
Area: 2516
Amount: 24.412368
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:25:37
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

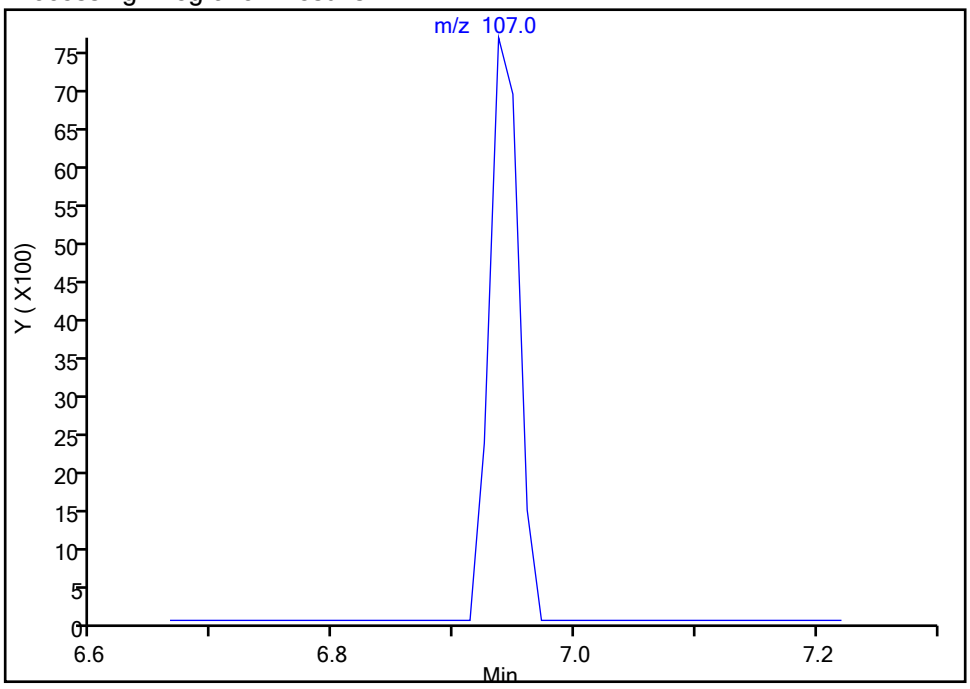
Data File:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D				
Injection Date:	23-Jul-2020 12:55:30	Instrument ID:	A3UX11		
Lims ID:	STD8260 L1				
Client ID:					
Operator ID:	043582	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

82 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

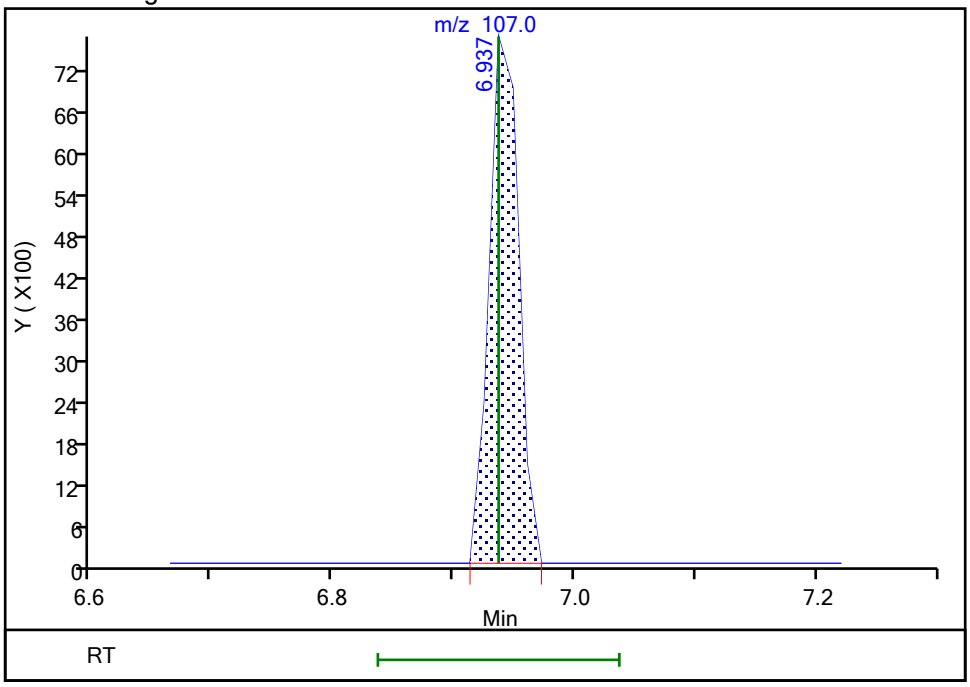
Not Detected
Expected RT: 6.94

Processing Integration Results



Manual Integration Results

RT: 6.94
Area: 12996
Amount: 1.115839
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:26:12
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

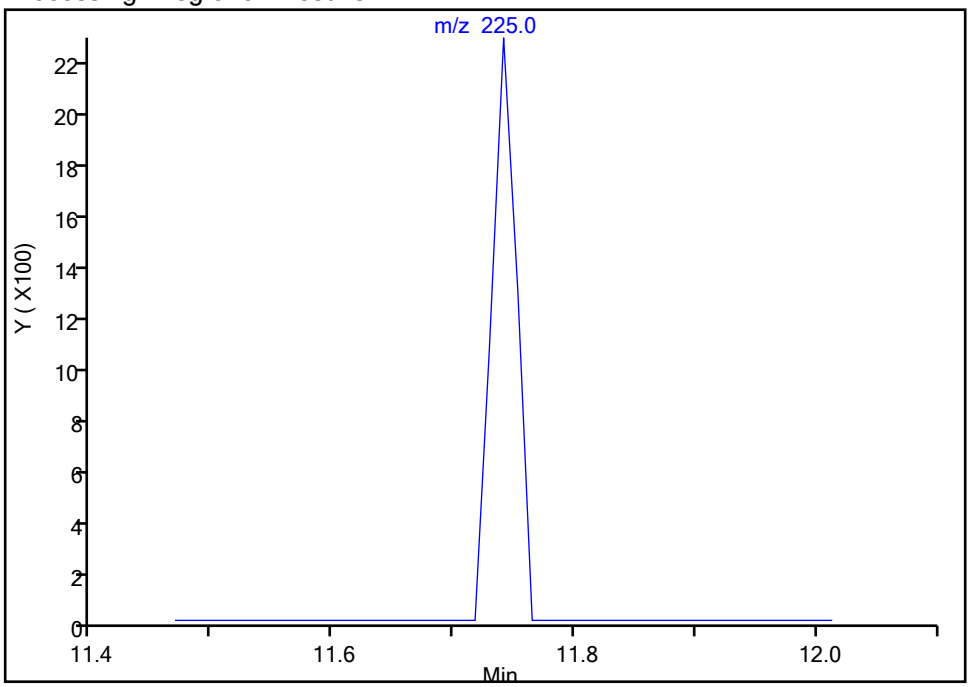
Data File:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1039.D				
Injection Date:	23-Jul-2020 12:55:30	Instrument ID:	A3UX11		
Lims ID:	STD8260 L1				
Client ID:					
Operator ID:	043582	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

117 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

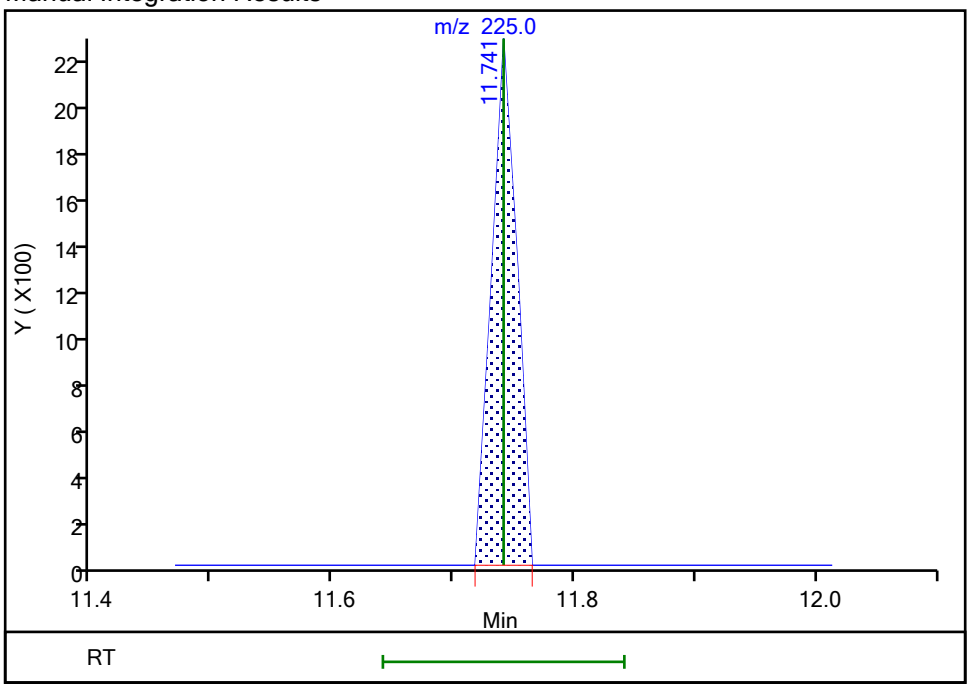
Not Detected
Expected RT: 11.74

Processing Integration Results



Manual Integration Results

RT: 11.74
Area: 3309
Amount: 1.021290
Amount Units: ug/l



Reviewer: evansle, 23-Jul-2020 14:26:51
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442673/7	UXC0322.D
Level 2	STD8260 240-442673/6	UXC0321.D
Level 3	STD8260 240-442673/5	UXC0320.D
Level 4	STD8260 240-442673/4	UXC0319.D
Level 5	STD8260 240-442673/3	UXC0318.D
Level 6	STD8260 240-442673/2	UXC0317.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2613 0.2626	0.2730	0.2887	0.2758	0.2839	Ave		0.2742				4.0		15.0			
Chloromethane	0.3464 0.2944	0.3476	0.3313	0.3274	0.3181	Ave		0.3275			0.1000	6.0		15.0			
Vinyl chloride	0.3568 0.3027	0.3232	0.3357	0.3273	0.3022	Ave		0.3246				6.4		15.0			
Butadiene	0.3916 0.3310	0.4046	0.3831	0.3600	0.3509	Ave		0.3702				7.5		15.0			
Bromomethane	0.2967 0.2571	0.2709	0.2855	0.2754	0.2523	Ave		0.2730				6.2		15.0			
Chloroethane	0.2893 0.2403	0.2549	0.2562	0.2456	0.2395	Ave		0.2543				7.3		15.0			
Dichlorofluoromethane	0.6731 0.5728	0.6466	0.6146	0.6078	0.5745	Ave		0.6149				6.4		15.0			
Trichlorofluoromethane	0.5157 0.5450	0.5157	0.5569	0.5439	0.5399	Ave		0.5362				3.1		15.0			
Ethyl ether	0.2830 0.2705	0.2819	0.2794	0.2674	0.2630	Ave		0.2742				3.0		15.0			
Acrolein	0.0234 0.0202	0.0244	0.0204	0.0207	0.0205	Ave		0.0216				8.5		15.0			
1,1-Dichloroethene	0.3334 0.2928	0.3083	0.2956	0.2855	0.2892	Ave		0.3008				5.9		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1867 0.2553	0.2144	0.2351	0.2234	0.2464	Ave		0.2269				10.9		15.0			
Acetone	0.0600 0.0270	0.0426	0.0326	0.0295	0.0248	Lin1	0.0690	0.0253							0.9960		0.9900
Iodomethane	0.5734 0.5215	0.5038	0.5533	0.5304	0.5161	Ave		0.5331				4.8		15.0			
Carbon disulfide	1.0090 0.8697	0.7019	0.9132	0.7139	0.7877	Ave		0.8326				14.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1669 0.1684	0.1495	0.1649	0.1589	0.1676	Ave		0.1627				4.5		15.0			
Methyl acetate	0.1935 0.1812	0.1800	0.1862	0.1721	0.1709	Ave		0.1806				4.7		15.0			
Methylene Chloride	0.3066 0.2452	0.2655	0.2674	0.2489	0.2487	Ave		0.2637				8.7		15.0			
2-Methyl-2-propanol	0.0146 0.0141	0.0146	0.0139	0.0133	0.0130	Ave		0.0139				4.9		15.0			
Acrylonitrile	0.0891 0.0910	0.0832	0.0873	0.0849	0.0844	Ave		0.0866				3.5		15.0			
Methyl tert-butyl ether	0.6707 0.7859	0.6378	0.6887	0.6832	0.7167	Ave		0.6972				7.2		15.0			
trans-1,2-Dichloroethene	0.2992 0.2773	0.2660	0.2737	0.2607	0.2731	Ave		0.2750				4.8		15.0			
Hexane	0.0376 0.0557	0.0437	0.0477	0.0458	0.0534	Ave		0.0473				14.0		15.0			
1,1-Dichloroethane	0.4725 0.4585	0.4398	0.4654	0.4507	0.4582	Ave		0.4575			0.1000	2.5		15.0			
Vinyl acetate	0.3875 0.5117	0.4069	0.4407	0.4551	0.4754	Ave		0.4462				10.1		15.0			
2,2-Dichloropropane	0.0733 0.0706	0.0693	0.0703	0.0691	0.0746	Ave		0.0712				3.1		15.0			
cis-1,2-Dichloroethene	0.2996 0.2771	0.2857	0.2923	0.2798	0.2826	Ave		0.2862				2.9		15.0			
2-Butanone (MEK)	0.0292 0.0289	0.0284	0.0275	0.0291	0.0277	Ave		0.0285				2.5		15.0			
Chlorobromomethane	0.1414 0.1401	0.1347	0.1431	0.1403	0.1430	Ave		0.1404				2.2		15.0			
Tetrahydrofuran	0.0675 0.0679	0.0744	0.0648	0.0651	0.0637	Ave		0.0672				5.8		15.0			
Chloroform	0.4709 0.4637	0.4458	0.4647	0.4478	0.4619	Ave		0.4591				2.2		15.0			
1,1,1-Trichloroethane	0.3489 0.4014	0.3589	0.3789	0.3830	0.3996	Ave		0.3785				5.6		15.0			
Cyclohexane	0.2998 0.3990	0.3370	0.3798	0.3550	0.4062	Ave		0.3628				11.2		15.0			
1,1-Dichloropropene	0.3703 0.3779	0.3619	0.3657	0.3646	0.3776	Ave		0.3697				1.8		15.0			
Carbon tetrachloride	0.2801 0.3638	0.2626	0.3136	0.3175	0.3562	Ave		0.3156				12.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0051 0.0062	0.0055	0.0052	0.0054	0.0057	Ave		0.0055				7.5		15.0			
Benzene	1.0953 1.1378	1.0343	1.0868	1.0737	1.0990	Ave		1.0878				3.1		15.0			
1,2-Dichloroethane	0.3982 0.4041	0.3985	0.4020	0.3958	0.3970	Ave		0.3993				0.8		15.0			
n-Heptane	0.0408 0.0491	0.0410	0.0410	0.0434	0.0471	Ave		0.0437				8.1		15.0			
Trichloroethene	0.2952 0.2930	0.2870	0.2966	0.2894	0.2957	Ave		0.2928				1.3		15.0			
Methylcyclohexane	0.2359 0.3367	0.2798	0.3078	0.2937	0.3346	Ave		0.2981				12.7		15.0			
1,2-Dichloropropane	0.2545 0.2545	0.2412	0.2570	0.2464	0.2514	Ave		0.2508				2.4		15.0			
Dibromomethane	0.1558 0.1551	0.1479	0.1530	0.1519	0.1524	Ave		0.1527				1.8		15.0			
1,4-Dioxane	0.0013 0.0016	0.0014	0.0014	0.0017	0.0017	Ave		0.0015				12.3		15.0			
Dichlorobromomethane	0.2679 0.3377	0.2600	0.2950	0.3045	0.3190	Ave		0.2974				10.0		15.0			
2-Chloroethyl vinyl ether	0.1379 0.1617	0.1427	0.1427	0.1471	0.1504	Ave		0.1471				5.7		15.0			
cis-1,3-Dichloropropene	0.3079 0.4236	0.3208	0.3549	0.3717	0.3962	Ave		0.3625				12.2		15.0			
4-Methyl-2-pentanone (MIBK)	0.1969 0.2355	0.1988	0.2206	0.2119	0.2192	Ave		0.2138				6.8		15.0			
Toluene	1.4373 1.5847	1.3401	1.3867	1.4288	1.4889	Ave		1.4444				5.9		15.0			
trans-1,3-Dichloropropene	0.3438 0.4847	0.3542	0.3889	0.4193	0.4455	Ave		0.4061				13.4		15.0			
Ethyl methacrylate	0.3073 0.3860	0.2780	0.3386	0.3423	0.3577	Ave		0.3350				11.3		15.0			
1,1,2-Trichloroethane	0.2567 0.2660	0.2406	0.2611	0.2563	0.2622	Ave		0.2571				3.4		15.0			
Tetrachloroethene	0.2537 0.2765	0.2623	0.2598	0.2651	0.2745	Ave		0.2653				3.3		15.0			
1,3-Dichloropropane	0.4759 0.4896	0.4759	0.4784	0.4768	0.4779	Ave		0.4791				1.1		15.0			
2-Hexanone	0.1520 0.1923	0.1828	0.1879	0.1776	0.1823	Ave		0.1792				7.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodibromomethane	0.2177 0.3124	0.2117	0.2378	0.2628	0.2905	Lin1	-0.154	0.3037							0.9950		0.9900
Ethylene Dibromide	0.2697 0.2782	0.2481	0.2591	0.2663	0.2716	Ave		0.2655				4.0		15.0			
Chlorobenzene	0.9340 0.9608	0.8972	0.9152	0.9007	0.9214	Ave		0.9216			0.3000	2.6		15.0			
1,1,1,2-Tetrachloroethane	0.2706 0.3364	0.2467	0.2944	0.3066	0.3289	Ave		0.2973				11.6		15.0			
Ethylbenzene	0.4490 0.5034	0.4318	0.4801	0.4827	0.4964	Ave		0.4739				5.9		15.0			
m-Xylene & p-Xylene	1.1280 1.2903	1.0751	1.1570	1.1616	1.2130	Ave		1.1708				6.3		15.0			
o-Xylene	0.5561 0.6293	0.5548	0.5819	0.5949	0.6104	Ave		0.5879				5.1		15.0			
Styrene	0.8879 1.1288	0.8685	0.9579	0.9814	1.0501	Ave		0.9791				10.1		15.0			
Bromoform	0.1178 0.2090	0.1063	0.1302	0.1513	0.1813	Qua	-0.102	0.1540	0.0014455		0.1000				1.0000		0.9900
Isopropylbenzene	1.2658 1.6102	1.2692	1.3722	1.3899	1.5119	Ave		1.4032				9.7		15.0			
1,1,2,2-Tetrachloroethane	0.6201 0.5523	0.5825	0.6034	0.5717	0.5659	Ave		0.5827			0.3000	4.3		15.0			
Bromobenzene	0.6691 0.6521	0.6647	0.6986	0.6449	0.6542	Ave		0.6639				2.9		15.0			
1,2,3-Trichloropropane	0.2204 0.1887	0.2056	0.2045	0.1967	0.1938	Ave		0.2016				5.6		15.0			
trans-1,4-Dichloro-2-butene	0.1920 0.1772	0.1666	0.1873	0.1758	0.1673	Ave		0.1777				5.8		15.0			
N-Propylbenzene	0.6008 0.6542	0.6160	0.6727	0.6431	0.6568	Ave		0.6406				4.2		15.0			
2-Chlorotoluene	0.6348 0.5920	0.6036	0.6216	0.6010	0.6109	Ave		0.6106				2.5		15.0			
1,3,5-Trimethylbenzene	1.8211 2.0746	1.8543	2.0261	1.9701	2.0374	Ave		1.9639				5.3		15.0			
4-Chlorotoluene	2.0931 2.1066	2.0386	2.1028	2.0332	2.0709	Ave		2.0742				1.6		15.0			
tert-Butylbenzene	1.5156 1.6860	1.5109	1.6690	1.5958	1.7019	Ave		1.6132				5.3		15.0			
1,2,4-Trimethylbenzene	1.9256 2.1837	1.9370	2.0901	2.0235	2.1458	Ave		2.0510				5.2		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	1.9193 2.2194	1.9509	2.1174	2.0924	2.2298	Ave		2.0882				6.3		15.0			
1,3-Dichlorobenzene	1.2293 1.2274	1.1815	1.2760	1.2137	1.2250	Ave		1.2255				2.5		15.0			
4-Isopropyltoluene	1.7596 2.0591	1.7607	1.9563	1.9315	2.0685	Ave		1.9226				7.1		15.0			
1,4-Dichlorobenzene	1.4164 1.3137	1.2878	1.3319	1.2817	1.3163	Ave		1.3246				3.7		15.0			
n-Butylbenzene	1.4296 1.5094	1.4547	1.5756	1.5117	1.5943	Ave		1.5126				4.3		15.0			
1,2-Dichlorobenzene	1.2704 1.2569	1.2384	1.2982	1.2364	1.2582	Ave		1.2598				1.8		15.0			
1,2-Dibromo-3-Chloropropane	0.0900 0.1097	0.0921	0.0999	0.0978	0.1034	Ave		0.0988				7.4		15.0			
1,2,4-Trichlorobenzene	0.7428 0.5809	0.7142	0.7316	0.6569	0.6321	Ave		0.6764				9.4		15.0			
Hexachlorobutadiene	0.3814 0.2204	0.3471	0.3213	0.2741	0.2566	Qua	0.1424	0.2817	-0.001623						1.0000		0.9900
Naphthalene	1.8744 1.6282	1.6872	1.8675	1.6931	1.6714	Ave		1.7370				6.1		15.0			
1,2,3-Trichlorobenzene	0.7458 0.5054	0.6324	0.6469	0.5926	0.5578	Ave		0.6135				13.5		15.0			
Dibromofluoromethane (Surr)	0.2396 0.2391	0.2265	0.2388	0.2383	0.2444	Ave		0.2378				2.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3566 0.3149	0.3235	0.3222	0.3237	0.3276	Ave		0.3281				4.4		15.0			
Toluene-d8 (Surr)	1.2382 1.2974	1.1983	1.2135	1.2376	1.2665	Ave		1.2419				2.9		15.0			
4-Bromofluorobenzene (Surr)	0.4574 0.4449	0.4147	0.4253	0.4278	0.4405	Ave		0.4351				3.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-442673/7	UXC0322.D
Level 2	STD8260 240-442673/6	UXC0321.D
Level 3	STD8260 240-442673/5	UXC0320.D
Level 4	STD8260 240-442673/4	UXC0319.D
Level 5	STD8260 240-442673/3	UXC0318.D
Level 6	STD8260 240-442673/2	UXC0317.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	34208 1760864	76081	206320	420321	910832	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	45347 1973628	96875	236744	498961	1020500	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	46710 2029220	90075	239901	498870	969328	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	51272 2219285	112763	273735	548736	1125561	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	38839 1723795	75507	204045	419693	809286	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	37874 1611305	71037	183045	374298	768189	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	88120 3840012	180232	439198	926362	1842997	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	67509 3653819	143732	397940	828979	1732110	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	37048 1813601	78571	199629	407577	843666	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	15308 676123	34074	72866	157855	328684	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	43645 1963312	85934	211238	435096	927763	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	24445 1711542	59756	168029	340418	790521	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	15699 362468	23762	46640	89786	159205	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	75063 3496420	140427	395408	808393	1655710	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	132094 5830650	195650	652584	1088081	2526956	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	21846 1128801	41665	117840	242200	537735	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	50658 2429634	100348	266120	524601	1096508	2.00 80.0	4.00	10.0	20.0	40.0
Methylene Chloride	FB	Ave	40134 1643776	73996	191087	379310	797960	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	19087 947610	40795	99077	202920	415736	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	116597 6102312	231851	623580	1294049	2708075	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	87810 5269057	177783	492127	1041316	2299095	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	39170 1859268	74138	195605	397300	876259	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	4920 373347	12170	34077	69816	171385	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	61854 3074130	122593	332536	686945	1469776	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	50734 3430909	113415	314892	693661	1525128	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	9590 473402	19328	50257	105382	239182	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	39220 1858024	79625	208849	426408	906703	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	7649 387901	15859	39373	88690	177553	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	18509 939045	37537	102285	213819	458710	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	17675 910314	41450	92539	198485	408382	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	61650 3109017	124249	332073	682453	1481660	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	45674 2691367	100048	270788	583710	1281850	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	39244 2674808	93923	271386	541046	1303121	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	48474 2533693	100865	261355	555754	1211288	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	36666 2439258	73200	224073	483914	1142727	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	16586 1047424	38570	93740	204875	458728	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	143387 7628057	288276	776586	1636345	3525730	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	52125 2709333	111084	287270	603257	1273613	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	5347 328937	11418	29317	66188	151114	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	38650 1964221	79981	211929	441013	948583	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	30877 2257271	77979	219943	447552	1073489	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	33314 1706563	67224	183674	375491	806567	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	20400 1039887	41212	109320	231553	488923	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	3361 217225	7651	19794	51451	110130	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	35076 2264127	72482	210823	464128	1023368	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	36108 2168741	79527	203930	448387	964696	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	40309 2839622	89417	253640	566577	1271077	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	51544 3157172	110825	315229	645946	1406428	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBNZ d5	Ave	144790 8686510	292646	771811	1701273	3805298	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	34639 2657176	77362	216435	499297	1138601	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	30953 2115670	60701	188458	407611	914233	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	25857 1458029	52547	145334	305142	670018	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	25553 1515545	57274	144585	315672	701447	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	47939 2683582	103936	266250	567728	1221266	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBNZ d5	Ave	30628 2108060	79861	209165	423001	931783	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBNZ d5	Lin1	21933 1712637	46226	132374	312867	742304	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	27167 1524949	54171	144183	317052	694096	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	94094 5266892	195930	509365	1072501	2354800	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	27261 1844163	53867	163834	365103	840651	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	45235 2759185	94304	267197	574718	1268751	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	113635 7073072	234774	643982	1383073	3100061	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBNZ d5	Ave	56021 3449833	121163	323892	708344	1560095	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBNZ d5	Ave	89448 6187630	189671	533146	1168595	2683796	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBNZ d5	Qua	11865 1145639	23218	72471	180094	463306	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBNZ d5	Ave	127516 8826748	277174	763709	1654978	3863945	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	35125 1939129	69534	188206	404712	896523	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCBd 4	Ave	37900 2289503	79344	217890	456551	1036459	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	12485 662540	24539	63789	139233	306952	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	10877 622282	19888	58401	124484	264986	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	34035 2297120	73530	209809	455266	1040511	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	35959 2078661	72054	193864	425445	967720	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	103163 7284237	221338	631906	1394679	3227728	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	118570 7396721	243339	655852	1439288	3280770	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	85852 5920044	180352	520554	1129693	2696132	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	109081 7667565	231210	651871	1432476	3399446	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	108724 7792680	232873	660396	1481248	3532401	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	69634 4309620	141034	397961	859183	1940677	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCBd 4	Ave	99676 7230023	210172	610160	1367355	3276940	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	80236 4612724	153718	415388	907360	2085253	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 08:39 Calibration End Date: 07/15/2020 10:29 Calibration ID: 57825

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	80981 5299843	173642	491419	1070147	2525730	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	71966 4413220	147829	404904	875286	1993178	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	5097 385201	10997	31150	69215	163781	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	42079 2039746	85248	228163	465035	1001445	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCBd 4	Qua	21605 773699	41437	100212	194068	406459	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCBd 4	Ave	106177 5716933	201391	582460	1198535	2647849	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	42250 1774553	75490	201752	419491	883703	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	31373 1603108	63126	170613	363181	784042	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	46678 2111275	90176	230236	493412	1050811	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	124734 7112095	261682	675431	1473627	3236806	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	46077 2438586	90558	236690	509359	1125888	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0317.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Jul-2020 08:39:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-002
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:17 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 09:12:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1676083	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	84	1370410	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	89	877806	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	1603108	40.0	40.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	2111275	40.0	38.4	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	93	7112095	40.0	41.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	93	2438586	40.0	40.9	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	1760864	40.0	38.3	
10 Chloromethane	50	1.598	1.598	0.000	99	1973628	40.0	36.0	
11 Vinyl chloride	62	1.693	1.693	0.000	98	2029220	40.0	37.3	
12 Butadiene	54	1.693	1.693	0.000	97	2219285	40.0	35.8	
13 Bromomethane	94	1.942	1.942	0.000	92	1723795	40.0	37.7	
14 Chloroethane	64	2.025	2.025	0.000	100	1611305	40.0	37.8	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	3840012	40.0	37.3	
16 Trichlorofluoromethane	101	2.238	2.226	0.012	98	3653819	40.0	40.7	
17 Ethyl ether	59	2.440	2.440	0.000	91	1813601	40.0	39.5	
18 Acrolein	56	2.558	2.558	0.000	99	676123	200.0	186.7	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	1963312	40.0	38.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	93	1711542	40.0	45.0	
21 Acetone	58	2.677	2.677	0.000	99	362468	80.0	82.7	
22 Iodomethane	142	2.772	2.772	0.000	99	3496420	40.0	39.1	
24 Carbon disulfide	76	2.831	2.831	0.000	100	5830650	40.0	41.8	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	86	1128801	40.0	41.4	
27 Methyl acetate	43	2.950	2.950	0.000	98	2429634	80.0	80.2	
28 Methylene Chloride	84	3.045	3.044	0.000	95	1643776	40.0	37.2	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	95	947610	400.0	406.3	
30 Acrylonitrile	53	3.246	3.246	0.000	99	6102312	400.0	420.2	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	96	5269057	40.0	45.1	
32 trans-1,2-Dichloroethene	96	3.258	3.270	-0.012	96	1859268	40.0	40.3	
34 Hexane	86	3.483	3.471	0.012	94	373347	40.0	47.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	3074130	40.0	40.1	
36 Vinyl acetate	43	3.637	3.637	0.000	98	3430909	40.0	45.9	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	74	473402	40.0	39.7	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	1858024	40.0	38.7	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	387901	80.0	81.2	
46 Chlorobromomethane	128	4.290	4.290	0.000	95	939045	40.0	39.9	
47 Tetrahydrofuran	42	4.325	4.325	0.000	88	910314	80.0	80.8	
48 Chloroform	83	4.349	4.349	0.000	94	3109017	40.0	40.4	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	2691367	40.0	42.4	
50 Cyclohexane	56	4.551	4.551	0.001	92	2674808	40.0	44.0	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	92	2533693	40.0	40.9	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	2439258	40.0	46.1	
53 Isobutyl alcohol	41	4.717	4.717	0.000	93	1047424	1000.0	1129.5	
55 Benzene	78	4.811	4.811	0.000	96	7628057	40.0	41.8	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	2709333	40.0	40.5	
58 n-Heptane	100	5.013	5.013	0.000	92	328937	40.0	44.9	
60 Trichloroethene	130	5.345	5.345	0.000	96	1964221	40.0	40.0	
62 Methylcyclohexane	83	5.511	5.511	0.000	91	2257271	40.0	45.2	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	1706563	40.0	40.6	
65 Dibromomethane	93	5.653	5.653	0.000	92	1039887	40.0	40.6	
66 1,4-Dioxane	88	5.653	5.653	0.000	83	217225	800.0	857.8	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	2264127	40.0	45.4	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	2168741	80.0	88.0	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	93	2839622	40.0	46.7	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	3157172	80.0	88.1	
72 Toluene	91	6.460	6.460	0.000	97	8686510	40.0	43.9	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	95	2657176	40.0	47.7	
74 Ethyl methacrylate	69	6.709	6.709	0.000	89	2115670	40.0	46.1	
75 1,1,2-Trichloroethane	97	6.816	6.815	0.001	92	1458029	40.0	41.4	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	1515545	40.0	41.7	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	92	2683582	40.0	40.9	
78 2-Hexanone	43	7.029	7.029	0.000	97	2108060	80.0	85.9	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	1712637	40.0	41.7	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	1524949	40.0	41.9	
84 Chlorobenzene	112	7.740	7.740	0.000	97	5266892	40.0	41.7	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	94	1844163	40.0	45.3	
86 Ethylbenzene	106	7.835	7.835	0.000	98	2759185	40.0	42.5	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	92	7073072	40.0	44.1	
88 o-Xylene	106	8.322	8.322	0.000	97	3449833	40.0	42.8	
89 Styrene	104	8.333	8.333	0.000	95	6187630	40.0	46.1	
90 Bromoform	173	8.523	8.523	0.000	98	1145639	40.0	40.0	
91 Isopropylbenzene	105	8.665	8.665	0.000	94	8826748	40.0	45.9	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	1939129	40.0	37.9	
95 Bromobenzene	156	8.974	8.974	0.000	94	2289503	40.0	39.3	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	89	662540	40.0	37.4	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	81	622282	40.0	39.9	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	2297120	40.0	40.8	
99 2-Chlorotoluene	126	9.152	9.152	0.000	98	2078661	40.0	38.8	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	7284237	40.0	42.3	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	7396721	40.0	40.6	
104 tert-Butylbenzene	119	9.555	9.555	0.000	90	5920044	40.0	41.8	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	95	7667565	40.0	42.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	93	7792680	40.0	42.5	
108 1,3-Dichlorobenzene	146	9.887	9.875	0.012	98	4309620	40.0	40.1	
109 4-Isopropyltoluene	119	9.911	9.899	0.012	97	7230023	40.0	42.8	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	97	4612724	40.0	39.7	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	5299843	40.0	39.9	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	98	4413220	40.0	39.9	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	86	385201	40.0	44.4	
117 1,2,4-Trichlorobenzene	180	11.938	11.927	0.012	94	2039746	40.0	34.4	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	97	773699	40.0	40.0	
119 Naphthalene	128	12.176	12.176	0.000	96	5716933	40.0	37.5	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	1774553	40.0	33.0	
S 127 1,2-Dichloroethene, Total	96				0			79.1	
S 128 1,3-Dichloropropene, Total	75				0			94.5	
S 129 Xylenes, Total	106				0		80.0	86.9	
S 130 Total BTEX	1				0		200.0	215.1	
S 131 Trihalomethanes, Total	1				0		160.0	167.4	

Reagents:

vm50ss_stk_00085	Amount Added:	32.00	Units: uL
VM50is_00084	Amount Added:	1.00	Units: uL
VMRPRIMW_00393	Amount Added:	32.00	Units: uL
VMAROLISTDW_00352	Amount Added:	32.00	Units: uL
VMRGAS_00346	Amount Added:	32.00	Units: uL

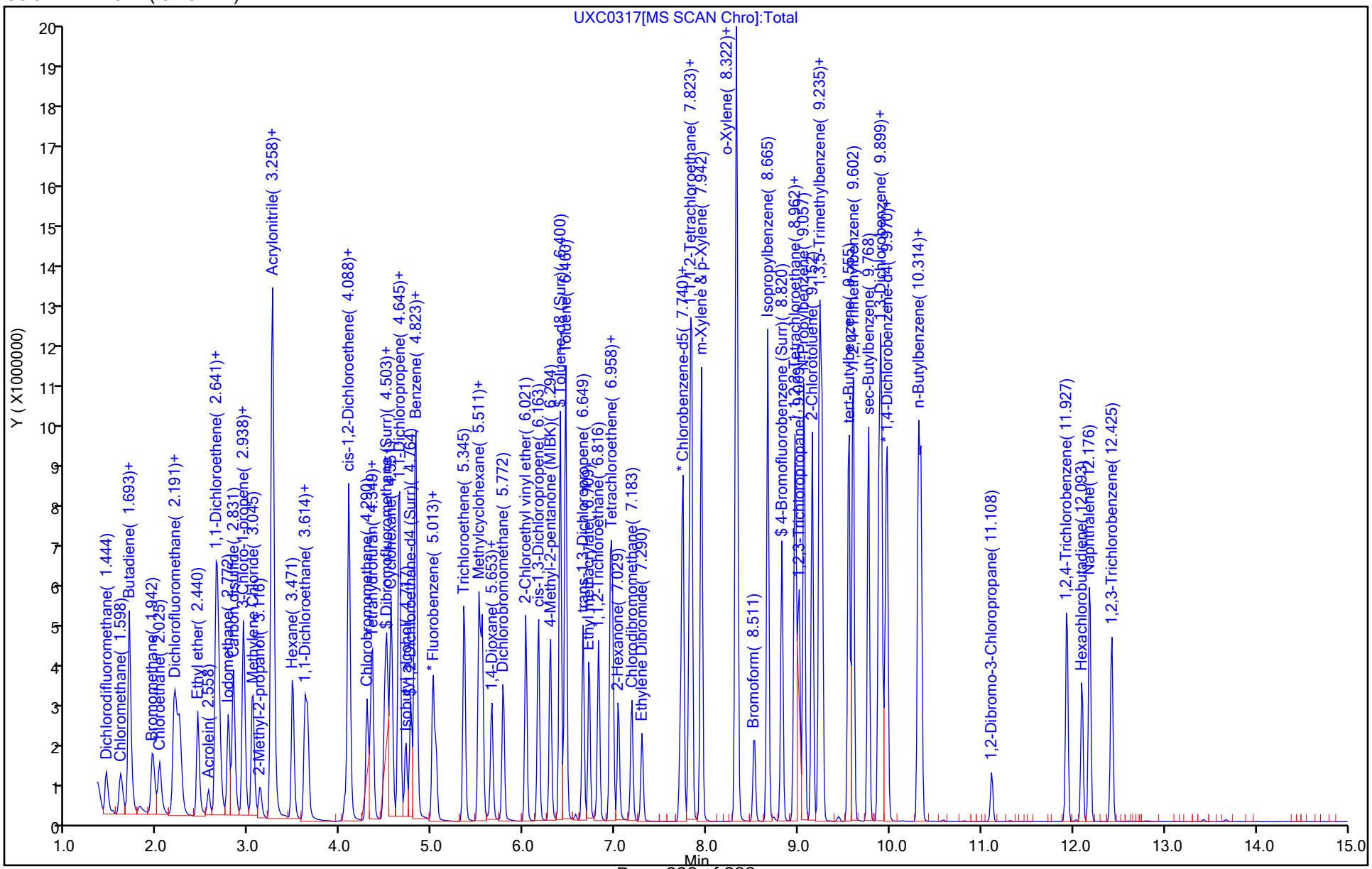
Report Date: 16-Jul-2020 08:53:18 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0317.D

Injection Date:	15-Jul-2020 08:39:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L6			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0318.D
Lims ID: STD8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Jul-2020 09:01:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-003
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:24 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 10:48:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1603998	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	85	1277851	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	93	792102	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	784042	20.0	20.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	100	1050811	20.0	20.0	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	3236806	20.0	20.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	93	1125888	20.0	20.3	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	910832	20.0	20.7	
10 Chloromethane	50	1.598	1.598	0.000	99	1020500	20.0	19.4	
11 Vinyl chloride	62	1.693	1.693	0.000	98	969328	20.0	18.6	
12 Butadiene	54	1.693	1.693	0.000	96	1125561	20.0	19.0	
13 Bromomethane	94	1.954	1.942	0.012	92	809286	20.0	18.5	
14 Chloroethane	64	2.037	2.025	0.012	99	768189	20.0	18.8	
15 Dichlorofluoromethane	67	2.191	2.179	0.012	98	1842997	20.0	18.7	
16 Trichlorofluoromethane	101	2.238	2.226	0.012	97	1732110	20.0	20.1	
17 Ethyl ether	59	2.440	2.440	0.000	91	843666	20.0	19.2	
18 Acrolein	56	2.558	2.558	0.000	99	328684	100.0	94.9	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	927763	20.0	19.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	93	790521	20.0	21.7	
21 Acetone	58	2.677	2.677	0.000	99	159205	40.0	36.5	
22 Iodomethane	142	2.772	2.772	0.000	99	1655710	20.0	19.4	
24 Carbon disulfide	76	2.831	2.831	0.000	99	2526956	20.0	18.9	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	537735	20.0	20.6	
27 Methyl acetate	43	2.950	2.950	0.000	98	1096508	40.0	37.8	
28 Methylene Chloride	84	3.045	3.044	0.001	94	797960	20.0	18.9	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	94	415736	200.0	186.3	
30 Acrylonitrile	53	3.246	3.246	0.000	98	2708075	200.0	194.9	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	97	2299095	20.0	20.6	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	98	876259	20.0	19.9	
34 Hexane	86	3.483	3.471	0.012	95	171385	20.0	22.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	1469776	20.0	20.0	
36 Vinyl acetate	43	3.637	3.637	0.000	97	1525128	20.0	21.3	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	81	239182	20.0	20.9	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	906703	20.0	19.8	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	177553	40.0	38.9	
46 Chlorobromomethane	128	4.290	4.290	0.000	93	458710	20.0	20.4	
47 Tetrahydrofuran	42	4.325	4.325	0.000	90	408382	40.0	37.9	
48 Chloroform	83	4.349	4.349	0.000	94	1481660	20.0	20.1	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	1281850	20.0	21.1	
50 Cyclohexane	56	4.551	4.551	0.001	92	1303121	20.0	22.4	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	92	1211288	20.0	20.4	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	1142727	20.0	22.6	
53 Isobutyl alcohol	41	4.717	4.717	0.000	94	458728	500.0	516.9	
55 Benzene	78	4.811	4.811	0.000	96	3525730	20.0	20.2	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	1273613	20.0	19.9	
58 n-Heptane	100	5.013	5.013	0.000	93	151114	20.0	21.5	
60 Trichloroethene	130	5.345	5.345	0.000	96	948583	20.0	20.2	
62 Methylcyclohexane	83	5.511	5.511	0.000	90	1073489	20.0	22.5	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	806567	20.0	20.0	
66 1,4-Dioxane	88	5.653	5.653	0.000	69	110130	400.0	454.4	
65 Dibromomethane	93	5.653	5.653	0.000	93	488923	20.0	20.0	
67 Dichlorobromomethane	83	5.772	5.772	0.000	99	1023368	20.0	21.5	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	964696	40.0	40.9	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	93	1271077	20.0	21.9	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	1406428	40.0	41.0	
72 Toluene	91	6.460	6.460	0.000	97	3805298	20.0	20.6	
73 trans-1,3-Dichloropropene	75	6.650	6.649	0.001	96	1138601	20.0	21.9	
74 Ethyl methacrylate	69	6.709	6.709	0.000	91	914233	20.0	21.4	
75 1,1,2-Trichloroethane	97	6.816	6.815	0.001	92	670018	20.0	20.4	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	701447	20.0	20.7	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	93	1221266	20.0	19.9	
78 2-Hexanone	43	7.029	7.029	0.000	98	931783	40.0	40.7	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	742304	20.0	19.6	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	694096	20.0	20.5	
84 Chlorobenzene	112	7.740	7.740	0.000	95	2354800	20.0	20.0	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	93	840651	20.0	22.1	
86 Ethylbenzene	106	7.835	7.835	0.000	98	1268751	20.0	21.0	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	3100061	20.0	20.7	
88 o-Xylene	106	8.322	8.322	0.000	95	1560095	20.0	20.8	
89 Styrene	104	8.333	8.333	0.000	95	2683796	20.0	21.5	
90 Bromoform	173	8.511	8.523	-0.012	97	463306	20.0	20.3	
91 Isopropylbenzene	105	8.665	8.665	0.000	95	3863945	20.0	21.5	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	896523	20.0	19.4	
95 Bromobenzene	156	8.974	8.974	0.000	95	1036459	20.0	19.7	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	88	306952	20.0	19.2	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	78	264986	20.0	18.8	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	1040511	20.0	20.5	
99 2-Chlorotoluene	126	9.152	9.152	0.000	98	967720	20.0	20.0	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	95	3227728	20.0	20.7	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	3280770	20.0	20.0	
104 tert-Butylbenzene	119	9.555	9.555	0.000	91	2696132	20.0	21.1	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	96	3399446	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	93	3532401	20.0	21.4	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	97	1940677	20.0	20.0	
109 4-Isopropyltoluene	119	9.899	9.899	0.000	97	3276940	20.0	21.5	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	2085253	20.0	19.9	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	2525730	20.0	21.1	
114 1,2-Dichlorobenzene	146	10.338	10.337	0.001	98	1993178	20.0	20.0	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	82	163781	20.0	20.9	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.001	94	1001445	20.0	18.7	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	98	406459	20.0	20.0	
119 Naphthalene	128	12.176	12.176	0.000	97	2647849	20.0	19.2	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	883703	20.0	18.2	
S 127 1,2-Dichloroethene, Total	96				0			39.6	
S 128 1,3-Dichloropropene, Total	75				0			43.8	
S 129 Xylenes, Total	106				0		40.0	41.5	
S 130 Total BTEX	1				0		100.0	103.3	
S 131 Trihalomethanes, Total	1				0		80.0	81.5	

Reagents:

vm50ss_stk_00085	Amount Added:	16.00	Units: uL
VM50is_00084	Amount Added:	1.00	Units: uL
VMRPRIMW_00393	Amount Added:	16.00	Units: uL
VMAROLISTDW_00352	Amount Added:	16.00	Units: uL
VMRGAS_00346	Amount Added:	16.00	Units: uL

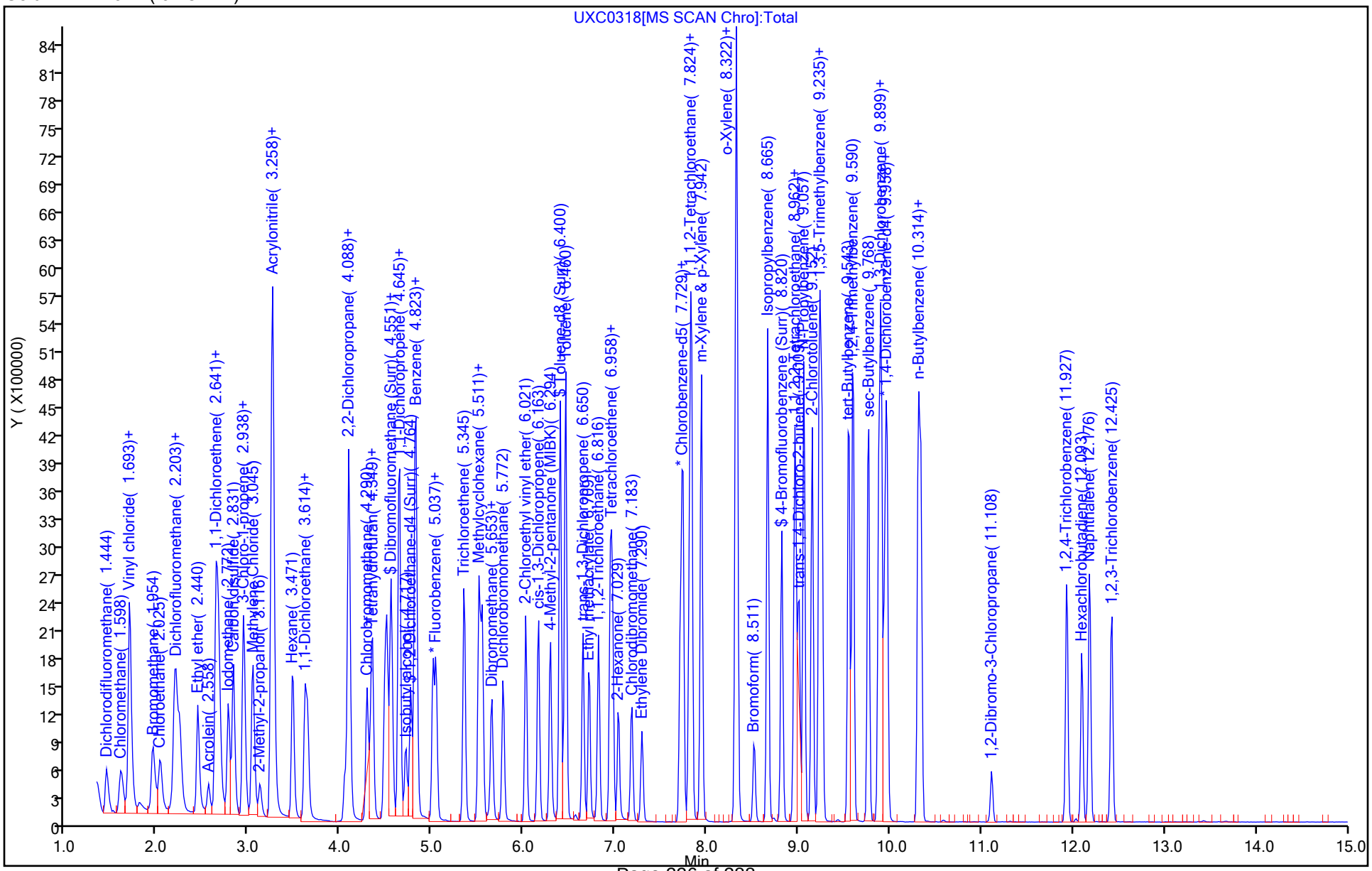
Report Date: 16-Jul-2020 08:53:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0318.D

Injection Date:	15-Jul-2020 09:01:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L5			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0319.D
Lims ID: STD8260 L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 15-Jul-2020 09:23:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-004
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:30 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 12:33:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	1524094	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	86	1190685	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	92	707908	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	363181	10.0	10.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	493412	10.0	9.87	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	93	1473627	10.0	9.97	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	92	509359	10.0	9.83	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	420321	10.0	10.1	
10 Chloromethane	50	1.598	1.598	0.000	100	498961	10.0	10.0	
11 Vinyl chloride	62	1.693	1.693	0.000	71	498870	10.0	10.1	
12 Butadiene	54	1.693	1.693	0.000	95	548736	10.0	9.73	
13 Bromomethane	94	1.942	1.942	0.000	92	419693	10.0	10.1	
14 Chloroethane	64	2.025	2.025	0.000	99	374298	10.0	9.66	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	926362	10.0	9.88	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	98	828979	10.0	10.1	
17 Ethyl ether	59	2.440	2.440	0.000	91	407577	10.0	9.75	
18 Acrolein	56	2.558	2.558	0.000	99	157855	50.0	47.9	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	98	435096	10.0	9.49	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.653	2.653	0.000	92	340418	10.0	9.84	
21 Acetone	58	2.677	2.677	0.000	98	89786	20.0	20.6	
22 Iodomethane	142	2.772	2.772	0.000	99	808393	10.0	9.95	
24 Carbon disulfide	76	2.831	2.831	0.000	100	1088081	10.0	8.57	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	242200	10.0	9.77	
27 Methyl acetate	43	2.950	2.950	0.000	98	524601	20.0	19.1	
28 Methylene Chloride	84	3.044	3.044	0.000	94	379310	10.0	9.44	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	93	202920	100.0	95.7	
30 Acrylonitrile	53	3.246	3.246	0.000	98	1294049	100.0	98.0	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	1041316	10.0	9.80	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	397300	10.0	9.48	
34 Hexane	86	3.471	3.471	0.000	95	69816	10.0	9.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	686945	10.0	9.85	
36 Vinyl acetate	43	3.637	3.637	0.000	98	693661	10.0	10.2	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	79	105382	10.0	9.71	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	426408	10.0	9.78	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	98	88690	20.0	20.4	
46 Chlorobromomethane	128	4.290	4.290	0.000	96	213819	10.0	10.0	
47 Tetrahydrofuran	42	4.325	4.325	0.000	90	198485	20.0	19.4	
48 Chloroform	83	4.349	4.349	0.000	94	682453	10.0	9.75	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	583710	10.0	10.1	
50 Cyclohexane	56	4.551	4.551	0.000	92	541046	10.0	9.79	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	93	555754	10.0	9.86	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	483914	10.0	10.1	
53 Isobutyl alcohol	41	4.717	4.717	0.000	93	204875	250.0	243.0	
55 Benzene	78	4.811	4.811	0.000	96	1636345	10.0	9.87	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	603257	10.0	9.91	
58 n-Heptane	100	5.013	5.013	0.000	92	66188	10.0	9.93	
60 Trichloroethene	130	5.345	5.345	0.000	95	441013	10.0	9.88	
62 Methylcyclohexane	83	5.511	5.511	0.000	90	447552	10.0	9.85	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	375491	10.0	9.82	
65 Dibromomethane	93	5.653	5.653	0.000	93	231553	10.0	9.95	
66 1,4-Dioxane	88	5.653	5.653	0.000	91	51451	200.0	223.4	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	464128	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	448387	20.0	20.0	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	93	566577	10.0	10.3	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	645946	20.0	19.8	
72 Toluene	91	6.460	6.460	0.000	98	1701273	10.0	9.89	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	97	499297	10.0	10.3	
74 Ethyl methacrylate	69	6.709	6.709	0.000	91	407611	10.0	10.2	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	94	305142	10.0	9.97	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	315672	10.0	10.0	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	567728	10.0	9.95	
78 2-Hexanone	43	7.029	7.029	0.000	97	423001	20.0	19.8	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	312867	10.0	9.16	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	317052	10.0	10.0	
84 Chlorobenzene	112	7.740	7.740	0.000	95	1072501	10.0	9.77	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	93	365103	10.0	10.3	
86 Ethylbenzene	106	7.835	7.835	0.000	98	574718	10.0	10.2	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1383073	10.0	9.92	
88 o-Xylene	106	8.322	8.322	0.000	95	708344	10.0	10.1	
89 Styrene	104	8.333	8.333	0.000	94	1168595	10.0	10.0	
90 Bromoform	173	8.523	8.523	0.000	97	180094	10.0	9.62	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	1654978	10.0	9.91	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	404712	10.0	9.81	
95 Bromobenzene	156	8.974	8.974	0.000	95	456551	10.0	9.71	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	91	139233	10.0	9.76	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	80	124484	10.0	9.90	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	455266	10.0	10.0	
99 2-Chlorotoluene	126	9.152	9.152	0.000	97	425445	10.0	9.84	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	95	1394679	10.0	10.0	
102 4-Chlorotoluene	91	9.258	9.258	0.000	98	1439288	10.0	9.80	
104 tert-Butylbenzene	119	9.555	9.555	0.000	91	1129693	10.0	9.89	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	96	1432476	10.0	9.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	1481248	10.0	10.0	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	859183	10.0	9.90	
109 4-Isopropyltoluene	119	9.899	9.899	0.000	97	1367355	10.0	10.0	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	907360	10.0	9.68	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	1070147	10.0	10.0	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	98	875286	10.0	9.81	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	80	69215	10.0	9.90	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.000	94	465035	10.0	9.71	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	97	194068	10.0	9.78	
119 Naphthalene	128	12.176	12.176	0.000	97	1198535	10.0	9.75	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	419491	10.0	9.66	
S 129 Xylenes, Total	106				0		20.0	20.0	
S 130 Total BTEX	1				0		50.0	50.0	
S 131 Trihalomethanes, Total	1				0		40.0	38.8	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	8.00	Units: uL
VMAROLISTDW_00352	Amount Added:	8.00	Units: uL
VMRPRIMW_00393	Amount Added:	8.00	Units: uL
VMRGAS_00346	Amount Added:	8.00	Units: uL

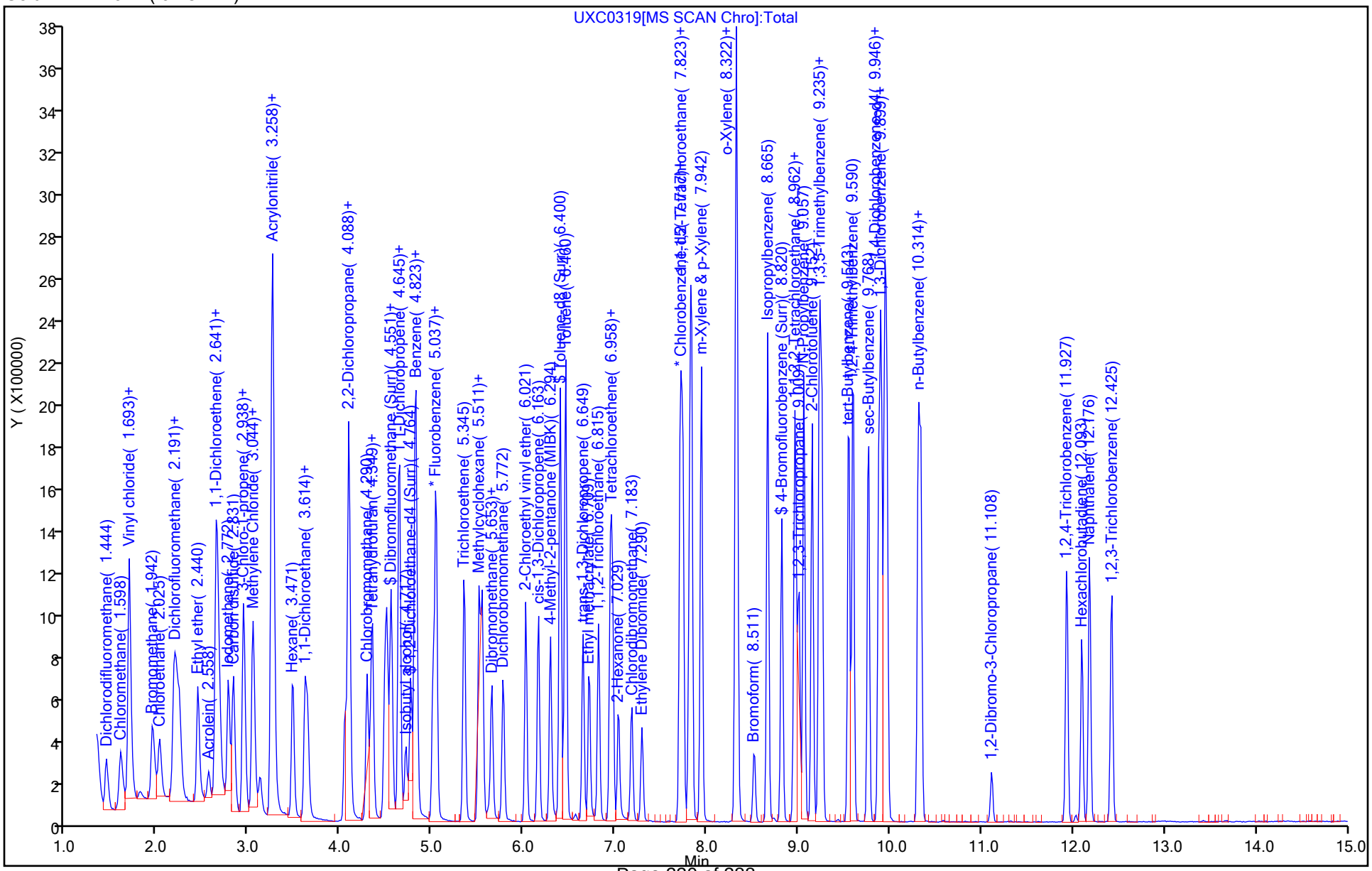
Report Date: 16-Jul-2020 08:53:31 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0319.D

Injection Date:	15-Jul-2020 09:23:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0320.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jul-2020 09:45:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-005
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:36 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 10:13:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.049	-0.001	99	1429166	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1113156	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	94	623775	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	170613	5.00	5.02	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	230236	5.00	4.91	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	675431	5.00	4.89	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	90	236690	5.00	4.89	
9 Dichlorodifluoromethane	85	1.443	1.444	-0.001	99	206320	5.00	5.26	
10 Chloromethane	50	1.609	1.598	0.011	99	236744	5.00	5.06	
11 Vinyl chloride	62	1.693	1.693	-0.001	70	239901	5.00	5.17	
12 Butadiene	54	1.693	1.693	-0.001	96	273735	5.00	5.17	
13 Bromomethane	94	1.953	1.942	0.011	92	204045	5.00	5.23	
14 Chloroethane	64	2.036	2.025	0.011	99	183045	5.00	5.04	
15 Dichlorofluoromethane	67	2.191	2.179	0.012	98	439198	5.00	5.00	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	98	397940	5.00	5.19	
17 Ethyl ether	59	2.440	2.440	0.000	91	199629	5.00	5.09	
18 Acrolein	56	2.558	2.558	0.000	98	72866	25.0	23.6	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	96	211238	5.00	4.91	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	92	168029	5.00	5.18	
21 Acetone	58	2.689	2.677	0.012	98	46640	10.0	10.2	
22 Iodomethane	142	2.772	2.772	0.000	99	395408	5.00	5.19	
24 Carbon disulfide	76	2.831	2.831	0.000	99	652584	5.00	5.48	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	117840	5.00	5.07	
27 Methyl acetate	43	2.950	2.950	0.000	98	266120	10.0	10.3	
28 Methylene Chloride	84	3.044	3.044	0.000	96	191087	5.00	5.07	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	93	99077	50.0	49.8	
30 Acrylonitrile	53	3.246	3.246	0.000	98	623580	50.0	50.4	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	97	492127	5.00	4.94	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	195605	5.00	4.98	
34 Hexane	86	3.483	3.471	0.012	95	34077	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	332536	5.00	5.09	
36 Vinyl acetate	43	3.637	3.637	0.000	97	314892	5.00	4.94	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	76	50257	5.00	4.94	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	208849	5.00	5.11	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	39373	10.0	9.67	
46 Chlorobromomethane	128	4.290	4.290	0.000	94	102285	5.00	5.10	
47 Tetrahydrofuran	42	4.325	4.325	0.000	86	92539	10.0	9.63	
48 Chloroform	83	4.349	4.349	0.000	94	332073	5.00	5.06	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	270788	5.00	5.01	
50 Cyclohexane	56	4.550	4.551	0.000	92	271386	5.00	5.23	
51 1,1-Dichloropropene	75	4.645	4.634	0.011	91	261355	5.00	4.95	
52 Carbon tetrachloride	117	4.645	4.645	0.000	97	224073	5.00	4.97	
53 Isobutyl alcohol	41	4.716	4.717	-0.001	93	93740	125.0	118.6	
55 Benzene	78	4.811	4.811	0.000	96	776586	5.00	5.00	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	287270	5.00	5.03	
58 n-Heptane	100	5.013	5.013	0.000	90	29317	5.00	4.69	
60 Trichloroethene	130	5.345	5.345	0.000	96	211929	5.00	5.06	
62 Methylcyclohexane	83	5.511	5.511	0.000	90	219943	5.00	5.16	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	183674	5.00	5.12	
66 1,4-Dioxane	88	5.653	5.653	0.000	35	19794	100.0	91.7	
65 Dibromomethane	93	5.653	5.653	0.000	92	109320	5.00	5.01	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	210823	5.00	4.96	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	203930	10.0	9.70	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	92	253640	5.00	4.90	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	315229	10.0	10.3	
72 Toluene	91	6.460	6.460	0.000	98	771811	5.00	4.80	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	97	216435	5.00	4.79	
74 Ethyl methacrylate	69	6.721	6.709	0.011	89	188458	5.00	5.05	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	145334	5.00	5.08	
76 Tetrachloroethene	164	6.946	6.946	0.000	97	144585	5.00	4.90	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	266250	5.00	4.99	
78 2-Hexanone	43	7.041	7.029	0.012	98	209165	10.0	10.5	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	132374	5.00	4.42	
82 Ethylene Dibromide	107	7.290	7.290	0.000	99	144183	5.00	4.88	
84 Chlorobenzene	112	7.740	7.740	0.000	98	509365	5.00	4.97	
85 1,1,1,2-Tetrachloroethane	131	7.811	7.812	-0.001	92	163834	5.00	4.95	
86 Ethylbenzene	106	7.835	7.835	0.000	99	267197	5.00	5.07	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	94	643982	5.00	4.94	
88 o-Xylene	106	8.321	8.322	-0.001	98	323892	5.00	4.95	
89 Styrene	104	8.333	8.333	0.000	94	533146	5.00	4.89	
90 Bromoform	173	8.523	8.523	0.000	96	72471	5.00	4.69	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	763709	5.00	4.89	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	188206	5.00	5.18	
95 Bromobenzene	156	8.974	8.974	0.000	95	217890	5.00	5.26	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	88	63789	5.00	5.07	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	78	58401	5.00	5.27	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	209809	5.00	5.25	
99 2-Chlorotoluene	126	9.152	9.152	0.000	98	193864	5.00	5.09	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	-0.001	94	631906	5.00	5.16	
102 4-Chlorotoluene	91	9.258	9.258	0.000	97	655852	5.00	5.07	
104 tert-Butylbenzene	119	9.555	9.555	0.000	92	520554	5.00	5.17	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	96	651871	5.00	5.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	660396	5.00	5.07	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	397961	5.00	5.21	
109 4-Isopropyltoluene	119	9.910	9.899	0.011	97	610160	5.00	5.09	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	95	415388	5.00	5.03	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	491419	5.00	5.21	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	98	404904	5.00	5.15	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	80	31150	5.00	5.05	
117 1,2,4-Trichlorobenzene	180	11.926	11.927	0.000	94	228163	5.00	5.41	
118 Hexachlorobutadiene	225	12.104	12.093	0.011	98	100212	5.00	5.36	
119 Naphthalene	128	12.175	12.176	-0.001	97	582460	5.00	5.38	
120 1,2,3-Trichlorobenzene	180	12.424	12.425	-0.001	94	201752	5.00	5.27	
S 127 1,2-Dichloroethene, Total	96				0			10.1	
S 128 1,3-Dichloropropene, Total	75				0			9.68	
S 129 Xylenes, Total	106				0		10.0	9.89	
S 130 Total BTEX	1				0		25.0	24.8	
S 131 Trihalomethanes, Total	1				0		20.0	19.1	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	4.00	Units: uL
VMRPRIMW_00393	Amount Added:	4.00	Units: uL
VMRGAS_00346	Amount Added:	4.00	Units: uL
VMAROLISTDW_00352	Amount Added:	4.00	Units: uL

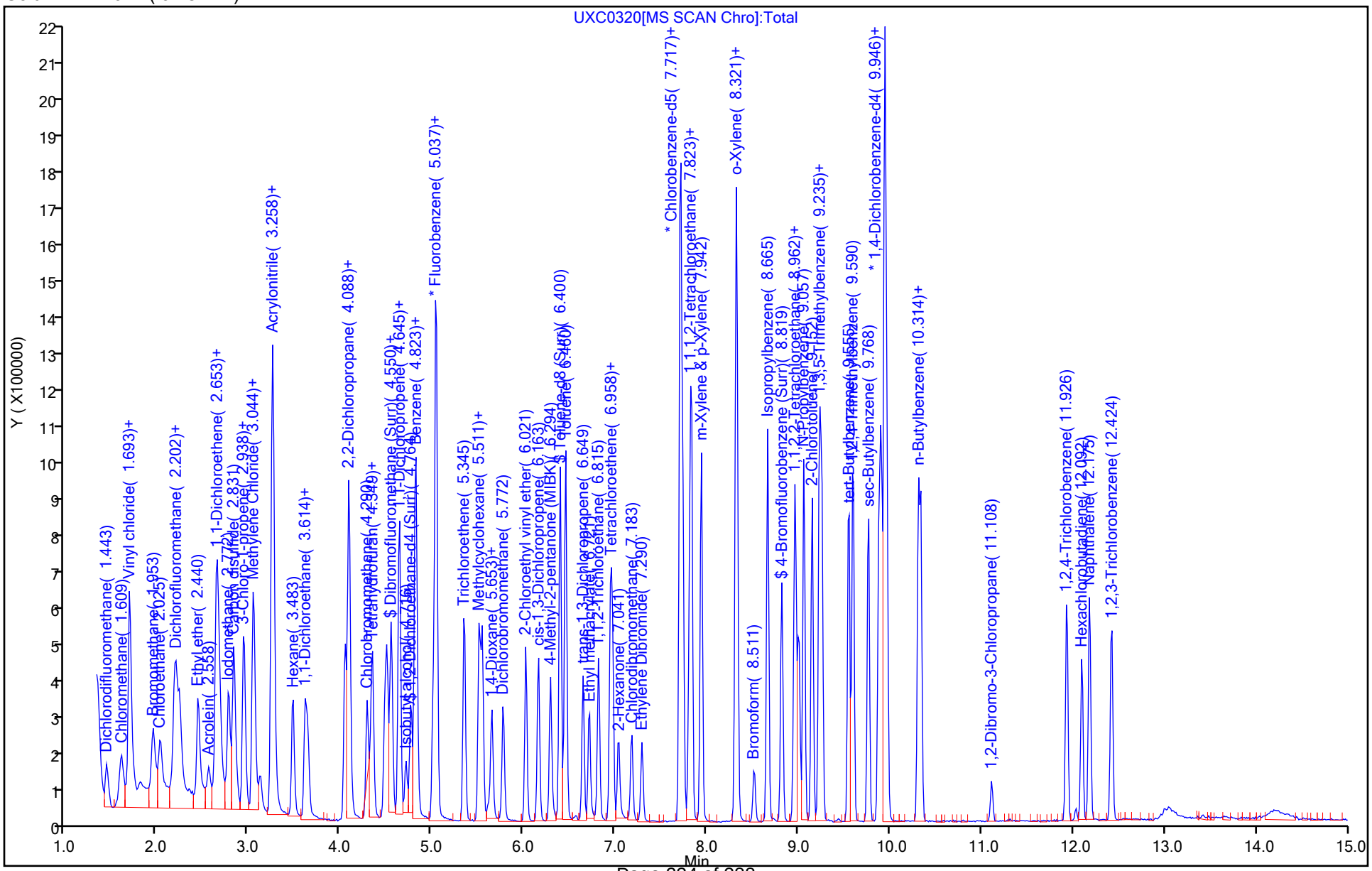
Report Date: 16-Jul-2020 08:53:37 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0320.D

Injection Date:	15-Jul-2020 09:45:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0321.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jul-2020 10:07:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-006
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:42 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 10:36:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	1393636	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1091913	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	596835	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	63126	2.00	1.90	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	100	90176	2.00	1.97	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	261682	2.00	1.93	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	92	90558	2.00	1.91	
9 Dichlorodifluoromethane	85	1.455	1.444	0.011	98	76081	2.00	1.99	
10 Chloromethane	50	1.598	1.598	0.000	99	96875	2.00	2.12	
11 Vinyl chloride	62	1.693	1.693	0.000	64	90075	2.00	1.99	
12 Butadiene	54	1.704	1.693	0.011	97	112763	2.00	2.19	
13 Bromomethane	94	1.954	1.942	0.012	93	75507	2.00	1.98	
14 Chloroethane	64	2.037	2.025	0.012	99	71037	2.00	2.00	
15 Dichlorofluoromethane	67	2.191	2.179	0.012	98	180232	2.00	2.10	
16 Trichlorofluoromethane	101	2.238	2.226	0.012	97	143732	2.00	1.92	
17 Ethyl ether	59	2.440	2.440	0.000	90	78571	2.00	2.06	
18 Acrolein	56	2.558	2.558	0.000	95	34074	10.0	11.3	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	85934	2.00	2.05	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	89	59756	2.00	1.89	
21 Acetone	58	2.689	2.677	0.012	99	23762	4.00	4.01	
22 Iodomethane	142	2.772	2.772	0.000	99	140427	2.00	1.89	
24 Carbon disulfide	76	2.831	2.831	0.000	100	195650	2.00	1.69	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	85	41665	2.00	1.84	
27 Methyl acetate	43	2.950	2.950	0.000	97	100348	4.00	3.99	
28 Methylene Chloride	84	3.044	3.044	0.000	95	73996	2.00	2.01	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	93	40795	20.0	21.0	
30 Acrylonitrile	53	3.246	3.246	0.000	99	231851	20.0	19.2	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	177783	2.00	1.83	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	74138	2.00	1.93	
34 Hexane	86	3.483	3.471	0.012	95	12170	2.00	1.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	97	122593	2.00	1.92	
36 Vinyl acetate	43	3.649	3.637	0.012	97	113415	2.00	1.82	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	72	19328	2.00	1.95	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	79625	2.00	2.00	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	68	15859	4.00	3.99	
46 Chlorobromomethane	128	4.290	4.290	0.000	94	37537	2.00	1.92	
47 Tetrahydrofuran	42	4.325	4.325	0.000	89	41450	4.00	4.43	
48 Chloroform	83	4.349	4.349	0.000	95	124249	2.00	1.94	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	97	100048	2.00	1.90	
50 Cyclohexane	56	4.551	4.551	0.001	92	93923	2.00	1.86	
51 1,1-Dichloropropene	75	4.645	4.634	0.011	92	100865	2.00	1.96	
52 Carbon tetrachloride	117	4.645	4.645	0.000	80	73200	2.00	1.66	
53 Isobutyl alcohol	41	4.717	4.717	0.000	92	38570	50.0	50.0	
55 Benzene	78	4.811	4.811	0.000	97	288276	2.00	1.90	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	96	111084	2.00	2.00	
58 n-Heptane	100	5.013	5.013	0.000	89	11418	2.00	1.87	
60 Trichloroethene	130	5.345	5.345	0.000	96	79981	2.00	1.96	
62 Methylcyclohexane	83	5.511	5.511	0.000	89	77979	2.00	1.88	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	93	67224	2.00	1.92	
65 Dibromomethane	93	5.653	5.653	0.000	94	41212	2.00	1.94	
66 1,4-Dioxane	88	5.665	5.653	0.012	36	7651	40.0	36.3	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	72482	2.00	1.75	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	79527	4.00	3.88	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	92	89417	2.00	1.77	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	110825	4.00	3.72	
72 Toluene	91	6.460	6.460	0.000	98	292646	2.00	1.86	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	97	77362	2.00	1.74	
74 Ethyl methacrylate	69	6.721	6.709	0.012	89	60701	2.00	1.66	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	95	52547	2.00	1.87	
76 Tetrachloroethene	164	6.946	6.946	0.000	96	57274	2.00	1.98	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	93	103936	2.00	1.99	
78 2-Hexanone	43	7.029	7.029	0.000	98	79861	4.00	4.08	
80 Chlorodibromomethane	129	7.183	7.183	0.000	91	46226	2.00	1.90	
82 Ethylene Dibromide	107	7.290	7.290	0.000	97	54171	2.00	1.87	
84 Chlorobenzene	112	7.740	7.740	0.000	95	195930	2.00	1.95	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	53867	2.00	1.66	
86 Ethylbenzene	106	7.835	7.835	0.000	99	94304	2.00	1.82	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	94	234774	2.00	1.84	
88 o-Xylene	106	8.322	8.322	0.000	97	121163	2.00	1.89	
89 Styrene	104	8.333	8.333	0.000	94	189671	2.00	1.77	
90 Bromoform	173	8.511	8.523	-0.012	94	23218	2.00	2.01	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	277174	2.00	1.81	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	69534	2.00	2.00	
95 Bromobenzene	156	8.974	8.974	0.000	94	79344	2.00	2.00	
96 1,2,3-Trichloropropane	110	8.997	8.997	0.000	89	24539	2.00	2.04	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	81	19888	2.00	1.88	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	73530	2.00	1.92	
99 2-Chlorotoluene	126	9.152	9.152	0.000	97	72054	2.00	1.98	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	221338	2.00	1.89	
102 4-Chlorotoluene	91	9.258	9.258	0.000	98	243339	2.00	1.97	
104 tert-Butylbenzene	119	9.555	9.555	0.000	92	180352	2.00	1.87	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	97	231210	2.00	1.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	232873	2.00	1.87	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	141034	2.00	1.93	
109 4-Isopropyltoluene	119	9.911	9.899	0.012	96	210172	2.00	1.83	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	95	153718	2.00	1.94	
113 n-Butylbenzene	91	10.314	10.314	0.000	96	173642	2.00	1.92	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	97	147829	2.00	1.97	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	76	10997	2.00	1.86	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.000	93	85248	2.00	2.11	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	95	41437	2.00	1.98	
119 Naphthalene	128	12.176	12.176	0.000	97	201391	2.00	1.94	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	96	75490	2.00	2.06	
S 127 1,2-Dichloroethene, Total	96				0			3.93	
S 128 1,3-Dichloropropene, Total	75				0			3.51	
S 129 Xylenes, Total	106				0		4.00	3.72	
S 130 Total BTEX	1				0		10.0	9.30	
S 131 Trihalomethanes, Total	1				0		8.00	7.60	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	1.60	Units: uL
VMRPRIMW_00393	Amount Added:	1.60	Units: uL
VMAROLISTDW_00352	Amount Added:	1.60	Units: uL
VMRGAS_00346	Amount Added:	1.60	Units: uL

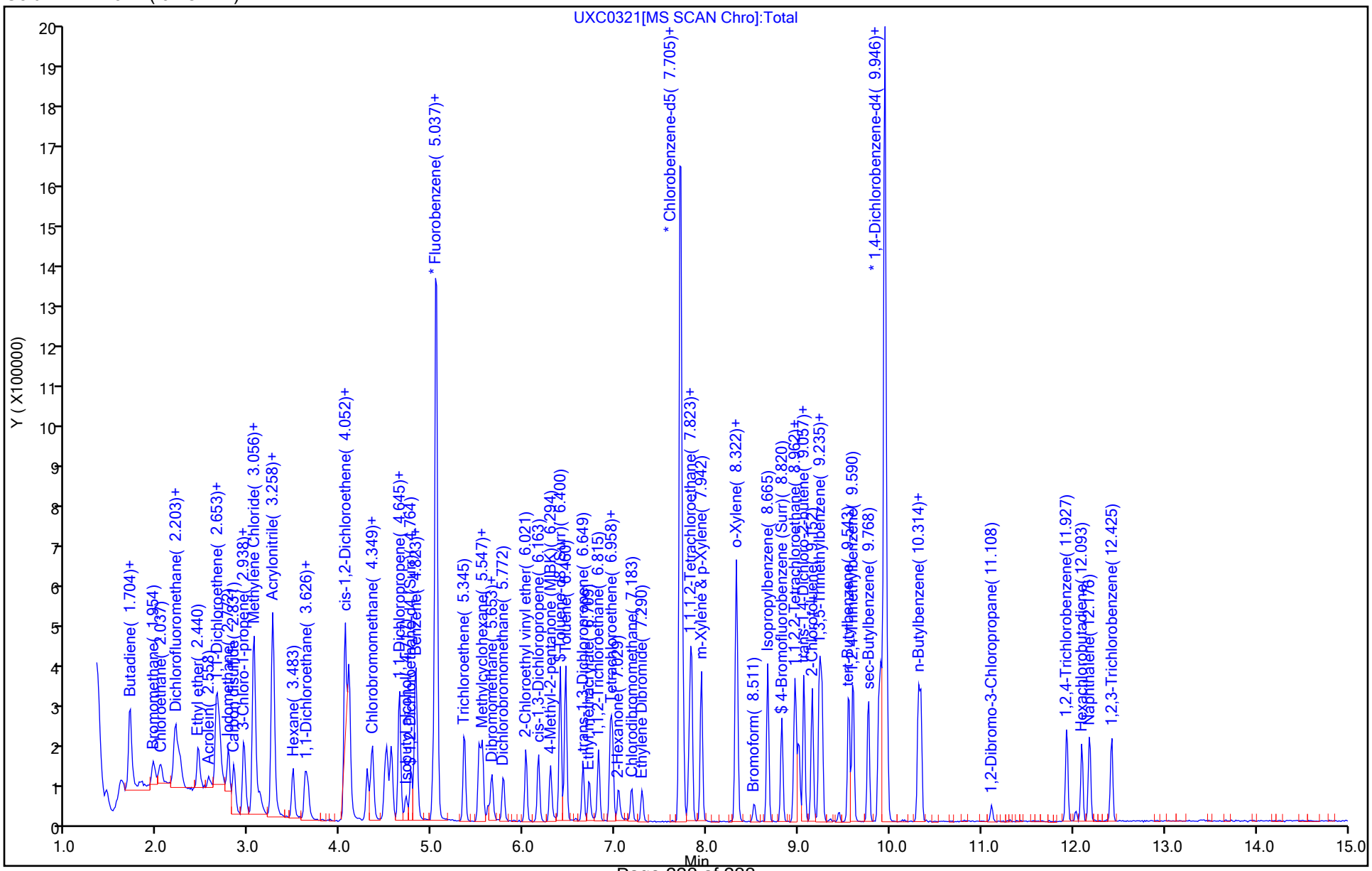
Report Date: 16-Jul-2020 08:53:43 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0321.D

Injection Date:	15-Jul-2020 10:07:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0322.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jul-2020 10:29:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-007
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:47 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.049	-0.012	99	1309137	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1007406	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	566473	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	31373	1.00	1.01	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	46678	1.00	1.09	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	93	124734	1.00	1.00	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	88	46077	1.00	1.05	
9 Dichlorodifluoromethane	85	1.443	1.444	-0.001	99	34208	1.00	0.9529	
10 Chloromethane	50	1.598	1.598	0.000	99	45347	1.00	1.06	
11 Vinyl chloride	62	1.693	1.693	0.000	69	46710	1.00	1.10	
12 Butadiene	54	1.693	1.693	0.000	92	51272	1.00	1.06	
13 Bromomethane	94	1.953	1.942	0.011	94	38839	1.00	1.09	
14 Chloroethane	64	2.025	2.025	0.000	99	37874	1.00	1.14	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	88120	1.00	1.09	
16 Trichlorofluoromethane	101	2.214	2.226	-0.012	97	67509	1.00	0.9618	
17 Ethyl ether	59	2.440	2.440	0.000	91	37048	1.00	1.03	
18 Acrolein	56	2.558	2.558	0.000	97	15308	5.00	5.41	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	98	43645	1.00	1.11	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.653	2.653	0.000	91	24445	1.00	0.8230	
21 Acetone	58	2.689	2.677	0.012	99	15699	2.00	2.01	
22 Iodomethane	142	2.784	2.772	0.012	99	75063	1.00	1.08	
24 Carbon disulfide	76	2.831	2.831	0.000	100	132094	1.00	1.21	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	87	21846	1.00	1.03	
27 Methyl acetate	43	2.950	2.950	0.000	75	50658	2.00	2.14	
28 Methylene Chloride	84	3.044	3.044	0.000	96	40134	1.00	1.16	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	95	19087	10.0	10.5	
30 Acrylonitrile	53	3.246	3.246	0.000	99	116597	10.0	10.3	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	87810	1.00	0.9621	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	39170	1.00	1.09	
34 Hexane	86	3.483	3.471	0.012	94	4920	1.00	0.7944	
35 1,1-Dichloroethane	63	3.614	3.614	0.000	98	61854	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.637	3.637	0.000	98	50734	1.00	0.8685	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	63	9590	1.00	1.03	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	39220	1.00	1.05	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	68	7649	2.00	2.05	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	18509	1.00	1.01	
47 Tetrahydrofuran	42	4.337	4.325	0.012	88	17675	2.00	2.01	
48 Chloroform	83	4.349	4.349	0.000	96	61650	1.00	1.03	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	45674	1.00	0.9218	
50 Cyclohexane	56	4.550	4.551	0.000	91	39244	1.00	0.8263	
51 1,1-Dichloropropene	75	4.633	4.634	-0.001	90	48474	1.00	1.00	
52 Carbon tetrachloride	117	4.645	4.645	0.000	80	36666	1.00	0.8873	
53 Isobutyl alcohol	41	4.716	4.717	-0.001	93	16586	25.0	22.9	
55 Benzene	78	4.811	4.811	0.000	97	143387	1.00	1.01	
56 1,2-Dichloroethane	62	4.823	4.835	-0.012	95	52125	1.00	1.00	
58 n-Heptane	100	5.013	5.013	0.000	91	5347	1.00	0.9338	
60 Trichloroethene	130	5.357	5.345	0.012	96	38650	1.00	1.01	
62 Methylcyclohexane	83	5.511	5.511	0.000	91	30877	1.00	0.7913	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	91	33314	1.00	1.01	
66 1,4-Dioxane	88	5.653	5.653	0.000	35	3361	20.0	17.0	
65 Dibromomethane	93	5.653	5.653	0.000	96	20400	1.00	1.02	
67 Dichlorobromomethane	83	5.772	5.772	0.000	95	35076	1.00	0.9010	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	36108	2.00	1.88	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	91	40309	1.00	0.8493	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	51544	2.00	1.84	
72 Toluene	91	6.460	6.460	0.000	97	144790	1.00	1.00	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	96	34639	1.00	0.8467	
74 Ethyl methacrylate	69	6.709	6.709	0.000	87	30953	1.00	0.9173	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	25857	1.00	1.00	
76 Tetrachloroethene	164	6.946	6.946	0.000	94	25553	1.00	0.9561	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	47939	1.00	0.99	
78 2-Hexanone	43	7.029	7.029	0.000	95	30628	2.00	1.70	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	21933	1.00	1.23	
82 Ethylene Dibromide	107	7.290	7.290	0.000	94	27167	1.00	1.02	
84 Chlorobenzene	112	7.740	7.740	0.000	93	94094	1.00	1.01	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	88	27261	1.00	0.9103	
86 Ethylbenzene	106	7.835	7.835	0.000	99	45235	1.00	0.9475	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	94	113635	1.00	0.9634	
88 o-Xylene	106	8.321	8.322	-0.001	98	56021	1.00	0.9459	
89 Styrene	104	8.333	8.333	0.000	93	89448	1.00	0.9068	
90 Bromoform	173	8.511	8.523	-0.012	92	11865	1.00	1.41	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	127516	1.00	0.9021	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	97	35125	1.00	1.06	
95 Bromobenzene	156	8.974	8.974	0.000	95	37900	1.00	1.01	
96 1,2,3-Trichloropropane	110	9.009	8.997	0.012	88	12485	1.00	1.09	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	66	10877	1.00	1.08	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	34035	1.00	0.9379	
99 2-Chlorotoluene	126	9.152	9.152	0.000	96	35959	1.00	1.04	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	95	103163	1.00	0.9273	
102 4-Chlorotoluene	91	9.258	9.258	0.000	97	118570	1.00	1.01	
104 tert-Butylbenzene	119	9.555	9.555	0.000	92	85852	1.00	0.9395	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	97	109081	1.00	0.9389	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	108724	1.00	0.9191	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	96	69634	1.00	1.00	
109 4-Isopropyltoluene	119	9.910	9.899	0.011	96	99676	1.00	0.9152	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	96	80236	1.00	1.07	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	80981	1.00	0.9451	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	95	71966	1.00	1.01	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	73	5097	1.00	0.9106	
117 1,2,4-Trichlorobenzene	180	11.926	11.927	0.000	95	42079	1.00	1.10	
118 Hexachlorobutadiene	225	12.092	12.093	-0.001	95	21605	1.00	0.8525	
119 Naphthalene	128	12.175	12.176	-0.001	97	106177	1.00	1.08	
120 1,2,3-Trichlorobenzene	180	12.424	12.425	-0.001	95	42250	1.00	1.22	
S 127 1,2-Dichloroethene, Total	96				0			2.13	
S 128 1,3-Dichloropropene, Total	75				0			1.70	
S 129 Xylenes, Total	106				0		2.00	1.91	
S 130 Total BTEX	1				0		5.00	4.86	
S 131 Trihalomethanes, Total	1				0		4.00	4.56	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
vm50ss_stk_00085	Amount Added:	0.80	Units: uL
VMRPRIMW_00393	Amount Added:	0.80	Units: uL
VMAROLISTDW_00352	Amount Added:	0.80	Units: uL
VMRGAS_00346	Amount Added:	0.80	Units: uL

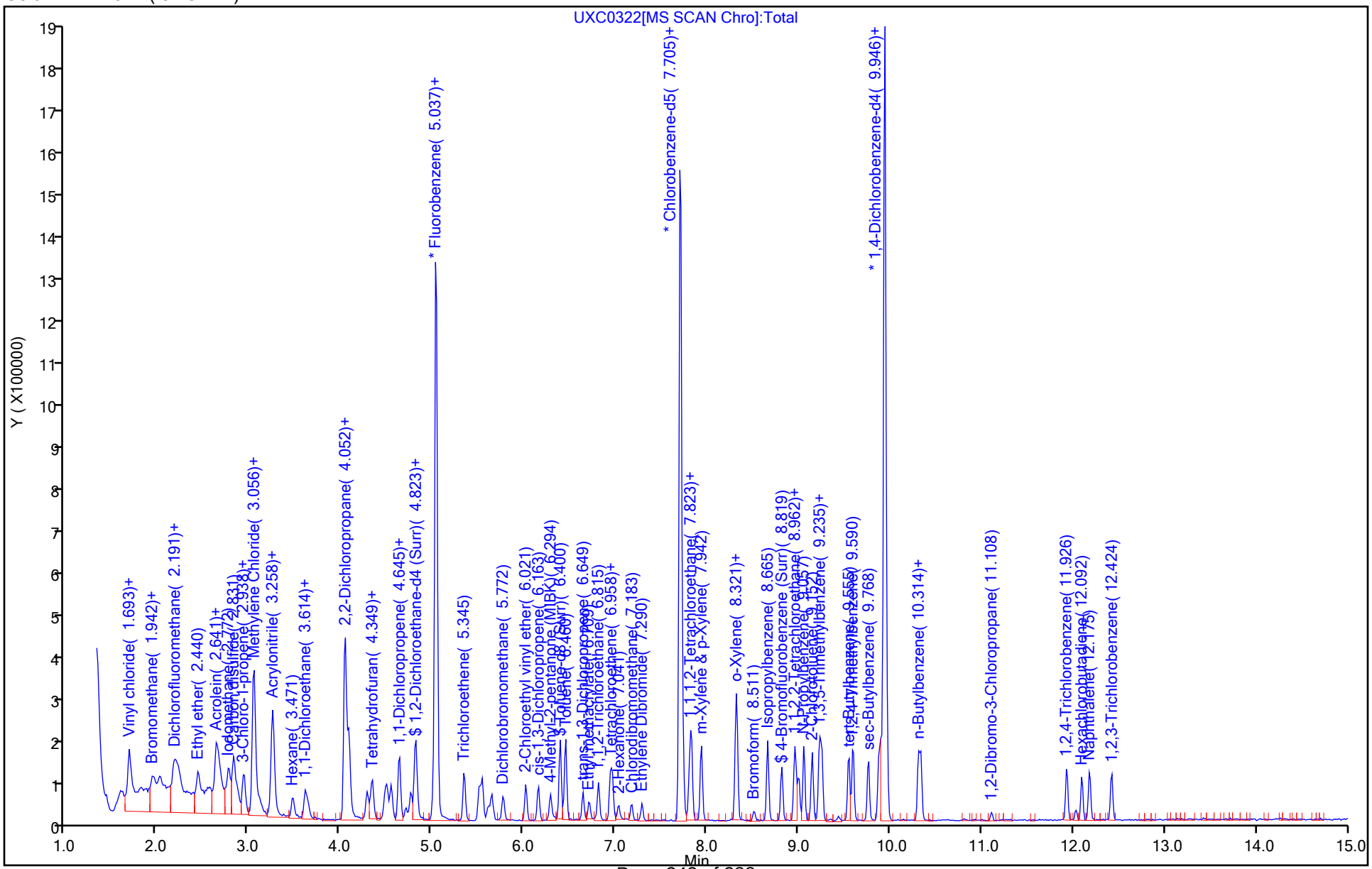
Report Date: 16-Jul-2020 08:53:48 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0322.D

Injection Date:	15-Jul-2020 10:29:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD8260 L1			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-442673/13	UXC0329.D
Level 2	STD 240-442673/12	UXC0328.D
Level 3	STD 240-442673/11	UXC0327.D
Level 4	STD 240-442673/10	UXC0326.D
Level 5	STD 240-442673/9	UXC0325.D
Level 6	STD 240-442673/8	UXC0324.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0285 0.0234	0.0283	0.0277	0.0227	0.0228	Ave		0.0256				11.2		15.0			
Isopropyl ether	0.2345 0.2236	0.2320	0.2425	0.2387	0.2280	Ave		0.2332				3.0		15.0			
2-Chloro-1,3-butadiene	0.4418 0.4212	0.4483	0.4382	0.4304	0.4241	Ave		0.4340				2.4		15.0			
Tert-butyl ethyl ether	0.6723 0.6977	0.6691	0.6853	0.6873	0.6880	Ave		0.6833				1.6		15.0			
Ethyl acetate	0.2133 0.2069	0.2205	0.2258	0.2102	0.2112	Ave		0.2146				3.3		15.0			
Propionitrile	0.0325 0.0321	0.0322	0.0357	0.0329	0.0327	Ave		0.0330				4.0		15.0			
Methacrylonitrile	0.1679 0.1822	0.1611	0.1720	0.1686	0.1734	Ave		0.1709				4.1		15.0			
Isooctane	0.6082 0.5530	0.5910	0.5237	0.5037	0.5537	Ave		0.5556				7.1		15.0			
Tert-amyl methyl ether	0.5386 0.6278	0.5392	0.5690	0.5862	0.6029	Ave		0.5773				6.2		15.0			
n-Butanol	0.0039 0.0041	0.0035	0.0040	0.0038	0.0042	Ave		0.0039				5.5		15.0			
Ethyl acrylate	0.2080 0.2594	0.2366	0.2566	0.2497	0.2619	Ave		0.2454				8.3		15.0			
Methyl methacrylate	0.1963 0.2170	0.2089	0.2163	0.2093	0.2152	Ave		0.2105				3.7		15.0			
2-Nitropropane	0.0485 0.0579	0.0506	0.0461	0.0454	0.0546	Ave		0.0505				9.7		15.0			
n-Butyl acetate	0.2239 0.2992	0.2302	0.2522	0.2588	0.2971	Ave		0.2602				12.4		15.0			
1-Chlorohexane	0.3694 0.3634	0.3634	0.3545	0.3355	0.3635	Ave		0.3583				3.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.0146 0.0164	0.0146	0.0172	0.0161	0.0169	Ave		0.0160				7.2		15.0			
Pentachloroethane	0.0690 0.1877	0.1142	0.1402	0.1236	0.1842	Qua	-0.349	0.1696	0.0002923						0.9960		0.9900
1,2,3-Trimethylbenzene	2.1008 2.4066	2.0522	2.2018	2.1948	2.3184	Ave		2.2124				6.0		15.0			
Benzyl chloride	0.0951 0.2275	0.1011	0.1203	0.1414	0.1872	Qua	-0.120	0.1445	0.0021613						0.9990		0.9900
1,3,5-Trichlorobenzene	0.8634 0.7536	0.8584	0.7992	0.8010	0.7885	Ave		0.8107				5.2		15.0			
2-Methylnaphthalene	0.7936 0.8074	0.8489	0.8386	0.9905	0.9199	Ave		0.8665				8.7		15.0			
1-Methylnaphthalene	0.7767 0.6677	0.7822	0.7466	0.8816	0.7874	Ave		0.7737				8.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-442673/13	UXC0329.D
Level 2	STD 240-442673/12	UXC0328.D
Level 3	STD 240-442673/11	UXC0327.D
Level 4	STD 240-442673/10	UXC0326.D
Level 5	STD 240-442673/9	UXC0325.D
Level 6	STD 240-442673/8	UXC0324.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	34980 1418789	71038	179908	300624	660859	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	28790 1354619	58271	157293	316160	660500	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	54235 2552336	112578	284264	569986	1228385	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	82534 4227740	168024	444525	910257	1992608	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	52374 2506790	110769	292924	556681	1223217	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	39956 1943717	80873	231385	436026	948285	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	206129 11038690	404511	1115973	2233289	5022608	10.0 400	20.0	50.0	100	200
Isooctane	FB	Ave	74663 3350804	148423	339677	667154	1603832	1.00 40.0	2.00	5.00	10.0	20.0
Tert-amyl methyl ether	FB	Ave	66115 3804175	135396	369055	776404	1746372	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Ave	11957 618207	22274	64282	126035	300972	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	25529 1571707	59415	166423	330735	758658	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	48209 2629172	104914	280568	554358	1246384	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	11910 701102	25399	59777	120152	316191	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	FB	Ave	27486 1812884	57818	163560	342728	860606	1.00 40.0	2.00	5.00	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	34870 1667796	71187	178725	344073	800729	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCBd 4	Ave	7614 397635	15795	47740	90751	197991	10.0 400	20.0	50.0	100	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1 Analy Batch No.: 442673

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 11:12 Calibration End Date: 07/15/2020 13:01 Calibration ID: 57827

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Pentachloroethane	CBNZ d5	Qua	13021 1722469	44746	141364	253602	811386	2.00 80.0	4.00	10.0	20.0	40.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	109885 5839235	221718	609385	1237855	2710908	1.00 40.0	2.00	5.00	10.0	20.0
Benzyl chloride	DCBd 4	Qua	4972 552054	10924	33281	79729	218891	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	45163 1828453	92743	221174	451782	921982	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCBd 4	Ave	83019 3918229	183439	464208	1117275	2151231	2.00 80.0	4.00	10.0	20.0	40.0
1-Methylnaphthalene	DCBd 4	Ave	81255 3240234	169028	413275	994454	1841488	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD
Qua = Quadratic ISTD

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0324.D
Lims ID: STD A9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Jul-2020 11:12:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-008
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:54:32 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 16-Jul-2020 08:54:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.037	0.011	99	1514841	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	88	1147365	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	606584	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	100	1418789	400.0	366.2	
37 Isopropyl ether	87	3.649	3.649	0.000	93	1354619	40.0	38.3	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	94	2552336	40.0	38.8	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	96	4227740	40.0	40.8	
43 Ethyl acetate	43	4.135	4.135	0.000	100	2506790	80.0	77.1	
44 Propionitrile	54	4.159	4.159	0.000	99	1943717	400.0	388.5	
45 Methacrylonitrile	41	4.278	4.278	0.000	94	11038690	400.0	426.5	
54 Isooctane	57	4.871	4.859	0.012	98	3350804	40.0	39.8	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	94	3804175	40.0	43.5	
59 n-Butanol	56	5.262	5.274	-0.012	91	618207	1000.0	1044.1	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	1571707	40.0	42.3	
64 Methyl methacrylate	41	5.618	5.618	0.000	90	2629172	80.0	82.5	
68 2-Nitropropane	41	5.973	5.974	-0.001	99	701102	80.0	91.7	
79 n-Butyl acetate	43	7.136	7.136	0.000	98	1812884	40.0	46.0	
83 1-Chlorohexane	91	7.705	7.705	0.000	98	1667796	40.0	40.6	
92 Cyclohexanone	55	8.772	8.772	0.000	94	397635	400.0	410.4	
105 Pentachloroethane	167	9.578	9.579	-0.001	97	1722469	80.0	79.7	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	98	5839235	40.0	43.5	
112 Benzyl chloride	126	10.100	10.100	0.000	98	552054	40.0	39.9	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	1828453	40.0	37.2	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	92	3918229	80.0	74.5	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	3240234	80.0	69.0	

Reagents:

VM50is_00084	Amount Added: 1.00	Units: uL
VMRA9W_00352	Amount Added: 32.00	Units: uL

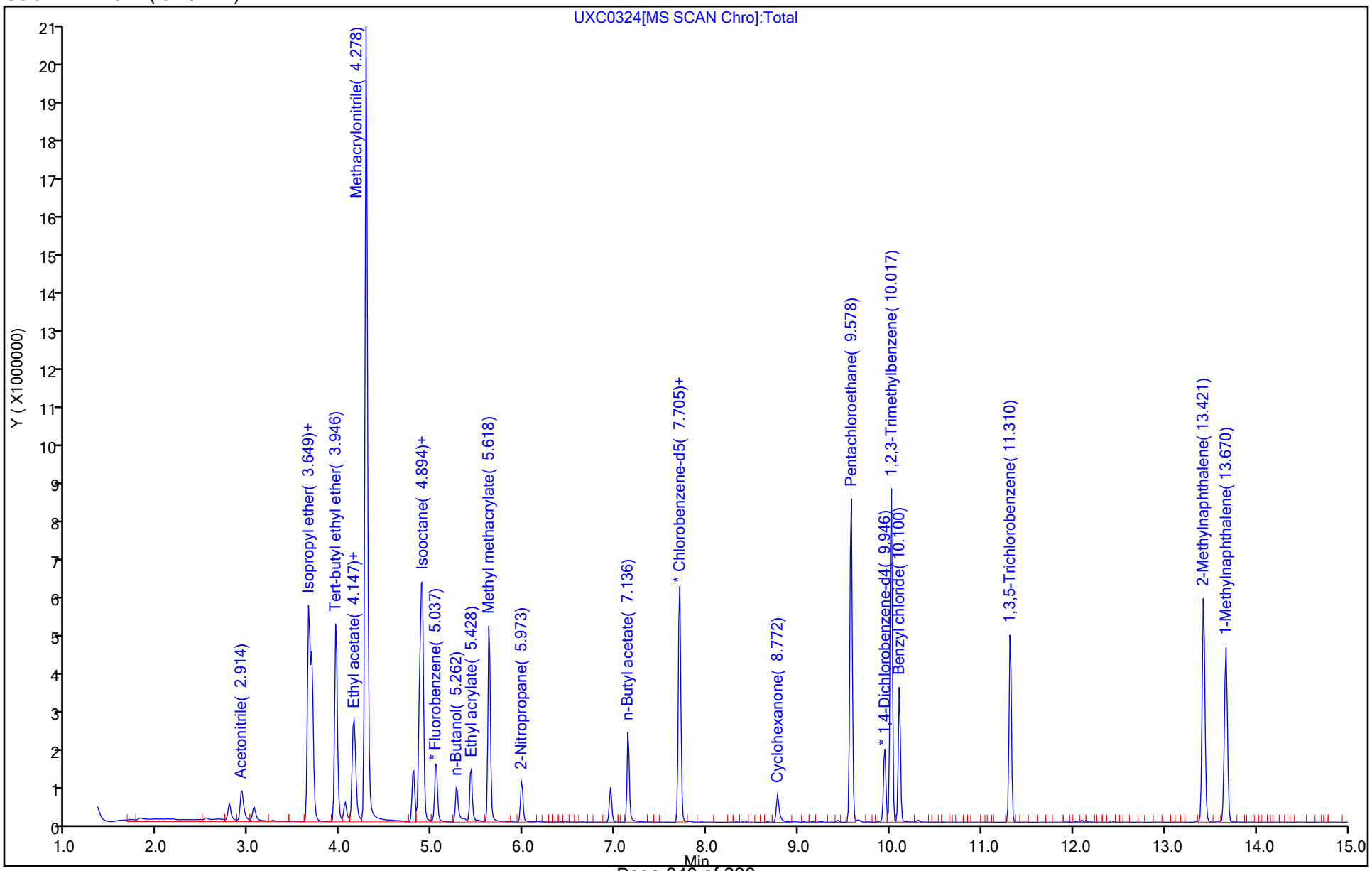
Report Date: 16-Jul-2020 08:54:33 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0324.D

Injection Date:	15-Jul-2020 11:12:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L6			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0325.D
Lims ID: STD A9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Jul-2020 11:34:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-009
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:51 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.049	-0.012	99	1448221	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.717	-0.012	87	1101313	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	584646	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	99	660859	200.0	178.4	
37 Isopropyl ether	87	3.649	3.649	0.000	92	660500	20.0	19.6	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	1228385	20.0	19.5	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	96	1992608	20.0	20.1	
43 Ethyl acetate	43	4.136	4.135	0.001	100	1223217	40.0	39.4	
44 Propionitrile	54	4.159	4.159	0.000	98	948285	200.0	198.3	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	5022608	200.0	203.0	
54 Isooctane	57	4.859	4.859	0.000	93	1603832	20.0	19.9	
57 Tert-amyl methyl ether	73	4.895	4.894	0.001	92	1746372	20.0	20.9	
59 n-Butanol	56	5.262	5.274	-0.012	90	300972	500.0	531.7	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	758658	20.0	21.4	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	1246384	40.0	40.9	
68 2-Nitropropane	41	5.974	5.974	0.000	100	316191	40.0	43.2	
79 n-Butyl acetate	43	7.136	7.136	0.000	97	860606	20.0	22.8	
83 1-Chlorohexane	91	7.705	7.705	0.000	97	800729	20.0	20.3	
92 Cyclohexanone	55	8.772	8.772	0.000	95	197991	200.0	212.0	
105 Pentachloroethane	167	9.579	9.579	0.000	95	811386	40.0	42.4	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	2710908	20.0	21.0	
112 Benzyl chloride	126	10.100	10.100	0.000	98	218891	20.0	20.5	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	921982	20.0	19.5	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	92	2151231	40.0	42.5	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	1841488	40.0	40.7	

Reagents:

VM50is_00084	Amount Added: 1.00	Units: uL
VMRA9W_00352	Amount Added: 16.00	Units: uL

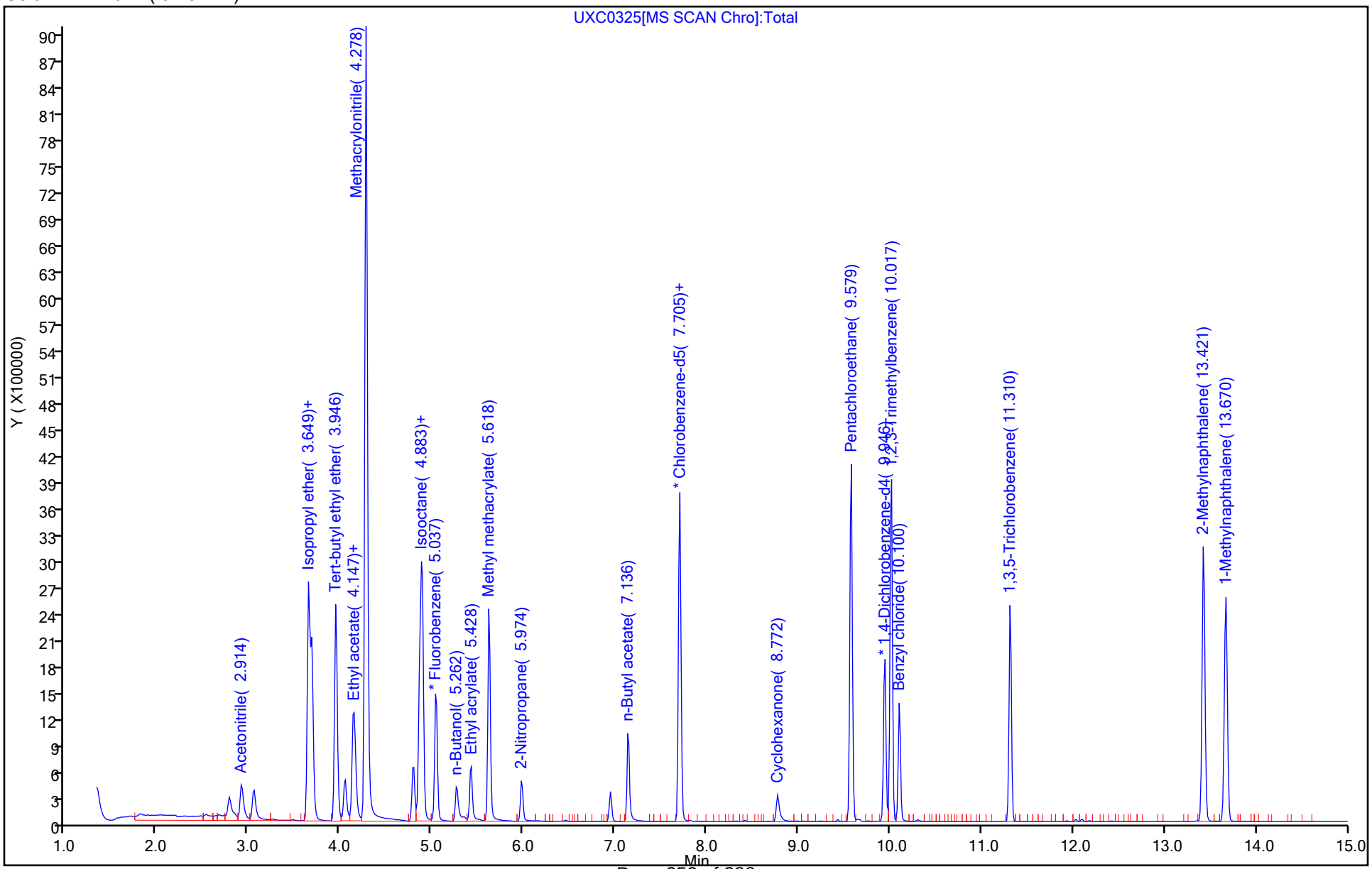
Report Date: 16-Jul-2020 08:53:51 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0325.D

Injection Date:	15-Jul-2020 11:34:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L5			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0326.D
Lims ID: STD A9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Jul-2020 11:56:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-010
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:52 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 12:19:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1324401	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	1025538	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	564007	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	99	300624	100.0	88.8	
37 Isopropyl ether	87	3.649	3.649	0.000	91	316160	10.0	10.2	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	569986	10.0	9.92	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	95	910257	10.0	10.1	
43 Ethyl acetate	43	4.135	4.135	0.000	100	556681	20.0	19.6	
44 Propionitrile	54	4.159	4.159	0.000	99	436026	100.0	99.7	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	2233289	100.0	98.7	
54 Isooctane	57	4.859	4.859	0.000	97	667154	10.0	9.07	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	93	776404	10.0	10.2	
59 n-Butanol	56	5.274	5.274	0.000	93	126035	250.0	243.5	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	330735	10.0	10.2	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	554358	20.0	19.9	
68 2-Nitropropane	41	5.974	5.974	0.000	99	120152	20.0	18.0	
79 n-Butyl acetate	43	7.136	7.136	0.000	97	342728	10.0	9.94	
83 1-Chlorohexane	91	7.705	7.705	0.000	94	344073	10.0	9.36	
92 Cyclohexanone	55	8.772	8.772	0.000	94	90751	100.0	100.7	
105 Pentachloroethane	167	9.579	9.579	0.000	90	253602	20.0	16.2	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	1237855	10.0	9.92	
112 Benzyl chloride	126	10.100	10.100	0.000	98	79729	10.0	9.31	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	96	451782	10.0	9.88	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	92	1117275	20.0	22.9	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	94	994454	20.0	22.8	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	8.00	Units: uL

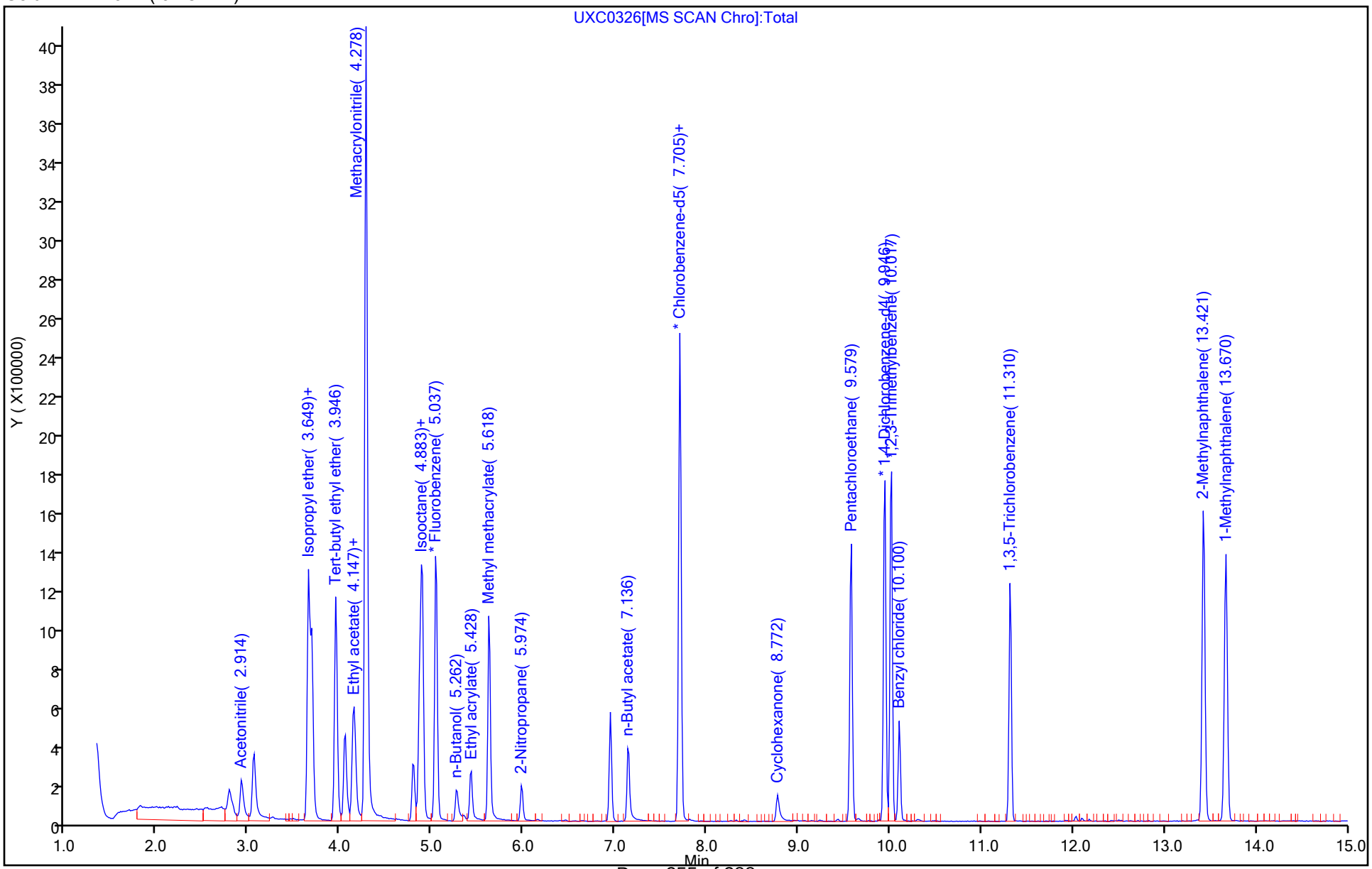
Report Date: 16-Jul-2020 08:53:53 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0326.D

Injection Date:	15-Jul-2020 11:56:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L4			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0327.D
Lims ID: STD A9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jul-2020 12:17:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-011
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:54 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 13:18:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.037	0.012	99	1297312	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	88	1008437	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	553521	10.0	10.0	
25 Acetonitrile	41	2.926	2.914	0.012	100	179908	50.0	54.2	
37 Isopropyl ether	87	3.649	3.649	0.000	92	157293	5.00	5.20	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	284264	5.00	5.05	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	94	444525	5.00	5.01	
43 Ethyl acetate	43	4.135	4.135	0.000	99	292924	10.0	10.5	
44 Propionitrile	54	4.159	4.159	0.000	98	231385	50.0	54.0	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	1115973	50.0	50.3	
54 Isooctane	57	4.871	4.859	0.012	97	339677	5.00	4.71	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	92	369055	5.00	4.93	
59 n-Butanol	56	5.262	5.274	-0.012	94	64282	125.0	126.8	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	166423	5.00	5.23	
64 Methyl methacrylate	41	5.618	5.618	0.000	90	280568	10.0	10.3	
68 2-Nitropropane	41	5.974	5.974	0.000	97	59777	10.0	9.13	
79 n-Butyl acetate	43	7.148	7.136	0.012	96	163560	5.00	4.84	
83 1-Chlorohexane	91	7.705	7.705	0.000	95	178725	5.00	4.95	
92 Cyclohexanone	55	8.772	8.772	0.000	91	47740	50.0	54.0	
105 Pentachloroethane	167	9.579	9.579	-0.001	86	141364	10.0	10.1	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	609385	5.00	4.98	
112 Benzyl chloride	126	10.100	10.100	0.000	98	33281	5.00	4.66	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	221174	5.00	4.93	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	93	464208	10.0	9.68	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	413275	10.0	9.65	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	4.00	Units: uL

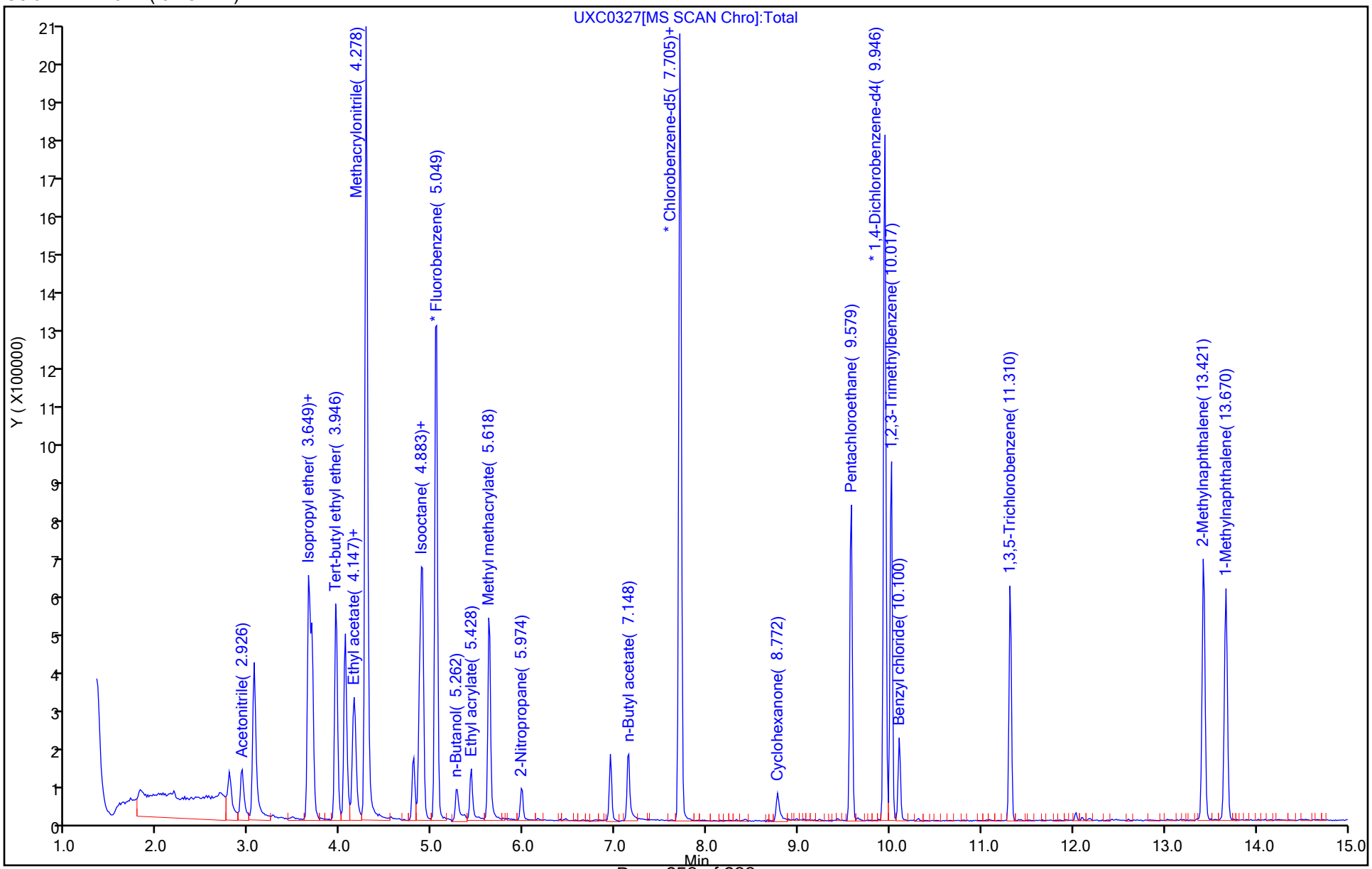
Report Date: 16-Jul-2020 08:53:54 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0327.D

Injection Date:	15-Jul-2020 12:17:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L3			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0328.D
Lims ID: STD A9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jul-2020 12:39:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-012
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:55 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.037	0.012	99	1255611	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	88	979359	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	540207	10.0	10.0	
25 Acetonitrile	41	2.926	2.914	0.012	99	71038	20.0	22.1	
37 Isopropyl ether	87	3.661	3.649	0.012	91	58271	2.00	1.99	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	112578	2.00	2.07	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	93	168024	2.00	1.96	
43 Ethyl acetate	43	4.136	4.135	0.001	99	110769	4.00	4.11	
44 Propionitrile	54	4.159	4.159	0.000	99	80873	20.0	19.5	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	404511	20.0	18.9	
54 Isooctane	57	4.871	4.859	0.012	98	148423	2.00	2.13	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	90	135396	2.00	1.87	
59 n-Butanol	56	5.274	5.274	0.000	91	22274	50.0	45.4	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	59415	2.00	1.93	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	104914	4.00	3.97	
68 2-Nitropropane	41	5.974	5.974	0.000	99	25399	4.00	4.01	
79 n-Butyl acetate	43	7.136	7.136	0.000	96	57818	2.00	1.77	
83 1-Chlorohexane	91	7.705	7.705	0.000	95	71187	2.00	2.03	
92 Cyclohexanone	55	8.772	8.772	0.000	89	15795	20.0	18.3	
105 Pentachloroethane	167	9.579	9.579	0.000	81	44746	4.00	4.71	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	221718	2.00	1.86	
112 Benzyl chloride	126	10.100	10.100	0.000	97	10924	2.00	2.16	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	95	92743	2.00	2.12	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	93	183439	4.00	3.92	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	94	169028	4.00	4.04	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	1.60	Units: uL

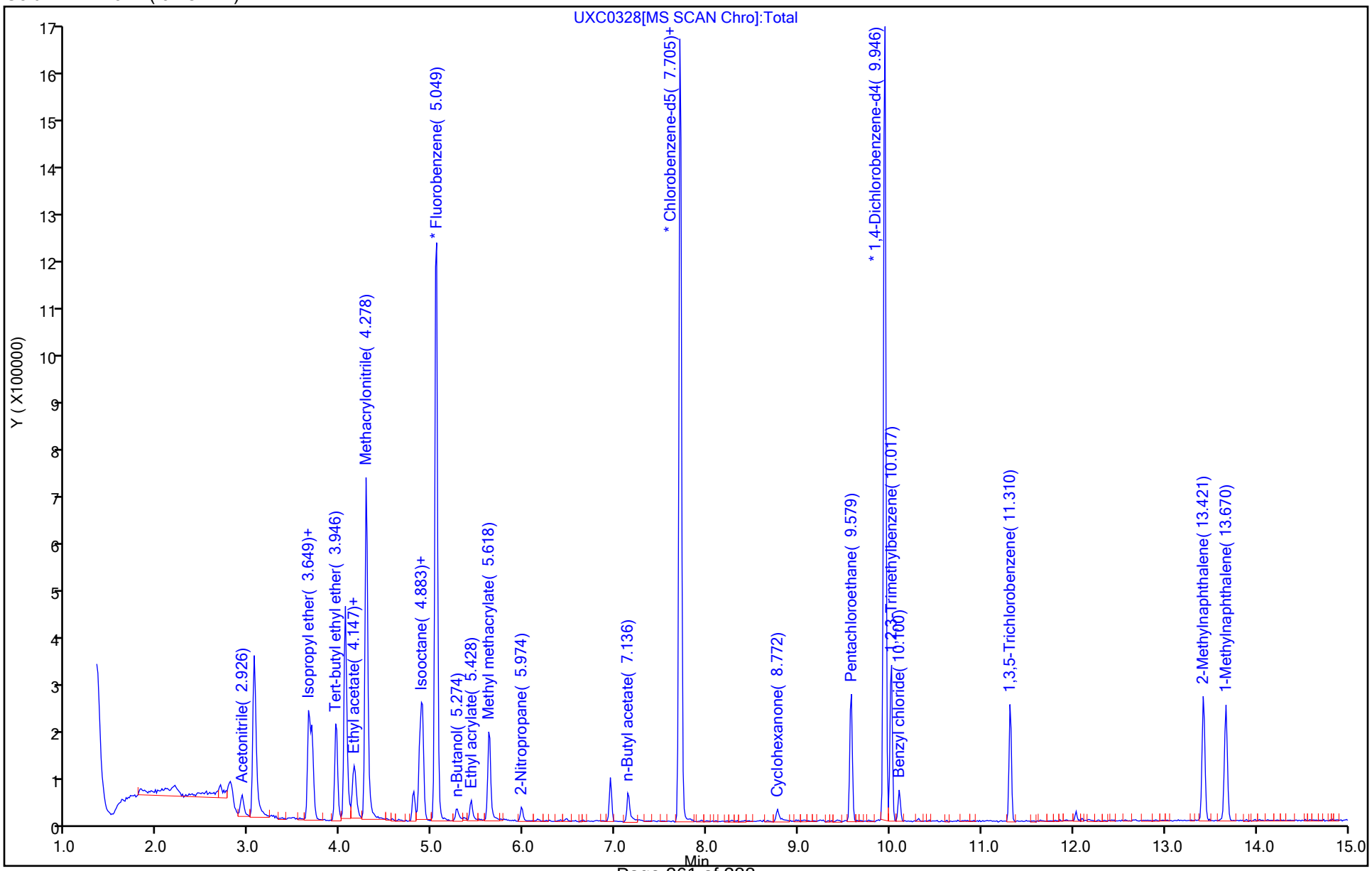
Report Date: 16-Jul-2020 08:53:55 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0328.D

Injection Date:	15-Jul-2020 12:39:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L2			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D
Lims ID: STD A9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jul-2020 13:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-013
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub102

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 13:22:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1227648	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.717	-0.012	87	944018	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	523057	10.0	10.0	
25 Acetonitrile	41	2.914	2.914	0.000	94	34980	10.0	11.1	
37 Isopropyl ether	87	3.649	3.649	0.000	91	28790	1.00	1.01	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	94	54235	1.00	1.02	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	94	82534	1.00	0.9839	
43 Ethyl acetate	43	4.136	4.135	0.001	98	52374	2.00	1.99	
44 Propionitrile	54	4.159	4.159	0.000	97	39956	10.0	9.85	
45 Methacrylonitrile	41	4.278	4.278	0.000	94	206129	10.0	9.83	
54 Isooctane	57	4.859	4.859	0.000	98	74663	1.00	1.09	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	89	66115	1.00	0.9329	
59 n-Butanol	56	5.274	5.274	0.000	86	11957	25.0	24.9	
61 Ethyl acrylate	55	5.428	5.428	0.000	98	25529	1.00	0.8475	
64 Methyl methacrylate	41	5.618	5.618	0.000	90	48209	2.00	1.87	
68 2-Nitropropane	41	5.974	5.974	0.000	97	11910	2.00	1.92	
79 n-Butyl acetate	43	7.136	7.136	0.000	94	27486	1.00	0.8604	
83 1-Chlorohexane	91	7.705	7.705	0.000	87	34870	1.00	1.03	
92 Cyclohexanone	55	8.772	8.772	0.000	85	7614	10.0	9.11	
105 Pentachloroethane	167	9.579	9.579	0.000	74	13021	2.00	2.86	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	98	109885	1.00	0.9496	
112 Benzyl chloride	126	10.100	10.100	0.000	97	4972	1.00	1.46	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	95	45163	1.00	1.07	
121 2-Methylnaphthalene	142	13.421	13.421	0.000	93	83019	2.00	1.83	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	96	81255	2.00	2.01	

Reagents:

VM50is_00084	Amount Added:	1.00	Units: uL
VMRA9W_00352	Amount Added:	0.80	Units: uL

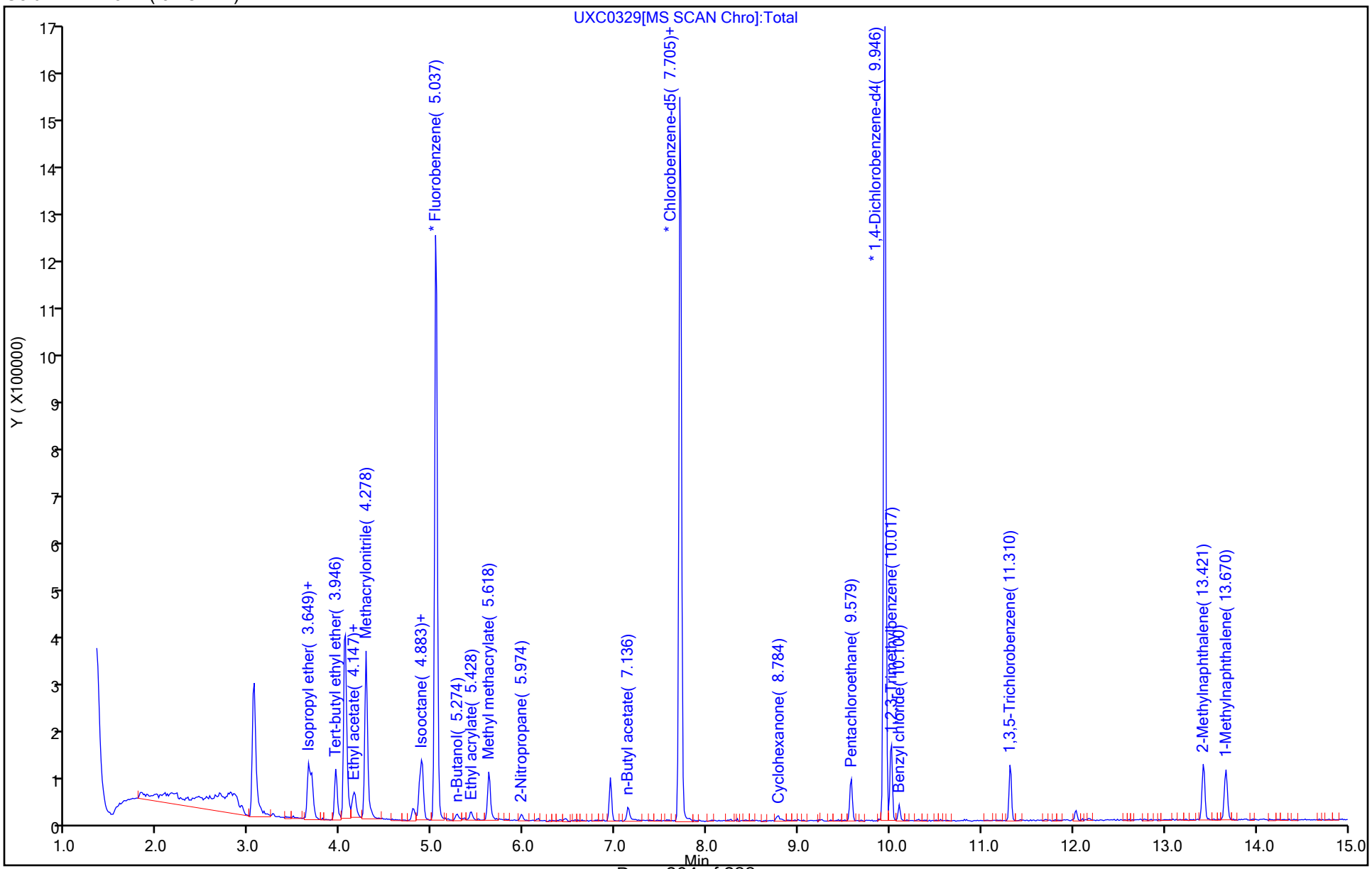
Report Date: 16-Jul-2020 08:53:57 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Injection Date:	15-Jul-2020 13:01:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	STD A9 L1			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-443953/14 Calibration Date: 07/23/2020 13:18

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ1040.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2473	0.2788		0.0113	0.0100	12.8	50.0
Chloromethane	Qua		0.1669	0.1000	0.00898	0.0100	-10.2	50.0
Butadiene	Ave	0.2053	0.2340		0.0114	0.0100	14.0	50.0
Vinyl chloride	Ave	0.2255	0.2499		0.0111	0.0100	10.8	20.0
Bromomethane	Ave	0.1655	0.1703		0.0103	0.0100	2.9	50.0
Chloroethane	Ave	0.1335	0.1411		0.0106	0.0100	5.7	50.0
Dichlorofluoromethane	Ave	0.3265	0.3397		0.0104	0.0100	4.0	50.0
Trichlorofluoromethane	Ave	0.3314	0.3513		0.0106	0.0100	6.0	50.0
Ethyl ether	Ave	0.1719	0.1845		0.0107	0.0100	7.4	50.0
Acrolein	Ave	0.0159	0.0188		0.0593	0.0500	18.6	50.0
1,1-Dichloroethene	Ave	0.1930	0.1990		0.0103	0.0100	3.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1496	0.1587		0.0106	0.0100	6.1	50.0
Acetone	Lin1		0.0854		0.0213	0.0200	6.4	50.0
Iodomethane	Ave	0.3226	0.3316		0.0103	0.0100	2.8	50.0
Carbon disulfide	Ave	0.5899	0.5758		0.00976	0.0100	-2.4	50.0
3-Chloro-1-propene	Ave	0.1358	0.1430		0.0105	0.0100	5.3	50.0
Methyl acetate	Ave	0.2005	0.2027		0.0202	0.0200	1.1	50.0
Methylene Chloride	Lin1		0.2194		0.0109	0.0100	9.4	50.0
2-Methyl-2-propanol	Ave	0.0420	0.0413		0.0984	0.100	-1.6	50.0
Acrylonitrile	Ave	0.0965	0.0970		0.100	0.100	0.4	50.0
trans-1,2-Dichloroethene	Ave	0.2268	0.2279		0.0100	0.0100	0.5	50.0
Methyl tert-butyl ether	Ave	0.6224	0.6351		0.0102	0.0100	2.0	50.0
Hexane	Ave	0.0585	0.0589		0.0101	0.0100	0.6	20.0
1,1-Dichloroethane	Ave	0.3356	0.3402	0.1000	0.0101	0.0100	1.3	50.0
Vinyl acetate	Ave	0.5358	0.5015		0.00936	0.0100	-6.4	50.0
2,2-Dichloropropane	Ave	0.0644	0.0673		0.0104	0.0100	4.4	50.0
cis-1,2-Dichloroethene	Ave	0.2430	0.2475		0.0102	0.0100	1.8	50.0
2-Butanone (MEK)	Ave	0.1573	0.1531		0.0195	0.0200	-2.7	50.0
Chlorobromomethane	Ave	0.1149	0.1109		0.00965	0.0100	-3.5	50.0
Chloroform	Ave	0.3536	0.3646		0.0103	0.0100	3.1	20.0
Tetrahydrofuran	Ave	0.0949	0.0930		0.0196	0.0200	-2.0	50.0
1,1,1-Trichloroethane	Ave	0.3062	0.3179		0.0104	0.0100	3.8	50.0
Cyclohexane	Ave	0.2988	0.3001		0.0100	0.0100	0.4	50.0
1,1-Dichloropropene	Ave	0.3235	0.3091		0.00956	0.0100	-4.4	50.0
Carbon tetrachloride	Ave	0.2635	0.2705		0.0103	0.0100	2.6	50.0
Isobutyl alcohol	Ave	0.0176	0.0168		0.238	0.250	-4.9	50.0
Benzene	Ave	0.9368	0.9554		0.0102	0.0100	2.0	50.0
1,2-Dichloroethane	Ave	0.3013	0.3053		0.0101	0.0100	1.3	50.0
n-Heptane	Ave	0.0528	0.0570		0.0108	0.0100	7.9	50.0
Trichloroethene	Ave	0.2770	0.2702		0.00976	0.0100	-2.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-443953/14 Calibration Date: 07/23/2020 13:18

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ1040.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3057	0.3205		0.0105	0.0100	4.9	50.0
1,2-Dichloropropane	Ave	0.2090	0.2158		0.0103	0.0100	3.3	20.0
Dibromomethane	Ave	0.1480	0.1482		0.0100	0.0100	0.1	50.0
1,4-Dioxane	Lin1		0.0028		0.162	0.200	-19.1	50.0
Dichlorobromomethane	Ave	0.2978	0.3135		0.0105	0.0100	5.3	50.0
2-Chloroethyl vinyl ether	Ave	0.1813	0.1858		0.0102	0.0100	2.5	50.0
cis-1,3-Dichloropropene	Ave	0.3955	0.4038		0.0102	0.0100	2.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2866	0.2729		0.0190	0.0200	-4.8	50.0
Toluene	Ave	1.521	1.516		0.00997	0.0100	-0.3	20.0
trans-1,3-Dichloropropene	Ave	0.5330	0.4947		0.00928	0.0100	-7.2	50.0
Ethyl methacrylate	Ave	0.5092	0.5180		0.0102	0.0100	1.7	50.0
1,1,2-Trichloroethane	Ave	0.3200	0.3225		0.0101	0.0100	0.8	50.0
Tetrachloroethene	Ave	0.2777	0.2714		0.00978	0.0100	-2.2	50.0
1,3-Dichloropropane	Ave	0.5329	0.5251		0.00985	0.0100	-1.5	50.0
2-Hexanone	Ave	0.3127	0.2999		0.0192	0.0200	-4.1	50.0
Chlorodibromomethane	Ave	0.3312	0.3312		0.0100	0.0100	0.0	50.0
Ethylene Dibromide	Ave	0.3428	0.3357		0.00979	0.0100	-2.1	50.0
Chlorobenzene	Ave	0.9202	0.9213	0.3000	0.0100	0.0100	0.1	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2853	0.2916		0.0102	0.0100	2.2	50.0
Ethylbenzene	Ave	0.4910	0.4920		0.0100	0.0100	0.2	20.0
m-Xylene & p-Xylene	Ave	0.5981	0.5905		0.00987	0.0100	-1.3	50.0
o-Xylene	Ave	0.5381	0.5619		0.0104	0.0100	4.4	50.0
Styrene	Ave	0.9655	0.9692		0.0100	0.0100	0.4	50.0
Bromoform	Ave	0.2202	0.2177	0.1000	0.00989	0.0100	-1.1	50.0
Isopropylbenzene	Ave	1.317	1.354		0.0103	0.0100	2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.9844	0.9722	0.3000	0.00988	0.0100	-1.2	50.0
Bromobenzene	Ave	0.8380	0.8311		0.00992	0.0100	-0.8	50.0
1,2,3-Trichloropropane	Ave	0.3442	0.3411		0.00991	0.0100	-0.9	50.0
trans-1,4-Dichloro-2-butene	Ave	0.3259	0.3297		0.0101	0.0100	1.2	50.0
N-Propylbenzene	Ave	0.8962	0.8675		0.00968	0.0100	-3.2	50.0
2-Chlorotoluene	Ave	0.7752	0.7500		0.00968	0.0100	-3.2	50.0
1,3,5-Trimethylbenzene	Ave	2.426	2.412		0.00994	0.0100	-0.6	50.0
4-Chlorotoluene	Ave	0.8252	0.8125		0.00985	0.0100	-1.5	50.0
tert-Butylbenzene	Ave	1.972	1.929		0.00978	0.0100	-2.2	50.0
1,2,4-Trimethylbenzene	Ave	2.450	2.443		0.00997	0.0100	-0.3	50.0
sec-Butylbenzene	Ave	2.651	2.573		0.00971	0.0100	-2.9	50.0
1,3-Dichlorobenzene	Ave	1.438	1.384		0.00963	0.0100	-3.7	50.0
4-Isopropyltoluene	Ave	2.282	2.215		0.00970	0.0100	-3.0	50.0
1,4-Dichlorobenzene	Ave	1.455	1.408		0.00968	0.0100	-3.2	50.0
1,2-Dichlorobenzene	Ave	1.388	1.326		0.00956	0.0100	-4.4	50.0
n-Butylbenzene	Ave	1.946	1.851		0.00951	0.0100	-4.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-443953/14 Calibration Date: 07/23/2020 13:18

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ1040.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2688	0.2545		0.00947	0.0100	-5.3	50.0
1,2,4-Trichlorobenzene	Ave	0.8241	0.7520		0.00913	0.0100	-8.7	50.0
Hexachlorobutadiene	Ave	0.2373	0.1963		0.00827	0.0100	-17.3	50.0
Naphthalene	Ave	3.158	2.809		0.00889	0.0100	-11.1	50.0
1,2,3-Trichlorobenzene	Ave	0.7726	0.7052		0.00913	0.0100	-8.7	50.0
Dibromofluoromethane (Surr)	Ave	0.2019	0.2073		0.0205	0.0200	2.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2553	0.2492		0.0195	0.0200	-2.4	50.0
Toluene-d8 (Surr)	Ave	1.313	1.319		0.0201	0.0200	0.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4375	0.4252		0.0194	0.0200	-2.8	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1040.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-Jul-2020 13:18:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-014
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:50:49 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 23-Jul-2020 14:45:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	975206	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.374	7.375	-0.001	84	706401	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	95	292739	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.144	4.144	0.000	97	202185	20.0	20.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	97	242982	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	931997	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	95	300384	20.0	19.4	
10 Dichlorodifluoromethane	85	1.162	1.174	-0.012	99	135962	10.0	11.3	
12 Chloromethane	50	1.340	1.340	0.000	73	81358	10.0	8.98	
13 Butadiene	54	1.387	1.387	0.000	98	114093	10.0	11.4	
14 Vinyl chloride	62	1.423	1.423	0.000	97	121852	10.0	11.1	
15 Bromomethane	94	1.636	1.636	0.000	90	83060	10.0	10.3	
16 Chloroethane	64	1.683	1.683	0.000	99	68812	10.0	10.6	
17 Dichlorofluoromethane	67	1.849	1.849	0.000	95	165648	10.0	10.4	
18 Trichlorofluoromethane	101	1.849	1.860	-0.011	91	171310	10.0	10.6	
19 Ethyl ether	59	2.109	2.109	0.000	88	89983	10.0	10.7	
20 Acrolein	56	2.204	2.204	0.000	99	45940	50.0	59.3	
21 1,1-Dichloroethene	96	2.275	2.275	-0.001	97	97024	10.0	10.3	
23 112TCTFE	151	2.322	2.322	0.000	91	77400	10.0	10.6	
24 Acetone	43	2.346	2.346	0.000	99	83261	20.0	21.3	
25 Iodomethane	142	2.405	2.405	0.000	96	161665	10.0	10.3	
26 Carbon disulfide	76	2.452	2.452	0.000	99	280761	10.0	9.76	
28 3-Chloro-1-propene	76	2.582	2.582	0.000	88	69745	10.0	10.5	
29 Methyl acetate	43	2.618	2.618	0.000	96	197662	20.0	20.2	
30 Methylene Chloride	84	2.677	2.689	-0.012	85	106993	10.0	10.9	
31 2-Methyl-2-propanol	59	2.831	2.843	-0.012	100	201333	100.0	98.4	
32 Acrylonitrile	53	2.890	2.890	0.000	100	472734	100.0	100.4	
33 trans-1,2-Dichloroethene	96	2.913	2.914	-0.001	94	111112	10.0	10.0	
34 Methyl tert-butyl ether	73	2.949	2.949	0.000	95	309670	10.0	10.2	
35 Hexane	86	3.150	3.150	0.000	90	28702	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.268	3.269	-0.001	96	165867	10.0	10.1	
37 Vinyl acetate	43	3.328	3.328	0.000	97	244552	10.0	9.36	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	72	32803	10.0	10.4	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	79	120674	10.0	10.2	
43 2-Butanone (MEK)	43	3.789	3.789	0.000	98	149305	20.0	19.5	
46 Chlorobromomethane	128	3.943	3.943	0.000	88	54084	10.0	9.65	
48 Chloroform	83	4.014	4.014	0.000	93	177763	10.0	10.3	
49 Tetrahydrofuran	42	4.026	4.026	0.000	82	90703	20.0	19.6	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	97	155004	10.0	10.4	
51 Cyclohexane	56	4.227	4.227	0.000	86	146344	10.0	10.0	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	95	150715	10.0	9.56	
52 Carbon tetrachloride	117	4.310	4.310	0.000	97	131880	10.0	10.3	
54 Isobutyl alcohol	41	4.452	4.452	0.000	94	147914	250.0	237.6	
55 Benzene	78	4.475	4.475	0.000	95	465843	10.0	10.2	
56 1,2-Dichloroethane	62	4.487	4.487	0.000	98	148857	10.0	10.1	
58 n-Heptane	100	4.724	4.724	0.000	84	27801	10.0	10.8	
60 Trichloroethene	130	5.032	5.032	0.000	96	131750	10.0	9.76	
62 Methylcyclohexane	83	5.197	5.197	0.000	87	156296	10.0	10.5	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	93	105242	10.0	10.3	
64 Dibromomethane	93	5.304	5.304	0.000	97	72245	10.0	10.0	
66 1,4-Dioxane	88	5.363	5.363	0.000	88	27353	200.0	161.7	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	152842	10.0	10.5	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	94	90585	10.0	10.2	
70 cis-1,3-Dichloropropene	75	5.836	5.836	0.000	96	196894	10.0	10.2	
71 4-Methyl-2-pentanone (MIBK)	43	5.990	5.990	0.000	94	266109	20.0	19.0	
72 Toluene	91	6.132	6.132	0.000	99	535307	10.0	9.97	
73 trans-1,3-Dichloropropene	75	6.321	6.321	0.000	92	174729	10.0	9.28	
74 Ethyl methacrylate	69	6.428	6.428	0.000	86	182954	10.0	10.2	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	88	113920	10.0	10.1	
76 Tetrachloroethene	164	6.617	6.617	0.000	98	95873	10.0	9.78	
77 1,3-Dichloropropane	76	6.641	6.641	0.000	88	185459	10.0	9.85	
78 2-Hexanone	43	6.736	6.736	0.000	93	211829	20.0	19.2	
80 Chlorodibromomethane	129	6.842	6.842	0.000	90	116983	10.0	10.0	
82 Ethylene Dibromide	107	6.937	6.937	0.000	99	118557	10.0	9.79	
84 Chlorobenzene	112	7.398	7.398	0.000	97	325386	10.0	10.0	
85 1,1,1,2-Tetrachloroethane	131	7.469	7.469	0.000	95	102998	10.0	10.2	
86 Ethylbenzene	106	7.505	7.505	0.000	97	173757	10.0	10.0	
87 m-Xylene & p-Xylene	106	7.611	7.611	0.000	98	208555	10.0	9.87	
89 o-Xylene	106	7.990	7.990	0.000	94	198473	10.0	10.4	
88 Styrene	104	7.990	7.990	0.000	95	342339	10.0	10.0	
90 Bromoform	173	8.155	8.156	-0.001	95	76891	10.0	9.89	
91 Isopropylbenzene	105	8.333	8.333	0.000	95	478401	10.0	10.3	
94 1,1,2,2-Tetrachloroethane	83	8.617	8.617	0.000	85	142295	10.0	9.88	
95 Bromobenzene	156	8.617	8.617	0.000	88	121646	10.0	9.92	
96 1,2,3-Trichloropropane	110	8.652	8.653	0.000	85	49920	10.0	9.91	
97 trans-1,4-Dichloro-2-butene	53	8.676	8.676	0.000	78	48260	10.0	10.1	
98 N-Propylbenzene	120	8.735	8.735	0.000	99	126976	10.0	9.68	
99 2-Chlorotoluene	126	8.806	8.806	0.000	97	109784	10.0	9.68	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	94	353005	10.0	9.94	
101 4-Chlorotoluene	126	8.913	8.913	0.000	99	118925	10.0	9.85	
103 tert-Butylbenzene	119	9.220	9.220	0.000	91	282380	10.0	9.78	
104 1,2,4-Trimethylbenzene	105	9.268	9.268	0.000	96	357626	10.0	9.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.433	9.433	0.000	93	376660	10.0	9.71	
106 1,3-Dichlorobenzene	146	9.528	9.528	0.000	98	202582	10.0	9.63	
107 4-Isopropyltoluene	119	9.575	9.575	0.000	97	324154	10.0	9.70	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	96	206058	10.0	9.68	
112 1,2-Dichlorobenzene	146	9.966	9.978	-0.012	94	194128	10.0	9.56	
111 n-Butylbenzene	91	9.978	9.978	0.000	97	270969	10.0	9.51	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.735	0.000	88	37252	10.0	9.47	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	94	110071	10.0	9.13	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	94	28732	10.0	8.27	
118 Naphthalene	128	11.788	11.788	0.000	97	411085	10.0	8.89	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	96	103214	10.0	9.13	
S 129 Total BTEX	1				0		50.0	50.5	
S 128 Trihalomethanes, Total	1				0		40.0	40.7	
S 132 Xylenes, Total	106				0		20.0	20.3	

Reagents:

VMFASPW_00359	Amount Added:	8.00	Units: uL	
VMFASAW_00336	Amount Added:	8.00	Units: uL	
VMFASGW_00368	Amount Added:	8.00	Units: uL	
VM50IS_00084	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
VM40ML_VIALS_00015	Amount Added:	0.00	Units:	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

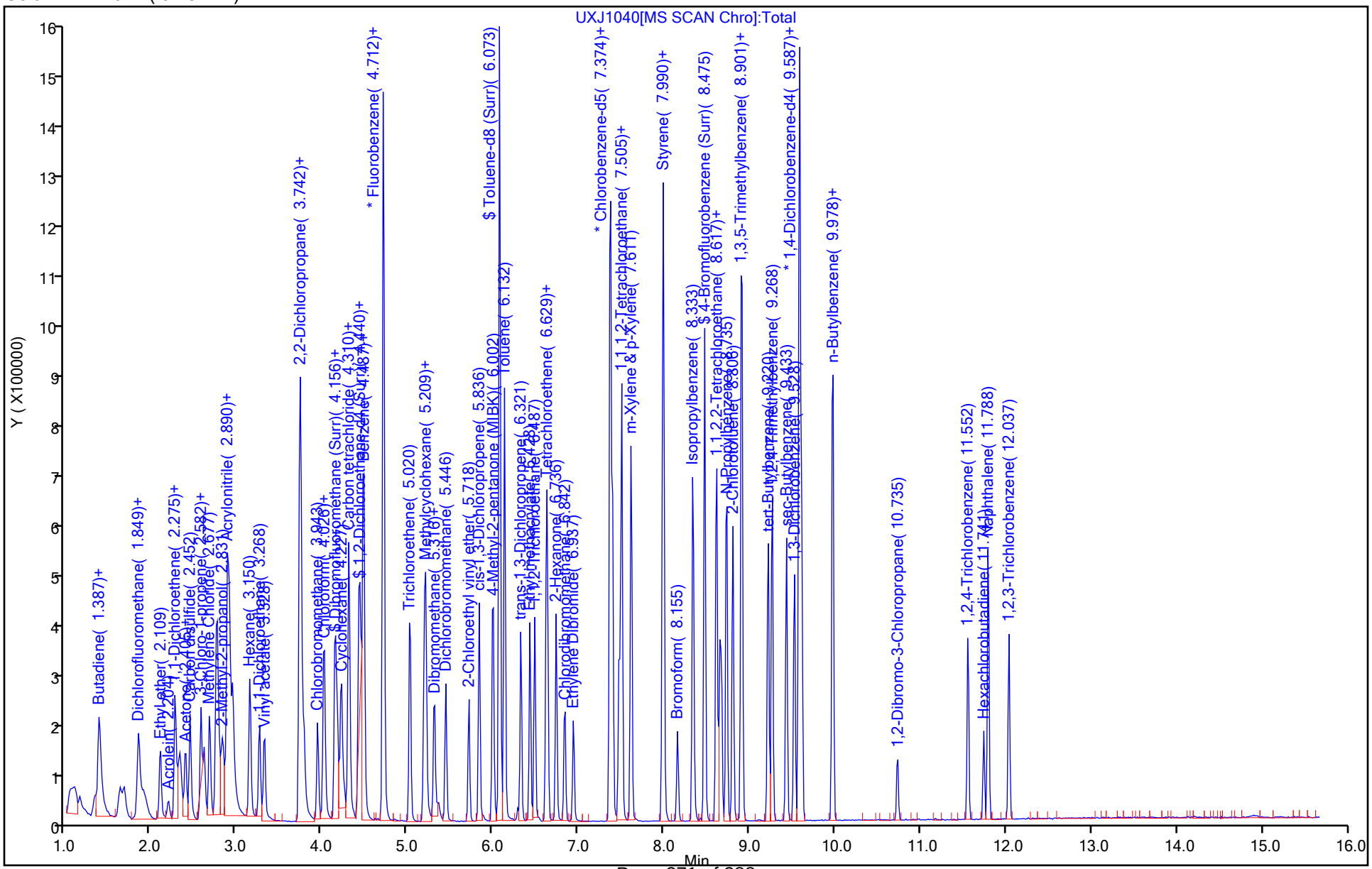
Report Date: 24-Jul-2020 11:50:52 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1040.D

Injection Date:	23-Jul-2020 13:18:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-443953/15 Calibration Date: 07/23/2020 15:54

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ1047.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2019	0.2167		0.0215	0.0200	7.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2553	0.2630		0.0206	0.0200	3.0	50.0
Toluene-d8 (Surr)	Ave	1.313	1.383		0.0211	0.0200	5.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4375	0.4330		0.0198	0.0200	-1.0	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1047.D
Lims ID: ICV A9
Client ID:
Sample Type: ICV
Inject. Date: 23-Jul-2020 15:54:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-015
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:50:49 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 24-Jul-2020 08:09:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	100	928320	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	84	660990	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	94	263798	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	97	201161	20.0	21.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	96	244179	20.0	20.6	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	914184	20.0	21.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	96	286186	20.0	19.8	
27 Acetonitrile	41	2.571	2.570	0.001	98	129436	100.0	101.0	
38 2-Chloro-1,3-butadiene	53	3.351	3.351	0.000	90	145117	10.0	9.96	
39 Isopropyl ether	87	3.363	3.363	0.000	91	86856	10.0	9.76	
40 Tert-butyl ethyl ether	59	3.659	3.659	0.000	96	224909	10.0	9.51	
44 Propionitrile	54	3.825	3.825	0.000	99	186689	100.0	96.9	
45 Ethyl acetate	43	3.848	3.848	0.000	98	263012	20.0	19.8	
47 Methacrylonitrile	41	3.943	3.943	0.000	90	732478	100.0	98.4	
126 Isooctane	57	4.558	4.558	0.000	0	197871	10.0	9.48	
57 Tert-amyl methyl ether	73	4.606	4.606	0.000	97	289723	10.0	9.46	
59 n-Butanol	56	5.008	5.008	0.000	84	132964	250.0	239.5	
61 Ethyl acrylate	55	5.138	5.138	0.000	99	181887	10.0	10.2	
65 Methyl methacrylate	41	5.328	5.327	0.001	87	219399	20.0	20.6	
68 2-Nitropropane	41	5.647	5.647	0.000	99	82134	20.0	19.6	
81 n-Butyl acetate	43	6.854	6.854	0.000	95	177028	10.0	9.68	
83 1-Chlorohexane	91	7.387	7.386	0.000	92	146878	10.0	9.56	
93 Cyclohexanone	55	8.428	8.428	0.000	90	43694	100.0	94.9	
102 Pentachloroethane	167	9.232	9.220	0.012	94	66567	20.0	13.0	
109 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	312836	10.0	9.72	
110 Benzyl chloride	126	9.741	9.741	0.000	99	53297	10.0	9.64	
115 1,3,5-Trichlorobenzene	180	10.948	10.948	0.000	97	103791	10.0	9.39	
120 2-Methylnaphthalene	142	12.924	12.924	0.000	99	340144	20.0	17.7	
127 1-Methylnaphthalene	142	13.125	13.125	0.000	0	297145	20.0	18.0	

Reagents:

VMFASA9W_00285	Amount Added:	8.00	Units: uL	
VM50IS_00084	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
VM40ML_VIALS_00015	Amount Added:	0.00	Units:	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

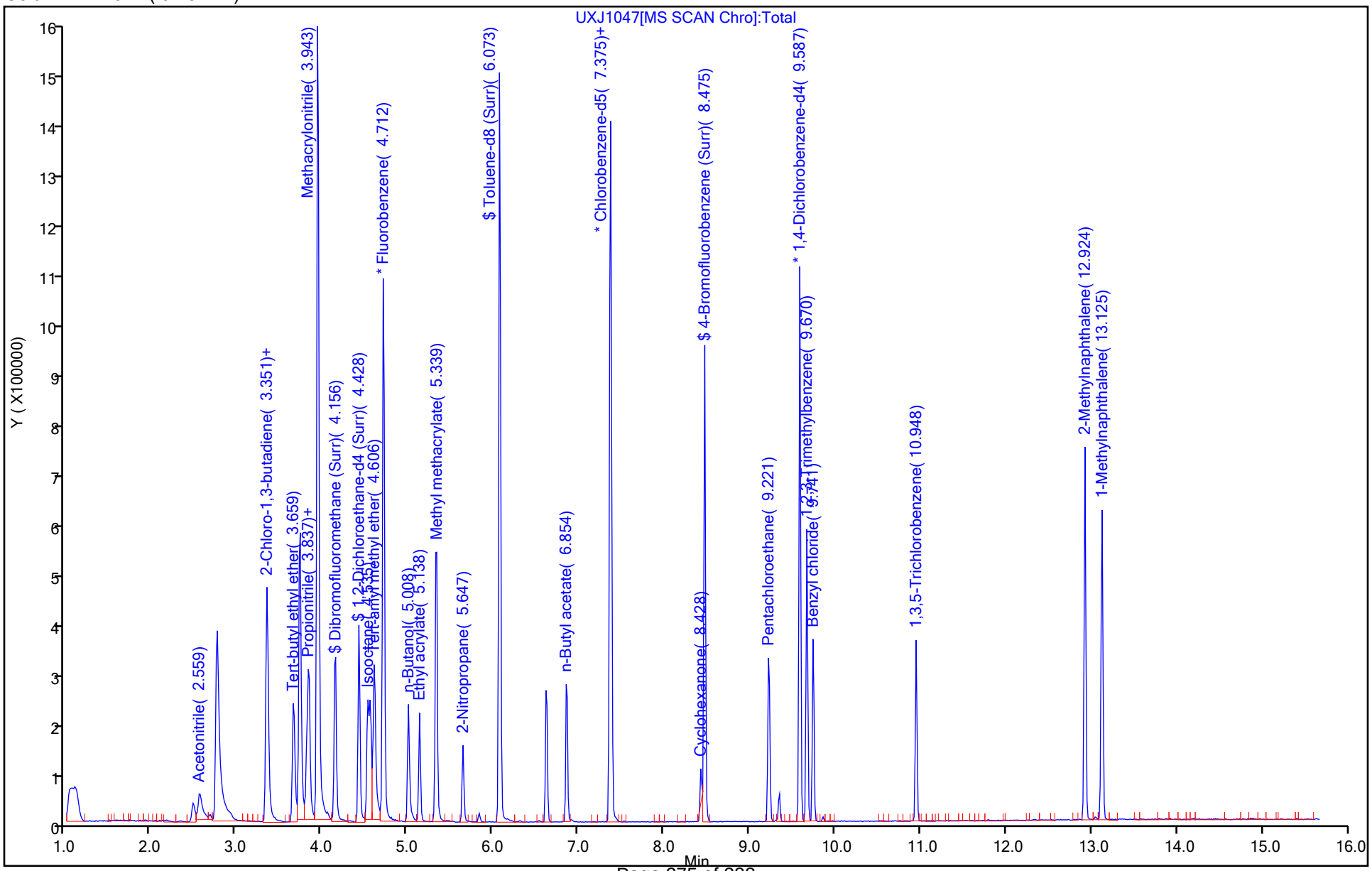
Report Date: 24-Jul-2020 11:50:58 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1047.D

Injection Date:	23-Jul-2020 15:54:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	ICV A9			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-443953/15 Calibration Date: 07/23/2020 15:54

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 13:40

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 15:32

Lab File ID: UXJ1047.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0276	0.0279		0.101	0.100	1.0	50.0
2-Chloro-1,3-butadiene	Ave	0.3140	0.3126		0.00996	0.0100	-0.4	50.0
Isopropyl ether	Ave	0.1918	0.1871		0.00976	0.0100	-2.4	50.0
Tert-butyl ethyl ether	Ave	0.5096	0.4846		0.00951	0.0100	-4.9	50.0
Propionitrile	Ave	0.0415	0.0402		0.0969	0.100	-3.1	50.0
Ethyl acetate	Ave	0.2863	0.2833		0.0198	0.0200	-1.1	50.0
Methacrylonitrile	Ave	0.1604	0.1578		0.0984	0.100	-1.6	50.0
Tert-amyl methyl ether	Ave	0.6599	0.6242		0.00946	0.0100	-5.4	50.0
n-Butanol	Ave	0.0168	0.0161		0.239	0.250	-4.2	50.0
Ethyl acrylate	Ave	0.3838	0.3919		0.0102	0.0100	2.1	50.0
Methyl methacrylate	Ave	0.2298	0.2363		0.0206	0.0200	2.8	50.0
2-Nitropropane	Ave	0.0903	0.0885		0.0196	0.0200	-2.0	50.0
n-Butyl acetate	Ave	0.3938	0.3814		0.00968	0.0100	-3.2	50.0
1-Chlorohexane	Ave	0.4650	0.4444		0.00956	0.0100	-4.4	50.0
Cyclohexanone	Ave	0.0349	0.0331		0.0949	0.100	-5.1	50.0
Pentachloroethane	Lin1		0.1007		0.0130	0.0200	-35.2	50.0
1,2,3-Trimethylbenzene	Ave	2.439	2.372		0.00972	0.0100	-2.8	50.0
Benzyl chloride	Ave	0.4191	0.4041		0.00964	0.0100	-3.6	50.0
1,3,5-Trichlorobenzene	Ave	0.8377	0.7869		0.00939	0.0100	-6.1	50.0
2-Methylnaphthalene	Ave	1.458	1.289		0.0177	0.0200	-11.6	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1047.D
Lims ID: ICV A9
Client ID:
Sample Type: ICV
Inject. Date: 23-Jul-2020 15:54:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100308-015
Misc. Info.: J200723A-IC,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 24-Jul-2020 11:50:49 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1018

First Level Reviewer: evansle Date: 24-Jul-2020 08:09:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	100	928320	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.375	0.000	84	660990	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.587	9.587	0.000	94	263798	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	97	201161	20.0	21.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	96	244179	20.0	20.6	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	914184	20.0	21.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	96	286186	20.0	19.8	
27 Acetonitrile	41	2.571	2.570	0.001	98	129436	100.0	101.0	
38 2-Chloro-1,3-butadiene	53	3.351	3.351	0.000	90	145117	10.0	9.96	
39 Isopropyl ether	87	3.363	3.363	0.000	91	86856	10.0	9.76	
40 Tert-butyl ethyl ether	59	3.659	3.659	0.000	96	224909	10.0	9.51	
44 Propionitrile	54	3.825	3.825	0.000	99	186689	100.0	96.9	
45 Ethyl acetate	43	3.848	3.848	0.000	98	263012	20.0	19.8	
47 Methacrylonitrile	41	3.943	3.943	0.000	90	732478	100.0	98.4	
126 Isooctane	57	4.558	4.558	0.000	0	197871	10.0	9.48	
57 Tert-amyl methyl ether	73	4.606	4.606	0.000	97	289723	10.0	9.46	
59 n-Butanol	56	5.008	5.008	0.000	84	132964	250.0	239.5	
61 Ethyl acrylate	55	5.138	5.138	0.000	99	181887	10.0	10.2	
65 Methyl methacrylate	41	5.328	5.327	0.001	87	219399	20.0	20.6	
68 2-Nitropropane	41	5.647	5.647	0.000	99	82134	20.0	19.6	
81 n-Butyl acetate	43	6.854	6.854	0.000	95	177028	10.0	9.68	
83 1-Chlorohexane	91	7.387	7.386	0.000	92	146878	10.0	9.56	
93 Cyclohexanone	55	8.428	8.428	0.000	90	43694	100.0	94.9	
102 Pentachloroethane	167	9.232	9.220	0.012	94	66567	20.0	13.0	
109 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	312836	10.0	9.72	
110 Benzyl chloride	126	9.741	9.741	0.000	99	53297	10.0	9.64	
115 1,3,5-Trichlorobenzene	180	10.948	10.948	0.000	97	103791	10.0	9.39	
120 2-Methylnaphthalene	142	12.924	12.924	0.000	99	340144	20.0	17.7	
127 1-Methylnaphthalene	142	13.125	13.125	0.000	0	297145	20.0	18.0	

Reagents:

VMFASA9W_00285	Amount Added:	8.00	Units: uL	
VM50IS_00084	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent
VM40ML_VIALS_00015	Amount Added:	0.00	Units:	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

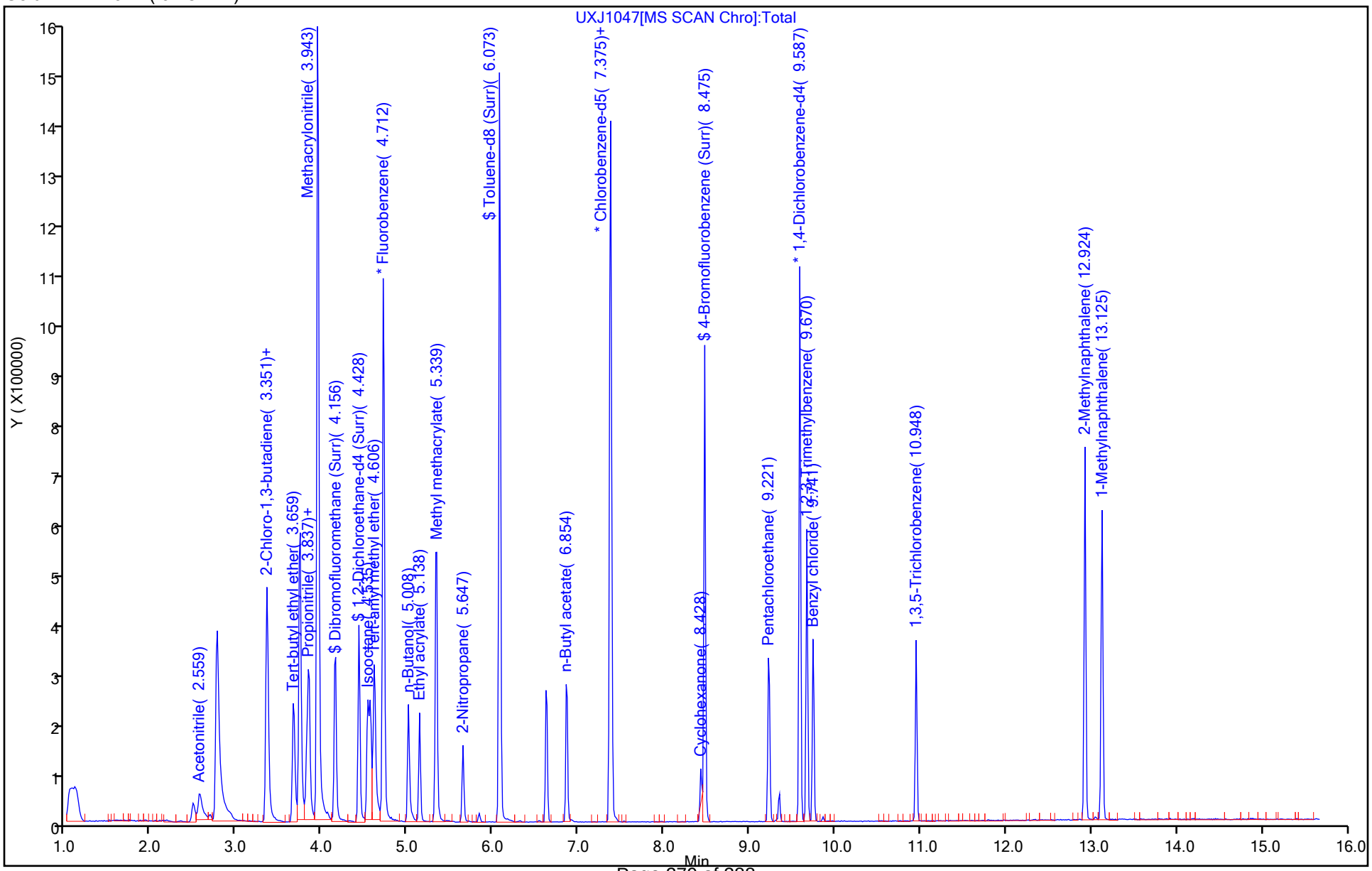
Report Date: 24-Jul-2020 11:50:58 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1047.D

Injection Date:	23-Jul-2020 15:54:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	ICV A9			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: CCVIS 240-461046/2 Calibration Date: 11/15/2020 08:06

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ4077.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2473	0.2045		0.00827	0.0100	-17.3	50.0
Chloromethane	Qua		0.2202	0.1000	0.0118	0.0100	17.7	50.0
Butadiene	Ave	0.2053	0.1985		0.00967	0.0100	-3.3	50.0
Vinyl chloride	Ave	0.2255	0.2305		0.0102	0.0100	2.2	20.0
Bromomethane	Ave	0.1655	0.1520		0.00918	0.0100	-8.2	50.0
Chloroethane	Ave	0.1335	0.1350		0.0101	0.0100	1.1	50.0
Dichlorofluoromethane	Ave	0.3265	0.2967		0.00909	0.0100	-9.1	50.0
Trichlorofluoromethane	Ave	0.3314	0.2677		0.00808	0.0100	-19.2	50.0
Ethyl ether	Ave	0.1719	0.1817		0.0106	0.0100	5.7	50.0
1,1-Dichloroethene	Ave	0.1930	0.1716		0.00889	0.0100	-11.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1496	0.1058		0.00707	0.0100	-29.3	50.0
Acetone	Lin1		0.0668		0.0163	0.0200	-18.7	50.0
Iodomethane	Ave	0.3226	0.2809		0.00871	0.0100	-12.9	50.0
Carbon disulfide	Ave	0.5899	0.5487		0.00930	0.0100	-7.0	50.0
3-Chloro-1-propene	Ave	0.1358	0.1312		0.00966	0.0100	-3.4	50.0
Methyl acetate	Ave	0.2005	0.1732		0.0173	0.0200	-13.6	50.0
Methylene Chloride	Lin1		0.2224		0.0111	0.0100	10.9	50.0
2-Methyl-2-propanol	Ave	0.0420	0.0291		0.0693	0.100	-30.7	50.0
Acrylonitrile	Ave	0.0965	0.0748		0.0775	0.100	-22.5	50.0
trans-1,2-Dichloroethene	Ave	0.2268	0.2149		0.00948	0.0100	-5.2	50.0
Methyl tert-butyl ether	Ave	0.6224	0.5407		0.00869	0.0100	-13.1	50.0
Hexane	Ave	0.0585	0.0512		0.00874	0.0100	-12.6	20.0
1,1-Dichloroethane	Ave	0.3356	0.3717	0.1000	0.0111	0.0100	10.8	50.0
Vinyl acetate	Ave	0.5358	0.3672		0.00685	0.0100	-31.5	50.0
2,2-Dichloropropane	Ave	0.0644	0.0510		0.00791	0.0100	-20.9	50.0
cis-1,2-Dichloroethene	Ave	0.2430	0.2316		0.00953	0.0100	-4.7	50.0
2-Butanone (MEK)	Ave	0.1573	0.1118		0.0142	0.0200	-29.0	50.0
Chlorobromomethane	Ave	0.1149	0.0987		0.00859	0.0100	-14.1	50.0
Chloroform	Ave	0.3536	0.3583		0.0101	0.0100	1.3	20.0
Tetrahydrofuran	Ave	0.0949	0.0787		0.0166	0.0200	-17.1	50.0
1,1,1-Trichloroethane	Ave	0.3062	0.2634		0.00860	0.0100	-14.0	50.0
Cyclohexane	Ave	0.2988	0.2863		0.00958	0.0100	-4.2	50.0
1,1-Dichloropropene	Ave	0.3235	0.2948		0.00911	0.0100	-8.9	50.0
Carbon tetrachloride	Ave	0.2635	0.2183		0.00828	0.0100	-17.2	50.0
Isobutyl alcohol	Ave	0.0176	0.0138		0.196	0.250	-21.5	50.0
Benzene	Ave	0.9368	0.8804		0.00940	0.0100	-6.0	50.0
1,2-Dichloroethane	Ave	0.3013	0.2624		0.00871	0.0100	-12.9	50.0
n-Heptane	Ave	0.0528	0.0415		0.00786	0.0100	-21.4	50.0
Trichloroethene	Ave	0.2770	0.2183		0.00788	0.0100	-21.2	50.0
Methylcyclohexane	Ave	0.3057	0.2852		0.00933	0.0100	-6.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: CCVIS 240-461046/2 Calibration Date: 11/15/2020 08:06

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ4077.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2090	0.2094		0.0100	0.0100	0.2	20.0
Dibromomethane	Ave	0.1480	0.1248		0.00843	0.0100	-15.7	50.0
1,4-Dioxane	Lin1		0.0022		0.127	0.200	-36.4	50.0
Dichlorobromomethane	Ave	0.2978	0.2623		0.00881	0.0100	-11.9	50.0
2-Chloroethyl vinyl ether	Ave	0.1813	0.1380		0.0152	0.0200	-23.9	50.0
cis-1,3-Dichloropropene	Ave	0.3955	0.3247		0.00821	0.0100	-17.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2866	0.2125		0.0148	0.0200	-25.8	50.0
Toluene	Ave	1.521	1.384		0.00910	0.0100	-9.0	20.0
trans-1,3-Dichloropropene	Ave	0.5330	0.4361		0.00818	0.0100	-18.2	50.0
Ethyl methacrylate	Ave	0.5092	0.3941		0.00774	0.0100	-22.6	50.0
1,1,2-Trichloroethane	Ave	0.3200	0.2693		0.00841	0.0100	-15.9	50.0
Tetrachloroethene	Ave	0.2777	0.2108		0.00759	0.0100	-24.1	50.0
1,3-Dichloropropane	Ave	0.5329	0.4694		0.00881	0.0100	-11.9	50.0
2-Hexanone	Ave	0.3127	0.2370		0.0152	0.0200	-24.2	50.0
Chlorodibromomethane	Ave	0.3312	0.2625		0.00792	0.0100	-20.8	50.0
Ethylene Dibromide	Ave	0.3428	0.2701		0.00788	0.0100	-21.2	50.0
Chlorobenzene	Ave	0.9202	0.7982	0.3000	0.00867	0.0100	-13.3	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2853	0.2505		0.00878	0.0100	-12.2	50.0
Ethylbenzene	Ave	0.4910	0.4368		0.00890	0.0100	-11.0	20.0
m-Xylene & p-Xylene	Ave	0.5981	0.5071		0.00848	0.0100	-15.2	50.0
o-Xylene	Ave	0.5381	0.4819		0.00896	0.0100	-10.4	50.0
Styrene	Ave	0.9655	0.7918		0.00820	0.0100	-18.0	50.0
Bromoform	Ave	0.2202	0.1476	0.1000	0.00670	0.0100	-33.0	50.0
Isopropylbenzene	Ave	1.317	1.163		0.00883	0.0100	-11.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.9844	0.8589	0.3000	0.00872	0.0100	-12.8	50.0
Bromobenzene	Ave	0.8380	0.6818		0.00814	0.0100	-18.6	50.0
1,2,3-Trichloropropane	Ave	0.3442	0.2549		0.00740	0.0100	-26.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.3259	0.2067		0.00634	0.0100	-36.6	50.0
N-Propylbenzene	Ave	0.8962	0.7900		0.00881	0.0100	-11.9	50.0
2-Chlorotoluene	Ave	0.7752	0.6652		0.00858	0.0100	-14.2	50.0
1,3,5-Trimethylbenzene	Ave	2.426	2.150		0.00886	0.0100	-11.4	50.0
4-Chlorotoluene	Ave	0.8252	0.7177		0.00870	0.0100	-13.0	50.0
tert-Butylbenzene	Ave	1.972	1.769		0.00897	0.0100	-10.3	50.0
1,2,4-Trimethylbenzene	Ave	2.450	2.158		0.00881	0.0100	-11.9	50.0
sec-Butylbenzene	Ave	2.651	2.503		0.00944	0.0100	-5.6	50.0
1,3-Dichlorobenzene	Ave	1.438	1.182		0.00822	0.0100	-17.8	50.0
4-Isopropyltoluene	Ave	2.282	1.992		0.00873	0.0100	-12.7	50.0
1,4-Dichlorobenzene	Ave	1.455	1.224		0.00841	0.0100	-15.9	50.0
1,2-Dichlorobenzene	Ave	1.388	1.083		0.00781	0.0100	-21.9	50.0
n-Butylbenzene	Ave	1.946	1.784		0.00916	0.0100	-8.4	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2688	0.1541		0.00573	0.0100	-42.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: CCVIS 240-461046/2 Calibration Date: 11/15/2020 08:06

Instrument ID: A3UX11 Calib Start Date: 07/23/2020 11:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/23/2020 12:55

Lab File ID: UXJ4077.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.8241	0.5760		0.00699	0.0100	-30.1	50.0
Hexachlorobutadiene	Ave	0.2373	0.1462		0.00616	0.0100	-38.4	50.0
Naphthalene	Ave	3.158	1.951		0.00618	0.0100	-38.2	50.0
1,2,3-Trichlorobenzene	Ave	0.7726	0.5297		0.00686	0.0100	-31.4	50.0
Acrolein	Ave	0.0159			0.0200	0.0500		
Dibromofluoromethane (Surr)	Ave	0.2019	0.2131		0.0211	0.0200	5.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2553	0.2666		0.0209	0.0200	4.4	50.0
Toluene-d8 (Surr)	Ave	1.313	1.323		0.0201	0.0200	0.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4375	0.4064		0.0186	0.0200	-7.1	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4077.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Nov-2020 08:06:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-002
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11
Sublist: chrom-8260_11*sub86

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 10:43:22 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 10:43:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	98	961387	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.363	7.363	0.000	86	640367	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.588	9.588	0.000	96	267314	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.144	4.144	0.000	97	204875	20.0	21.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	98	256331	20.0	20.9	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	93	847116	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	96	260260	20.0	18.6	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	99	98298	10.0	8.27	
12 Chloromethane	50	1.340	1.340	0.000	98	105837	10.0	11.8	
13 Butadiene	54	1.387	1.387	0.000	97	95406	10.0	9.67	
14 Vinyl chloride	62	1.411	1.411	0.000	98	110785	10.0	10.2	
15 Bromomethane	94	1.624	1.624	0.000	90	73055	10.0	9.18	
16 Chloroethane	64	1.695	1.695	0.000	100	64897	10.0	10.1	
17 Dichlorofluoromethane	67	1.849	1.849	0.000	97	142636	10.0	9.09	
18 Trichlorofluoromethane	101	1.861	1.861	0.000	98	128700	10.0	8.08	
19 Ethyl ether	59	2.109	2.109	0.000	91	87321	10.0	10.6	
20 Acrolein	56		2.204				ND	ND	
21 1,1-Dichloroethene	96	2.287	2.287	0.000	97	82464	10.0	8.89	
23 112TCTFE	151	2.334	2.334	0.000	92	50850	10.0	7.07	
24 Acetone	43	2.334	2.334	0.000	99	64214	20.0	16.3	
25 Iodomethane	142	2.405	2.405	0.000	97	135007	10.0	8.71	
26 Carbon disulfide	76	2.452	2.452	0.000	99	263757	10.0	9.30	
28 3-Chloro-1-propene	76	2.583	2.583	0.000	92	63052	10.0	9.66	
29 Methyl acetate	43	2.618	2.618	0.000	97	166501	20.0	17.3	
30 Methylene Chloride	84	2.689	2.689	0.000	91	106926	10.0	11.1	
31 2-Methyl-2-propanol	59	2.819	2.819	0.000	99	139791	100.0	69.3	
32 Acrylonitrile	53	2.890	2.890	0.000	98	359732	100.0	77.5	
33 trans-1,2-Dichloroethene	96	2.926	2.926	0.000	98	103319	10.0	9.48	
34 Methyl tert-butyl ether	73	2.938	2.938	0.000	94	259907	10.0	8.69	
35 Hexane	86	3.162	3.162	0.000	92	24595	10.0	8.74	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 1,1-Dichloroethane	63	3.269	3.269	0.000	96	178688	10.0	11.1	
37 Vinyl acetate	43	3.328	3.328	0.000	97	176526	10.0	6.85	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	81	111325	10.0	9.53	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	70	24516	10.0	7.91	
43 2-Butanone (MEK)	43	3.778	3.778	0.000	100	107436	20.0	14.2	
46 Chlorobromomethane	128	3.943	3.943	0.000	97	47425	10.0	8.59	
49 Tetrahydrofuran	42	4.014	4.014	0.000	65	75665	20.0	16.6	
48 Chloroform	83	4.014	4.014	0.000	93	172226	10.0	10.1	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	98	126626	10.0	8.60	
51 Cyclohexane	56	4.227	4.227	0.000	90	137604	10.0	9.58	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	98	141687	10.0	9.11	
52 Carbon tetrachloride	117	4.310	4.310	0.000	75	104944	10.0	8.28	
54 Isobutyl alcohol	41	4.428	4.428	0.000	96	110762	250.0	196.3	
55 Benzene	78	4.476	4.476	0.000	95	423202	10.0	9.40	
56 1,2-Dichloroethane	62	4.488	4.488	0.000	97	126147	10.0	8.71	
58 n-Heptane	100	4.724	4.724	0.000	87	19955	10.0	7.86	
60 Trichloroethene	130	5.032	5.032	0.000	99	104913	10.0	7.88	
62 Methylcyclohexane	83	5.198	5.198	0.000	89	137073	10.0	9.33	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	96	100655	10.0	10.0	
64 Dibromomethane	93	5.304	5.304	0.000	94	59968	10.0	8.43	
66 1,4-Dioxane	88	5.351	5.351	0.000	89	20804	200.0	127.1	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	126097	10.0	8.81	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	91	132654	20.0	15.2	
70 cis-1,3-Dichloropropene	75	5.837	5.837	0.000	97	156071	10.0	8.21	
71 4-Methyl-2-pentanone (MIBK)	43	5.990	5.990	0.000	96	204325	20.0	14.8	
72 Toluene	91	6.132	6.132	0.000	97	443209	10.0	9.10	
73 trans-1,3-Dichloropropene	75	6.322	6.322	0.000	92	139620	10.0	8.18	
74 Ethyl methacrylate	69	6.428	6.428	0.000	88	126189	10.0	7.74	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	90	86223	10.0	8.41	
76 Tetrachloroethene	164	6.618	6.618	0.000	93	67495	10.0	7.59	
77 1,3-Dichloropropane	76	6.629	6.629	0.000	90	150281	10.0	8.81	
78 2-Hexanone	43	6.724	6.724	0.000	98	151743	20.0	15.2	
80 Chlorodibromomethane	129	6.831	6.831	0.000	91	84034	10.0	7.92	
82 Ethylene Dibromide	107	6.937	6.937	0.000	99	86492	10.0	7.88	
84 Chlorobenzene	112	7.399	7.399	0.000	95	255562	10.0	8.67	
85 1,1,1,2-Tetrachloroethane	131	7.470	7.470	0.000	93	80193	10.0	8.78	
86 Ethylbenzene	106	7.505	7.505	0.000	97	139856	10.0	8.90	
87 m-Xylene & p-Xylene	106	7.612	7.612	0.000	98	162359	10.0	8.48	
89 o-Xylene	106	7.978	7.978	0.000	95	154310	10.0	8.96	
88 Styrene	104	7.990	7.990	0.000	92	253524	10.0	8.20	
90 Bromoform	173	8.156	8.156	0.000	91	47258	10.0	6.70	
91 Isopropylbenzene	105	8.333	8.333	0.000	96	372381	10.0	8.83	
94 1,1,2,2-Tetrachloroethane	83	8.606	8.606	0.000	92	114792	10.0	8.72	
95 Bromobenzene	156	8.617	8.617	0.000	95	91127	10.0	8.14	
96 1,2,3-Trichloropropane	110	8.653	8.653	0.000	84	34067	10.0	7.40	
97 trans-1,4-Dichloro-2-butene	53	8.665	8.665	0.000	83	27628	10.0	6.34	
98 N-Propylbenzene	120	8.724	8.724	0.000	99	105586	10.0	8.81	
99 2-Chlorotoluene	126	8.807	8.807	0.000	97	88903	10.0	8.58	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	95	287370	10.0	8.86	
101 4-Chlorotoluene	126	8.901	8.901	0.000	98	95921	10.0	8.70	
103 tert-Butylbenzene	119	9.209	9.209	0.000	93	236412	10.0	8.97	
104 1,2,4-Trimethylbenzene	105	9.256	9.256	0.000	97	288388	10.0	8.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 sec-Butylbenzene	105	9.434	9.434	0.000	94	334506	10.0	9.44	
106 1,3-Dichlorobenzene	146	9.517	9.517	0.000	97	158013	10.0	8.22	
107 4-Isopropyltoluene	119	9.576	9.576	0.000	97	266254	10.0	8.73	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	97	163587	10.0	8.41	
112 1,2-Dichlorobenzene	146	9.966	9.966	0.000	95	144768	10.0	7.81	
111 n-Butylbenzene	91	9.966	9.966	0.000	98	238397	10.0	9.16	
114 1,2-Dibromo-3-Chloropropane	157	10.724	10.724	0.000	83	20598	10.0	5.73	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	93	76989	10.0	6.99	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	89	19541	10.0	6.16	
118 Naphthalene	128	11.789	11.789	0.000	97	260728	10.0	6.18	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	93	70797	10.0	6.86	
S 128 Trihalomethanes, Total	1				0		40.0	33.6	
S 129 Total BTEX	1				0		50.0	44.8	
S 132 Xylenes, Total	106				0		20.0	17.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VMRGAS_00362	Amount Added:	8.00	Units: uL	
VMRPRIMW_00411	Amount Added:	8.00	Units: uL	
VMAROLISTDW_00368	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

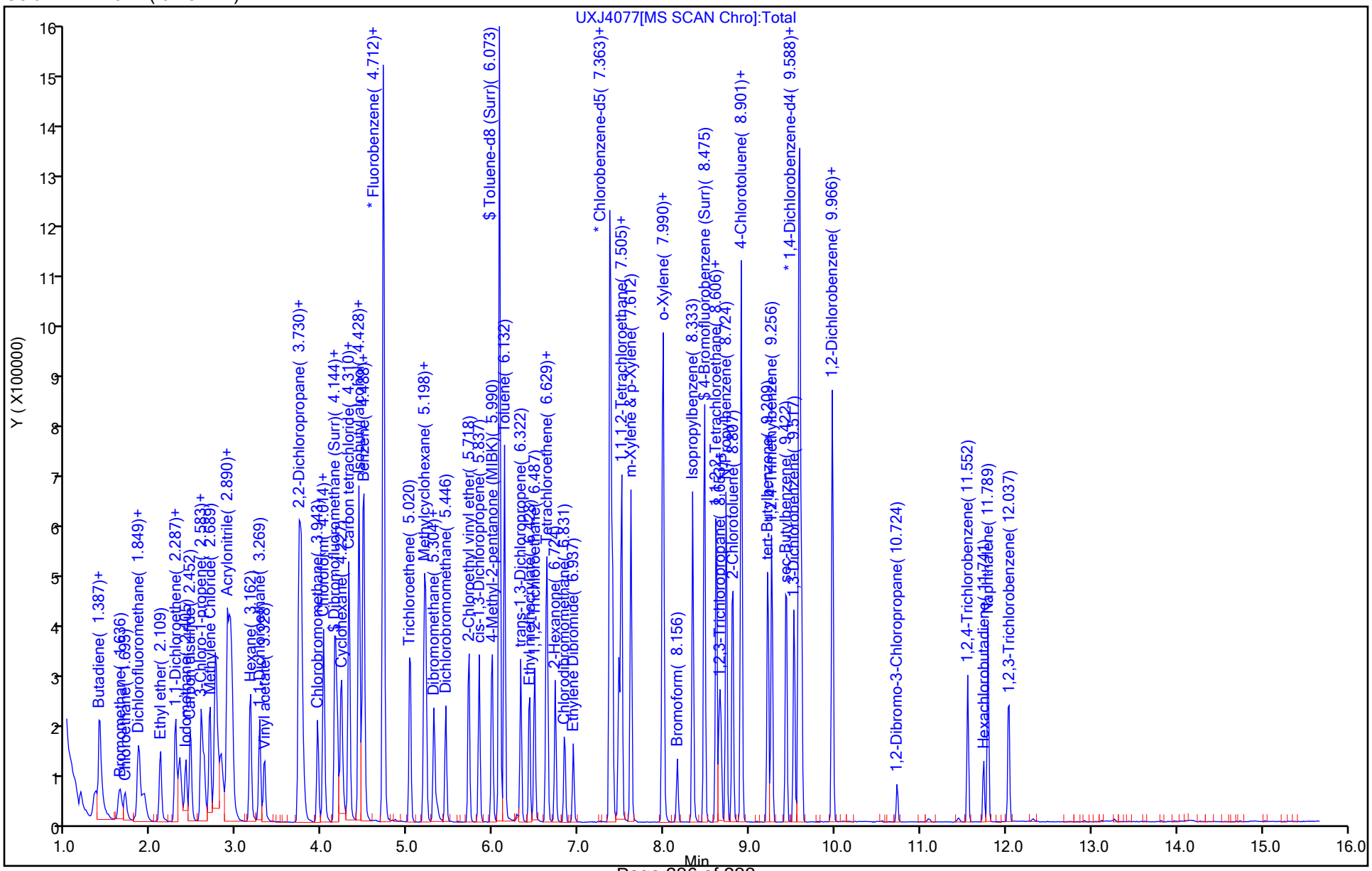
Report Date: 16-Nov-2020 10:43:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4077.D

Injection Date:	15-Nov-2020 08:06:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-442673/14 Calibration Date: 07/15/2020 10:50

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0323.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2742	0.2691		0.00981	0.0100	-1.9	50.0
Chloromethane	Ave	0.3275	0.3170	0.1000	0.00968	0.0100	-3.2	50.0
Butadiene	Ave	0.3702	0.3309		0.00894	0.0100	-10.6	50.0
Vinyl chloride	Ave	0.3246	0.2949		0.00909	0.0100	-9.1	20.0
Bromomethane	Ave	0.2730	0.2349		0.00861	0.0100	-13.9	50.0
Chloroethane	Ave	0.2543	0.2291		0.00901	0.0100	-9.9	50.0
Dichlorofluoromethane	Ave	0.6149	0.5826		0.00947	0.0100	-5.3	50.0
Trichlorofluoromethane	Ave	0.5362	0.4920		0.00918	0.0100	-8.2	50.0
Ethyl ether	Ave	0.2742	0.2946		0.0107	0.0100	7.4	50.0
Acrolein	Ave	0.0216	0.0201		0.0466	0.0500	-6.7	50.0
1,1-Dichloroethene	Ave	0.3008	0.2981		0.00991	0.0100	-0.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2269	0.2286		0.0101	0.0100	0.7	50.0
Acetone	Lin1		0.0270		0.0186	0.0200	-6.8	50.0
Iodomethane	Ave	0.5331	0.5557		0.0104	0.0100	4.2	50.0
Carbon disulfide	Ave	0.8326	0.8192		0.00984	0.0100	-1.6	50.0
3-Chloro-1-propene	Ave	0.1627	0.1654		0.0102	0.0100	1.7	50.0
Methyl acetate	Ave	0.1806	0.1835		0.0203	0.0200	1.6	50.0
Methylene Chloride	Ave	0.2637	0.2736		0.0104	0.0100	3.7	50.0
2-Methyl-2-propanol	Ave	0.0139	0.0128		0.0920	0.100	-8.0	50.0
Acrylonitrile	Ave	0.0866	0.0875		0.101	0.100	0.9	50.0
Methyl tert-butyl ether	Ave	0.6972	0.7045		0.0101	0.0100	1.1	50.0
trans-1,2-Dichloroethene	Ave	0.2750	0.2661		0.00968	0.0100	-3.2	50.0
Hexane	Ave	0.0473	0.0476		0.0101	0.0100	0.6	20.0
1,1-Dichloroethane	Ave	0.4575	0.4599	0.1000	0.0101	0.0100	0.5	50.0
Vinyl acetate	Ave	0.4462	0.4578		0.0103	0.0100	2.6	50.0
2,2-Dichloropropane	Ave	0.0712	0.0710		0.00997	0.0100	-0.3	50.0
cis-1,2-Dichloroethene	Ave	0.2862	0.2902		0.0101	0.0100	1.4	50.0
2-Butanone (MEK)	Ave	0.0285	0.0276		0.0194	0.0200	-3.2	50.0
Chlorobromomethane	Ave	0.1404	0.1394		0.00993	0.0100	-0.7	50.0
Tetrahydrofuran	Ave	0.0672	0.0681		0.0203	0.0200	1.3	50.0
Chloroform	Ave	0.4591	0.4641		0.0101	0.0100	1.1	20.0
1,1,1-Trichloroethane	Ave	0.3785	0.3847		0.0102	0.0100	1.6	50.0
Cyclohexane	Ave	0.3628	0.3688		0.0102	0.0100	1.7	50.0
1,1-Dichloropropene	Ave	0.3697	0.3597		0.00973	0.0100	-2.7	50.0
Carbon tetrachloride	Ave	0.3156	0.3166		0.0100	0.0100	0.3	50.0
Isobutyl alcohol	Ave	0.0055	0.0054		0.244	0.250	-2.4	50.0
Benzene	Ave	1.088	1.093		0.0100	0.0100	0.5	50.0
1,2-Dichloroethane	Ave	0.3993	0.4139		0.0104	0.0100	3.7	50.0
n-Heptane	Ave	0.0437	0.0402		0.00919	0.0100	-8.1	50.0
Trichloroethene	Ave	0.2928	0.2885		0.00985	0.0100	-1.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-442673/14 Calibration Date: 07/15/2020 10:50

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0323.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2981	0.2965		0.00995	0.0100	-0.5	50.0
1,2-Dichloropropane	Ave	0.2508	0.2619		0.0104	0.0100	4.4	20.0
1,4-Dioxane	Ave	0.0015	0.0016		0.206	0.200	3.0	50.0
Dibromomethane	Ave	0.1527	0.1593		0.0104	0.0100	4.4	50.0
Dichlorobromomethane	Ave	0.2974	0.3142		0.0106	0.0100	5.7	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1499		0.0102	0.0100	1.9	50.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3746		0.0103	0.0100	3.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2138	0.2241		0.0210	0.0200	4.8	50.0
Toluene	Ave	1.444	1.446		0.0100	0.0100	0.0	20.0
trans-1,3-Dichloropropene	Ave	0.4061	0.3892		0.00958	0.0100	-4.2	50.0
Ethyl methacrylate	Ave	0.3350	0.3628		0.0108	0.0100	8.3	50.0
1,1,2-Trichloroethane	Ave	0.2571	0.2722		0.0106	0.0100	5.9	50.0
Tetrachloroethene	Ave	0.2653	0.2674		0.0101	0.0100	0.8	50.0
1,3-Dichloropropane	Ave	0.4791	0.4968		0.0104	0.0100	3.7	50.0
2-Hexanone	Ave	0.1792	0.1846		0.0206	0.0200	3.0	50.0
Chlorodibromomethane	Lin1		0.2603		0.00908	0.0100	-9.2	50.0
Ethylene Dibromide	Ave	0.2655	0.2743		0.0103	0.0100	3.3	50.0
Chlorobenzene	Ave	0.9216	0.9301	0.3000	0.0101	0.0100	0.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2973	0.3097		0.0104	0.0100	4.2	50.0
Ethylbenzene	Ave	0.4739	0.4898		0.0103	0.0100	3.4	20.0
m-Xylene & p-Xylene	Ave	1.171	1.196		0.0102	0.0100	2.2	50.0
o-Xylene	Ave	0.5879	0.6105		0.0104	0.0100	3.8	50.0
Styrene	Ave	0.9791	1.012		0.0103	0.0100	3.3	50.0
Bromoform	Qua		0.1525	0.1000	0.00969	0.0100	-3.1	50.0
Isopropylbenzene	Ave	1.403	1.423		0.0101	0.0100	1.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.6037	0.3000	0.0104	0.0100	3.6	50.0
Bromobenzene	Ave	0.6639	0.6739		0.0102	0.0100	1.5	50.0
1,2,3-Trichloropropane	Ave	0.2016	0.2061		0.0102	0.0100	2.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1777	0.1884		0.0106	0.0100	6.0	50.0
N-Propylbenzene	Ave	0.6406	0.6384		0.00997	0.0100	-0.3	50.0
2-Chlorotoluene	Ave	0.6106	0.6119		0.0100	0.0100	0.2	50.0
1,3,5-Trimethylbenzene	Ave	1.964	1.968		0.0100	0.0100	0.2	50.0
4-Chlorotoluene	Ave	2.074	2.083		0.0100	0.0100	0.4	50.0
tert-Butylbenzene	Ave	1.613	1.609		0.00997	0.0100	-0.3	50.0
1,2,4-Trimethylbenzene	Ave	2.051	2.085		0.0102	0.0100	1.6	50.0
sec-Butylbenzene	Ave	2.088	2.041		0.00977	0.0100	-2.3	50.0
1,3-Dichlorobenzene	Ave	1.225	1.207		0.00985	0.0100	-1.5	50.0
4-Isopropyltoluene	Ave	1.923	1.880		0.00978	0.0100	-2.2	50.0
1,4-Dichlorobenzene	Ave	1.325	1.325		0.0100	0.0100	0.0	50.0
n-Butylbenzene	Ave	1.513	1.455		0.00962	0.0100	-3.8	50.0
1,2-Dichlorobenzene	Ave	1.260	1.219		0.00968	0.0100	-3.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-442673/14 Calibration Date: 07/15/2020 10:50

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0323.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0988	0.0976		0.00987	0.0100	-1.3	50.0
1,2,4-Trichlorobenzene	Ave	0.6764	0.6491		0.00960	0.0100	-4.0	50.0
Hexachlorobutadiene	Qua		0.2307		0.00806	0.0100	-19.4	50.0
Naphthalene	Ave	1.737	1.715		0.00988	0.0100	-1.2	50.0
1,2,3-Trichlorobenzene	Ave	0.6135	0.5707		0.00930	0.0100	-7.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2378	0.2312		0.00972	0.0100	-2.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3193		0.00973	0.0100	-2.7	50.0
Toluene-d8 (Surr)	Ave	1.242	1.244		0.0100	0.0100	0.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4442		0.0102	0.0100	2.1	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0323.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 10:50:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-014
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

First Level Reviewer: evansle Date: 15-Jul-2020 11:20:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.037	5.037	0.000	99	1403144	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.705	7.717	-0.012	92	1095940	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	92	649329	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	324455	10.0	9.72	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	448093	10.0	9.73	
$ 6 Toluene-d8 (Surr)	98	6.401	6.400	0.001	93	1362885	10.0	10.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	91	486850	10.0	10.2	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	98	377544	10.0	9.81	
10 Chloromethane	50	1.598	1.598	0.000	99	444785	10.0	9.68	
11 Vinyl chloride	62	1.693	1.693	0.000	97	413845	10.0	9.09	
12 Butadiene	54	1.693	1.693	0.000	96	464314	10.0	8.94	
13 Bromomethane	94	1.954	1.942	0.012	92	329655	10.0	8.61	
14 Chloroethane	64	2.025	2.025	0.000	99	321495	10.0	9.01	
15 Dichlorofluoromethane	67	2.179	2.179	0.000	98	817411	10.0	9.47	
16 Trichlorofluoromethane	101	2.226	2.226	0.000	97	690400	10.0	9.18	
17 Ethyl ether	59	2.440	2.440	0.000	92	413318	10.0	10.7	
18 Acrolein	56	2.558	2.558	0.000	98	141324	50.0	46.6	
19 1,1-Dichloroethene	96	2.641	2.641	0.000	97	418283	10.0	9.91	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.653	0.012	93	320718	10.0	10.1	
21 Acetone	58	2.689	2.677	0.012	98	75830	20.0	18.6	
22 Iodomethane	142	2.772	2.772	0.000	99	779719	10.0	10.4	
24 Carbon disulfide	76	2.831	2.831	0.000	99	1149426	10.0	9.84	
26 3-Chloro-1-propene	76	2.938	2.938	0.000	86	232148	10.0	10.2	
27 Methyl acetate	43	2.950	2.950	0.000	98	514949	20.0	20.3	
28 Methylene Chloride	84	3.045	3.044	0.001	95	383872	10.0	10.4	
29 2-Methyl-2-propanol	59	3.116	3.127	-0.011	93	179587	100.0	92.0	
30 Acrylonitrile	53	3.246	3.246	0.000	99	1227170	100.0	100.9	
31 Methyl tert-butyl ether	73	3.258	3.258	0.000	98	988556	10.0	10.1	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	373407	10.0	9.68	
34 Hexane	86	3.483	3.471	0.012	95	66784	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.614	3.614	0.000	96	645326	10.0	10.1	
36 Vinyl acetate	43	3.637	3.637	0.000	98	642378	10.0	10.3	
42 2,2-Dichloropropane	97	4.088	4.088	0.000	79	99654	10.0	9.97	
41 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	84	407221	10.0	10.1	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	77400	20.0	19.4	
46 Chlorobromomethane	128	4.290	4.290	0.000	95	195608	10.0	9.93	
47 Tetrahydrofuran	42	4.325	4.325	0.000	89	191160	20.0	20.3	
48 Chloroform	83	4.349	4.349	0.000	94	651220	10.0	10.1	
49 1,1,1-Trichloroethane	97	4.503	4.503	0.000	98	539786	10.0	10.2	
50 Cyclohexane	56	4.551	4.551	0.001	93	517484	10.0	10.2	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	91	504672	10.0	9.73	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	444270	10.0	10.0	
53 Isobutyl alcohol	41	4.717	4.717	0.000	93	189481	250.0	244.1	
55 Benzene	78	4.811	4.811	0.000	96	1533312	10.0	10.0	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	580790	10.0	10.4	
58 n-Heptane	100	5.013	5.013	0.000	91	56394	10.0	9.19	
60 Trichloroethene	130	5.345	5.345	0.000	95	404775	10.0	9.85	
62 Methylcyclohexane	83	5.511	5.511	0.000	91	415984	10.0	9.95	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	367472	10.0	10.4	
66 1,4-Dioxane	88	5.653	5.653	0.000	34	43674	200.0	206.0	
65 Dibromomethane	93	5.653	5.653	0.000	95	223589	10.0	10.4	
67 Dichlorobromomethane	83	5.772	5.772	0.000	98	440917	10.0	10.6	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	94	210381	10.0	10.2	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	92	525673	10.0	10.3	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	97	628791	20.0	21.0	
72 Toluene	91	6.460	6.460	0.000	98	1584267	10.0	10.0	
73 trans-1,3-Dichloropropene	75	6.650	6.649	0.001	97	426562	10.0	9.58	
74 Ethyl methacrylate	69	6.721	6.709	0.012	88	397587	10.0	10.8	
75 1,1,2-Trichloroethane	97	6.816	6.815	0.001	93	298369	10.0	10.6	
76 Tetrachloroethene	164	6.946	6.946	0.000	96	293087	10.0	10.1	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	94	544512	10.0	10.4	
78 2-Hexanone	43	7.029	7.029	0.000	97	404588	20.0	20.6	
80 Chlorodibromomethane	129	7.183	7.183	0.000	91	285299	10.0	9.08	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	300645	10.0	10.3	
84 Chlorobenzene	112	7.741	7.740	0.001	97	1019371	10.0	10.1	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	92	339398	10.0	10.4	
86 Ethylbenzene	106	7.835	7.835	0.000	99	536784	10.0	10.3	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1311017	10.0	10.2	
88 o-Xylene	106	8.322	8.322	0.000	95	669058	10.0	10.4	
89 Styrene	104	8.333	8.333	0.000	94	1108676	10.0	10.3	
90 Bromoform	173	8.523	8.523	0.000	97	167178	10.0	9.69	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	1559693	10.0	10.1	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	391998	10.0	10.4	
95 Bromobenzene	156	8.974	8.974	0.000	96	437582	10.0	10.2	
96 1,2,3-Trichloropropane	110	8.998	8.997	0.001	91	133812	10.0	10.2	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	78	122318	10.0	10.6	
98 N-Propylbenzene	120	9.057	9.057	0.000	99	414528	10.0	9.97	
99 2-Chlorotoluene	126	9.152	9.152	0.000	97	397329	10.0	10.0	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	1278016	10.0	10.0	
102 4-Chlorotoluene	91	9.258	9.258	0.000	97	1352537	10.0	10.0	
104 tert-Butylbenzene	119	9.555	9.555	0.000	91	1044627	10.0	9.97	
106 1,2,4-Trimethylbenzene	105	9.590	9.602	-0.012	96	1353545	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 sec-Butylbenzene	105	9.768	9.768	0.000	94	1325391	10.0	9.77	
108 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	783697	10.0	9.85	
109 4-Isopropyltoluene	119	9.899	9.899	0.000	97	1221038	10.0	9.78	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	95	860138	10.0	10.0	
113 n-Butylbenzene	91	10.314	10.314	0.000	97	944829	10.0	9.62	
114 1,2-Dichlorobenzene	146	10.338	10.337	0.001	98	791563	10.0	9.68	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	79	63346	10.0	9.87	
117 1,2,4-Trichlorobenzene	180	11.927	11.927	0.001	93	421484	10.0	9.60	
118 Hexachlorobutadiene	225	12.093	12.093	0.000	97	149776	10.0	8.06	
119 Naphthalene	128	12.176	12.176	0.000	97	1113771	10.0	9.88	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	96	370584	10.0	9.30	
S 129 Xylenes, Total	106				0		20.0	20.6	
S 130 Total BTEX	1				0		50.0	51.0	
S 131 Trihalomethanes, Total	1				0		40.0	39.4	

Reagents:

VMFASPW_00358	Amount Added:	8.00	Units: uL	
VMFASAW_00335	Amount Added:	8.00	Units: uL	
VMFASGW_00366	Amount Added:	8.00	Units: uL	
vm50ss_stk_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00084	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

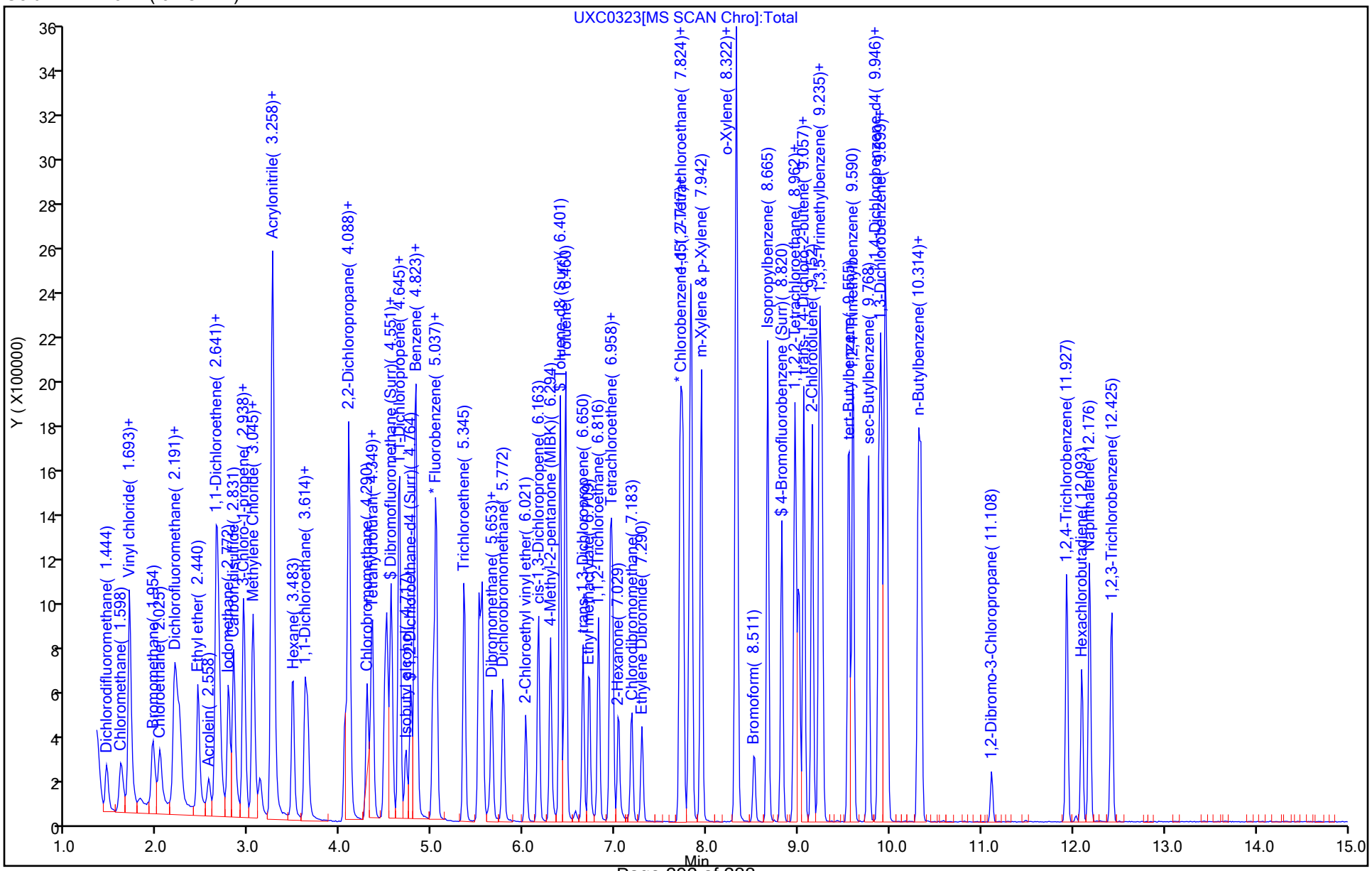
Report Date: 16-Jul-2020 08:54:00 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0323.D

Injection Date:	15-Jul-2020 10:50:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-442673/15 Calibration Date: 07/15/2020 13:23

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC0330.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2378	0.2232		0.00939	0.0100	-6.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3234		0.00986	0.0100	-1.4	50.0
Toluene-d8 (Surr)	Ave	1.242	1.230		0.00990	0.0100	-1.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4210		0.00968	0.0100	-3.2	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D
Lims ID: ICV A9
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 13:23:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-015
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.037	0.011	99	1288738	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	999150	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	537104	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	287642	10.0	9.39	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	416737	10.0	9.86	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1228732	10.0	9.90	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	90	420616	10.0	9.68	
25 Acetonitrile	41	2.926	2.914	0.012	99	297902	100.0	90.4	
37 Isopropyl ether	87	3.649	3.649	0.000	92	301746	10.0	10.0	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	551842	10.0	9.87	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	95	847868	10.0	9.63	
43 Ethyl acetate	43	4.135	4.135	0.000	100	552561	20.0	20.0	
44 Propionitrile	54	4.159	4.159	0.000	98	429304	100.0	100.9	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	2138583	100.0	97.1	
54 Isooctane	57	4.871	4.859	0.012	97	628050	10.0	8.77	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	92	725022	10.0	9.75	
59 n-Butanol	56	5.274	5.274	0.000	91	117373	250.0	233.0	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	313053	10.0	9.90	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	552597	20.0	20.4	
68 2-Nitropropane	41	5.973	5.974	-0.001	100	115141	20.0	17.7	
79 n-Butyl acetate	43	7.135	7.136	-0.001	97	342605	10.0	10.2	
83 1-Chlorohexane	91	7.705	7.705	0.000	94	336476	10.0	9.40	
92 Cyclohexanone	55	8.772	8.772	0.000	90	72825	100.0	84.9	
105 Pentachloroethane	167	9.578	9.579	-0.001	91	255800	20.0	16.7	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	1191077	10.0	10.0	
112 Benzyl chloride	126	10.100	10.100	0.000	99	67670	10.0	8.47	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	395153	10.0	9.08	
121 2-Methylnaphthalene	142	13.421	13.421	-0.001	93	734732	20.0	15.8	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	666017	20.0	16.0	

Reagents:

VMFASA9W_00284	Amount Added:	8.00	Units: uL	
vm50ss_stk_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00084	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

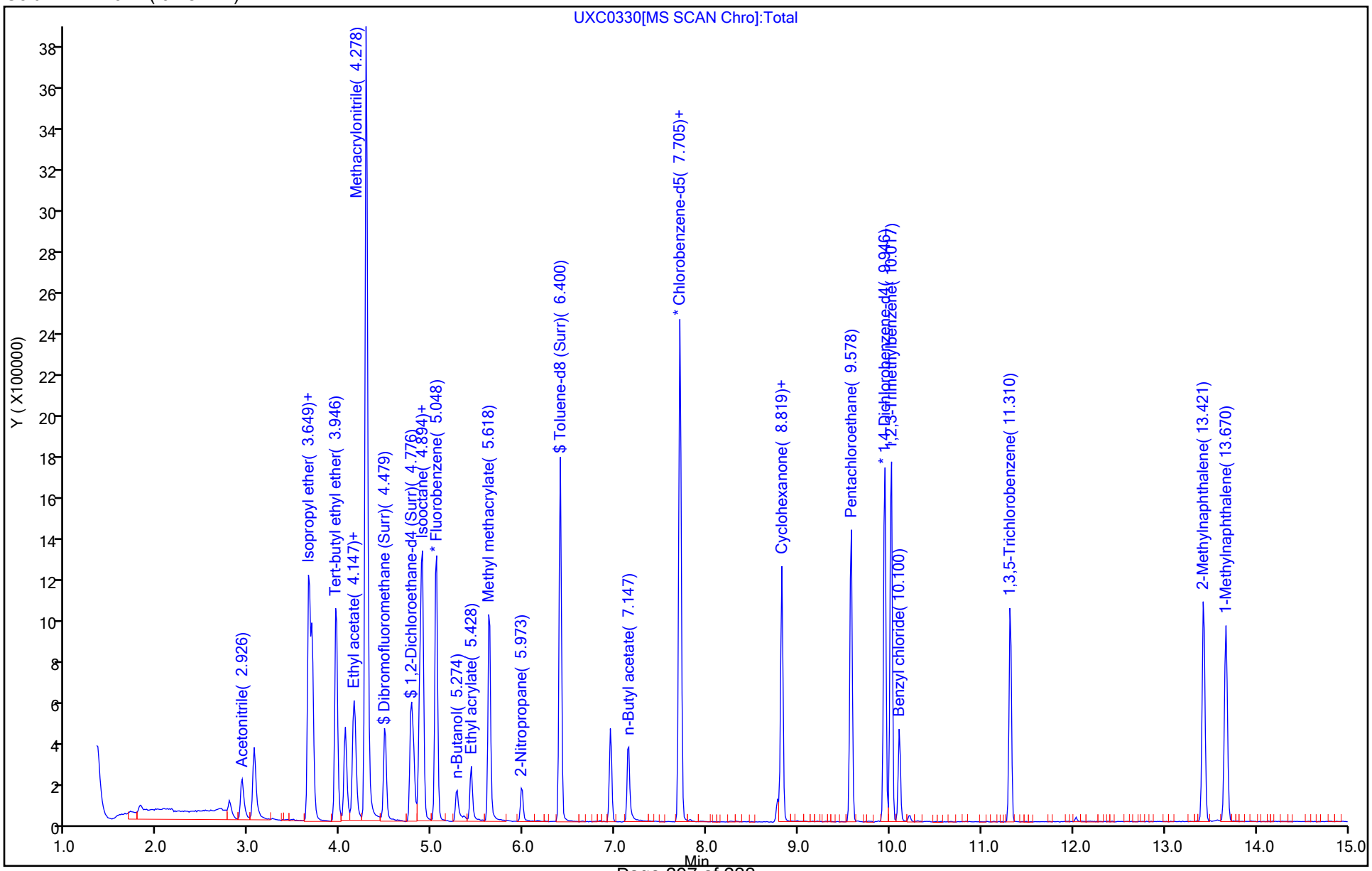
Report Date: 16-Jul-2020 08:54:05 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D

Injection Date:	15-Jul-2020 13:23:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	ICV A9			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: ICV 240-442673/15 Calibration Date: 07/15/2020 13:23

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 11:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 13:01

Lab File ID: UXC0330.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0256	0.0231		0.0904	0.100	-9.6	50.0
Isopropyl ether	Ave	0.2332	0.2341		0.0100	0.0100	0.4	50.0
2-Chloro-1,3-butadiene	Ave	0.4340	0.4282		0.00987	0.0100	-1.3	50.0
Tert-butyl ethyl ether	Ave	0.6833	0.6579		0.00963	0.0100	-3.7	50.0
Ethyl acetate	Ave	0.2146	0.2144		0.0200	0.0200	-0.1	50.0
Propionitrile	Ave	0.0330	0.0333		0.101	0.100	0.9	50.0
Methacrylonitrile	Ave	0.1709	0.1659		0.0971	0.100	-2.9	50.0
Tert-amyl methyl ether	Ave	0.5773	0.5626		0.00975	0.0100	-2.5	50.0
n-Butanol	Ave	0.0039	0.0036		0.233	0.250	-6.8	50.0
Ethyl acrylate	Ave	0.2454	0.2429		0.00990	0.0100	-1.0	50.0
Methyl methacrylate	Ave	0.2105	0.2144		0.0204	0.0200	1.9	50.0
2-Nitropropane	Ave	0.0505	0.0447		0.0177	0.0200	-11.5	50.0
n-Butyl acetate	Ave	0.2602	0.2658		0.0102	0.0100	2.2	50.0
1-Chlorohexane	Ave	0.3583	0.3368		0.00940	0.0100	-6.0	50.0
Cyclohexanone	Ave	0.0160	0.0136		0.0849	0.100	-15.1	50.0
Pentachloroethane	Qua		0.1280		0.0167	0.0200	-16.6	50.0
1,2,3-Trimethylbenzene	Ave	2.212	2.218		0.0100	0.0100	0.2	50.0
Benzyl chloride	Qua		0.1260		0.00847	0.0100	-15.3	50.0
1,3,5-Trichlorobenzene	Ave	0.8107	0.7357		0.00908	0.0100	-9.2	50.0
2-Methylnaphthalene	Ave	0.8665	0.6840		0.0158	0.0200	-21.1	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D
Lims ID: ICV A9
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 13:23:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0100056-015
Misc. Info.: C200715A-IC,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Jul-2020 08:53:57 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1046

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.037	0.011	99	1288738	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	87	999150	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	537104	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.479	0.000	93	287642	10.0	9.39	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.764	0.000	99	416737	10.0	9.86	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1228732	10.0	9.90	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	90	420616	10.0	9.68	
25 Acetonitrile	41	2.926	2.914	0.012	99	297902	100.0	90.4	
37 Isopropyl ether	87	3.649	3.649	0.000	92	301746	10.0	10.0	
38 2-Chloro-1,3-butadiene	53	3.685	3.685	0.000	95	551842	10.0	9.87	
39 Tert-butyl ethyl ether	59	3.946	3.946	0.000	95	847868	10.0	9.63	
43 Ethyl acetate	43	4.135	4.135	0.000	100	552561	20.0	20.0	
44 Propionitrile	54	4.159	4.159	0.000	98	429304	100.0	100.9	
45 Methacrylonitrile	41	4.278	4.278	0.000	93	2138583	100.0	97.1	
54 Isooctane	57	4.871	4.859	0.012	97	628050	10.0	8.77	
57 Tert-amyl methyl ether	73	4.894	4.894	0.000	92	725022	10.0	9.75	
59 n-Butanol	56	5.274	5.274	0.000	91	117373	250.0	233.0	
61 Ethyl acrylate	55	5.428	5.428	0.000	99	313053	10.0	9.90	
64 Methyl methacrylate	41	5.618	5.618	0.000	91	552597	20.0	20.4	
68 2-Nitropropane	41	5.973	5.974	-0.001	100	115141	20.0	17.7	
79 n-Butyl acetate	43	7.135	7.136	-0.001	97	342605	10.0	10.2	
83 1-Chlorohexane	91	7.705	7.705	0.000	94	336476	10.0	9.40	
92 Cyclohexanone	55	8.772	8.772	0.000	90	72825	100.0	84.9	
105 Pentachloroethane	167	9.578	9.579	-0.001	91	255800	20.0	16.7	
111 1,2,3-Trimethylbenzene	105	10.017	10.017	0.000	99	1191077	10.0	10.0	
112 Benzyl chloride	126	10.100	10.100	0.000	99	67670	10.0	8.47	
116 1,3,5-Trichlorobenzene	180	11.310	11.310	0.000	97	395153	10.0	9.08	
121 2-Methylnaphthalene	142	13.421	13.421	-0.001	93	734732	20.0	15.8	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	666017	20.0	16.0	

Reagents:

VMFASA9W_00284	Amount Added:	8.00	Units: uL	
vm50ss_stk_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00084	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00176	Amount Added:	0.00	Units:	Run Reagent

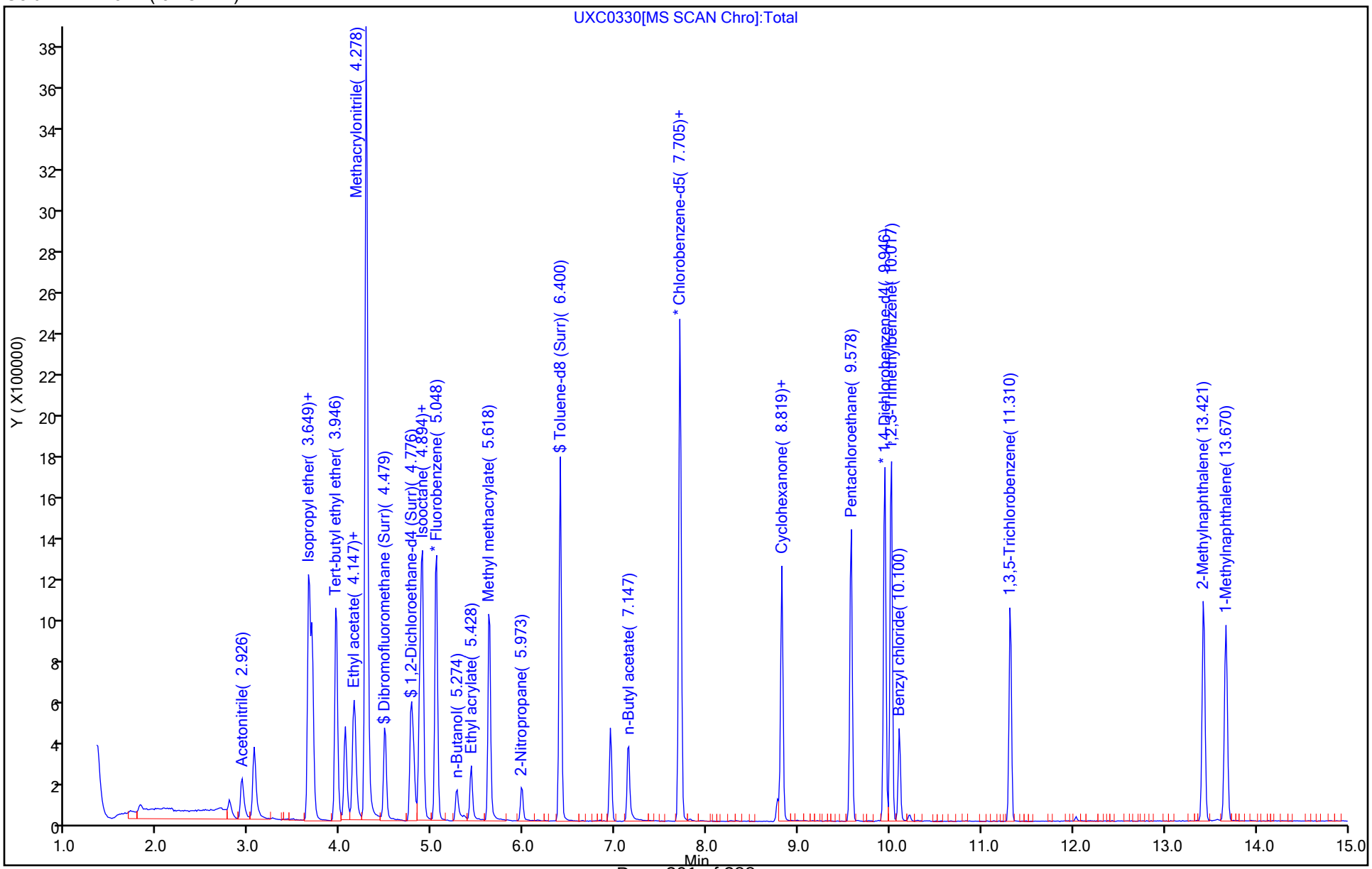
Report Date: 16-Jul-2020 08:54:05 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0330.D

Injection Date:	15-Jul-2020 13:23:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	ICV A9			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: CCVIS 240-461048/2 Calibration Date: 11/15/2020 07:53

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3779.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2742	0.2432		0.00887	0.0100	-11.3	50.0
Chloromethane	Ave	0.3275	0.3539	0.1000	0.0108	0.0100	8.0	50.0
Vinyl chloride	Ave	0.3246	0.2881		0.00887	0.0100	-11.3	20.0
Butadiene	Ave	0.3702	0.3274		0.00884	0.0100	-11.6	50.0
Bromomethane	Ave	0.2730	0.1668		0.00611	0.0100	-38.9	50.0
Chloroethane	Ave	0.2543	0.1585		0.00623	0.0100	-37.7	50.0
Dichlorofluoromethane	Ave	0.6149	0.4663		0.00758	0.0100	-24.2	50.0
Trichlorofluoromethane	Ave	0.5362	0.3086		0.00575	0.0100	-42.5	50.0
Ethyl ether	Ave	0.2742	0.3053		0.0111	0.0100	11.4	50.0
Acrolein	Ave	0.0216	0.0116		0.0268	0.0500	-46.4	50.0
1,1-Dichloroethene	Ave	0.3008	0.2461		0.00818	0.0100	-18.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2269	0.1685		0.00743	0.0100	-25.7	50.0
Acetone	Lin1		0.0276		0.0191	0.0200	-4.4	50.0
Iodomethane	Ave	0.5331	0.3417		0.00641	0.0100	-35.9	50.0
Carbon disulfide	Ave	0.8326	0.5711		0.00686	0.0100	-31.4	50.0
3-Chloro-1-propene	Ave	0.1627	0.1569		0.00964	0.0100	-3.6	50.0
Methyl acetate	Ave	0.1806	0.2436		0.0270	0.0200	34.8	50.0
Methylene Chloride	Ave	0.2637	0.2824		0.0107	0.0100	7.1	50.0
2-Methyl-2-propanol	Ave	0.0139	0.0104		0.0749	0.100	-25.1	50.0
Acrylonitrile	Ave	0.0866	0.1071		0.124	0.100	23.6	50.0
Methyl tert-butyl ether	Ave	0.6972	0.6430		0.00922	0.0100	-7.8	50.0
trans-1,2-Dichloroethene	Ave	0.2750	0.2502		0.00910	0.0100	-9.0	50.0
Hexane	Ave	0.0473	0.0425		0.00899	0.0100	-10.1	20.0
1,1-Dichloroethane	Ave	0.4575	0.4753	0.1000	0.0104	0.0100	3.9	50.0
Vinyl acetate	Ave	0.4462	0.4074		0.00913	0.0100	-8.7	50.0
2,2-Dichloropropane	Ave	0.0712	0.0550		0.00772	0.0100	-22.8	50.0
2-Butanone (MEK)	Ave	0.0285	0.0279		0.0196	0.0200	-2.0	50.0
cis-1,2-Dichloroethene	Ave	0.2862	0.2647		0.00925	0.0100	-7.5	50.0
Chlorobromomethane	Ave	0.1404	0.1195		0.00851	0.0100	-14.9	50.0
Tetrahydrofuran	Ave	0.0672	0.0759		0.0226	0.0200	12.9	50.0
Chloroform	Ave	0.4591	0.4601		0.0100	0.0100	0.2	20.0
1,1,1-Trichloroethane	Ave	0.3785	0.3046		0.00805	0.0100	-19.5	50.0
Cyclohexane	Ave	0.3628	0.3586		0.00989	0.0100	-1.1	50.0
1,1-Dichloropropene	Ave	0.3697	0.3389		0.00917	0.0100	-8.3	50.0
Carbon tetrachloride	Ave	0.3156	0.2291		0.00726	0.0100	-27.4	50.0
Isobutyl alcohol	Ave	0.0055	0.0077		0.348	0.250	39.0	50.0
Benzene	Ave	1.088	1.159		0.0107	0.0100	6.5	50.0
1,2-Dichloroethane	Ave	0.3993	0.4210		0.0105	0.0100	5.4	50.0
n-Heptane	Ave	0.0437	0.0304		0.00696	0.0100	-30.4	50.0
Trichloroethene	Ave	0.2928	0.2306		0.00788	0.0100	-21.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: CCVIS 240-461048/2 Calibration Date: 11/15/2020 07:53

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3779.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2981	0.2472		0.00829	0.0100	-17.1	50.0
1,2-Dichloropropane	Ave	0.2508	0.2754		0.0110	0.0100	9.8	20.0
Dibromomethane	Ave	0.1527	0.1472		0.00964	0.0100	-3.6	50.0
1,4-Dioxane	Ave	0.0015	0.0014		0.180	0.200	-9.9	50.0
Dichlorobromomethane	Ave	0.2974	0.2843		0.00956	0.0100	-4.4	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1465		0.0199	0.0200	-0.4	50.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3314		0.00914	0.0100	-8.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2138	0.2422		0.0227	0.0200	13.3	50.0
Toluene	Ave	1.444	1.701		0.0118	0.0100	17.8	20.0
trans-1,3-Dichloropropene	Ave	0.4061	0.4249		0.0105	0.0100	4.6	50.0
Ethyl methacrylate	Ave	0.3350	0.3913		0.0117	0.0100	16.8	50.0
1,1,2-Trichloroethane	Ave	0.2571	0.3390		0.0132	0.0100	31.9	50.0
Tetrachloroethene	Ave	0.2653	0.2396		0.00903	0.0100	-9.7	50.0
1,3-Dichloropropane	Ave	0.4791	0.6308		0.0132	0.0100	31.7	50.0
2-Hexanone	Ave	0.1792	0.2397		0.0268	0.0200	33.8	50.0
Chlorodibromomethane	Lin1		0.2415		0.00846	0.0100	-15.4	50.0
Ethylene Dibromide	Ave	0.2655	0.3001		0.0113	0.0100	13.0	50.0
Chlorobenzene	Ave	0.9216	0.9768	0.3000	0.0106	0.0100	6.0	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2973	0.2950		0.00992	0.0100	-0.8	50.0
Ethylbenzene	Ave	0.4739	0.5038		0.0106	0.0100	6.3	20.0
m-Xylene & p-Xylene	Ave	1.171	1.313		0.0112	0.0100	12.1	50.0
o-Xylene	Ave	0.5879	0.5854		0.00996	0.0100	-0.4	50.0
Styrene	Ave	0.9791	1.061		0.0108	0.0100	8.4	50.0
Bromoform	Qua		0.1176	0.1000	0.00774	0.0100	-22.6	50.0
Isopropylbenzene	Ave	1.403	1.322		0.00942	0.0100	-5.8	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5827	0.8771	0.3000	0.0151	0.0100	50.5*	50.0
Bromobenzene	Ave	0.6639	0.7048		0.0106	0.0100	6.2	50.0
1,2,3-Trichloropropane	Ave	0.2016	0.2762		0.0137	0.0100	37.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1777	0.2411		0.0136	0.0100	35.7	50.0
N-Propylbenzene	Ave	0.6406	0.7124		0.0111	0.0100	11.2	50.0
2-Chlorotoluene	Ave	0.6106	0.6766		0.0111	0.0100	10.8	50.0
1,3,5-Trimethylbenzene	Ave	1.964	2.252		0.0115	0.0100	14.6	50.0
4-Chlorotoluene	Ave	2.074	2.757		0.0133	0.0100	32.9	50.0
tert-Butylbenzene	Ave	1.613	1.549		0.00960	0.0100	-4.0	50.0
1,2,4-Trimethylbenzene	Ave	2.051	2.411		0.0118	0.0100	17.5	50.0
sec-Butylbenzene	Ave	2.088	2.207		0.0106	0.0100	5.7	50.0
1,3-Dichlorobenzene	Ave	1.225	1.314		0.0107	0.0100	7.2	50.0
4-Isopropyltoluene	Ave	1.923	1.912		0.00994	0.0100	-0.6	50.0
1,4-Dichlorobenzene	Ave	1.325	1.422		0.0107	0.0100	7.3	50.0
n-Butylbenzene	Ave	1.513	1.499		0.00991	0.0100	-0.9	50.0
1,2-Dichlorobenzene	Ave	1.260	1.332		0.0106	0.0100	5.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Lab Sample ID: CCVIS 240-461048/2 Calibration Date: 11/15/2020 07:53

Instrument ID: A3UX15 Calib Start Date: 07/15/2020 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/15/2020 10:29

Lab File ID: UXC3779.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0988	0.0791		0.00801	0.0100	-19.9	50.0
1,2,4-Trichlorobenzene	Ave	0.6764	0.4418		0.00653	0.0100	-34.7	50.0
Hexachlorobutadiene	Qua		0.1455		0.00479	0.0100	-52.1*	50.0
Naphthalene	Ave	1.737	1.360		0.00783	0.0100	-21.7	50.0
1,2,3-Trichlorobenzene	Ave	0.6135	0.4542		0.00740	0.0100	-26.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2378	0.1887		0.00794	0.0100	-20.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3281	0.3036		0.00925	0.0100	-7.5	50.0
Toluene-d8 (Surr)	Ave	1.242	1.282		0.0103	0.0100	3.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4351	0.4513		0.0104	0.0100	3.7	50.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3779.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Nov-2020 07:53:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-002
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Sublist: chrom-8260_15*sub83

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:08 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	2338180	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	89	1568080	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	795428	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.491	4.491	0.000	92	441197	10.0	7.94	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	709901	10.0	9.25	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	2010884	10.0	10.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	80	707707	10.0	10.4	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	568707	10.0	8.87	
10 Chloromethane	50	1.598	1.598	0.000	99	827389	10.0	10.8	
11 Vinyl chloride	62	1.693	1.693	0.000	98	673543	10.0	8.87	
12 Butadiene	54	1.704	1.704	0.000	96	765438	10.0	8.84	
13 Bromomethane	94	1.965	1.965	0.000	92	390101	10.0	6.11	
14 Chloroethane	64	2.037	2.037	0.000	99	370686	10.0	6.23	
15 Dichlorofluoromethane	67	2.191	2.191	0.000	97	1090312	10.0	7.58	
16 Trichlorofluoromethane	101	2.238	2.238	0.000	99	721467	10.0	5.75	
17 Ethyl ether	59	2.452	2.452	0.000	94	713949	10.0	11.1	
18 Acrolein	56	2.570	2.570	0.000	99	135295	50.0	26.8	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	575442	10.0	8.18	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.665	0.000	95	393995	10.0	7.43	
21 Acetone	58	2.689	2.689	0.000	99	129231	20.0	19.1	
22 Iodomethane	142	2.784	2.784	0.000	99	798985	10.0	6.41	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1335380	10.0	6.86	
26 3-Chloro-1-propene	76	2.950	2.950	0.000	86	366855	10.0	9.64	
27 Methyl acetate	43	2.961	2.961	0.000	99	1139135	20.0	27.0	
28 Methylene Chloride	84	3.056	3.056	0.000	98	660214	10.0	10.7	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	87	243791	100.0	74.9	
30 Acrylonitrile	53	3.258	3.258	0.000	99	2504369	100.0	123.6	
31 Methyl tert-butyl ether	73	3.270	3.270	0.000	96	1503469	10.0	9.22	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	97	585079	10.0	9.10	
34 Hexane	86	3.483	3.483	0.000	94	99467	10.0	8.99	
35 1,1-Dichloroethane	63	3.626	3.626	0.000	97	1111360	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	3.649	3.649	0.000	98	952563	10.0	9.13	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	130532	20.0	19.6	
41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	86	618866	10.0	9.25	
42 2,2-Dichloropropane	97	4.100	4.100	0.000	65	128530	10.0	7.72	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	279371	10.0	8.51	
47 Tetrahydrofuran	42	4.337	4.337	0.000	88	354724	20.0	22.6	
48 Chloroform	83	4.349	4.349	0.000	94	1075680	10.0	10.0	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	96	712243	10.0	8.05	
50 Cyclohexane	56	4.562	4.562	0.000	95	838577	10.0	9.89	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	535724	10.0	7.26	
51 1,1-Dichloropropene	75	4.645	4.645	0.000	91	792367	10.0	9.17	
53 Isobutyl alcohol	41	4.717	4.717	0.000	88	449639	250.0	347.6	
55 Benzene	78	4.823	4.823	0.000	97	2709880	10.0	10.7	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	984382	10.0	10.5	
58 n-Heptane	100	5.013	5.013	0.000	90	71193	10.0	6.96	
60 Trichloroethene	130	5.357	5.357	0.000	96	539244	10.0	7.88	
62 Methylcyclohexane	83	5.523	5.523	0.000	94	577969	10.0	8.29	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	93	643863	10.0	11.0	
65 Dibromomethane	93	5.653	5.653	0.000	91	344258	10.0	9.64	
66 1,4-Dioxane	88	5.665	5.665	0.000	30	63695	200.0	180.3	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	664775	10.0	9.56	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	92	685296	20.0	19.9	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	91	774901	10.0	9.14	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1132598	20.0	22.7	
72 Toluene	91	6.460	6.460	0.000	97	2667424	10.0	11.8	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	99	666239	10.0	10.5	
74 Ethyl methacrylate	69	6.721	6.721	0.000	90	613564	10.0	11.7	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	531657	10.0	13.2	
76 Tetrachloroethene	164	6.946	6.946	0.000	89	375641	10.0	9.03	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	96	989203	10.0	13.2	
78 2-Hexanone	43	7.041	7.041	0.000	99	751783	20.0	26.8	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	378761	10.0	8.46	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	470505	10.0	11.3	
84 Chlorobenzene	112	7.740	7.740	0.000	94	1531689	10.0	10.6	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	462612	10.0	9.92	
86 Ethylbenzene	106	7.835	7.835	0.000	99	789998	10.0	10.6	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	2058324	10.0	11.2	
88 o-Xylene	106	8.322	8.322	0.000	98	917968	10.0	9.96	
89 Styrene	104	8.333	8.333	0.000	94	1664246	10.0	10.8	
90 Bromoform	173	8.523	8.523	0.000	94	184476	10.0	7.74	
91 Isopropylbenzene	105	8.665	8.665	0.000	96	2072548	10.0	9.42	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	697646	10.0	15.1	
95 Bromobenzene	156	8.974	8.974	0.000	97	560633	10.0	10.6	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	77	191766	10.0	13.6	
96 1,2,3-Trichloropropane	110	9.009	9.009	0.000	90	219733	10.0	13.7	
98 N-Propylbenzene	120	9.069	9.069	0.000	99	566686	10.0	11.1	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	538196	10.0	11.1	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	93	1790907	10.0	11.5	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2193214	10.0	13.3	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1232125	10.0	9.60	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1917605	10.0	11.8	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1755390	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	9.887	9.887	0.000	96	1045089	10.0	10.7	
109 4-Isopropyltoluene	119	9.911	9.911	0.000	97	1520594	10.0	9.94	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	91	1130822	10.0	10.7	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1192334	10.0	9.91	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	94	1059410	10.0	10.6	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	82	62919	10.0	8.01	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	93	351416	10.0	6.53	
118 Hexachlorobutadiene	225	12.104	12.104	0.000	93	115764	10.0	4.79	
119 Naphthalene	128	12.187	12.187	0.000	98	1081650	10.0	7.83	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	94	361297	10.0	7.40	
S 129 Xylenes, Total	106				0		20.0	21.2	
S 130 Total BTEX	1				0		50.0	54.2	
S 131 Trihalomethanes, Total	1				0		40.0	35.8	

Reagents:

VMAROLISTDW_00368	Amount Added:	8.00	Units: uL	
VMRGAS_00362	Amount Added:	8.00	Units: uL	
VMRPRIMW_00411	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

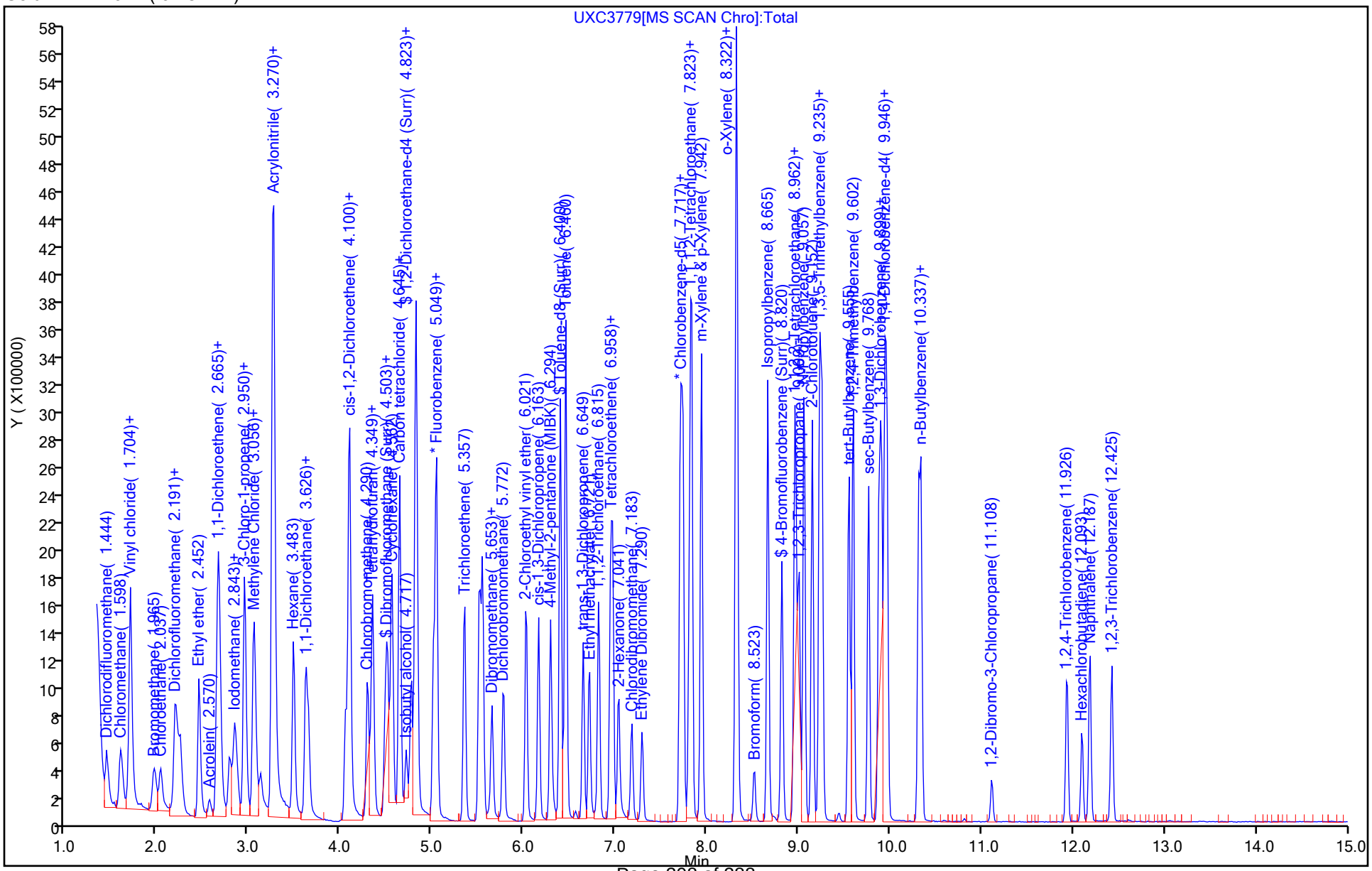
Report Date: 16-Nov-2020 07:51:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3779.D

Injection Date:	15-Nov-2020 07:53:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\BFB723B.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	23-Jul-2020 10:40:30	ALS Bottle#:	30	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	J200723A-IC,BFBUX11,,43582				
Operator ID:		Instrument ID:	A3UX11		
Method:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\8260_11.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	24-Jul-2020 11:49:54	Calib Date:	23-Jul-2020 18:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1018				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.386	4.386	0.000	0	427077	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

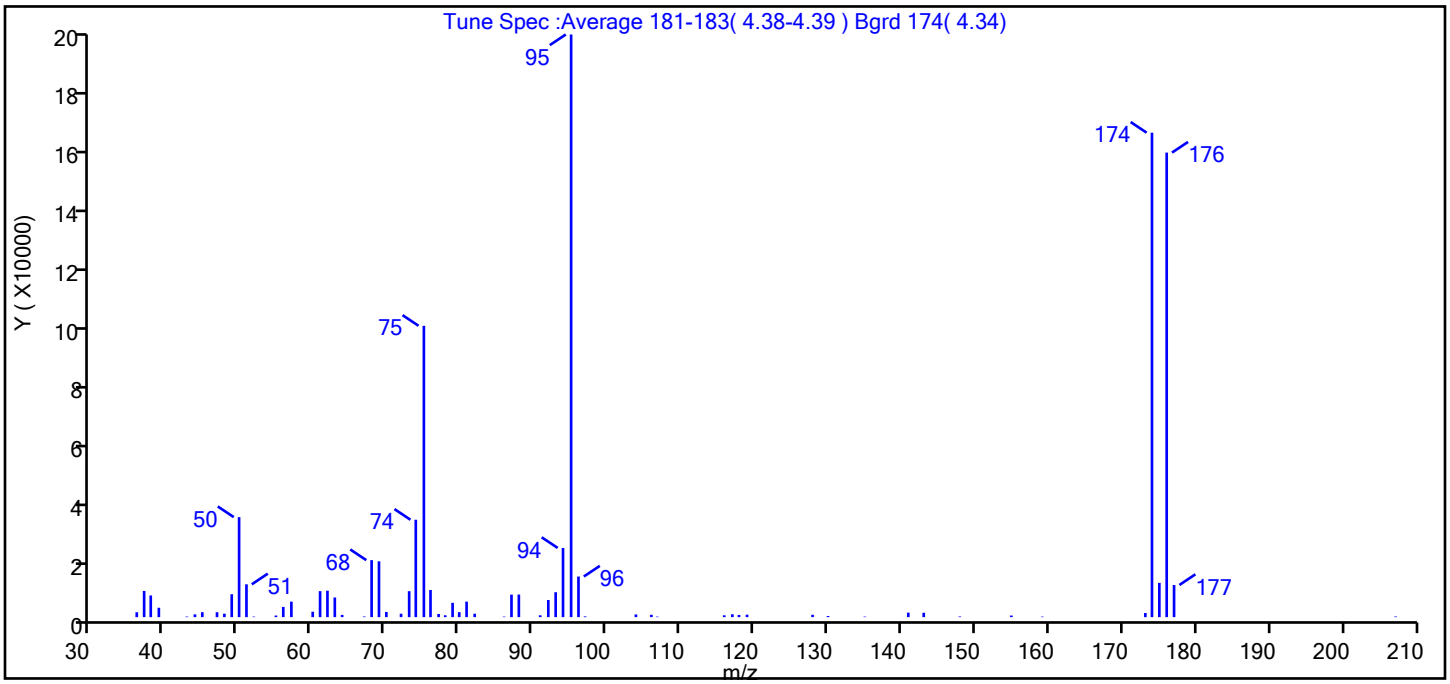
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\BFB723B.D				
Injection Date:	23-Jul-2020 10:40:30	Instrument ID:	A3UX11		
Lims ID:	BFB				
Client ID:					
Operator ID:		ALS Bottle#:	30	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	83.1
175	5 to 9% of m/z 174	5.9 (7.1)
176	Greater than 95% but less than 101% of m/z 174	79.7 (95.9)
177	5 to 9% of m/z 176	5.5 (6.9)

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\BFB723B.D\8260_11.rslt\spectra.d
Injection Date: 23-Jul-2020 10:40:30
Spectrum: Tune Spec :Average 181-183(4.38-4.39) Bgrd 174(4.34)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1626	61.00	8606	81.00	5131	118.00	728
37.00	8677	62.00	8767	82.00	1127	119.00	819
38.00	7174	63.00	6512	86.00	178	128.00	785
39.00	3104	64.00	734	87.00	7453	130.00	365
43.00	195	67.00	212	88.00	7482	135.00	174
44.00	925	68.00	18872	91.00	613	141.00	1487
45.00	1632	69.00	18480	92.00	5671	143.00	1453
47.00	1632	70.00	1731	93.00	8254	148.00	215
48.00	1141	72.00	1140	94.00	22904	155.00	534
49.00	7590	73.00	8598	95.00	192896	159.00	173
50.00	33112	74.00	32240	96.00	13442	173.00	1374
51.00	10869	75.00	96448	97.00	247	174.00	160384
52.00	179	76.00	8988	104.00	893	175.00	11349
55.00	536	77.00	1051	106.00	781	176.00	153792
56.00	3383	78.00	614	107.00	168	177.00	10646
57.00	5134	79.00	4747	116.00	612	207.00	216
60.00	1800	80.00	1652	117.00	949		

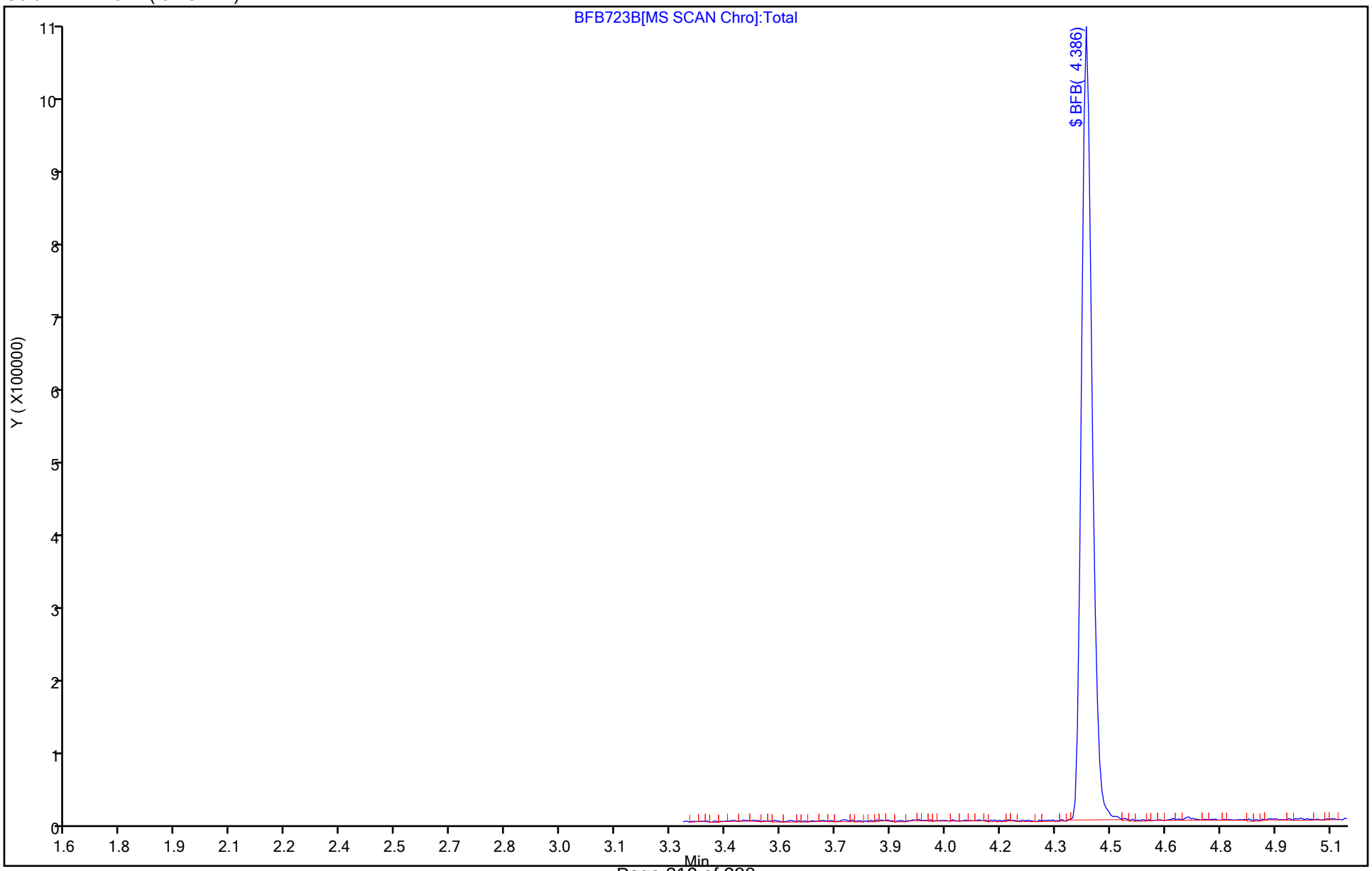
Report Date: 24-Jul-2020 11:49:55 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\BFB723B.D

Injection Date:	23-Jul-2020 10:40:30	Instrument ID:	A3UX11	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\BFB1115B.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Nov-2020 07:37:30 ALS Bottle#: 64 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: J201115A,BFBUX11,,43582
Operator ID: Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:13 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.386	4.386	0.000	0	328173	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

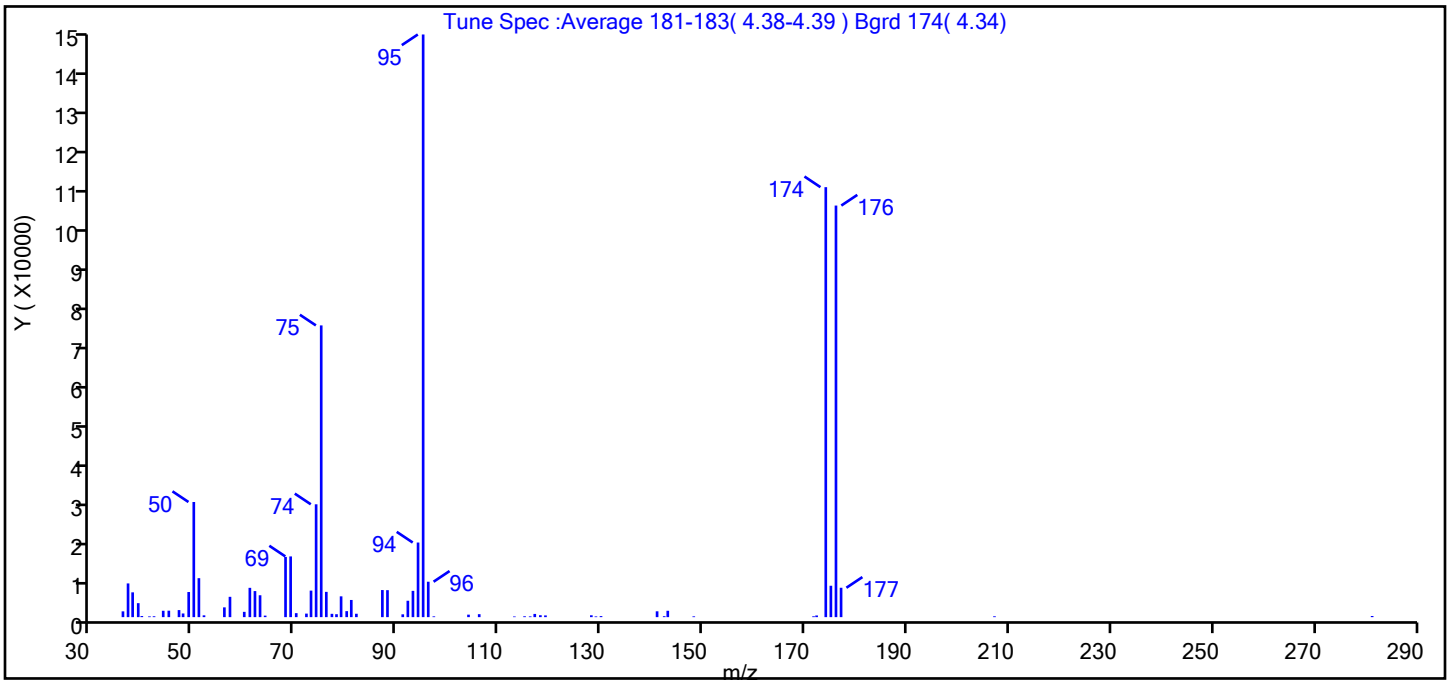
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\BFB1115B.D
Injection Date: 15-Nov-2020 07:37:30 Instrument ID: A3UX11
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 64 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_11 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.8
75	30 to 60% of m/z 95	50.1
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	73.8
175	5 to 9% of m/z 174	5.4 (7.3)
176	Greater than 95% but less than 101% of m/z 174	70.6 (95.7)
177	5 to 9% of m/z 176	5.0 (7.1)

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\BFB1115B.D\8260_11.rslt\spectra.d
Injection Date: 15-Nov-2020 07:37:30
Spectrum: Tune Spec :Average 181-183(4.38-4.39) Bgrd 174(4.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1480	60.00	1352	81.00	4385	118.00	490
37.00	8607	61.00	7481	82.00	865	119.00	440
38.00	6330	62.00	6653	87.00	6916	128.00	475
39.00	3569	63.00	5586	88.00	6888	129.00	183
40.00	280	64.00	388	91.00	722	130.00	267
41.00	191	68.00	15371	92.00	4183	141.00	1493
42.00	222	69.00	15500	93.00	6709	142.00	237
44.00	1628	70.00	1019	94.00	19048	143.00	1626
45.00	1649	72.00	904	95.00	148736	148.00	200
47.00	1801	73.00	6773	96.00	9042	172.00	213
48.00	939	74.00	28808	97.00	197	172.00	428
49.00	6412	75.00	74472	104.00	637	174.00	109760
50.00	29392	76.00	6452	106.00	757	175.00	8012
51.00	9946	77.00	847	113.00	169	176.00	105064
52.00	462	78.00	751	115.00	220	177.00	7503
56.00	2498	79.00	5311	116.00	188	207.00	216
57.00	5187	80.00	1534	117.00	821	281.00	291

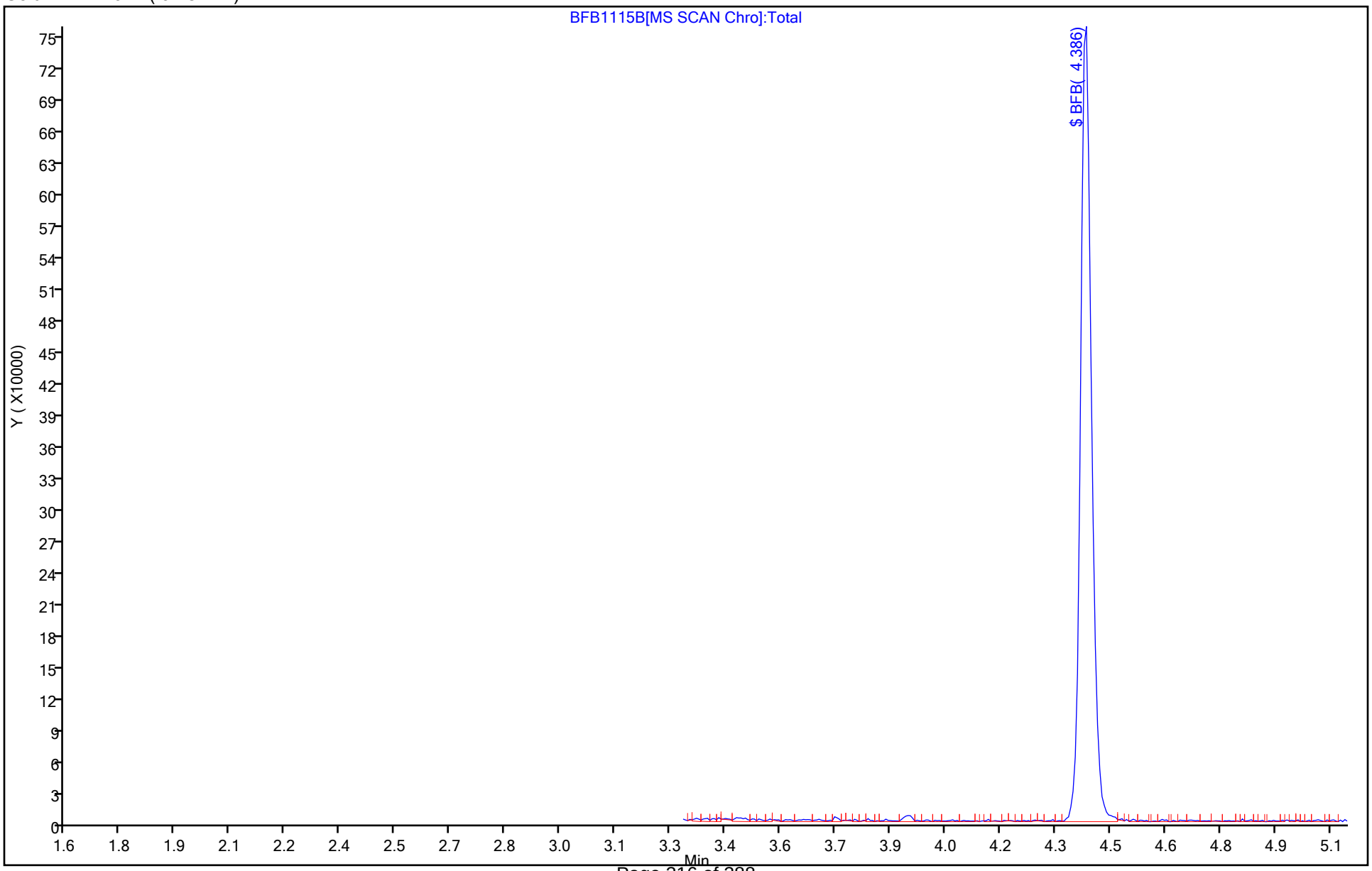
Report Date: 16-Nov-2020 07:31:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\BFB1115B.D

Injection Date:	15-Nov-2020 07:37:30	Instrument ID:	A3UX11	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	64
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	15-Jul-2020 07:58:30	ALS Bottle#:	10	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	C200715A-IC,BFBUX15,,43582				
Operator ID:		Instrument ID:	A3UX15		
Method:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\8260_15.m				
Limit Group:	MSV 8260B ICAL				
Last Update:	16-Jul-2020 08:53:15	Calib Date:	15-Jul-2020 13:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1046				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.583	3.583	0.000	0	211098	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

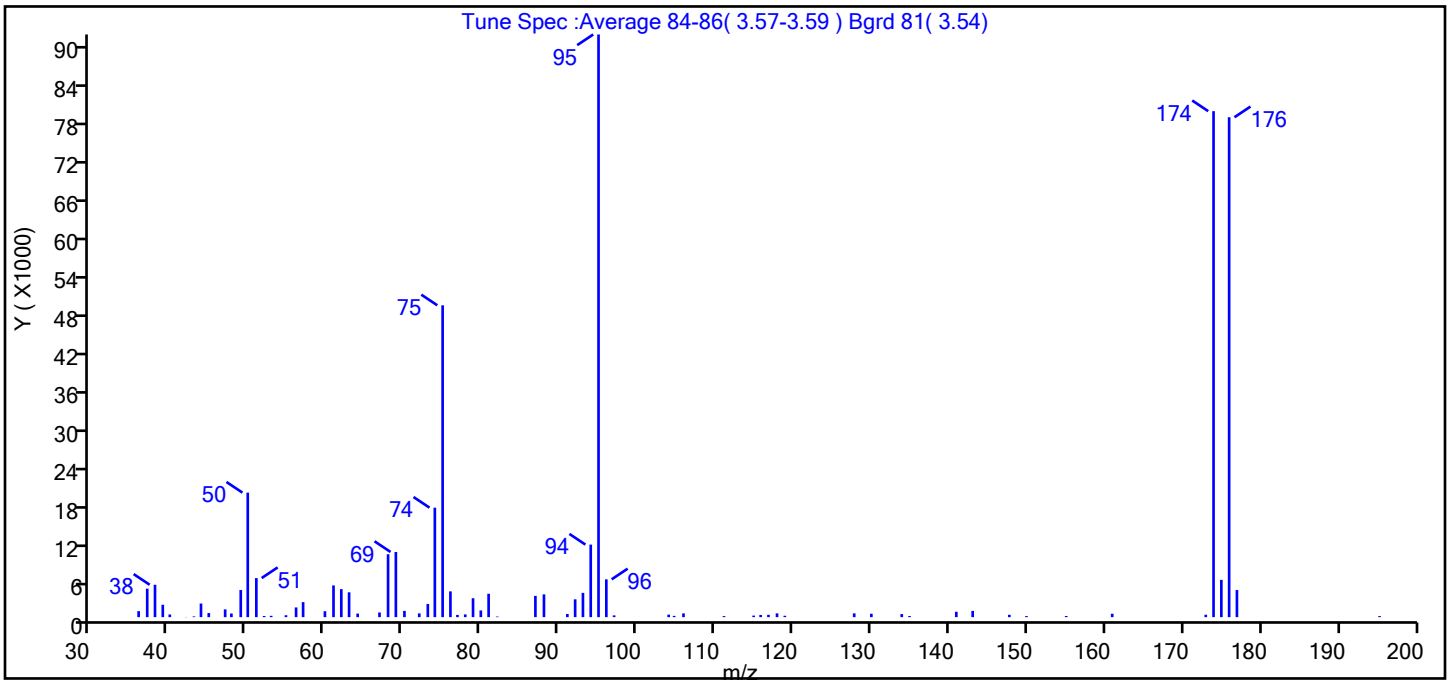
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D
Injection Date: 15-Jul-2020 07:58:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	53.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	86.8
175	5 to 9% of m/z 174	6.4 (7.4)
176	Greater than 95% but less than 101% of m/z 174	85.8 (98.8)
177	5 to 9% of m/z 176	4.7 (5.4)

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D\8260_15.rslt\spectra.d
Injection Date: 15-Jul-2020 07:58:30
Spectrum: Tune Spec :Average 84-86(3.57-3.59) Bgrd 81(3.54)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	948	60.00	936	82.00	96	128.00	596
37.00	4497	61.00	5006	87.00	3358	130.00	536
38.00	5111	62.00	4423	88.00	3592	134.00	484
39.00	1952	63.00	3923	91.00	498	135.00	172
40.00	422	64.00	563	92.00	2815	141.00	848
42.00	26	67.00	735	93.00	3831	143.00	982
43.00	113	68.00	9929	94.00	11452	148.00	371
44.00	2149	69.00	10290	95.00	91976	150.00	169
45.00	649	70.00	984	96.00	5968	155.00	181
47.00	1229	72.00	591	97.00	280	161.00	538
48.00	577	73.00	2083	104.00	394	173.00	379
49.00	4280	74.00	17280	105.00	201	174.00	79872
50.00	19656	75.00	49224	106.00	594	175.00	5887
51.00	6168	76.00	4068	111.00	167	176.00	78912
52.00	181	77.00	348	115.00	245	177.00	4279
53.00	210	78.00	433	116.00	343	195.00	167
55.00	303	79.00	2985	117.00	369		
56.00	1534	80.00	1059	118.00	596		
57.00	2373	81.00	3688	119.00	219		

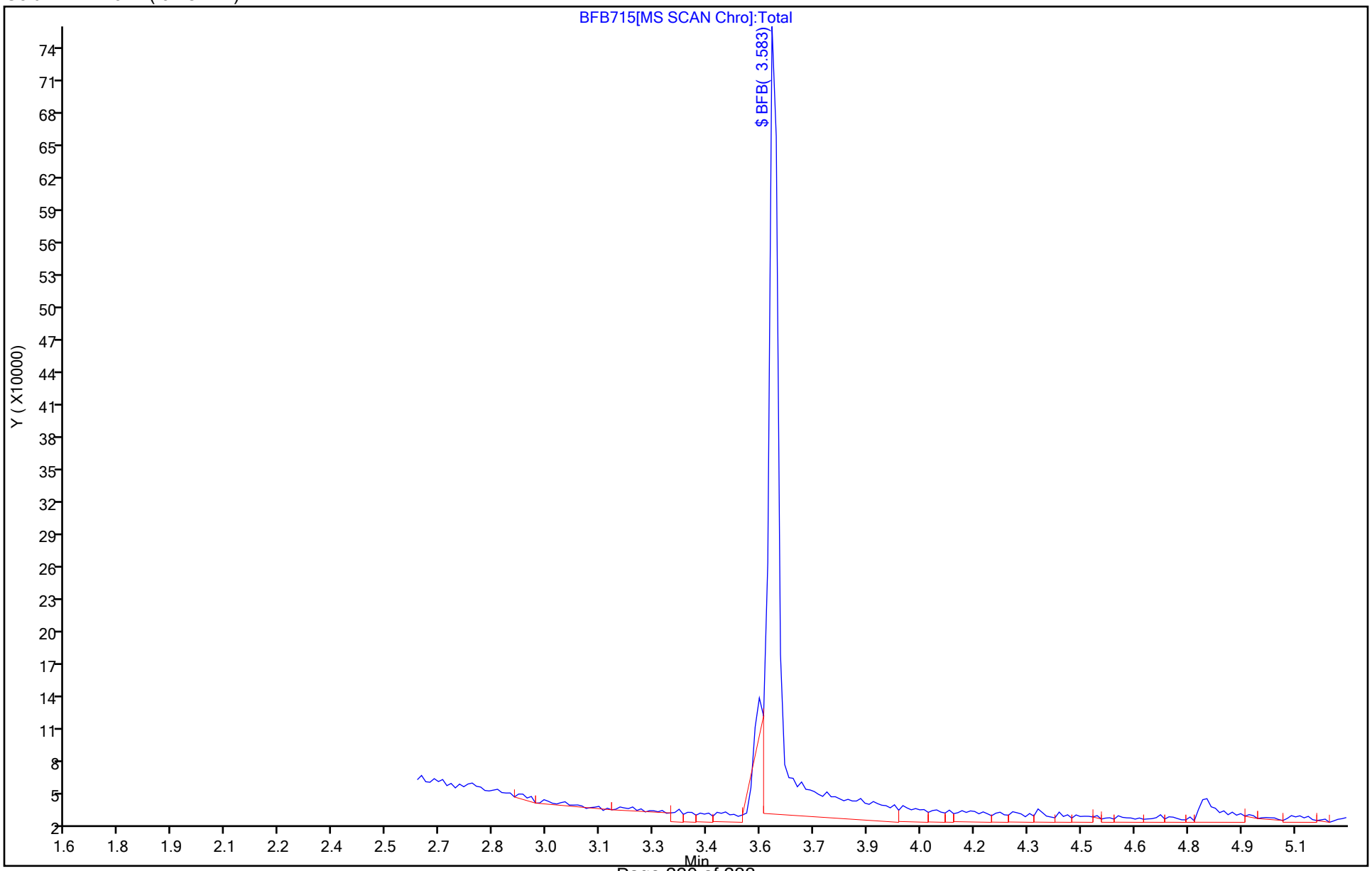
Report Date: 16-Jul-2020 08:53:15 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\BFB715.D

Injection Date:	15-Jul-2020 07:58:30	Instrument ID:	A3UX15	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Nov-2020 07:23:30 ALS Bottle#: 30 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C201115A,BFBUX15,,43582
Operator ID: Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:07 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.583	3.583	0.000	0	293478	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

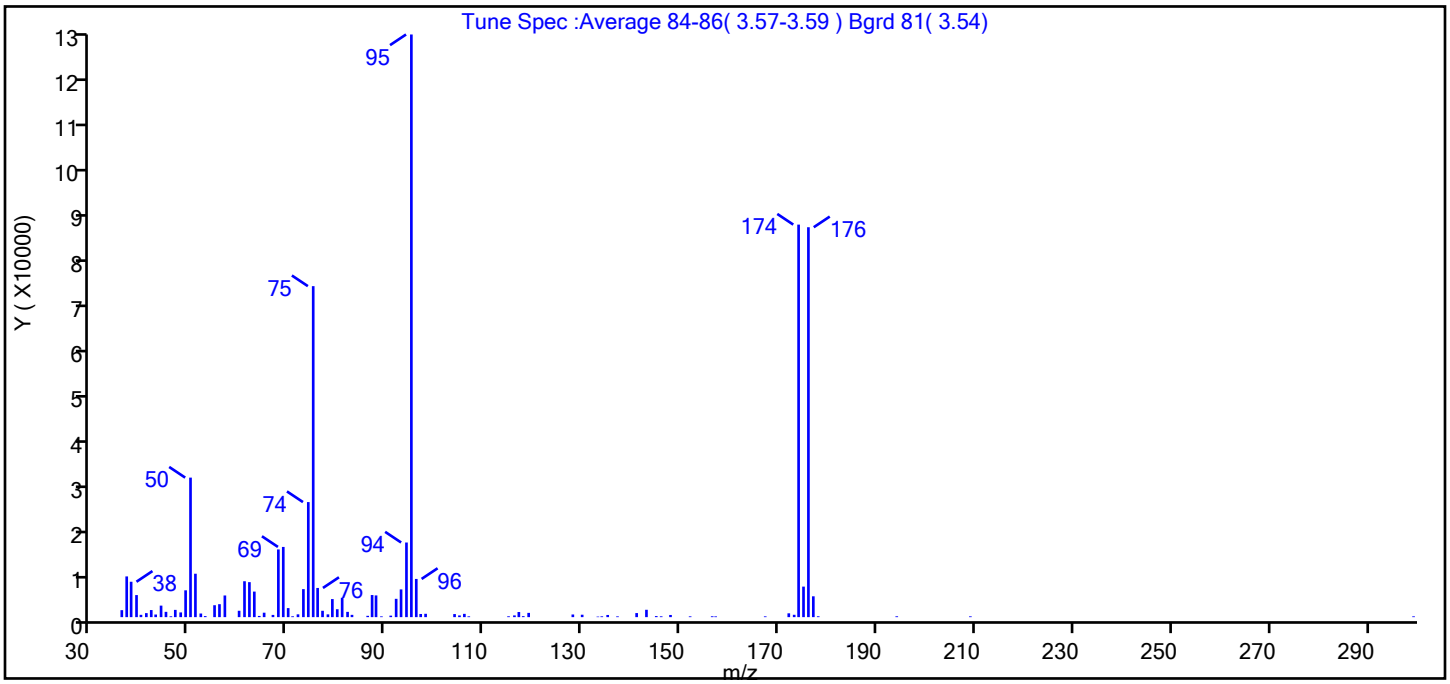
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D
Injection Date: 15-Nov-2020 07:23:30 Instrument ID: A3UX15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 30 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_15 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.9
75	30 to 60% of m/z 95	56.8
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	67.4
175	5 to 9% of m/z 174	5.2 (7.8)
176	Greater than 95% but less than 101% of m/z 174	66.9 (99.3)
177	5 to 9% of m/z 176	3.6 (5.3)

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D\8260_15.rslt\spectra.d
Injection Date: 15-Nov-2020 07:23:30
Spectrum: Tune Spec :Average 84-86(3.57-3.59) Bgrd 81(3.54)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1553	62.00	7779	88.00	4828	135.00	485
37.00	9053	63.00	5680	89.00	169	137.00	170
38.00	7869	64.00	268	91.00	332	141.00	907
39.00	4906	65.00	988	92.00	4073	143.00	1636
40.00	515	67.00	495	93.00	6165	145.00	237
41.00	895	68.00	15049	94.00	16592	146.00	181
42.00	1577	69.00	15608	95.00	129520	148.00	483
43.00	582	70.00	2011	96.00	8493	152.00	175
44.00	2561	71.00	190	97.00	703	156.00	191
45.00	1178	72.00	624	98.00	744	157.00	166
46.00	185	73.00	6227	104.00	686	167.00	172
47.00	1614	74.00	25576	105.00	377	172.00	850
48.00	1049	75.00	73576	106.00	731	173.00	524
49.00	5963	76.00	6490	107.00	177	174.00	87256
50.00	31016	77.00	1414	115.00	188	175.00	6788
51.00	9651	78.00	618	116.00	387	176.00	86672
52.00	808	79.00	4016	117.00	1138	177.00	4632
53.00	229	80.00	1760	118.00	220	178.00	186
55.00	2649	81.00	4302	119.00	948	194.00	189
56.00	2881	82.00	1173	128.00	592	209.00	175
57.00	4817	83.00	510	130.00	540	299.00	176
60.00	1416	86.00	294	133.00	120		
61.00	7978	87.00	4912	134.00	179		

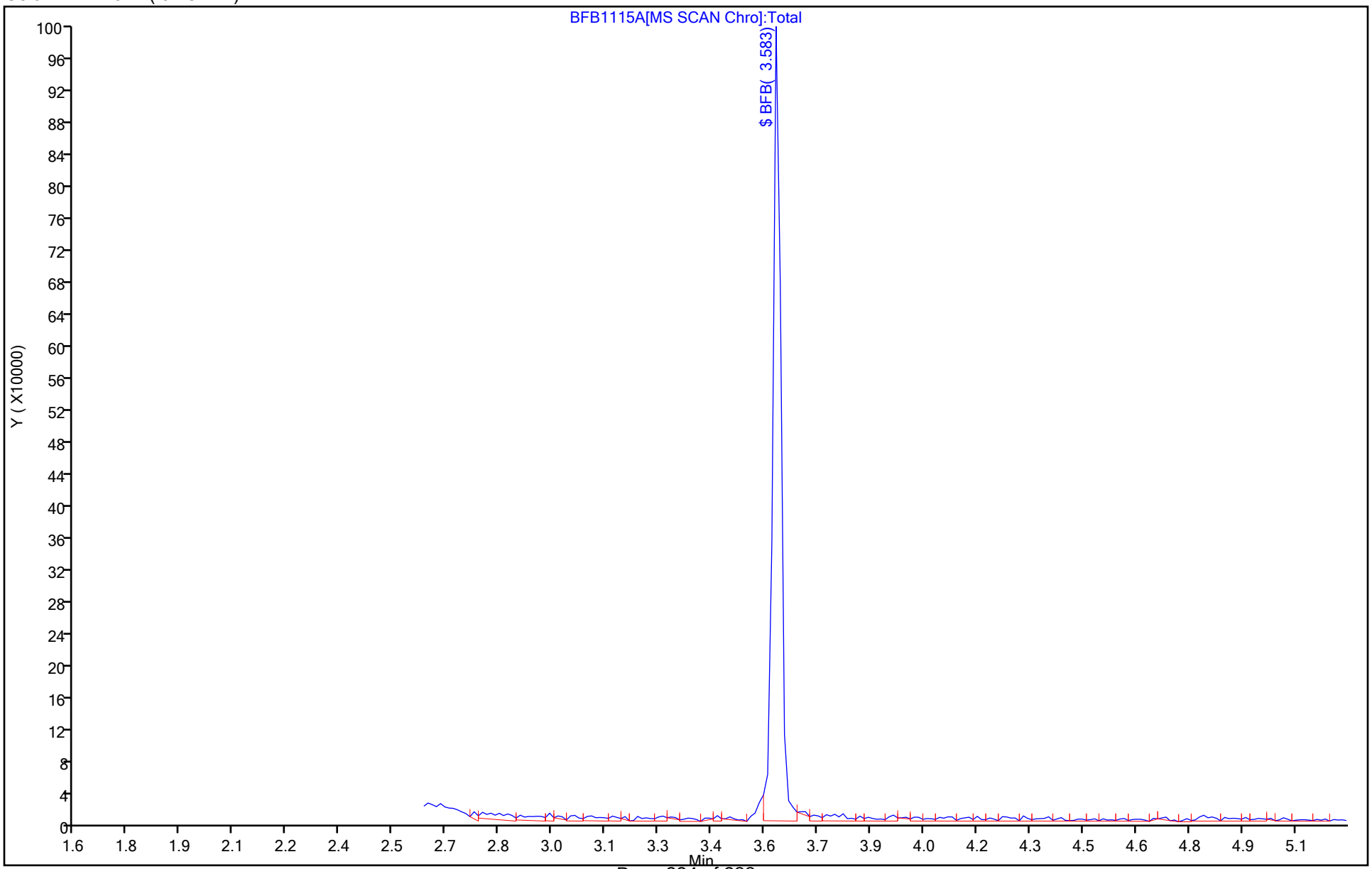
Report Date: 16-Nov-2020 07:51:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\BFB1115A.D

Injection Date:	15-Nov-2020 07:23:30	Instrument ID:	A3UX15	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461046/6

Matrix: Water Lab File ID: UXJ4083.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 10:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461046/6

Matrix: Water Lab File ID: UXJ4083.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 10:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		75-130
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
2037-26-5	Toluene-d8 (Surr)	107		69-122
1868-53-7	Dibromofluoromethane (Surr)	114		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4083.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2020 10:21:30 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-006
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 06:43:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.713	4.712	0.001	99	756727	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.375	7.363	0.012	86	514086	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.588	9.588	0.000	95	199403	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	97	174581	20.0	22.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.429	4.428	0.001	98	221425	20.0	22.9	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	94	724767	20.0	21.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	97	224202	20.0	19.9	
9 Chlorodifluoromethane TIC	51		0.975					ND	
10 Dichlorodifluoromethane	85		1.174					ND	
11 Isobutylene TIC	1		1.250					ND	
12 Chloromethane	50		1.340					ND	
13 Butadiene	54		1.387					ND	
14 Vinyl chloride	62		1.411					ND	
15 Bromomethane	94		1.624					ND	
16 Chloroethane	64		1.695					ND	
17 Dichlorofluoromethane	67		1.849					ND	
18 Trichlorofluoromethane	101		1.861					ND	
19 Ethyl ether	59		2.109					ND	
20 Acrolein	56		2.204					ND	
21 1,1-Dichloroethene	96		2.287					ND	
22 Methylal	45		2.308					ND	
23 112TCTFE	151		2.334					ND	
24 Acetone	43		2.334					ND	7
25 Iodomethane	142		2.405					ND	
26 Carbon disulfide	76		2.452					ND	7
27 Acetonitrile	41		2.547					ND	
28 3-Chloro-1-propene	76		2.583					ND	
29 Methyl acetate	43		2.618					ND	
30 Methylene Chloride	84	2.689	2.689	0.000	90	6480		0.3750	
31 2-Methyl-2-propanol	59		2.819					ND	
32 Acrylonitrile	53		2.890					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		2.926				ND		
34 Methyl tert-butyl ether	73		2.938				ND		
35 Hexane	86		3.162				ND		
36 1,1-Dichloroethane	63		3.269				ND		
37 Vinyl acetate	43		3.328				ND		
38 2-Chloro-1,3-butadiene	53		3.340				ND		
39 Isopropyl ether	87		3.352				ND		
40 Tert-butyl ethyl ether	59		3.648				ND		
41 cis-1,2-Dichloroethene	96		3.754				ND		
42 2,2-Dichloropropane	97		3.754				ND		
43 2-Butanone (MEK)	43		3.778				ND		U
44 Propionitrile	54		3.813				ND		U
45 Ethyl acetate	43		3.837				ND		
46 Chlorobromomethane	128		3.943				ND		
47 Methacrylonitrile	41		3.943				ND		
49 Tetrahydrofuran	42	4.014	4.014	0.000	74	4731		1.32	
48 Chloroform	83		4.014				ND		
50 1,1,1-Trichloroethane	97		4.180				ND		
51 Cyclohexane	56		4.227				ND		
53 1,1-Dichloropropene	75		4.310				ND		
52 Carbon tetrachloride	117		4.310				ND		
54 Isobutyl alcohol	41		4.428				ND		
55 Benzene	78		4.476				ND		
56 1,2-Dichloroethane	62		4.488				ND		
126 Isooctane	57		4.559				ND		
57 Tert-amyl methyl ether	73		4.594				ND		
58 n-Heptane	100		4.724				ND		
59 n-Butanol	56		4.985				ND		
60 Trichloroethene	130		5.032				ND		
61 Ethyl acrylate	55		5.127				ND		
62 Methylcyclohexane	83		5.198				ND		
63 1,2-Dichloropropane	63		5.209				ND		
64 Dibromomethane	93		5.304				ND		
65 Methyl methacrylate	41		5.328				ND		
66 1,4-Dioxane	88		5.351				ND		
67 Dichlorobromomethane	83		5.446				ND		
68 2-Nitropropane	41		5.647				ND		
69 2-Chloroethyl vinyl ether	63		5.718				ND		
70 cis-1,3-Dichloropropene	75		5.837				ND		
71 4-Methyl-2-pentanone (MIBK)	43		5.990				ND		
72 Toluene	91		6.132				ND		
73 trans-1,3-Dichloropropene	75		6.322				ND		
74 Ethyl methacrylate	69		6.428				ND		
75 1,1,2-Trichloroethane	97		6.487				ND		
76 Tetrachloroethene	164		6.618				ND		
77 1,3-Dichloropropane	76		6.629				ND		
78 2-Hexanone	43		6.724				ND		
79 Tetrahydrothiophene	60		6.830				ND		
80 Chlorodibromomethane	129		6.831				ND		
81 n-Butyl acetate	43		6.854				ND		
82 Ethylene Dibromide	107		6.937				ND		
83 1-Chlorohexane	91		7.387				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Chlorobenzene	112		7.399					ND	
85 1,1,1,2-Tetrachloroethane	131		7.470					ND	
86 Ethylbenzene	106		7.505					ND	
87 m-Xylene & p-Xylene	106		7.612					ND	
89 o-Xylene	106		7.978					ND	
88 Styrene	104		7.990					ND	
90 Bromoform	173		8.156					ND	
91 Isopropylbenzene	105		8.333					ND	
93 Cyclohexanone	55		8.416					ND	
92 1,4-Dichlorobutane	55		8.428					ND	
94 1,1,2,2-Tetrachloroethane	83		8.606					ND	
95 Bromobenzene	156		8.617					ND	
96 1,2,3-Trichloropropane	110		8.653					ND	
97 trans-1,4-Dichloro-2-butene	53		8.665					ND	
98 N-Propylbenzene	120		8.724					ND	
99 2-Chlorotoluene	126		8.807					ND	
100 1,3,5-Trimethylbenzene	105		8.901					ND	
101 4-Chlorotoluene	126		8.901					ND	
103 tert-Butylbenzene	119		9.209					ND	
102 Pentachloroethane	167		9.221					ND	
104 1,2,4-Trimethylbenzene	105		9.256					ND	
105 sec-Butylbenzene	105		9.434					ND	
106 1,3-Dichlorobenzene	146		9.517					ND	
107 4-Isopropyltoluene	119		9.576					ND	
108 1,4-Dichlorobenzene	146		9.611					ND	
109 1,2,3-Trimethylbenzene	105		9.670					ND	
110 Benzyl chloride	126		9.741					ND	
112 1,2-Dichlorobenzene	146		9.966					ND	
111 n-Butylbenzene	91		9.966					ND	
113 1,3-Diethylbenzene TIC	1		10.000					ND	
114 1,2-Dibromo-3-Chloropropane	157		10.724					ND	
115 1,3,5-Trichlorobenzene	180		10.948					ND	
116 1,2,4-Trichlorobenzene	180		11.552					ND	
117 Hexachlorobutadiene	225		11.741					ND	
118 Naphthalene	128		11.789					ND	
119 1,2,3-Trichlorobenzene	180		12.037					ND	
120 2-Methylnaphthalene	142		12.925					ND	U
127 1-Methylnaphthalene	142		13.126					ND	U
121 Epichlorohydrin	1		-0.500					ND	
122 Ethylene oxide	1		-0.500					ND	
123 Propene oxide	1		-0.500					ND	
124 3-Ethyltoluene	1		-0.500					ND	
125 2-Ethyltoluene	1		-0.500					ND	
S 128 Trihalomethanes, Total	1		-0.500					ND	
S 129 Total BTEX	1		-0.500					ND	
S 130 1,2-Dichloroethene, Total	96		0.640					ND	
S 131 1,3-Dichloropropene, Total	75		6.260					ND	
S 132 Xylenes, Total	106		16.030					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

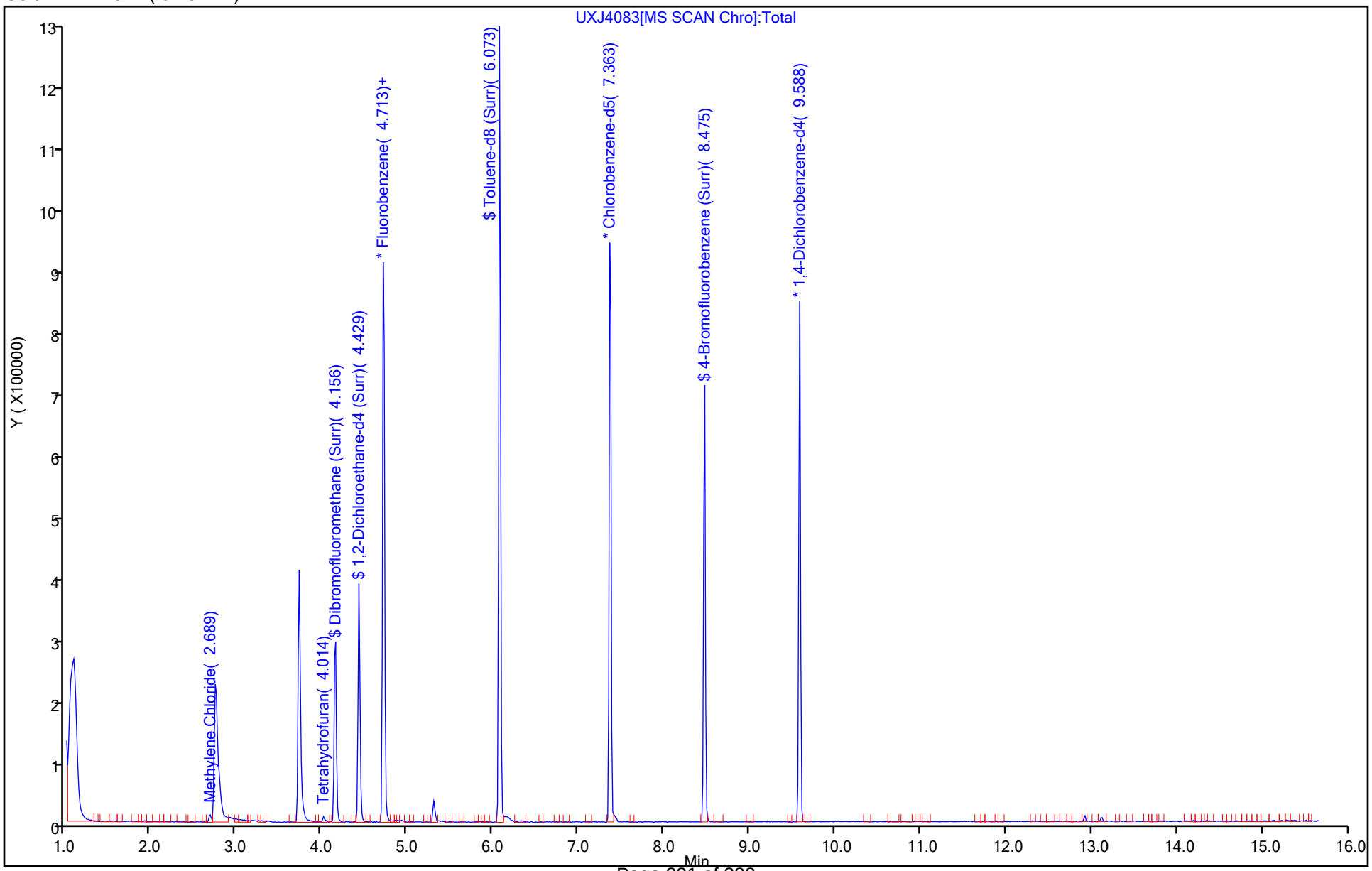
Report Date: 16-Nov-2020 07:31:29 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4083.D

Injection Date:	15-Nov-2020 10:21:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4083.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2020 10:21:30 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-006
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 06:43:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.9	114.26
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	22.9	114.61
$ 6 Toluene-d8 (Surr)	20.0	21.5	107.37
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.9	99.68

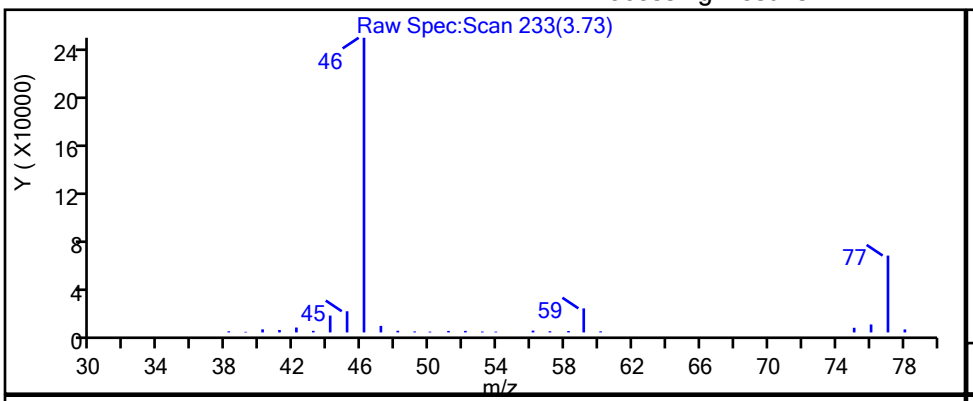
User Disabled Compound Report

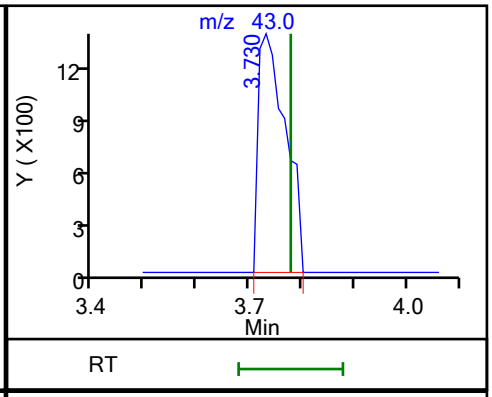
Eurofins TestAmerica, Canton

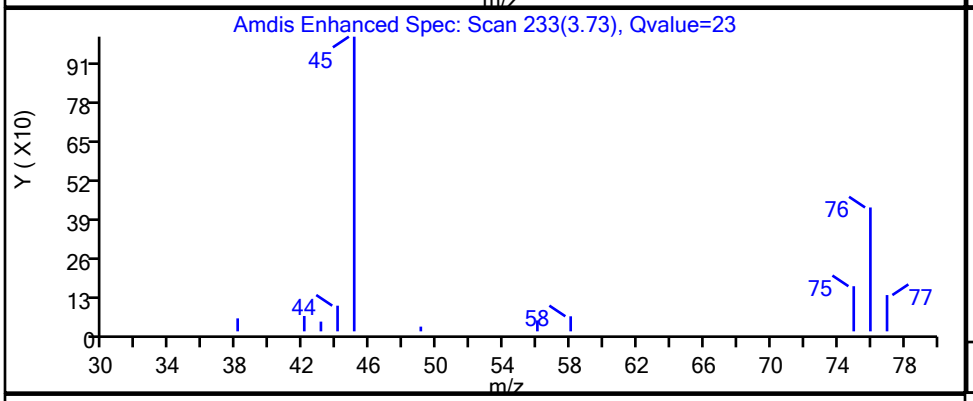
Data File:	\\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4083.D				
Injection Date:	15-Nov-2020 10:21:30	Instrument ID:	A3UX11		
Lims ID:	MB				
Client ID:					
Operator ID:	043582	ALS Bottle#:	7	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_11	Limit Group:	MSV 8260B ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

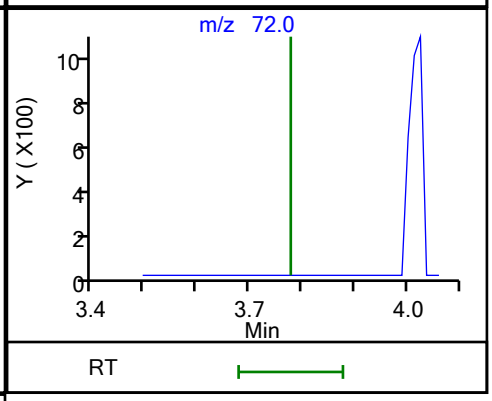
43 2-Butanone (MEK), CAS: 78-93-3

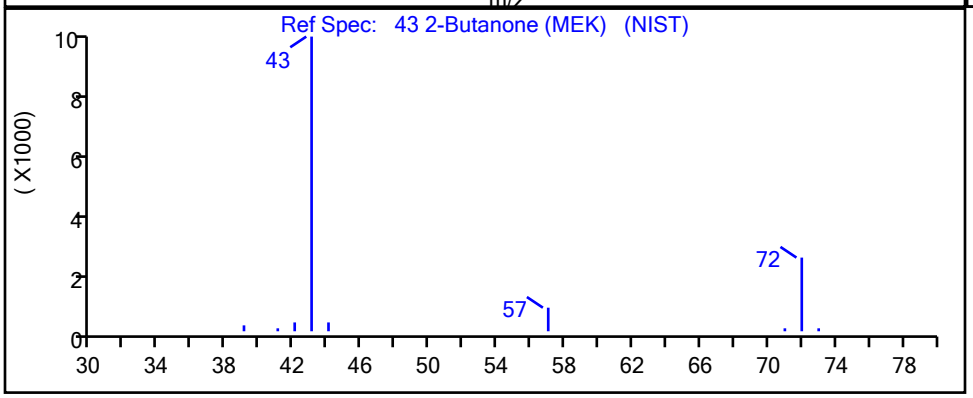
Processing Results











RT	Mass	Response	Amount
3.73	43.00	4746	0.797327
3.78	72.00	0	

Reviewer: evansle, 16-Nov-2020 06:42:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461048/7

Matrix: Water Lab File ID: UXC3785.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 10:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.090
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
591-78-6	2-Hexanone	10	U	10	0.54
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
78-93-3	2-Butanone (MEK)	10	U	10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.42
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
100-42-5	Styrene	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.20
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-461048/7

Matrix: Water Lab File ID: UXC3785.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 10:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
460-00-4	4-Bromofluorobenzene (Surr)	82		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	81		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3785.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2020 10:05:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-007
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:36:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	2089639	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	90	1493121	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	98	622083	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	403846	10.0	8.13	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	701628	10.0	10.2	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	1736201	10.0	9.36	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	532925	10.0	8.20	
9 Dichlorodifluoromethane	85		1.444					ND	
10 Chloromethane	50		1.598					ND	
11 Vinyl chloride	62		1.693					ND	
12 Butadiene	54		1.704					ND	7
13 Bromomethane	94		1.965					ND	
14 Chloroethane	64		2.037					ND	
15 Dichlorofluoromethane	67		2.191					ND	
16 Trichlorofluoromethane	101		2.238					ND	
17 Ethyl ether	59		2.452					ND	
18 Acrolein	56		2.570					ND	U
19 1,1-Dichloroethene	96		2.653					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.665					ND	
21 Acetone	58		2.689					ND	7
22 Iodomethane	142		2.784					ND	
24 Carbon disulfide	76		2.843					ND	7
23 Methylal	45		2.872					ND	
25 Acetonitrile	41		2.926					ND	U
26 3-Chloro-1-propene	76		2.950					ND	
27 Methyl acetate	43		2.961					ND	
28 Methylene Chloride	84	3.056	3.056	0.000	95	23248		0.4219	
29 2-Methyl-2-propanol	59		3.127					ND	U
30 Acrylonitrile	53		3.258					ND	
31 Methyl tert-butyl ether	73		3.270					ND	
32 trans-1,2-Dichloroethene	96		3.270					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	86		3.483					ND	
33 Chlorodifluoromethane TIC	51		3.571					ND	
35 1,1-Dichloroethane	63		3.626					ND	
36 Vinyl acetate	43		3.649					ND	
37 Isopropyl ether	87		3.661					ND	
38 2-Chloro-1,3-butadiene	53		3.697					ND	
39 Tert-butyl ethyl ether	59		3.958					ND	
40 2-Butanone (MEK)	72		4.100					ND	
41 cis-1,2-Dichloroethene	96		4.100					ND	
42 2,2-Dichloropropane	97		4.100					ND	
43 Ethyl acetate	43		4.135					ND	
44 Propionitrile	54		4.159					ND	7
45 Methacrylonitrile	41		4.278					ND	
46 Chlorobromomethane	128		4.290					ND	
47 Tetrahydrofuran	42	4.337	4.337	0.000	89	7343		0.5228	
48 Chloroform	83		4.349					ND	7
49 1,1,1-Trichloroethane	97		4.515					ND	
50 Cyclohexane	56		4.562					ND	
52 Carbon tetrachloride	117		4.645					ND	
51 1,1-Dichloropropene	75		4.645					ND	
53 Isobutyl alcohol	41		4.717					ND	
55 Benzene	78		4.823					ND	
56 1,2-Dichloroethane	62		4.835					ND	
54 Isooctane	57		4.871					ND	
57 Tert-amyl methyl ether	73		4.894					ND	
58 n-Heptane	100		5.013					ND	
59 n-Butanol	56		5.274					ND	
60 Trichloroethene	130		5.357					ND	
61 Ethyl acrylate	55		5.428					ND	
62 Methylcyclohexane	83		5.523					ND	
63 1,2-Dichloropropane	63		5.547					ND	
64 Methyl methacrylate	41		5.618					ND	
65 Dibromomethane	93		5.653					ND	
66 1,4-Dioxane	88		5.665					ND	
67 Dichlorobromomethane	83		5.772					ND	
68 2-Nitropropane	41		5.985					ND	
69 2-Chloroethyl vinyl ether	63		6.021					ND	
70 cis-1,3-Dichloropropene	75		6.163					ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.294					ND	
72 Toluene	91		6.460					ND	7
73 trans-1,3-Dichloropropene	75		6.649					ND	
74 Ethyl methacrylate	69		6.721					ND	
75 1,1,2-Trichloroethane	97		6.815					ND	
76 Tetrachloroethene	164		6.946					ND	
77 1,3-Dichloropropane	76		6.970					ND	
78 2-Hexanone	43		7.041					ND	
79 n-Butyl acetate	43		7.136					ND	
80 Chlorodibromomethane	129		7.183					ND	
82 Ethylene Dibromide	107		7.290					ND	
81 Tetrahydrothiophene	60		7.292					ND	
83 1-Chlorohexane	91		7.705					ND	7
84 Chlorobenzene	112		7.740					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,1,2-Tetrachloroethane	131		7.812					ND	
86 Ethylbenzene	106		7.835					ND	
87 m-Xylene & p-Xylene	91		7.942					ND	
88 o-Xylene	106		8.322					ND	
89 Styrene	104		8.333					ND	
90 Bromoform	173		8.523					ND	
91 Isopropylbenzene	105		8.665					ND	
92 Cyclohexanone	55		8.772					ND	
93 1,4-Dichlorobutane	55		8.881					ND	
94 1,1,2,2-Tetrachloroethane	83		8.950					ND	
95 Bromobenzene	156		8.974					ND	
97 trans-1,4-Dichloro-2-butene	53		9.009					ND	
96 1,2,3-Trichloropropane	110		9.009					ND	
98 N-Propylbenzene	120		9.069					ND	
99 2-Chlorotoluene	126		9.152					ND	
101 1,3,5-Trimethylbenzene	105		9.235					ND	
102 4-Chlorotoluene	91		9.258					ND	
100 3-Ethyltoluene	105		9.324					ND	
104 tert-Butylbenzene	119		9.555					ND	
105 Pentachloroethane	167		9.578					ND	
106 1,2,4-Trimethylbenzene	105		9.602					ND	
103 2-Ethyltoluene	105		9.609					ND	
107 sec-Butylbenzene	105		9.768					ND	
108 1,3-Dichlorobenzene	146		9.887					ND	
109 4-Isopropyltoluene	119		9.911					ND	
110 1,4-Dichlorobenzene	146		9.970					ND	
111 1,2,3-Trimethylbenzene	105		10.017					ND	
112 Benzyl chloride	126		10.100					ND	
113 n-Butylbenzene	91		10.314					ND	
114 1,2-Dichlorobenzene	146		10.337					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.108					ND	
116 1,3,5-Trichlorobenzene	180		11.322					ND	
117 1,2,4-Trichlorobenzene	180		11.938					ND	
118 Hexachlorobutadiene	225		12.104					ND	
119 Naphthalene	128		12.187					ND	
120 1,2,3-Trichlorobenzene	180		12.425					ND	
121 2-Methylnaphthalene	142	13.421	13.432	-0.011	85	5815		0.1079	
122 1-Methylnaphthalene	142	13.670	13.670	0.000	93	6498		0.1350	
123 Epichlorohydrin	1		0.000					ND	
125 Propene oxide	1		0.000					ND	
124 Ethylene oxide	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
S 127 1,2-Dichloroethene, Total	96		1.140					ND	
S 128 1,3-Dichloropropene, Total	75		6.760					ND	
S 129 Xylenes, Total	106		16.530					ND	
S 130 Total BTEX	1		0.000					ND	
S 131 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

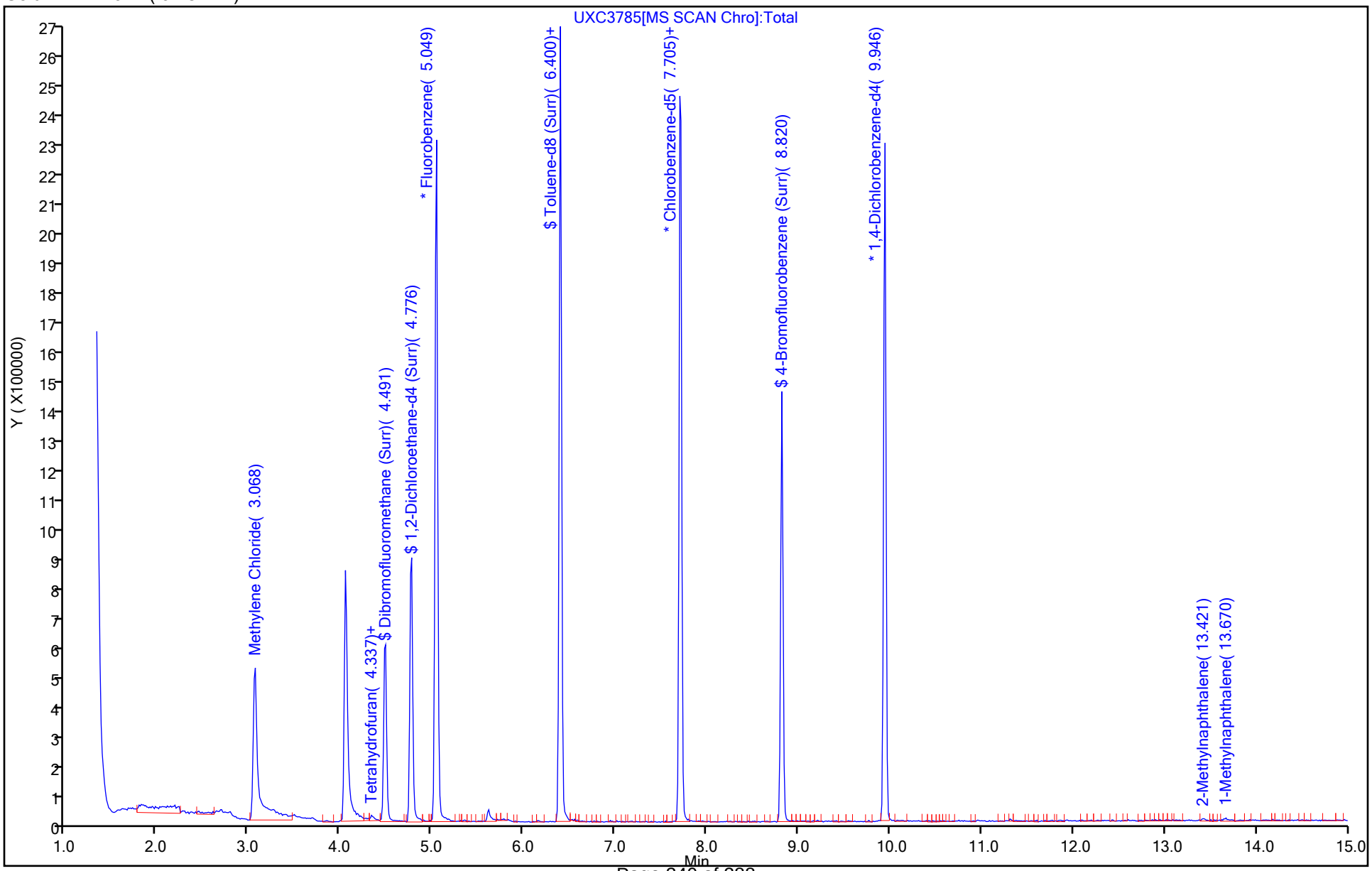
Report Date: 16-Nov-2020 07:51:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3785.D

Injection Date:	15-Nov-2020 10:05:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3785.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2020 10:05:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-007
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:36:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.13	81.28
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.34
$ 6 Toluene-d8 (Surr)	10.0	9.36	93.63
$ 7 4-Bromofluorobenzene (Surr)	10.0	8.20	82.03

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461046/4

Matrix: Water Lab File ID: UXJ4078.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 08:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	7.99		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	8.47		1.0	0.13
79-00-5	1,1,2-Trichloroethane	8.46		1.0	0.090
75-34-3	1,1-Dichloroethane	10.8		1.0	0.17
75-35-4	1,1-Dichloroethene	8.47		1.0	0.19
107-06-2	1,2-Dichloroethane	8.40		1.0	0.21
78-87-5	1,2-Dichloropropane	10.1		1.0	0.15
591-78-6	2-Hexanone	13.6		10	0.54
67-64-1	Acetone	14.7		10	5.4
71-43-2	Benzene	9.57		1.0	0.13
75-25-2	Bromoform	7.51		1.0	0.76
74-83-9	Bromomethane	9.23		1.0	0.42
75-15-0	Carbon disulfide	8.25		1.0	0.28
56-23-5	Carbon tetrachloride	7.76		1.0	0.26
108-90-7	Chlorobenzene	8.60		1.0	0.14
75-00-3	Chloroethane	9.97		1.0	0.83
67-66-3	Chloroform	9.53		1.0	0.13
74-87-3	Chloromethane	10.1		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	9.20		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	8.17		1.0	0.61
75-27-4	Dichlorobromomethane	8.76		1.0	0.17
100-41-4	Ethylbenzene	8.46		1.0	0.11
78-93-3	2-Butanone (MEK)	15.2		10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	15.2		10	0.42
75-09-2	Methylene Chloride	10.1		5.0	2.6
100-42-5	Styrene	8.84		1.0	0.10
127-18-4	Tetrachloroethene	7.94		1.0	0.15
108-88-3	Toluene	9.00		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	9.44		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	7.51		1.0	0.67
79-01-6	Trichloroethene	7.96		1.0	0.10
75-01-4	Vinyl chloride	10.3		1.0	0.20
1330-20-7	Xylenes, Total	17.5		2.0	0.15
124-48-1	Chlorodibromomethane	7.96		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461046/4

Matrix: Water Lab File ID: UXJ4078.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 08:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
2037-26-5	Toluene-d8 (Surr)	102		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4078.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 08:28:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-004
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 15-Nov-2020 08:48:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	994949	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.363	7.363	0.000	85	683848	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.588	9.588	0.000	96	287066	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.156	4.144	0.012	98	214375	20.0	21.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	98	255652	20.0	20.1	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	92	918406	20.0	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	95	296718	20.0	19.8	
10 Dichlorodifluoromethane	85	1.174	1.174	0.000	99	85887	10.0	6.98	
12 Chloromethane	50	1.352	1.340	0.012	98	93753	10.0	10.1	
13 Butadiene	54	1.399	1.387	0.012	96	98581	10.0	9.65	
14 Vinyl chloride	62	1.423	1.411	0.012	97	115695	10.0	10.3	
15 Bromomethane	94	1.648	1.624	0.024	90	75959	10.0	9.23	
16 Chloroethane	64	1.695	1.695	0.000	99	66230	10.0	9.97	
17 Dichlorofluoromethane	67	1.849	1.849	0.000	98	149078	10.0	9.18	
18 Trichlorofluoromethane	101	1.861	1.861	0.000	95	127084	10.0	7.71	
19 Ethyl ether	59	2.109	2.109	0.000	89	88076	10.0	10.3	
20 Acrolein	56		2.204				ND	ND	
21 1,1-Dichloroethene	96	2.287	2.287	0.000	97	81340	10.0	8.47	
23 112TCTFE	151	2.334	2.334	0.000	94	46798	10.0	6.29	
24 Acetone	43	2.346	2.334	0.012	99	60809	20.0	14.7	
25 Iodomethane	142	2.405	2.405	0.000	99	125005	10.0	7.79	
26 Carbon disulfide	76	2.464	2.452	0.012	99	242160	10.0	8.25	
28 3-Chloro-1-propene	76	2.594	2.583	0.011	93	65111	10.0	9.64	
29 Methyl acetate	43	2.618	2.618	0.000	97	160090	20.0	16.1	
30 Methylene Chloride	84	2.689	2.689	0.000	93	101341	10.0	10.1	
31 2-Methyl-2-propanol	59	2.831	2.819	0.012	100	133193	100.0	63.8	
32 Acrylonitrile	53	2.890	2.890	0.000	98	359769	100.0	74.9	
33 trans-1,2-Dichloroethene	96	2.926	2.926	0.000	99	106486	10.0	9.44	
34 Methyl tert-butyl ether	73	2.949	2.938	0.011	94	249268	10.0	8.05	
35 Hexane	86	3.162	3.162	0.000	93	22666	10.0	7.79	
36 1,1-Dichloroethane	63	3.269	3.269	0.000	96	179897	10.0	10.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	3.328	3.328	0.000	97	203404	10.0	7.63	
41 cis-1,2-Dichloroethene	96	3.754	3.754	0.000	82	111242	10.0	9.20	
42 2,2-Dichloropropane	97	3.754	3.754	0.000	70	25419	10.0	7.93	
43 2-Butanone (MEK)	43	3.778	3.778	0.000	100	118725	20.0	15.2	
46 Chlorobromomethane	128	3.955	3.943	0.012	95	50239	10.0	8.79	
49 Tetrahydrofuran	42	4.014	4.014	0.000	84	80444	20.0	17.0	
48 Chloroform	83	4.014	4.014	0.000	94	167644	10.0	9.53	
50 1,1,1-Trichloroethane	97	4.180	4.180	0.000	98	121630	10.0	7.99	
51 Cyclohexane	56	4.227	4.227	0.000	88	137004	10.0	9.22	
53 1,1-Dichloropropene	75	4.310	4.310	0.000	98	141298	10.0	8.78	
52 Carbon tetrachloride	117	4.322	4.310	0.012	94	101728	10.0	7.76	
54 Isobutyl alcohol	41	4.428	4.428	0.000	92	121271	250.0	201.3	
55 Benzene	78	4.488	4.476	0.012	95	446110	10.0	9.57	
56 1,2-Dichloroethane	62	4.488	4.488	0.000	97	125974	10.0	8.40	
58 n-Heptane	100	4.724	4.724	0.000	83	21578	10.0	8.21	
60 Trichloroethene	130	5.032	5.032	0.000	99	109699	10.0	7.96	
62 Methylcyclohexane	83	5.198	5.198	0.000	90	129240	10.0	8.50	
63 1,2-Dichloropropane	63	5.209	5.209	0.000	97	105267	10.0	10.1	
64 Dibromomethane	93	5.304	5.304	0.000	95	62997	10.0	8.56	
66 1,4-Dioxane	88	5.351	5.351	0.000	91	21106	200.0	124.8	
67 Dichlorobromomethane	83	5.446	5.446	0.000	99	129747	10.0	8.76	
69 2-Chloroethyl vinyl ether	63	5.718	5.718	0.000	90	70998	10.0	7.87	
70 cis-1,3-Dichloropropene	75	5.837	5.837	0.000	97	160811	10.0	8.17	
71 4-Methyl-2-pentanone (MIBK)	43	5.990	5.990	0.000	95	216143	20.0	15.2	
72 Toluene	91	6.132	6.132	0.000	98	468163	10.0	9.00	
73 trans-1,3-Dichloropropene	75	6.322	6.322	0.000	91	136823	10.0	7.51	
74 Ethyl methacrylate	69	6.428	6.428	0.000	88	137494	10.0	7.90	
75 1,1,2-Trichloroethane	97	6.487	6.487	0.000	90	92553	10.0	8.46	
76 Tetrachloroethene	164	6.629	6.618	0.011	97	75354	10.0	7.94	
77 1,3-Dichloropropane	76	6.641	6.629	0.012	89	158556	10.0	8.70	
78 2-Hexanone	43	6.724	6.724	0.000	92	145471	20.0	13.6	
80 Chlorodibromomethane	129	6.842	6.831	0.011	90	90111	10.0	7.96	
82 Ethylene Dibromide	107	6.937	6.937	0.000	97	91185	10.0	7.78	
84 Chlorobenzene	112	7.399	7.399	-0.001	96	270671	10.0	8.60	
85 1,1,1,2-Tetrachloroethane	131	7.470	7.470	0.000	96	84254	10.0	8.64	
86 Ethylbenzene	106	7.505	7.505	0.000	97	141984	10.0	8.46	
87 m-Xylene & p-Xylene	106	7.612	7.612	0.000	98	173350	10.0	8.48	
89 o-Xylene	106	7.978	7.978	0.000	95	165468	10.0	8.99	
88 Styrene	104	7.990	7.990	0.000	93	291992	10.0	8.84	
90 Bromoform	173	8.156	8.156	0.000	95	56527	10.0	7.51	
91 Isopropylbenzene	105	8.333	8.333	0.000	95	414370	10.0	9.20	
94 1,1,2,2-Tetrachloroethane	83	8.605	8.606	-0.001	79	119644	10.0	8.47	
95 Bromobenzene	156	8.617	8.617	0.000	92	97056	10.0	8.07	
96 1,2,3-Trichloropropane	110	8.653	8.653	0.000	82	35235	10.0	7.13	
97 trans-1,4-Dichloro-2-butene	53	8.665	8.665	0.000	92	27495	10.0	5.88	
98 N-Propylbenzene	120	8.724	8.724	0.000	99	107431	10.0	8.35	
99 2-Chlorotoluene	126	8.807	8.807	0.000	97	98001	10.0	8.81	
100 1,3,5-Trimethylbenzene	105	8.901	8.901	0.000	94	310296	10.0	8.91	
101 4-Chlorotoluene	126	8.913	8.901	0.012	98	100333	10.0	8.47	
103 tert-Butylbenzene	119	9.209	9.209	0.000	92	256172	10.0	9.05	
104 1,2,4-Trimethylbenzene	105	9.256	9.256	0.000	96	313765	10.0	8.92	
105 sec-Butylbenzene	105	9.434	9.434	0.000	93	352429	10.0	9.26	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	9.517	9.517	0.000	98	170483	10.0	8.26	
107 4-Isopropyltoluene	119	9.576	9.576	0.000	96	290162	10.0	8.86	
108 1,4-Dichlorobenzene	146	9.611	9.611	0.000	97	179168	10.0	8.58	
112 1,2-Dichlorobenzene	146	9.966	9.966	0.000	97	159492	10.0	8.01	
111 n-Butylbenzene	91	9.966	9.966	0.000	98	251138	10.0	8.99	
114 1,2-Dibromo-3-Chloropropane	157	10.735	10.724	0.011	88	22928	10.0	5.94	
116 1,2,4-Trichlorobenzene	180	11.552	11.552	0.000	94	89783	10.0	7.59	
117 Hexachlorobutadiene	225	11.741	11.741	0.000	93	26883	10.0	7.89	
118 Naphthalene	128	11.789	11.789	0.000	96	298451	10.0	6.58	
119 1,2,3-Trichlorobenzene	180	12.037	12.037	0.000	95	86184	10.0	7.77	
S 128 Trihalomethanes, Total	1				0		40.0	33.8	
S 129 Total BTEX	1				0		50.0	44.5	
S 132 Xylenes, Total	106				0		20.0	17.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00373	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

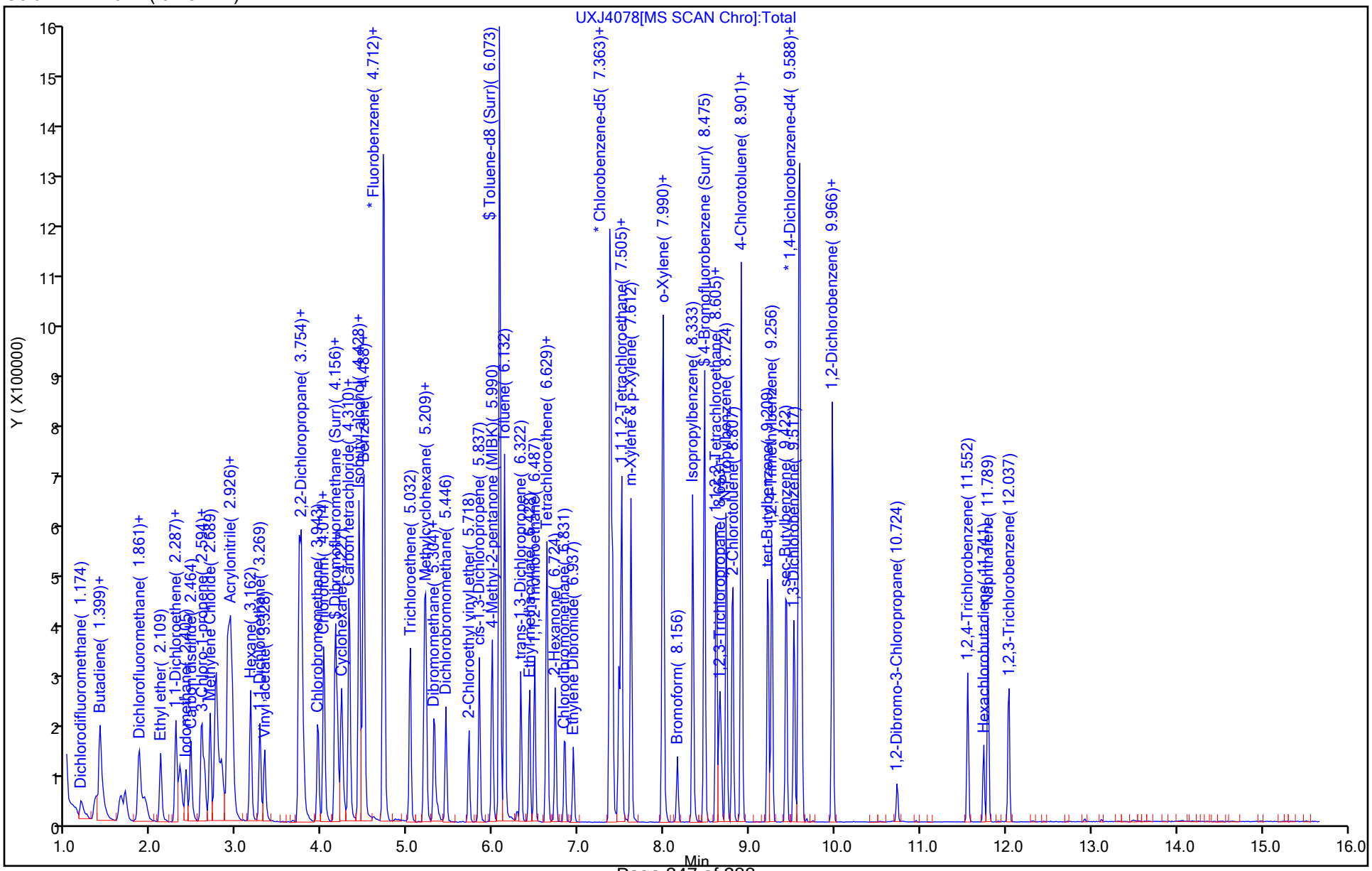
Report Date: 16-Nov-2020 07:31:22 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4078.D

Injection Date:	15-Nov-2020 08:28:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4078.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 08:28:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-004
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 15-Nov-2020 08:48:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.3	106.71
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.64
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.28
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.8	99.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461046/9

Matrix: Water Lab File ID: UXJ4080.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 09:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461046 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
2037-26-5	Toluene-d8 (Surr)	100		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4080.D
Lims ID: LCS A9
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 09:13:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-009
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.712	4.712	0.000	99	898688	20.0	20.0	
* 2 Chlorobenzene-d5	117	7.363	7.363	0.000	87	660620	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.588	9.588	0.000	95	252113	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.145	4.144	0.000	98	194085	20.0	21.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.428	4.428	0.000	98	242427	20.0	21.1	
$ 6 Toluene-d8 (Surr)	98	6.073	6.073	0.000	93	863791	20.0	19.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.475	8.475	0.000	96	295975	20.0	20.5	
27 Acetonitrile	41	2.559	2.547	0.012	99	101142	100.0	81.5	
38 2-Chloro-1,3-butadiene	53	3.352	3.340	0.012	91	148529	10.0	10.5	
39 Isopropyl ether	87	3.352	3.352	0.000	94	84270	10.0	9.78	
40 Tert-butyl ethyl ether	59	3.659	3.648	0.011	97	263382	10.0	11.5	
44 Propionitrile	54	3.813	3.813	0.000	100	170372	100.0	91.4	
45 Ethyl acetate	43	3.837	3.837	0.000	99	248826	20.0	19.3	
47 Methacrylonitrile	41	3.943	3.943	0.000	91	752734	100.0	104.4	
126 Isooctane	57	4.559	4.559	0.000	94	219926	10.0	10.9	
57 Tert-amyl methyl ether	73	4.594	4.594	0.000	98	295588	10.0	9.97	
59 n-Butanol	56	4.985	4.985	0.000	87	112087	250.0	202.0	
61 Ethyl acrylate	55	5.127	5.127	0.000	99	174909	10.0	10.1	
65 Methyl methacrylate	41	5.328	5.328	0.000	89	223226	20.0	21.6	
68 2-Nitropropane	41	5.647	5.647	0.000	96	51655	20.0	12.7	
81 n-Butyl acetate	43	6.854	6.854	0.000	94	178011	10.0	10.1	
83 1-Chlorohexane	91	7.387	7.387	0.000	94	144311	10.0	9.40	
93 Cyclohexanone	55	8.416	8.416	0.000	89	38183	100.0	86.7	
102 Pentachloroethane	167	9.221	9.221	0.000	94	102356	20.0	19.4	
109 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	343526	10.0	11.2	
110 Benzyl chloride	126	9.741	9.741	0.000	100	47684	10.0	9.03	
115 1,3,5-Trichlorobenzene	180	10.948	10.948	0.000	95	104689	10.0	9.91	
120 2-Methylnaphthalene	142	12.925	12.925	0.000	100	311329	20.0	16.9	
127 1-Methylnaphthalene	142	13.126	13.126	0.000	93	278640	20.0	17.6	

Reagents:

VMFASA9W_00297	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	2.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

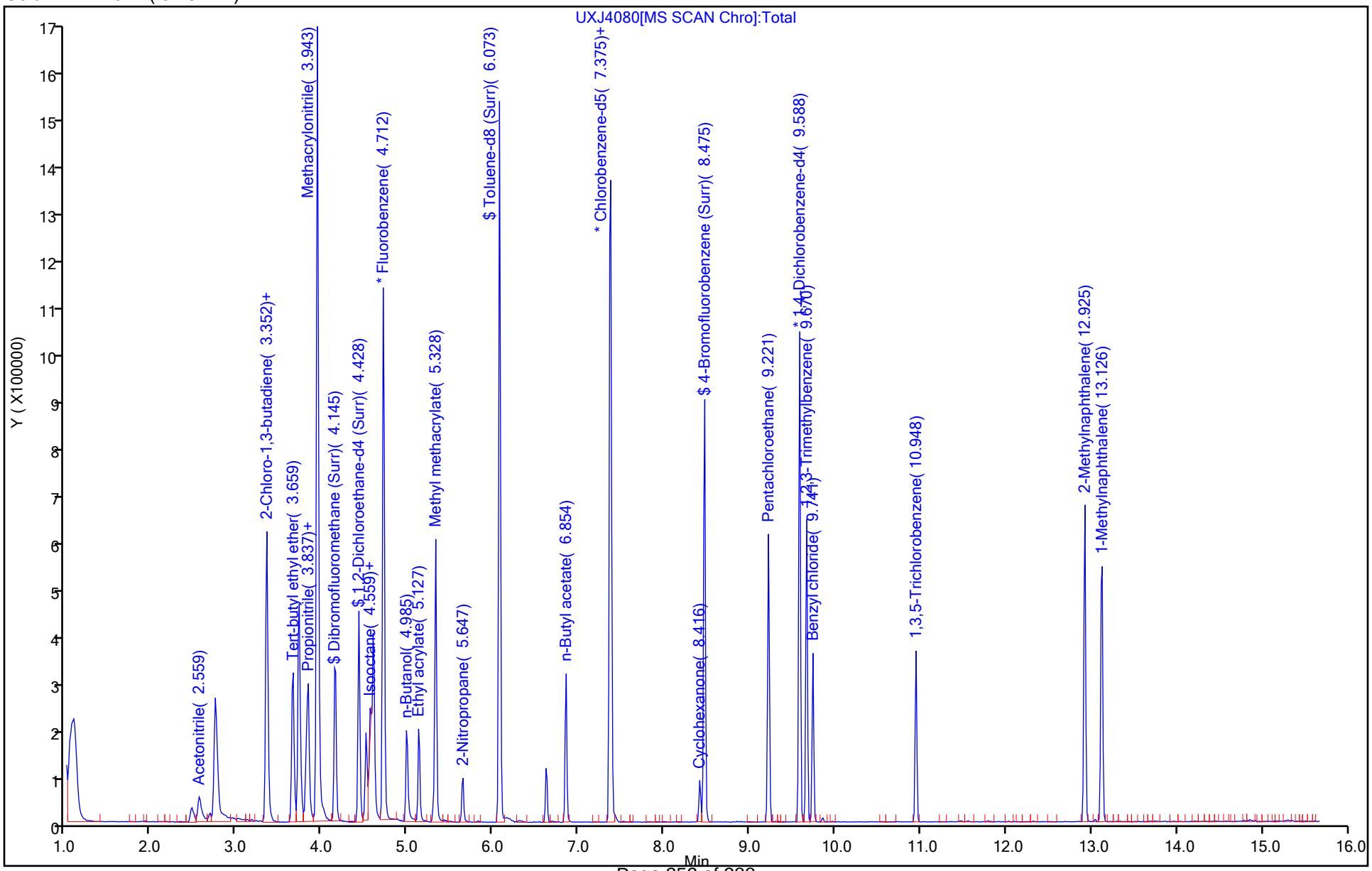
Report Date: 16-Nov-2020 07:31:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4080.D

Injection Date:	15-Nov-2020 09:13:30	Instrument ID:	A3UX11	Operator ID:	043582
Lims ID:	LCS A9			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_11	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\UXJ4080.D
Lims ID: LCS A9
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 09:13:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103971-009
Misc. Info.: J201115A,8260LLUX11,,43582
Operator ID: 043582 Instrument ID: A3UX11

Method: \\chromfs\Canton\ChromData\A3UX11\20201115-103971.b\8260_11.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:31:19 Calib Date: 23-Jul-2020 18:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX11\20200723-100308.b\UXJ1055.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.4	106.96
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.1	105.66
$ 6 Toluene-d8 (Surr)	20.0	19.9	99.58
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.5	102.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461048/4

Matrix: Water Lab File ID: UXC3780.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 08:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	8.04		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	14.4		1.0	0.13
79-00-5	1,1,2-Trichloroethane	12.5		1.0	0.090
75-34-3	1,1-Dichloroethane	10.1		1.0	0.17
75-35-4	1,1-Dichloroethene	8.14		1.0	0.19
107-06-2	1,2-Dichloroethane	10.3		1.0	0.21
78-87-5	1,2-Dichloropropane	11.2		1.0	0.15
591-78-6	2-Hexanone	27.0		10	0.54
67-64-1	Acetone	20.6		10	5.4
71-43-2	Benzene	10.5		1.0	0.13
75-25-2	Bromoform	7.00		1.0	0.76
74-83-9	Bromomethane	6.13		1.0	0.42
75-15-0	Carbon disulfide	6.46		1.0	0.28
56-23-5	Carbon tetrachloride	6.90		1.0	0.26
108-90-7	Chlorobenzene	10.1		1.0	0.14
75-00-3	Chloroethane	6.53		1.0	0.83
67-66-3	Chloroform	9.74		1.0	0.13
74-87-3	Chloromethane	10.9		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	9.37		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	8.83		1.0	0.61
75-27-4	Dichlorobromomethane	9.33		1.0	0.17
100-41-4	Ethylbenzene	10.0		1.0	0.11
78-93-3	2-Butanone (MEK)	21.7		10	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	22.0		10	0.42
75-09-2	Methylene Chloride	10.6		5.0	2.6
100-42-5	Styrene	10.2		1.0	0.10
127-18-4	Tetrachloroethene	8.23		1.0	0.15
108-88-3	Toluene	11.2		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	9.11		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	9.41		1.0	0.67
79-01-6	Trichloroethene	7.44		1.0	0.10
75-01-4	Vinyl chloride	9.09		1.0	0.20
1330-20-7	Xylenes, Total	20.2		2.0	0.15
124-48-1	Chlorodibromomethane	7.94		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-461048/4

Matrix: Water Lab File ID: UXC3780.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 08:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
2037-26-5	Toluene-d8 (Surr)	103		69-122
1868-53-7	Dibromofluoromethane (Surr)	80		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3780.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 08:15:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-004
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.048	0.001	98	2409752	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	93	1653674	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	829043	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	459495	10.0	8.02	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.776	4.776	0.000	99	737864	10.0	9.33	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	2116625	10.0	10.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.820	8.820	0.000	81	745491	10.0	10.4	
9 Dichlorodifluoromethane	85	1.444	1.444	0.000	99	528285	10.0	7.99	
10 Chloromethane	50	1.598	1.598	0.000	99	862169	10.0	10.9	
11 Vinyl chloride	62	1.693	1.693	0.000	99	711455	10.0	9.09	
12 Butadiene	54	1.704	1.704	0.000	96	729683	10.0	8.18	
13 Bromomethane	94	1.965	1.965	0.000	91	403488	10.0	6.13	
14 Chloroethane	64	2.037	2.037	0.000	100	400160	10.0	6.53	
15 Dichlorofluoromethane	67	2.191	2.191	0.000	97	1180670	10.0	7.97	
16 Trichlorofluoromethane	101	2.238	2.238	0.000	98	731386	10.0	5.66	
17 Ethyl ether	59	2.452	2.452	0.000	93	752192	10.0	11.4	
18 Acrolein	56	2.570	2.570	0.000	98	224856	50.0	43.2	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	590091	10.0	8.14	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.665	2.665	0.000	96	355812	10.0	6.51	
21 Acetone	58	2.689	2.689	0.000	99	142004	20.0	20.6	
22 Iodomethane	142	2.784	2.784	0.000	99	824169	10.0	6.42	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1295109	10.0	6.46	
26 3-Chloro-1-propene	76	2.950	2.950	0.000	85	353779	10.0	9.02	
27 Methyl acetate	43	2.961	2.961	0.000	99	1105585	20.0	25.4	
28 Methylene Chloride	84	3.044	3.056	-0.012	98	675818	10.0	10.6	
29 2-Methyl-2-propanol	59	3.127	3.127	0.000	88	277519	100.0	82.8	
30 Acrylonitrile	53	3.258	3.258	0.000	99	2596238	100.0	124.3	
31 Methyl tert-butyl ether	73	3.270	3.270	0.000	96	1516923	10.0	9.03	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	603704	10.0	9.11	
34 Hexane	86	3.483	3.483	0.000	95	97796	10.0	8.58	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	1111623	10.0	10.1	
36 Vinyl acetate	43	3.649	3.649	0.000	98	1054228	10.0	9.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.100	4.100	0.000	100	148893	20.0	21.7	
41 cis-1,2-Dichloroethene	96	4.100	4.100	0.000	85	646335	10.0	9.37	
42 2,2-Dichloropropane	97	4.100	4.100	0.000	64	134178	10.0	7.82	
46 Chlorobromomethane	128	4.290	4.290	0.000	92	272149	10.0	8.04	
47 Tetrahydrofuran	42	4.337	4.337	0.000	89	377787	20.0	23.3	
48 Chloroform	83	4.349	4.349	0.000	97	1078106	10.0	9.74	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	96	732939	10.0	8.04	
50 Cyclohexane	56	4.562	4.562	0.000	95	818417	10.0	9.36	
52 Carbon tetrachloride	117	4.645	4.645	0.000	96	524876	10.0	6.90	
51 1,1-Dichloropropene	75	4.645	4.645	0.000	91	774560	10.0	8.69	
53 Isobutyl alcohol	41	4.717	4.717	0.000	90	483248	250.0	362.5	
55 Benzene	78	4.823	4.823	0.000	97	2747678	10.0	10.5	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	97	988538	10.0	10.3	
58 n-Heptane	100	5.013	5.013	0.000	91	76483	10.0	7.26	
60 Trichloroethene	130	5.357	5.357	0.000	96	525050	10.0	7.44	
62 Methylcyclohexane	83	5.511	5.523	-0.012	95	552296	10.0	7.69	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	94	677419	10.0	11.2	
65 Dibromomethane	93	5.653	5.653	0.000	92	341391	10.0	9.28	
66 1,4-Dioxane	88	5.665	5.665	0.000	33	82994	200.0	227.9	
67 Dichlorobromomethane	83	5.784	5.772	0.012	98	668349	10.0	9.33	
69 2-Chloroethyl vinyl ether	63	6.021	6.021	0.000	93	325655	10.0	9.19	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	771455	10.0	8.83	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1131540	20.0	22.0	
72 Toluene	91	6.460	6.460	0.000	97	2673919	10.0	11.2	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	99	632135	10.0	9.41	
74 Ethyl methacrylate	69	6.721	6.721	0.000	90	630389	10.0	11.4	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	93	531917	10.0	12.5	
76 Tetrachloroethene	164	6.946	6.946	0.000	90	360965	10.0	8.23	
77 1,3-Dichloropropane	76	6.970	6.970	0.000	96	995653	10.0	12.6	
78 2-Hexanone	43	7.041	7.041	0.000	99	800366	20.0	27.0	
80 Chlorodibromomethane	129	7.183	7.183	0.000	89	373448	10.0	7.94	
82 Ethylene Dibromide	107	7.290	7.290	0.000	98	474603	10.0	10.8	
84 Chlorobenzene	112	7.740	7.740	0.000	96	1537702	10.0	10.1	
85 1,1,1,2-Tetrachloroethane	131	7.812	7.812	0.000	90	457285	10.0	9.30	
86 Ethylbenzene	106	7.835	7.835	0.000	99	785111	10.0	10.0	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	2062508	10.0	10.7	
88 o-Xylene	106	8.322	8.322	0.000	96	922810	10.0	9.49	
89 Styrene	104	8.333	8.333	0.000	94	1658827	10.0	10.2	
90 Bromoform	173	8.523	8.523	0.000	93	173151	10.0	7.00	
91 Isopropylbenzene	105	8.665	8.665	0.000	97	2074949	10.0	8.94	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	694615	10.0	14.4	
95 Bromobenzene	156	8.974	8.974	0.000	97	555019	10.0	10.1	
97 trans-1,4-Dichloro-2-butene	53	9.009	9.009	0.000	74	187778	10.0	12.7	
96 1,2,3-Trichloropropane	110	8.997	9.009	-0.012	91	211877	10.0	12.7	
98 N-Propylbenzene	120	9.057	9.069	-0.012	99	555196	10.0	10.5	
99 2-Chlorotoluene	126	9.152	9.152	0.000	99	535152	10.0	10.6	
101 1,3,5-Trimethylbenzene	105	9.235	9.235	0.000	94	1780505	10.0	10.9	
102 4-Chlorotoluene	91	9.258	9.258	0.000	99	2196901	10.0	12.8	
104 tert-Butylbenzene	119	9.555	9.555	0.000	93	1245765	10.0	9.31	
106 1,2,4-Trimethylbenzene	105	9.602	9.602	0.000	97	1916697	10.0	11.3	
107 sec-Butylbenzene	105	9.768	9.768	0.000	95	1758353	10.0	10.2	
108 1,3-Dichlorobenzene	146	9.875	9.887	-0.012	95	1019296	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	9.911	9.911	0.000	97	1520001	10.0	9.54	
110 1,4-Dichlorobenzene	146	9.970	9.970	0.000	90	1108357	10.0	10.1	
113 n-Butylbenzene	91	10.314	10.314	0.000	98	1221725	10.0	9.74	
114 1,2-Dichlorobenzene	146	10.337	10.337	0.000	94	1016561	10.0	9.73	
115 1,2-Dibromo-3-Chloropropane	157	11.108	11.108	0.000	67	62903	10.0	7.68	
117 1,2,4-Trichlorobenzene	180	11.938	11.938	0.000	93	357304	10.0	6.37	
118 Hexachlorobutadiene	225	12.104	12.104	0.000	95	128863	10.0	5.17	
119 Naphthalene	128	12.187	12.187	0.000	97	1031611	10.0	7.16	
120 1,2,3-Trichlorobenzene	180	12.425	12.425	0.000	95	365281	10.0	7.18	
S 129 Xylenes, Total	106				0		20.0	20.1	
S 130 Total BTEX	1				0		50.0	51.8	
S 131 Trihalomethanes, Total	1				0		40.0	34.0	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00373	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

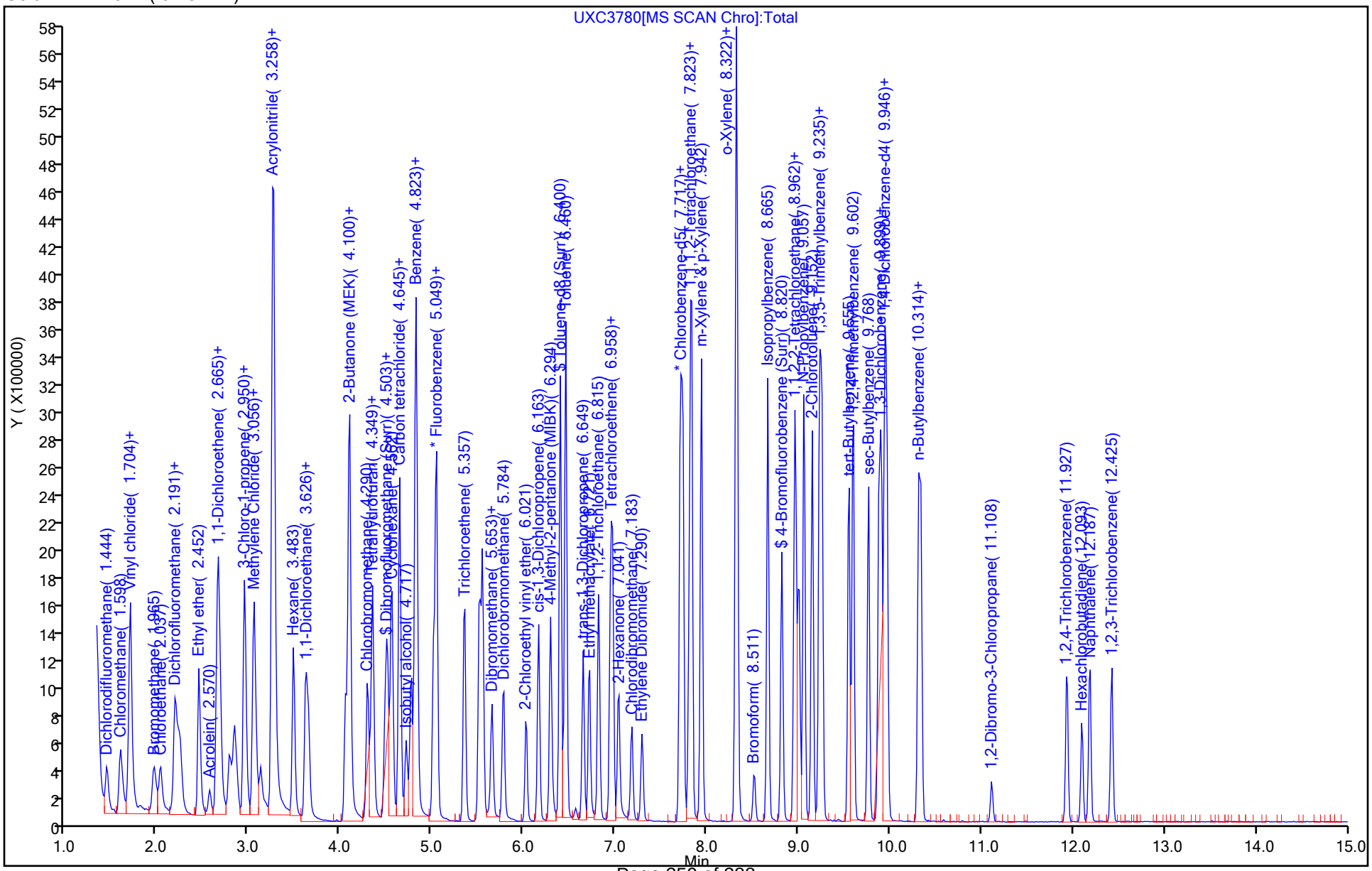
Report Date: 16-Nov-2020 07:51:15 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3780.D

Injection Date:	15-Nov-2020 08:15:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3780.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2020 08:15:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0103972-004
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:51:12 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	8.02	80.19
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.33	93.33
$ 6 Toluene-d8 (Surr)	10.0	10.3	103.06
$ 7 4-Bromofluorobenzene (Surr)	10.0	10.4	103.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-002 MS Lab Sample ID: 240-139671-2 MS

Matrix: Water Lab File ID: UXC3807.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 18:05

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	76.2		10	2.4
79-34-5	1,1,2,2-Tetrachloroethane	135		10	1.3
79-00-5	1,1,2-Trichloroethane	123		10	0.90
75-34-3	1,1-Dichloroethane	108		10	1.7
75-35-4	1,1-Dichloroethene	81.5		10	1.9
107-06-2	1,2-Dichloroethane	103		10	2.1
78-87-5	1,2-Dichloropropane	104		10	1.5
591-78-6	2-Hexanone	254		100	5.4
67-64-1	Acetone	187		100	54
71-43-2	Benzene	101		10	1.3
75-25-2	Bromoform	65.9		10	7.6
74-83-9	Bromomethane	71.0		10	4.2
75-15-0	Carbon disulfide	54.5		10	2.8
56-23-5	Carbon tetrachloride	64.5		10	2.6
108-90-7	Chlorobenzene	96.7		10	1.4
75-00-3	Chloroethane	63.9		10	8.3
67-66-3	Chloroform	93.3		10	1.3
74-87-3	Chloromethane	115		10	2.0
156-59-2	cis-1,2-Dichloroethene	275		10	1.6
10061-01-5	cis-1,3-Dichloropropene	70.2		10	6.1
75-27-4	Dichlorobromomethane	88.3		10	1.7
100-41-4	Ethylbenzene	92.6		10	1.1
78-93-3	2-Butanone (MEK)	215		100	12
108-10-1	4-Methyl-2-pentanone (MIBK)	192		100	4.2
75-09-2	Methylene Chloride	101		50	26
100-42-5	Styrene	96.9		10	1.0
127-18-4	Tetrachloroethene	77.5		10	1.5
108-88-3	Toluene	107		10	1.4
156-60-5	trans-1,2-Dichloroethene	94.7		10	1.9
10061-02-6	trans-1,3-Dichloropropene	82.7		10	6.7
79-01-6	Trichloroethene	69.5		10	1.0
75-01-4	Vinyl chloride	110		10	2.0
1330-20-7	Xylenes, Total	187		20	1.5
124-48-1	Chlorodibromomethane	74.2		10	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-002 MS Lab Sample ID: 240-139671-2 MS

Matrix: Water Lab File ID: UXC3807.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 18:05

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
2037-26-5	Toluene-d8 (Surr)	100		69-122
1868-53-7	Dibromofluoromethane (Surr)	78		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3807.D
Lims ID: 240-139671-B-2 MS
Client ID:
Sample Type: MS
Inject. Date: 15-Nov-2020 18:05:30 ALS Bottle#: 29 Worklist Smp#: 57
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-057
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.048	0.000	98	2344247	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	89	1576550	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	97	829216	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	91	437474	10.0	7.85	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	710426	10.0	9.24	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	94	1967228	10.0	10.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	81	698346	10.0	10.2	
10 Chloromethane	50	1.598	1.598	0.000	99	885547	10.0	11.5	
11 Vinyl chloride	62	1.693	1.693	0.000	98	839140	10.0	11.0	
13 Bromomethane	94	1.953	1.965	-0.012	90	454370	10.0	7.10	
14 Chloroethane	64	2.025	2.037	-0.012	99	381173	10.0	6.39	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	574887	10.0	8.15	
21 Acetone	58	2.689	2.689	0.000	98	127235	20.0	18.7	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1064006	10.0	5.45	
28 Methylene Chloride	84	3.044	3.056	-0.012	98	624676	10.0	10.1	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	96	610683	10.0	9.47	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	1154131	10.0	10.8	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	143383	20.0	21.5	
41 cis-1,2-Dichloroethene	96	4.088	4.100	-0.012	84	1844859	10.0	27.5	
48 Chloroform	83	4.349	4.349	0.000	94	1004116	10.0	9.33	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	95	676206	10.0	7.62	
52 Carbon tetrachloride	117	4.645	4.645	0.000	72	477080	10.0	6.45	
55 Benzene	78	4.823	4.823	0.000	97	2571539	10.0	10.1	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	97	959559	10.0	10.3	
60 Trichloroethene	130	5.357	5.357	0.000	95	476906	10.0	6.95	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	89	614359	10.0	10.4	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	615661	10.0	8.83	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	596638	10.0	7.02	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	98	964033	20.0	19.2	
72 Toluene	91	6.460	6.460	0.000	97	2432863	10.0	10.7	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	99	529312	10.0	8.27	
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	94	500655	10.0	12.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
76 Tetrachloroethene	164	6.946	6.946	0.000	91	324249	10.0	7.75	
78 2-Hexanone	43	7.029	7.041	-0.012	99	716237	20.0	25.4	
80 Chlorodibromomethane	129	7.183	7.183	0.000	91	331047	10.0	7.42	
84 Chlorobenzene	112	7.740	7.740	0.000	91	1405068	10.0	9.67	
86 Ethylbenzene	106	7.835	7.835	0.000	99	692049	10.0	9.26	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1830454	10.0	9.92	
88 o-Xylene	106	8.321	8.322	-0.001	95	810123	10.0	8.74	
89 Styrene	104	8.333	8.333	0.000	95	1496415	10.0	9.69	
90 Bromoform	173	8.523	8.523	0.000	94	153668	10.0	6.59	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	96	650759	10.0	13.5	
S 129 Xylenes, Total	106				0		20.0	18.7	

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00373	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

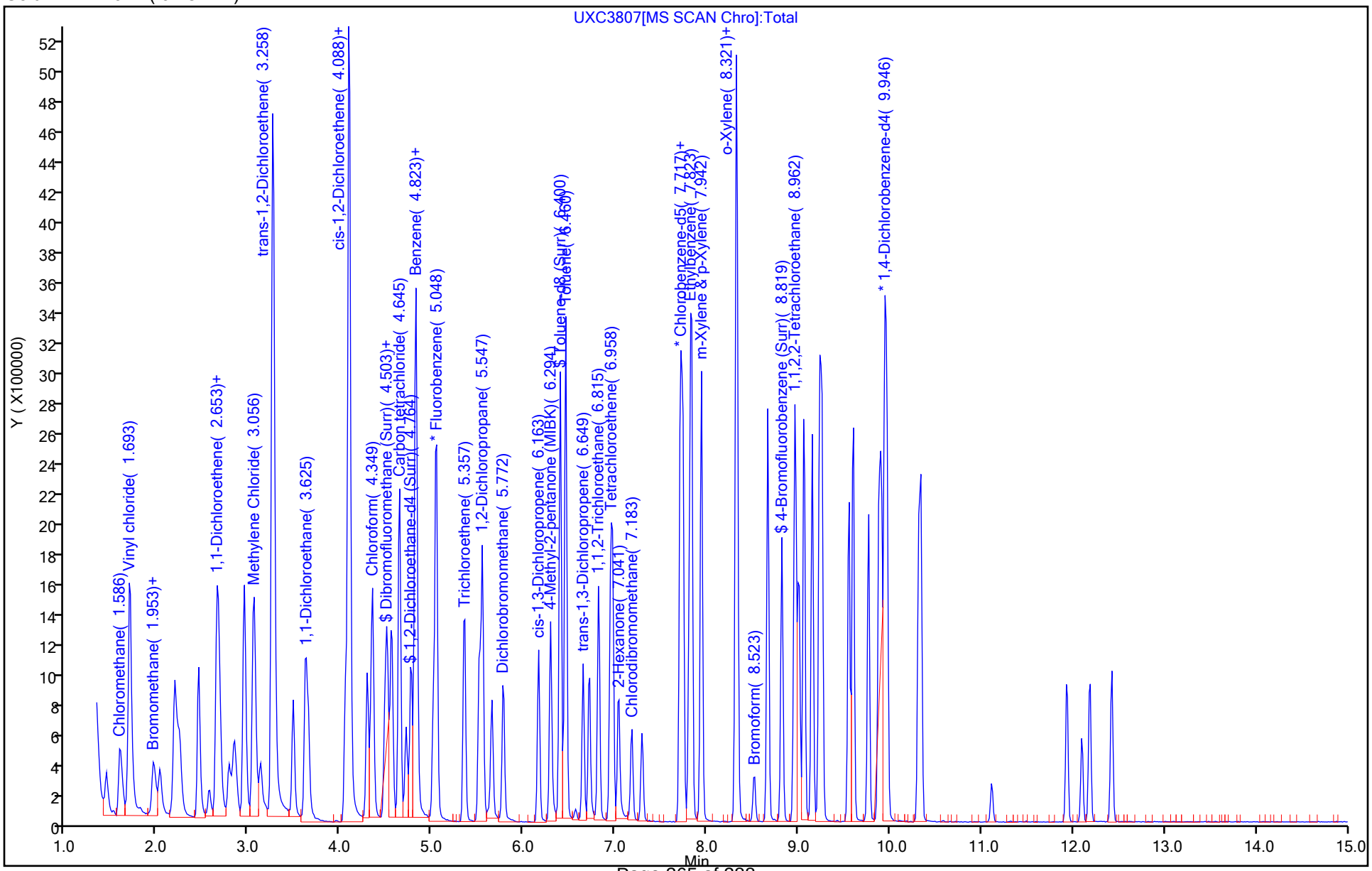
Report Date: 16-Nov-2020 07:53:55 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3807.D

Injection Date:	15-Nov-2020 18:05:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139671-B-2 MS			Worklist Smp#:	57
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	29
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3807.D
Lims ID: 240-139671-B-2 MS
Client ID:
Sample Type: MS
Inject. Date: 15-Nov-2020 18:05:30 ALS Bottle#: 29 Worklist Smp#: 57
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-057
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	7.85	78.48
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.24	92.37
$ 6 Toluene-d8 (Surr)	10.0	10.0	100.47
$ 7 4-Bromofluorobenzene (Surr)	10.0	10.2	101.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-002 MSD Lab Sample ID: 240-139671-2 MSD

Matrix: Water Lab File ID: UXC3808.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 18:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	81.0		10	2.4
79-34-5	1,1,2,2-Tetrachloroethane	145		10	1.3
79-00-5	1,1,2-Trichloroethane	126		10	0.90
75-34-3	1,1-Dichloroethane	114		10	1.7
75-35-4	1,1-Dichloroethene	84.1		10	1.9
107-06-2	1,2-Dichloroethane	104		10	2.1
78-87-5	1,2-Dichloropropane	111		10	1.5
591-78-6	2-Hexanone	267		100	5.4
67-64-1	Acetone	198		100	54
71-43-2	Benzene	103		10	1.3
75-25-2	Bromoform	69.0		10	7.6
74-83-9	Bromomethane	74.1		10	4.2
75-15-0	Carbon disulfide	59.8		10	2.8
56-23-5	Carbon tetrachloride	69.5		10	2.6
108-90-7	Chlorobenzene	97.7		10	1.4
75-00-3	Chloroethane	60.8		10	8.3
67-66-3	Chloroform	99.1		10	1.3
74-87-3	Chloromethane	114		10	2.0
156-59-2	cis-1,2-Dichloroethene	281		10	1.6
10061-01-5	cis-1,3-Dichloropropene	77.0		10	6.1
75-27-4	Dichlorobromomethane	91.3		10	1.7
100-41-4	Ethylbenzene	94.9		10	1.1
78-93-3	2-Butanone (MEK)	230		100	12
108-10-1	4-Methyl-2-pentanone (MIBK)	207		100	4.2
75-09-2	Methylene Chloride	107		50	26
100-42-5	Styrene	97.2		10	1.0
127-18-4	Tetrachloroethene	78.9		10	1.5
108-88-3	Toluene	110		10	1.4
156-60-5	trans-1,2-Dichloroethene	98.8		10	1.9
10061-02-6	trans-1,3-Dichloropropene	87.2		10	6.7
79-01-6	Trichloroethene	71.6		10	1.0
75-01-4	Vinyl chloride	112		10	2.0
1330-20-7	Xylenes, Total	189		20	1.5
124-48-1	Chlorodibromomethane	77.5		10	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Client Sample ID: SW-110320-BE-002 MSD Lab Sample ID: 240-139671-2 MSD

Matrix: Water Lab File ID: UXC3808.D

Analysis Method: 8260B Date Collected: 11/03/2020 16:12

Sample wt/vol: 5(mL) Date Analyzed: 11/15/2020 18:27

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 461048 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
2037-26-5	Toluene-d8 (Surr)	104		69-122
1868-53-7	Dibromofluoromethane (Surr)	79		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3808.D
Lims ID: 240-139671-B-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 15-Nov-2020 18:27:30 ALS Bottle#: 30 Worklist Smp#: 58
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-058
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:53:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.048	5.048	0.000	98	2370468	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.717	7.717	0.000	89	1580279	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	9.946	9.946	0.000	95	811531	10.0	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.479	4.491	-0.012	92	445550	10.0	7.90	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.764	4.776	-0.012	99	726346	10.0	9.34	
$ 6 Toluene-d8 (Surr)	98	6.400	6.400	0.000	95	2044726	10.0	10.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.819	8.820	-0.001	81	711773	10.0	10.4	
10 Chloromethane	50	1.598	1.598	0.000	99	881361	10.0	11.4	
11 Vinyl chloride	62	1.693	1.693	0.000	98	863995	10.0	11.2	
13 Bromomethane	94	1.953	1.965	-0.012	92	479678	10.0	7.41	
14 Chloroethane	64	2.025	2.037	-0.012	99	366475	10.0	6.08	
19 1,1-Dichloroethene	96	2.653	2.653	0.000	94	599823	10.0	8.41	
21 Acetone	58	2.689	2.689	0.000	98	135107	20.0	19.8	
24 Carbon disulfide	76	2.843	2.843	0.000	100	1179885	10.0	5.98	
28 Methylene Chloride	84	3.044	3.056	-0.012	97	669855	10.0	10.7	
32 trans-1,2-Dichloroethene	96	3.270	3.270	0.000	95	643980	10.0	9.88	
35 1,1-Dichloroethane	63	3.614	3.626	-0.012	97	1232232	10.0	11.4	
40 2-Butanone (MEK)	72	4.100	4.100	0.000	99	155016	20.0	23.0	
41 cis-1,2-Dichloroethene	96	4.088	4.100	-0.012	84	1908366	10.0	28.1	
48 Chloroform	83	4.349	4.349	0.000	94	1078090	10.0	9.91	
49 1,1,1-Trichloroethane	97	4.515	4.515	0.000	95	726964	10.0	8.10	
52 Carbon tetrachloride	117	4.645	4.645	0.000	75	519735	10.0	6.95	
55 Benzene	78	4.823	4.823	0.000	97	2667597	10.0	10.3	
56 1,2-Dichloroethane	62	4.835	4.835	0.000	98	987252	10.0	10.4	
60 Trichloroethene	130	5.357	5.357	0.000	95	496784	10.0	7.16	
63 1,2-Dichloropropane	63	5.547	5.547	0.000	93	657417	10.0	11.1	
67 Dichlorobromomethane	83	5.772	5.772	0.000	97	643338	10.0	9.13	
70 cis-1,3-Dichloropropene	75	6.163	6.163	0.000	90	661892	10.0	7.70	
71 4-Methyl-2-pentanone (MIBK)	43	6.294	6.294	0.000	99	1049078	20.0	20.7	
72 Toluene	91	6.460	6.460	0.000	97	2509062	10.0	11.0	
73 trans-1,3-Dichloropropene	75	6.649	6.649	0.000	99	559381	10.0	8.72	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
75 1,1,2-Trichloroethane	97	6.815	6.815	0.000	94	513072	10.0	12.6	
76 Tetrachloroethene	164	6.946	6.946	0.000	89	330847	10.0	7.89	
78 2-Hexanone	43	7.041	7.041	0.000	98	756098	20.0	26.7	
80 Chlorodibromomethane	129	7.183	7.183	0.000	90	347748	10.0	7.75	
84 Chlorobenzene	112	7.740	7.740	0.000	91	1422779	10.0	9.77	
86 Ethylbenzene	106	7.835	7.835	0.000	99	710980	10.0	9.49	
87 m-Xylene & p-Xylene	91	7.942	7.942	0.000	93	1815099	10.0	9.81	
88 o-Xylene	106	8.321	8.322	-0.001	98	844038	10.0	9.08	
89 Styrene	104	8.333	8.333	0.000	94	1503736	10.0	9.72	
90 Bromoform	173	8.523	8.523	0.000	92	162592	10.0	6.90	
94 1,1,2,2-Tetrachloroethane	83	8.950	8.950	0.000	95	684836	10.0	14.5	
S 129 Xylenes, Total	106				0		20.0	18.9	

QC Flag Legend

Processing Flags

Reagents:

VMFASGW_00384	Amount Added:	8.00	Units: uL	
VMFASAW_00351	Amount Added:	8.00	Units: uL	
VMFASPW_00373	Amount Added:	8.00	Units: uL	
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
VM50IS_00085	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00086	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00183	Amount Added:	0.00	Units:	Run Reagent

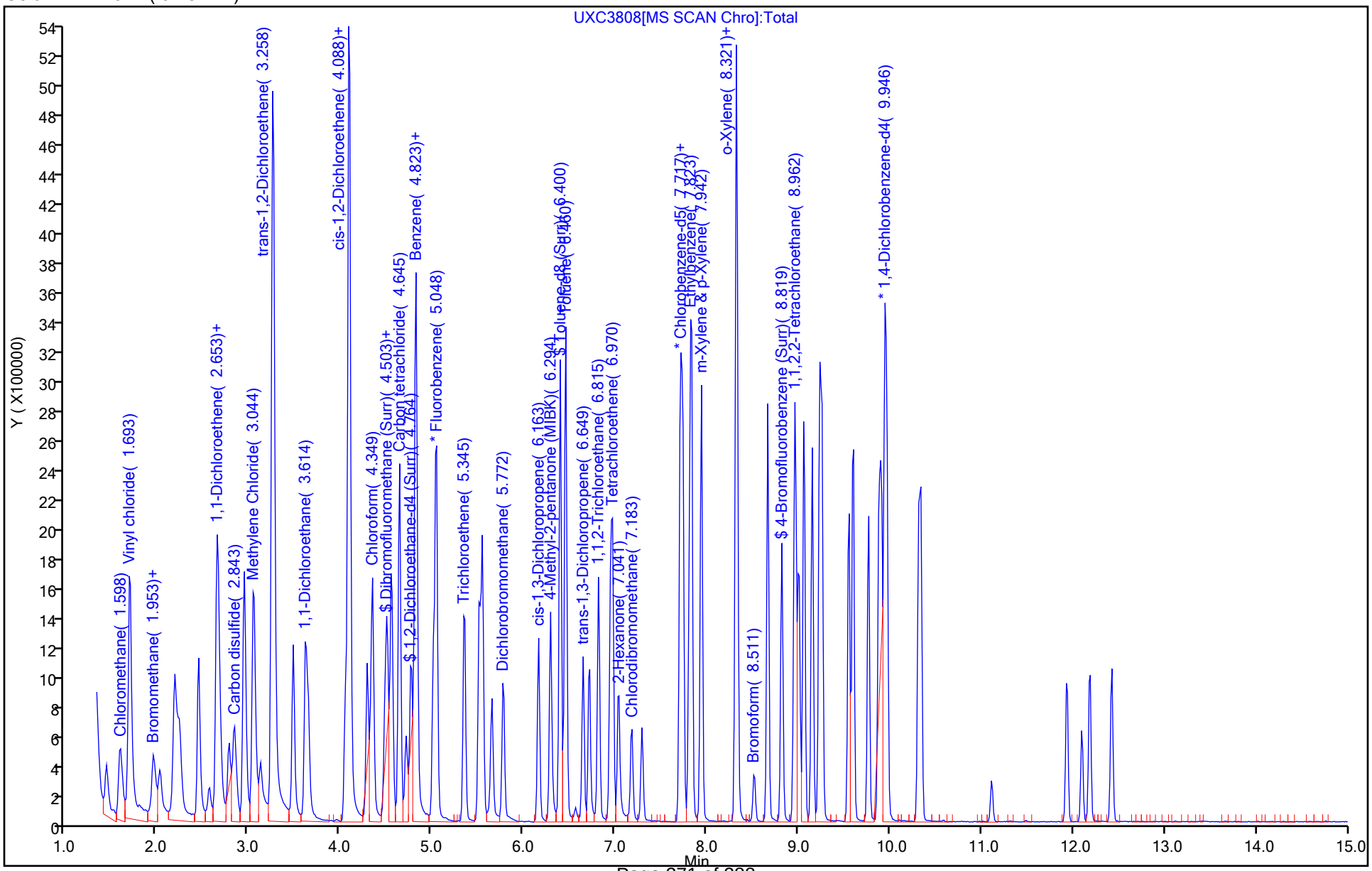
Report Date: 16-Nov-2020 07:53:56 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3808.D

Injection Date:	15-Nov-2020 18:27:30	Instrument ID:	A3UX15	Operator ID:	43582
Lims ID:	240-139671-B-2 MSD			Worklist Smp#:	58
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	30
Method:	8260_15	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\UXC3808.D
Lims ID: 240-139671-B-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 15-Nov-2020 18:27:30 ALS Bottle#: 30 Worklist Smp#: 58
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0103972-058
Misc. Info.: C201115A,8260LLUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15

Method: \\chromfs\Canton\ChromData\A3UX15\20201115-103972.b\8260_15.m
Limit Group: MSV 8260B ICAL
Last Update: 16-Nov-2020 07:53:48 Calib Date: 15-Jul-2020 13:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX15\20200715-100056.b\UXC0329.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: evansle Date: 16-Nov-2020 07:53:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	10.0	7.90	79.05
$ 5 1,2-Dichloroethane-d4 (Surr)	10.0	9.34	93.40
$ 6 Toluene-d8 (Surr)	10.0	10.4	104.19
$ 7 4-Bromofluorobenzene (Surr)	10.0	10.4	103.52

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Instrument ID: A3UX15 Start Date: 07/15/2020 07:58

Analysis Batch Number: 442673 End Date: 07/15/2020 14:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-442673/1		07/15/2020 07:58	1	BFB715.D	DB-624 0.18(mm)
STD8260 240-442673/2 IC		07/15/2020 08:39	1	UXC0317.D	DB-624 0.18(mm)
STD8260 240-442673/3 IC		07/15/2020 09:01	1	UXC0318.D	DB-624 0.18(mm)
STD8260 240-442673/4 ICIS		07/15/2020 09:23	1	UXC0319.D	DB-624 0.18(mm)
STD8260 240-442673/5 IC		07/15/2020 09:45	1	UXC0320.D	DB-624 0.18(mm)
STD8260 240-442673/6 IC		07/15/2020 10:07	1	UXC0321.D	DB-624 0.18(mm)
STD8260 240-442673/7 IC		07/15/2020 10:29	1	UXC0322.D	DB-624 0.18(mm)
ICV 240-442673/14		07/15/2020 10:50	1	UXC0323.D	DB-624 0.18(mm)
STD 240-442673/8 IC		07/15/2020 11:12	1	UXC0324.D	DB-624 0.18(mm)
STD 240-442673/9 IC		07/15/2020 11:34	1	UXC0325.D	DB-624 0.18(mm)
STD 240-442673/10 IC		07/15/2020 11:56	1	UXC0326.D	DB-624 0.18(mm)
STD 240-442673/11 IC		07/15/2020 12:17	1	UXC0327.D	DB-624 0.18(mm)
STD 240-442673/12 IC		07/15/2020 12:39	1	UXC0328.D	DB-624 0.18(mm)
STD 240-442673/13 IC		07/15/2020 13:01	1	UXC0329.D	DB-624 0.18(mm)
ICV 240-442673/15		07/15/2020 13:23	1	UXC0330.D	DB-624 0.18(mm)
MRL 240-442673/16 MDLV		07/15/2020 13:45	1		DB-624 0.18(mm)
MRL 240-442673/17 MDLV		07/15/2020 14:06	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Instrument ID: A3UX11 Start Date: 07/23/2020 10:40

Analysis Batch Number: 443953 End Date: 07/23/2020 19:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-443953/1		07/23/2020 10:40	1	BFB723B.D	DB-624 0.18(mm)
STD8260 240-443953/2 IC		07/23/2020 11:03	1	UXJ1034.D	DB-624 0.18(mm)
STD8260 240-443953/3 IC		07/23/2020 11:26	1	UXJ1035.D	DB-624 0.18(mm)
STD8260 240-443953/4 ICIS		07/23/2020 11:48	1	UXJ1036.D	DB-624 0.18(mm)
STD8260 240-443953/5 IC		07/23/2020 12:11	1	UXJ1037.D	DB-624 0.18(mm)
STD8260 240-443953/6 IC		07/23/2020 12:33	1	UXJ1038.D	DB-624 0.18(mm)
STD8260 240-443953/7 IC		07/23/2020 12:55	1	UXJ1039.D	DB-624 0.18(mm)
ICV 240-443953/14		07/23/2020 13:18	1	UXJ1040.D	DB-624 0.18(mm)
STD6 240-443953/8 IC		07/23/2020 13:40	1		DB-624 0.18(mm)
STD5 240-443953/9 IC		07/23/2020 14:02	1		DB-624 0.18(mm)
STD4 240-443953/10 IC		07/23/2020 14:25	1		DB-624 0.18(mm)
STD3 240-443953/11 IC		07/23/2020 14:47	1		DB-624 0.18(mm)
STD2 240-443953/12 IC		07/23/2020 15:09	1		DB-624 0.18(mm)
STD1 240-443953/13 IC		07/23/2020 15:32	1		DB-624 0.18(mm)
ICV 240-443953/15		07/23/2020 15:54	1	UXJ1047.D	DB-624 0.18(mm)
MRL 240-443953/22 MDLV		07/23/2020 16:16	1		DB-624 0.18(mm)
240-132987-A-1 MDLV		07/23/2020 16:39	1		DB-624 0.18(mm)
STD 240-443953/16 IC		07/23/2020 17:01	1		DB-624 0.18(mm)
STD 240-443953/17 IC		07/23/2020 17:23	1		DB-624 0.18(mm)
STD 240-443953/18 IC		07/23/2020 17:46	1		DB-624 0.18(mm)
STD 240-443953/19 IC		07/23/2020 18:08	1		DB-624 0.18(mm)
STD 240-443953/20 IC		07/23/2020 18:30	1		DB-624 0.18(mm)
STD 240-443953/21 IC		07/23/2020 18:53	1		DB-624 0.18(mm)
MRL 240-443953/24 MDLV		07/23/2020 19:15	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Instrument ID: A3UX11 Start Date: 11/15/2020 07:37

Analysis Batch Number: 461046 End Date: 11/15/2020 19:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-461046/1		11/15/2020 07:37	1	BFB1115B.D	DB-624 0.18(mm)
CCVIS 240-461046/2		11/15/2020 08:06	1	UXJ4077.D	DB-624 0.18(mm)
LCS 240-461046/4		11/15/2020 08:28	1	UXJ4078.D	DB-624 0.18(mm)
CCV 240-461046/3		11/15/2020 08:51	1	UXJ4079.D	DB-624 0.18(mm)
LCS 240-461046/9		11/15/2020 09:13	1	UXJ4080.D	DB-624 0.18(mm)
MRL 240-461046/5 MDLV		11/15/2020 09:36	1		DB-624 0.18(mm)
MRL 240-461046/7 MDLV		11/15/2020 09:58	1		DB-624 0.18(mm)
MB 240-461046/6		11/15/2020 10:21	1	UXJ4083.D	DB-624 0.18(mm)
ZZZZZ		11/15/2020 11:06	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 11:28	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 11:50	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:13	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:35	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:57	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 13:19	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 13:42	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 14:04	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 14:27	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 14:49	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 15:12	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 15:34	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 15:57	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 16:19	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 16:41	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 17:04	3.33		DB-624 0.18(mm)
ZZZZZ		11/15/2020 17:26	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 17:49	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 18:11	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 18:34	1		DB-624 0.18(mm)
240-139671-3	SW-110320-BE-003	11/15/2020 18:56	2.5	UXJ4106.D	DB-624 0.18(mm)
240-139671-4	TB-110320-BE-001	11/15/2020 19:18	1	UXJ4107.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Instrument ID: A3UX15 Start Date: 11/15/2020 07:23

Analysis Batch Number: 461048 End Date: 11/15/2020 18:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-461048/1		11/15/2020 07:23	1	BFB1115A.D	DB-624 0.18(mm)
CCVIS 240-461048/2		11/15/2020 07:53	1	UXC3779.D	DB-624 0.18(mm)
LCS 240-461048/4		11/15/2020 08:15	1	UXC3780.D	DB-624 0.18(mm)
CCV 240-461048/3		11/15/2020 08:37	1	UXC3781.D	DB-624 0.18(mm)
MRL 240-461048/5 MDLV		11/15/2020 09:21	1		DB-624 0.18(mm)
MRL 240-461048/6 MDLV		11/15/2020 09:43	1		DB-624 0.18(mm)
MB 240-461048/7		11/15/2020 10:05	1	UXC3785.D	DB-624 0.18(mm)
ZZZZZ		11/15/2020 11:54	2		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:16	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:38	2		DB-624 0.18(mm)
ZZZZZ		11/15/2020 12:59	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 13:21	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 13:43	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 14:05	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 14:27	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 14:49	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 15:32	1		DB-624 0.18(mm)
ZZZZZ		11/15/2020 15:54	142.86		DB-624 0.18(mm)
ZZZZZ		11/15/2020 16:16	333.33		DB-624 0.18(mm)
ZZZZZ		11/15/2020 16:38	142.86		DB-624 0.18(mm)
240-139671-1	SW-110320-BE-001	11/15/2020 17:21	10	UXC3805.D	DB-624 0.18(mm)
240-139671-2	SW-110320-BE-002	11/15/2020 17:43	10	UXC3806.D	DB-624 0.18(mm)
240-139671-2 MS	SW-110320-BE-002 MS	11/15/2020 18:05	10	UXC3807.D	DB-624 0.18(mm)
240-139671-2 MSD	SW-110320-BE-002 MSD	11/15/2020 18:27	10	UXC3808.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 442673 Batch Start Date: 07/15/20 07:58 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VM50is 00084	vm50ss_stk 00085	VMAROLISTDW 00352	vmbfb 00025
BFB 240-442673/1		8260B		5 mL	5 mL				1 uL
STD8260 240-442673/2 IC		8260B		5 mL	5 mL	1 uL	32 uL	32 uL	
STD8260 240-442673/3 IC		8260B		5 mL	5 mL	1 uL	16 uL	16 uL	
STD8260 240-442673/4 ICIS		8260B		5 mL	5 mL	1 uL	8 uL	8 uL	
STD8260 240-442673/5 IC		8260B		5 mL	5 mL	1 uL	4 uL	4 uL	
STD8260 240-442673/6 IC		8260B		5 mL	5 mL	1 uL	1.6 uL	1.6 uL	
STD8260 240-442673/7 IC		8260B		5 mL	5 mL	1 uL	0.8 uL	0.8 uL	
STD 240-442673/8 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/9 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/10 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/11 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/12 IC		8260B		5 mL	5 mL	1 uL			
STD 240-442673/13 IC		8260B		5 mL	5 mL	1 uL			
ICV 240-442673/14		8260B		5 mL	5 mL	1 uL	1 uL		
ICV 240-442673/15		8260B		5 mL	5 mL	1 uL	1 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00284	VMFASAW 00335	VMFASGW 00366	VMFASPW 00358	VMRA9W 00352	VMRGAS 00346
BFB 240-442673/1		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 442673 Batch Start Date: 07/15/20 07:58 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00284	VMFASAW 00335	VMFASGW 00366	VMFASPW 00358	VMRA9W 00352	VMRGAS 00346
STD8260 240-442673/2 IC		8260B							32 uL
STD8260 240-442673/3 IC		8260B							16 uL
STD8260 240-442673/4 ICIS		8260B							8 uL
STD8260 240-442673/5 IC		8260B							4 uL
STD8260 240-442673/6 IC		8260B							1.6 uL
STD8260 240-442673/7 IC		8260B							0.8 uL
STD 240-442673/8 IC		8260B						32 uL	
STD 240-442673/9 IC		8260B						16 uL	
STD 240-442673/10 IC		8260B						8 uL	
STD 240-442673/11 IC		8260B						4 uL	
STD 240-442673/12 IC		8260B						1.6 uL	
STD 240-442673/13 IC		8260B						0.8 uL	
ICV 240-442673/14		8260B			8 uL	8 uL	8 uL		
ICV 240-442673/15		8260B		8 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRPRIMW 00393					
BFB 240-442673/1		8260B							
STD8260 240-442673/2 IC		8260B		32 uL					
STD8260 240-442673/3 IC		8260B		16 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 442673 Batch Start Date: 07/15/20 07:58 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRPRIMW 00393					
STD8260 240-442673/4 ICIS		8260B		8 uL					
STD8260 240-442673/5 IC		8260B		4 uL					
STD8260 240-442673/6 IC		8260B		1.6 uL					
STD8260 240-442673/7 IC		8260B		0.8 uL					
STD 240-442673/8 IC		8260B							
STD 240-442673/9 IC		8260B							
STD 240-442673/10 IC		8260B							
STD 240-442673/11 IC		8260B							
STD 240-442673/12 IC		8260B							
STD 240-442673/13 IC		8260B							
ICV 240-442673/14		8260B							
ICV 240-442673/15		8260B							

Batch Notes	
pH Indicator ID	HC861525

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 443953 Batch Start Date: 07/23/20 10:40 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VM50IS 00084	vm50ss_stk 00085	VMAROLISTDW 00353	vmbfb 00025
BFB 240-443953/1		8260B		5 mL	5 mL				1 uL
STD8260 240-443953/2 IC		8260B		5 mL	5 mL	2 uL	32 uL	32 uL	
STD8260 240-443953/3 IC		8260B		5 mL	5 mL	2 uL	16 uL	16 uL	
STD8260 240-443953/4 ICIS		8260B		5 mL	5 mL	2 uL	8 uL	8 uL	
STD8260 240-443953/5 IC		8260B		5 mL	5 mL	2 uL	4 uL	4 uL	
STD8260 240-443953/6 IC		8260B		5 mL	5 mL	2 uL	1.6 uL	1.6 uL	
STD8260 240-443953/7 IC		8260B		5 mL	5 mL	2 uL	0.8 uL	0.8 uL	
ICV 240-443953/14		8260B		5 mL	5 mL	2 uL	2 uL		
ICV 240-443953/15		8260B		5 mL	5 mL	2 uL	2 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00285	VMFASAW 00336	VMFASGW 00368	VMFASPW 00359	VMRGAS 00348	VMRPRIMW 00394
BFB 240-443953/1		8260B							
STD8260 240-443953/2 IC		8260B						32 uL	32 uL
STD8260 240-443953/3 IC		8260B						16 uL	16 uL
STD8260 240-443953/4 ICIS		8260B						8 uL	8 uL
STD8260 240-443953/5 IC		8260B						4 uL	4 uL
STD8260 240-443953/6 IC		8260B						1.6 uL	1.6 uL
STD8260 240-443953/7 IC		8260B						0.8 uL	0.8 uL
ICV 240-443953/14		8260B			8 uL	8 uL	8 uL		
ICV 240-443953/15		8260B		8 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 443953 Batch Start Date: 07/23/20 10:40 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Batch Notes	
pH Indicator ID	hc861525

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 461046 Batch Start Date: 11/15/20 07:37 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VM50IS 00084	VM50IS 00085	vm50ss_stk 00086
BFB 240-461046/1		8260B		5 mL	5 mL				
CCVIS 240-461046/2		8260B		5 mL	5 mL			2 uL	2 uL
CCV 240-461046/3		8260B		5 mL	5 mL		2 uL		
LCS 240-461046/4		8260B		5 mL	5 mL			2 uL	2 uL
MB 240-461046/6		8260B		5 mL	5 mL			2 uL	2 uL
LCS 240-461046/9		8260B		5 mL	5 mL			2 uL	2 uL
240-139671-B-3	SW-110320-BE-003	8260B	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-139671-A-4	TB-110320-BE-001	8260B	T	5 mL	5 mL	<2 SU		2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMAROLISTDW 00368	vmbfb 00025	VMFASA9W 00297	VMFASAW 00351	VMFASGW 00384	VMFASPW 00373
BFB 240-461046/1		8260B			1 uL				
CCVIS 240-461046/2		8260B		8 uL					
CCV 240-461046/3		8260B							
LCS 240-461046/4		8260B					8 uL	8 uL	8 uL
MB 240-461046/6		8260B							
LCS 240-461046/9		8260B				8 uL			
240-139671-B-3	SW-110320-BE-003	8260B	T						
240-139671-A-4	TB-110320-BE-001	8260B	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRA9W 00368	VMRGAS 00362	VMRPRIMW 00411			
BFB 240-461046/1		8260B							
CCVIS 240-461046/2		8260B			8 uL	8 uL			
CCV 240-461046/3		8260B		8 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 461046 Batch Start Date: 11/15/20 07:37 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRA9W 00368	VMRGAS 00362	VMRPRIMW 00411			
LCS 240-461046/4		8260B							
MB 240-461046/6		8260B							
LCS 240-461046/9		8260B							
240-139671-B-3	SW-110320-BE-003	8260B	T						
240-139671-A-4	TB-110320-BE-001	8260B	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 461048 Batch Start Date: 11/15/20 07:23 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VM50IS 00084	VM50IS 00085	vm50ss_stk 00086
BFB 240-461048/1		8260B		5 mL	5 mL				
CCVIS 240-461048/2		8260B		5 mL	5 mL			1 uL	1 uL
CCV 240-461048/3		8260B		5 mL	5 mL		1 uL		
LCS 240-461048/4		8260B		5 mL	5 mL			1 uL	1 uL
MB 240-461048/7		8260B		5 mL	5 mL			1 uL	1 uL
240-139671-B-1	SW-110320-BE-001	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139671-B-2	SW-110320-BE-002	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139671-B-2 MS	SW-110320-BE-002	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL
240-139671-B-2 MSD	SW-110320-BE-002	8260B	T	5 mL	5 mL	<2 SU		1 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMAROLISTDW 00368	vmbfb 00025	VMFASAW 00351	VMFASGW 00384	VMFASPW 00373	VMRA9W 00368
BFB 240-461048/1		8260B			1 uL				
CCVIS 240-461048/2		8260B		8 uL					
CCV 240-461048/3		8260B							8 uL
LCS 240-461048/4		8260B				8 uL	8 uL	8 uL	
MB 240-461048/7		8260B							
240-139671-B-1	SW-110320-BE-001	8260B	T						
240-139671-B-2	SW-110320-BE-002	8260B	T						
240-139671-B-2 MS	SW-110320-BE-002	8260B	T			8 uL	8 uL	8 uL	
240-139671-B-2 MSD	SW-110320-BE-002	8260B	T			8 uL	8 uL	8 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRGAS 00362	VMRPRIMW 00411				
BFB 240-461048/1		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-139671-1

SDG No.:

Batch Number: 461048 Batch Start Date: 11/15/20 07:23 Batch Analyst: Evans, Laura

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMRGAS 00362	VMRPRIMW 00411				
CCVIS 240-461048/2		8260B		8 uL	8 uL				
CCV 240-461048/3		8260B							
LCS 240-461048/4		8260B							
MB 240-461048/7		8260B							
240-139671-B-1	SW-110320-BE-001	8260B	T						
240-139671-B-2	SW-110320-BE-002	8260B	T						
240-139671-B-2 MS	SW-110320-BE-002	8260B	T						
240-139671-B-2 MSD	SW-110320-BE-002	8260B	T						

Batch Notes	
pH Indicator ID	hc907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

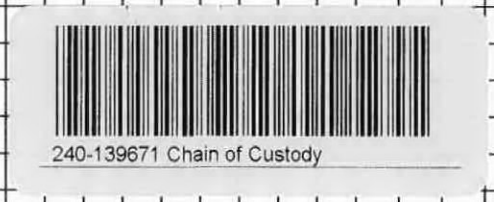
COC No.: IN- 5122
PAGE 1 OF 1

0-7/1-6

GHD
6520 Corporate Drive, Indianapolis, Indiana 46278
Phone: (317) 291-7007 Fax: (317) 328-2666

Project No: 11209506	Phase/Task Code: T0720	Laboratory Name: Eurofins TA	Lab Location: North Canton, OH
Project Name: MLK - Anderson, IN		Lab Contact: Denise Heckler	Lab Quote No:
Project Location: Anderson, IN			
Chemistry Contact: Ruth Mickle			
Sampler(s): Brynn Einecker			

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd//yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Analysis Requested: VOC	MS/MSD Request
1	SW-110320-BE-001	11/3/20	1608	SW	G		X							3	X	
2	SW-110320-BE-002	11/3/20	1612	SW	G		X							3	X	
3	SW-110320-BE-003	11/3/20	1620	SW	G		X							3	X	
4	TB-110320-BE-001	11/3/20	1630	TB			X							2	X	
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
					Total Number of Containers:											



Notes/ Special Requirements:

Shipping Info: Airbill No: | Date Shipped: 11/5/20 | Cooler No: 1 of 1 | Carrier: FedEx | SSOW ID:

Comments/ Special Instructions:

TAT Required (business days) 1 Day☐ 2 Days☐ 3 Days☐ 5 Days (1 wk)☐ Std (2 wk)☒ Other:

Relinquished By	Company	Date	Time		Company	Date	Time
1. Brynn Einecker	GHD	11/5/20	1730	[signature]	FDX	11/6/20	9:50
2.							
3.							

Additional Comments:

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 139671**
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Alex

Cooler Received on 11/6/20 Opened on 11/6/20

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF **+0.9** °C) Observed Cooler Temp. 1.7 °C Corrected Cooler Temp. 1.6 °C
   IR GUN #IR-12 (CF **+0.5**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC907861**
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0212801F	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

ANALYTICAL REPORT

Job Number: 240-140187-1

Job Description: 11209506, MLK - Anderson, IN

For:
GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, MI 48331

Attention: Ms. Ruth Mickle

Approved for release.
Denise D Heckler
Project Manager II
11/30/2020 6:35 AM

Denise D Heckler, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9477
Denise.Heckler@Eurofinset.com
11/30/2020

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
240-140187-1

Comments
No additional comments.

Receipt
The samples were received on 11/13/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 310-299509 recovered above the upper control limit for Carbon disulfide (25.3 %D), cis-1,2-Dichloroethene (29.2 %D) and 1,2-Dichloroethane (26.0 %D). The LCS associated with this CCV passes using CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-299509/31).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-299697 recovered above the upper control limit for cis-1,2-Dichloroethene (27.8 %D) and 1,2-Dichloroethane (25.7 %D). The LCS associated with this CCV passes using CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-299697/4).

Method 8260D: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (310-195440-D-4 MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-299826 recovered above the upper control limit for 1,2-Dichloroethane (21.1 %D). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 310-299826/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Client Sample ID: GW-110620-BE-019 — Lab Sample ID: 240-140187-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.96	J	1.0	0.19	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	75		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.97	J	2.0	0.56	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2300	B	20	4.2	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	140		1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	18		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110620-BE-020 — Lab Sample ID: 240-140187-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	13		1.0	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	310	B	1.0	0.21	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	28		1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	42		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110620-BE-021 — Lab Sample ID: 240-140187-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	13		1.0	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	320	B	1.0	0.21	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	28		1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	42		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110620-BE-022 — Lab Sample ID: 240-140187-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13	B	1.0	0.21	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.64	J	1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	63		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110620-BE-023 — Lab Sample ID: 240-140187-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.54	J	1.0	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	8.2	B	1.0	0.21	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.28	J	1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	0.49	J	1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110620-BE-024 — Lab Sample ID: 240-140187-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	57		1.0	0.21	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.31	J	1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	37		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-025 — Lab Sample ID: 240-140187-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.3		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	4.7		2.0	0.56	ug/L	1		8260D	Total/NA
Chloromethane	4.1		3.0	0.61	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1500	B	20	4.2	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	65		1.0	0.27	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-110920-BE-025 (Continued) — Lab Sample ID: 240-140187-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	440		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-026 — Lab Sample ID: 240-140187-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	14		1.0	0.19	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	28		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	31		2.0	0.56	ug/L	1		8260D	Total/NA
Benzene	0.94		0.50	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3000	B	50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	24		1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-027 — Lab Sample ID: 240-140187-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.68	J B	1.0	0.21	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-028 — Lab Sample ID: 240-140187-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.6		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	20	F1	2.0	0.56	ug/L	1		8260D	Total/NA
Benzene	0.67		0.50	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4200	B	50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	64		1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	240		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-029 — Lab Sample ID: 240-140187-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	15		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	23		2.0	0.56	ug/L	1		8260D	Total/NA
Benzene	0.61		0.50	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2900	B	50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	130		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	7.2		1.0	0.43	ug/L	1		8260D	Total/NA
Vinyl chloride	220		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-030 — Lab Sample ID: 240-140187-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.32	J B	1.0	0.21	ug/L	1		8260D	Total/NA
Vinyl chloride	0.77	J	1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-110920-BE-031 — Lab Sample ID: 240-140187-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.47	J	1.0	0.45	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.30	J B	1.0	0.21	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.18	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 11209506, MLK - Anderson, IN

Job ID: 240-140187-1

Client Sample ID: GW-111020-BE-032 — Lab Sample ID: 240-140187-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		10	3.1	ug/L	1		8260D	Total/NA
Carbon disulfide	0.61	J	1.0	0.45	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.87	J B	1.0	0.21	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	3.0	J	10	2.1	ug/L	1		8260D	Total/NA

Client Sample ID: GW-111020-BE-033 — Lab Sample ID: 240-140187-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.46	J	1.0	0.19	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	22		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	47		2.0	0.56	ug/L	1		8260D	Total/NA
Benzene	0.31	J	0.50	0.22	ug/L	1		8260D	Total/NA
Chloroform	1.8	J	3.0	1.3	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5600	B	50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	81		1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	19		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-111120-BE-034 — Lab Sample ID: 240-140187-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	15		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: GW-111120-BE-035 — Lab Sample ID: 240-140187-17

No Detections.

Client Sample ID: GW-111120-BE-036 — Lab Sample ID: 240-140187-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.7		1.0	0.19	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	46		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	14		2.0	0.56	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2200		20	4.2	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	18		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	160		1.0	0.43	ug/L	1		8260D	Total/NA
Vinyl chloride	710		20	3.6	ug/L	20		8260D	Total/NA

Client Sample ID: GW-111120-BE-037 — Lab Sample ID: 240-140187-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.2	B	1.0	0.21	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.28	J	1.0	0.27	ug/L	1		8260D	Total/NA
Vinyl chloride	1.6		1.0	0.18	ug/L	1		8260D	Total/NA

Client Sample ID: TB-111220-BE-003 — Lab Sample ID: 240-140187-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.31	J B	1.0	0.21	ug/L	1		8260D	Total/NA

Client Sample ID: GW-111220-BE-038 — Lab Sample ID: 240-140187-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	430		1.0	0.19	ug/L	1		8260D	Total/NA
1,1,2-Trichloroethane	0.30	J	0.50	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	91		1.0	0.22	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-111220-BE-038 (Continued)
Lab Sample ID: 240-140187-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	29		2.0	0.56	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	1.1		1.0	0.39	ug/L	1		8260D	Total/NA
Benzene	0.28	J	0.50	0.22	ug/L	1		8260D	Total/NA
Chloroform	6.5		3.0	1.3	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1900		20	4.2	ug/L	20		8260D	Total/NA
Tetrachloroethene	2.7		1.0	0.48	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	27		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	2500		20	8.6	ug/L	20		8260D	Total/NA
Vinyl chloride	41		20	3.6	ug/L	20		8260D	Total/NA

Client Sample ID: GW-111220-BE-039
Lab Sample ID: 240-140187-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	62		1.0	0.19	ug/L	1		8260D	Total/NA
1,1,2,2-Tetrachloroethane	0.79		0.50	0.13	ug/L	1		8260D	Total/NA
1,1,2-Trichloroethane	0.49	J	0.50	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	460		50	11	ug/L	50		8260D	Total/NA
1,1-Dichloroethene	48		2.0	0.56	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	2.6		1.0	0.39	ug/L	1		8260D	Total/NA
Benzene	3.4		0.50	0.22	ug/L	1		8260D	Total/NA
Chloroethane	74	J	200	40	ug/L	50		8260D	Total/NA
Chloromethane	34		3.0	0.61	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	16000		50	11	ug/L	50		8260D	Total/NA
Ethylbenzene	570		50	16	ug/L	50		8260D	Total/NA
4-Methyl-2-pentanone (MIBK)	3.0	J	10	2.1	ug/L	1		8260D	Total/NA
Methylene Chloride	5.6		1.0	0.78	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.1		1.0	0.48	ug/L	1		8260D	Total/NA
Toluene	2400		50	22	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	53		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	38	J	50	22	ug/L	50		8260D	Total/NA
Vinyl chloride	3500		50	9.0	ug/L	50		8260D	Total/NA
Xylenes, Total	2100		150	20	ug/L	50		8260D	Total/NA

Client Sample ID: GW-111220-BE-040
Lab Sample ID: 240-140187-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	280		1.0	0.19	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	62		10	2.2	ug/L	10		8260D	Total/NA
1,1-Dichloroethene	15		2.0	0.56	ug/L	1		8260D	Total/NA
Carbon tetrachloride	0.76	J	2.0	0.65	ug/L	1		8260D	Total/NA
Chloroform	1.8	J	3.0	1.3	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	630		10	2.1	ug/L	10		8260D	Total/NA
Tetrachloroethene	2.7		1.0	0.48	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	12		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	2100		10	4.3	ug/L	10		8260D	Total/NA
Vinyl chloride	26		10	1.8	ug/L	10		8260D	Total/NA

Client Sample ID: GW-111220-BE-041
Lab Sample ID: 240-140187-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	130		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	19		2.0	0.56	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-111220-BE-041 (Continued)
Lab Sample ID: 240-140187-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.8		0.50	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3000		50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	150		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	1100		50	22	ug/L	50		8260D	Total/NA
Vinyl chloride	220		50	9.0	ug/L	50		8260D	Total/NA

Client Sample ID: GW-111220-BE-042
Lab Sample ID: 240-140187-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	140		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	20		2.0	0.56	ug/L	1		8260D	Total/NA
Benzene	4.3		0.50	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3000		50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	170		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	1200		50	22	ug/L	50		8260D	Total/NA
Vinyl chloride	230		50	9.0	ug/L	50		8260D	Total/NA

Client Sample ID: GW-111220-BE-043
Lab Sample ID: 240-140187-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	110		1.0	0.22	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	23		2.0	0.56	ug/L	1		8260D	Total/NA
Benzene	4.9		0.50	0.22	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3100		50	11	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	79		1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	180		50	22	ug/L	50		8260D	Total/NA
Vinyl chloride	220		50	9.0	ug/L	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-110620-BE-019 — Lab Sample ID: 240-140187-1

Date Collected: 11/06/20 09:28 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.96**	**J**	1.0	0.19	ug/L			11/18/20 07:43	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 07:43	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 07:43	1
1,1-Dichloroethane	**75**		1.0	0.22	ug/L			11/18/20 07:43	1
1,1-Dichloroethene	**0.97**	**J**	2.0	0.56	ug/L			11/18/20 07:43	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 07:43	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 07:43	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 07:43	1
Acetone	10	U	10	3.1	ug/L			11/18/20 07:43	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 07:43	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 07:43	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 07:43	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 07:43	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 07:43	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 07:43	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 07:43	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 07:43	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 07:43	1
cis-1,2-Dichloroethene	**2300**	**B**	20	4.2	ug/L			11/19/20 12:46	20
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 07:43	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 07:43	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 07:43	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 07:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 07:43	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 07:43	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 07:43	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 07:43	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 07:43	1
trans-1,2-Dichloroethene	**140**		1.0	0.27	ug/L			11/18/20 07:43	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 07:43	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 07:43	1
Vinyl chloride	**18**		1.0	0.18	ug/L			11/18/20 07:43	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 07:43	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/18/20 07:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/19/20 12:46*	*20*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/18/20 07:43*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 12:46*	*20*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*11/18/20 07:43*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/19/20 12:46*	*20*

Client Sample ID: GW-110620-BE-020 — Lab Sample ID: 240-140187-2

Date Collected: 11/06/20 11:06 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 08:07	1

Client Sample ID: GW-110620-BE-020 — Lab Sample ID: 240-140187-2

Date Collected: 11/06/20 11:06 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 08:07	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 08:07	1
1,1-Dichloroethane	**13**		1.0	0.22	ug/L			11/18/20 08:07	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 08:07	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 08:07	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 08:07	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 08:07	1
Acetone	10	U	10	3.1	ug/L			11/18/20 08:07	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 08:07	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 08:07	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 08:07	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 08:07	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 08:07	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 08:07	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 08:07	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 08:07	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 08:07	1
cis-1,2-Dichloroethene	**310**	**B**	1.0	0.21	ug/L			11/19/20 11:33	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 08:07	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 08:07	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 08:07	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 08:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 08:07	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 08:07	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 08:07	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 08:07	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 08:07	1
trans-1,2-Dichloroethene	**28**		1.0	0.27	ug/L			11/18/20 08:07	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 08:07	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 08:07	1
Vinyl chloride	**42**		1.0	0.18	ug/L			11/18/20 08:07	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 08:07	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/18/20 08:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/19/20 11:33*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 08:07*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 11:33*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/18/20 08:07*	*1*
Dibromofluoromethane (Surr)	*107*		*79 - 120*		*11/19/20 11:33*	*1*

Client Sample ID: GW-110620-BE-021 — Lab Sample ID: 240-140187-3

Date Collected: 11/06/20 11:10 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 08:31	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 08:31	1

Client Sample ID: GW-110620-BE-021 — Lab Sample ID: 240-140187-3

Date Collected: 11/06/20 11:10 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 08:31	1
1,1-Dichloroethane	**13**		1.0	0.22	ug/L			11/18/20 08:31	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 08:31	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 08:31	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 08:31	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 08:31	1
Acetone	10	U	10	3.1	ug/L			11/18/20 08:31	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 08:31	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 08:31	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 08:31	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 08:31	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 08:31	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 08:31	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 08:31	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 08:31	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 08:31	1
cis-1,2-Dichloroethene	**320**	**B**	1.0	0.21	ug/L			11/19/20 11:58	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 08:31	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 08:31	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 08:31	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 08:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 08:31	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 08:31	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 08:31	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 08:31	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 08:31	1
trans-1,2-Dichloroethene	**28**		1.0	0.27	ug/L			11/18/20 08:31	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 08:31	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 08:31	1
Vinyl chloride	**42**		1.0	0.18	ug/L			11/18/20 08:31	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 08:31	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 08:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/18/20 08:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 11:58*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/18/20 08:31*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/19/20 11:58*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/18/20 08:31*	*1*
Dibromofluoromethane (Surr)	*109*		*79 - 120*		*11/19/20 11:58*	*1*

Client Sample ID: GW-110620-BE-022 — Lab Sample ID: 240-140187-4

Date Collected: 11/06/20 12:45 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 08:56	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 08:56	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 08:56	1

Client Sample ID: GW-110620-BE-022 — Lab Sample ID: 240-140187-4

Date Collected: 11/06/20 12:45 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 08:56	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 08:56	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 08:56	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 08:56	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 08:56	1
Acetone	10	U	10	3.1	ug/L			11/18/20 08:56	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 08:56	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 08:56	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 08:56	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 08:56	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 08:56	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 08:56	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 08:56	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 08:56	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 08:56	1
cis-1,2-Dichloroethene	**13**	**B**	1.0	0.21	ug/L			11/19/20 07:52	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 08:56	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 08:56	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 08:56	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 08:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 08:56	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 08:56	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 08:56	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 08:56	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 08:56	1
trans-1,2-Dichloroethene	**0.64**	**J**	1.0	0.27	ug/L			11/18/20 08:56	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 08:56	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 08:56	1
Vinyl chloride	**63**		1.0	0.18	ug/L			11/18/20 08:56	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 08:56	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/18/20 08:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/19/20 07:52*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/18/20 08:56*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/19/20 07:52*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*11/18/20 08:56*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/19/20 07:52*	*1*

Client Sample ID: GW-110620-BE-023 — Lab Sample ID: 240-140187-5

Date Collected: 11/06/20 13:48 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 09:20	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 09:20	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 09:20	1
1,1-Dichloroethane	**0.54**	**J**	1.0	0.22	ug/L			11/18/20 09:20	1

Client Sample ID: GW-110620-BE-023 — Lab Sample ID: 240-140187-5

Date Collected: 11/06/20 13:48 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 09:20	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 09:20	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 09:20	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 09:20	1
Acetone	10	U	10	3.1	ug/L			11/18/20 09:20	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 09:20	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 09:20	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 09:20	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 09:20	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 09:20	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 09:20	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 09:20	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 09:20	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 09:20	1
cis-1,2-Dichloroethene	**8.2**	**B**	1.0	0.21	ug/L			11/19/20 08:17	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 09:20	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 09:20	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 09:20	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 09:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 09:20	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 09:20	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 09:20	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 09:20	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 09:20	1
trans-1,2-Dichloroethene	**0.28**	**J**	1.0	0.27	ug/L			11/18/20 09:20	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 09:20	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 09:20	1
Vinyl chloride	**0.49**	**J**	1.0	0.18	ug/L			11/18/20 09:20	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 09:20	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 09:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/19/20 08:17*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 09:20*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/19/20 08:17*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/18/20 09:20*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/19/20 08:17*	*1*

Client Sample ID: GW-110620-BE-024 — Lab Sample ID: 240-140187-6

Date Collected: 11/06/20 14:53 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 09:44	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 09:44	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 09:44	1
1,1-Dichloroethane	**1.3**		1.0	0.22	ug/L			11/18/20 09:44	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 09:44	1

Client Sample ID: GW-110620-BE-024 — Lab Sample ID: 240-140187-6

Date Collected: 11/06/20 14:53 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 09:44	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 09:44	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 09:44	1
Acetone	10	U	10	3.1	ug/L			11/18/20 09:44	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 09:44	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 09:44	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 09:44	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 09:44	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 09:44	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 09:44	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 09:44	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 09:44	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 09:44	1
cis-1,2-Dichloroethene	**57**		1.0	0.21	ug/L			11/18/20 09:44	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 09:44	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 09:44	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 09:44	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 09:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 09:44	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 09:44	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 09:44	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 09:44	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 09:44	1
trans-1,2-Dichloroethene	**0.31**	**J**	1.0	0.27	ug/L			11/18/20 09:44	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 09:44	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 09:44	1
Vinyl chloride	**37**		1.0	0.18	ug/L			11/18/20 09:44	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 09:44	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 09:44*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 09:44*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*11/18/20 09:44*	*1*

Client Sample ID: GW-110920-BE-025 — Lab Sample ID: 240-140187-7

Date Collected: 11/09/20 09:16 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 10:09	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 10:09	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 10:09	1
1,1-Dichloroethane	**3.3**		1.0	0.22	ug/L			11/18/20 10:09	1
1,1-Dichloroethene	**4.7**		2.0	0.56	ug/L			11/18/20 10:09	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 10:09	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 10:09	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 10:09	1
Acetone	10	U	10	3.1	ug/L			11/18/20 10:09	1

Client Sample ID: GW-110920-BE-025 — Lab Sample ID: 240-140187-7

Date Collected: 11/09/20 09:16 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 10:09	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 10:09	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 10:09	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 10:09	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 10:09	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 10:09	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 10:09	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 10:09	1
Chloromethane	**4.1**		3.0	0.61	ug/L			11/18/20 10:09	1
cis-1,2-Dichloroethene	**1500**	**B**	20	4.2	ug/L			11/19/20 13:11	20
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 10:09	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 10:09	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 10:09	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 10:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 10:09	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 10:09	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 10:09	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 10:09	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 10:09	1
trans-1,2-Dichloroethene	**65**		1.0	0.27	ug/L			11/18/20 10:09	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 10:09	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 10:09	1
Vinyl chloride	**440**		1.0	0.18	ug/L			11/18/20 10:09	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 10:09	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/18/20 10:09*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/19/20 13:11*	*20*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 10:09*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/19/20 13:11*	*20*
Dibromofluoromethane (Surr)	*108*		*79 - 120*		*11/18/20 10:09*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/19/20 13:11*	*20*

Client Sample ID: GW-110920-BE-026 — Lab Sample ID: 240-140187-8

Date Collected: 11/09/20 10:07 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**14**		1.0	0.19	ug/L			11/18/20 10:33	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 10:33	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 10:33	1
1,1-Dichloroethane	**28**		1.0	0.22	ug/L			11/18/20 10:33	1
1,1-Dichloroethene	**31**		2.0	0.56	ug/L			11/18/20 10:33	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 10:33	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 10:33	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 10:33	1
Acetone	10	U	10	3.1	ug/L			11/18/20 10:33	1
Benzene	**0.94**		0.50	0.22	ug/L			11/18/20 10:33	1

Client Sample ID: GW-110920-BE-026 — Lab Sample ID: 240-140187-8

Date Collected: 11/09/20 10:07 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 10:33	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 10:33	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 10:33	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 10:33	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 10:33	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 10:33	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 10:33	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 10:33	1
cis-1,2-Dichloroethene	**3000**	**B**	50	11	ug/L			11/19/20 14:00	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 10:33	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 10:33	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 10:33	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 10:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 10:33	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 10:33	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 10:33	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 10:33	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 10:33	1
trans-1,2-Dichloroethene	**24**		1.0	0.27	ug/L			11/18/20 10:33	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 10:33	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 10:33	1
Vinyl chloride	**130**		1.0	0.18	ug/L			11/18/20 10:33	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 10:33	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 10:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 14:00*	*50*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/18/20 10:33*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/19/20 14:00*	*50*
Dibromofluoromethane (Surr)	*108*		*79 - 120*		*11/18/20 10:33*	*1*
Dibromofluoromethane (Surr)	*107*		*79 - 120*		*11/19/20 14:00*	*50*

Client Sample ID: GW-110920-BE-027 — Lab Sample ID: 240-140187-9

Date Collected: 11/09/20 11:59 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 10:58	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 10:58	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 10:58	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 10:58	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 10:58	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 10:58	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 10:58	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 10:58	1
Acetone	10	U	10	3.1	ug/L			11/18/20 10:58	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 10:58	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 10:58	1

Client Sample ID: GW-110920-BE-027 — Lab Sample ID: 240-140187-9

Date Collected: 11/09/20 11:59 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 10:58	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 10:58	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 10:58	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 10:58	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 10:58	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 10:58	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 10:58	1
cis-1,2-Dichloroethene	**0.68**	**J B**	1.0	0.21	ug/L			11/19/20 08:41	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 10:58	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 10:58	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 10:58	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 10:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 10:58	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 10:58	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 10:58	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 10:58	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 10:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 10:58	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 10:58	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 10:58	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/18/20 10:58	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 10:58	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/18/20 10:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 08:41*	*1*
Toluene-d8 (Surr)	*101*		*79 - 120*		*11/18/20 10:58*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/19/20 08:41*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/18/20 10:58*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/19/20 08:41*	*1*

Client Sample ID: GW-110920-BE-028 — Lab Sample ID: 240-140187-10

Date Collected: 11/09/20 13:03 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 11:22	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 11:22	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 11:22	1
1,1-Dichloroethane	**4.6**		1.0	0.22	ug/L			11/18/20 11:22	1
1,1-Dichloroethene	**20**	**F1**	2.0	0.56	ug/L			11/18/20 11:22	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 11:22	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 11:22	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 11:22	1
Acetone	10	U	10	3.1	ug/L			11/18/20 11:22	1
Benzene	**0.67**		0.50	0.22	ug/L			11/18/20 11:22	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 11:22	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 11:22	1

Client Sample ID: GW-110920-BE-028 — Lab Sample ID: 240-140187-10

Date Collected: 11/09/20 13:03 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 11:22	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 11:22	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 11:22	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 11:22	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 11:22	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 11:22	1
cis-1,2-Dichloroethene	**4200**	**B**	50	11	ug/L			11/19/20 14:25	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 11:22	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 11:22	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 11:22	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 11:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 11:22	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 11:22	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 11:22	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 11:22	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 11:22	1
trans-1,2-Dichloroethene	**64**		1.0	0.27	ug/L			11/18/20 11:22	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 11:22	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 11:22	1
Vinyl chloride	**240**		1.0	0.18	ug/L			11/18/20 11:22	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 11:22	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/18/20 11:22*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/19/20 14:25*	*50*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 11:22*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 14:25*	*50*
Dibromofluoromethane (Surr)	*108*		*79 - 120*		*11/18/20 11:22*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/19/20 14:25*	*50*

Client Sample ID: GW-110920-BE-029 — Lab Sample ID: 240-140187-11

Date Collected: 11/09/20 14:28 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 11:47	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 11:47	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 11:47	1
1,1-Dichloroethane	**15**		1.0	0.22	ug/L			11/18/20 11:47	1
1,1-Dichloroethene	**23**		2.0	0.56	ug/L			11/18/20 11:47	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 11:47	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 11:47	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 11:47	1
Acetone	10	U	10	3.1	ug/L			11/18/20 11:47	1
Benzene	**0.61**		0.50	0.22	ug/L			11/18/20 11:47	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 11:47	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 11:47	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 11:47	1

Client Sample ID: GW-110920-BE-029 — Lab Sample ID: 240-140187-11

Date Collected: 11/09/20 14:28 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 11:47	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 11:47	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 11:47	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 11:47	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 11:47	1
cis-1,2-Dichloroethene	**2900**	**B**	50	11	ug/L			11/19/20 14:49	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 11:47	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 11:47	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 11:47	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 11:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 11:47	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 11:47	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 11:47	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 11:47	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 11:47	1
trans-1,2-Dichloroethene	**130**		1.0	0.27	ug/L			11/18/20 11:47	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 11:47	1
Trichloroethene	**7.2**		1.0	0.43	ug/L			11/18/20 11:47	1
Vinyl chloride	**220**		1.0	0.18	ug/L			11/18/20 11:47	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 11:47	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 11:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 14:49*	*50*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 11:47*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 14:49*	*50*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/18/20 11:47*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/19/20 14:49*	*50*

Client Sample ID: GW-110920-BE-030 — Lab Sample ID: 240-140187-12

Date Collected: 11/09/20 15:36 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 12:12	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 12:12	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 12:12	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 12:12	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 12:12	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 12:12	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 12:12	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 12:12	1
Acetone	10	U	10	3.1	ug/L			11/18/20 12:12	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 12:12	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 12:12	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 12:12	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 12:12	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 12:12	1

Client Sample ID: GW-110920-BE-030 — Lab Sample ID: 240-140187-12

Date Collected: 11/09/20 15:36 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 12:12	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 12:12	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 12:12	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 12:12	1
cis-1,2-Dichloroethene	**0.32**	**J B**	1.0	0.21	ug/L			11/19/20 09:06	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 12:12	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 12:12	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 12:12	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 12:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 12:12	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 12:12	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 12:12	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 12:12	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 12:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 12:12	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 12:12	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 12:12	1
Vinyl chloride	**0.77**	**J**	1.0	0.18	ug/L			11/18/20 12:12	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 12:12	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/18/20 12:12*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/19/20 09:06*	*1*
Toluene-d8 (Surr)	*101*		*79 - 120*		*11/18/20 12:12*	*1*
Toluene-d8 (Surr)	*101*		*79 - 120*		*11/19/20 09:06*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*11/18/20 12:12*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/19/20 09:06*	*1*

Client Sample ID: GW-110920-BE-031 — Lab Sample ID: 240-140187-13

Date Collected: 11/09/20 15:44 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 12:36	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 12:36	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 12:36	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 12:36	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 12:36	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 12:36	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 12:36	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 12:36	1
Acetone	10	U	10	3.1	ug/L			11/18/20 12:36	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 12:36	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 12:36	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 12:36	1
Carbon disulfide	**0.47**	**J**	1.0	0.45	ug/L			11/18/20 12:36	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 12:36	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 12:36	1

Client Sample ID: GW-110920-BE-031 — Lab Sample ID: 240-140187-13

Date Collected: 11/09/20 15:44 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 12:36	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 12:36	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 12:36	1
cis-1,2-Dichloroethene	**0.30**	**J B**	1.0	0.21	ug/L			11/19/20 09:30	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 12:36	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 12:36	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 12:36	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 12:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 12:36	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 12:36	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 12:36	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 12:36	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 12:36	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 12:36	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 12:36	1
Vinyl chloride	**1.1**		1.0	0.18	ug/L			11/18/20 12:36	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 12:36	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 12:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/19/20 09:30*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 12:36*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/19/20 09:30*	*1*
Dibromofluoromethane (Surr)	*100*		*79 - 120*		*11/18/20 12:36*	*1*
Dibromofluoromethane (Surr)	*102*		*79 - 120*		*11/19/20 09:30*	*1*

Client Sample ID: GW-111020-BE-032 — Lab Sample ID: 240-140187-14

Date Collected: 11/10/20 09:12 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 13:01	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 13:01	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 13:01	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 13:01	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 13:01	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 13:01	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 13:01	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 13:01	1
Acetone	**13**		10	3.1	ug/L			11/18/20 13:01	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 13:01	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 13:01	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 13:01	1
Carbon disulfide	**0.61**	**J**	1.0	0.45	ug/L			11/18/20 13:01	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 13:01	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 13:01	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 13:01	1

Client Sample ID: GW-111020-BE-032 — Lab Sample ID: 240-140187-14

Date Collected: 11/10/20 09:12 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 13:01	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 13:01	1
cis-1,2-Dichloroethene	**0.87**	**J B**	1.0	0.21	ug/L			11/19/20 09:55	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 13:01	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 13:01	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 13:01	1
2-Butanone (MEK)	**3.0**	**J**	10	2.1	ug/L			11/18/20 13:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 13:01	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 13:01	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 13:01	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 13:01	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 13:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 13:01	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 13:01	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 13:01	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/18/20 13:01	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 13:01	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 13:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 09:55*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/18/20 13:01*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 09:55*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*11/18/20 13:01*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/19/20 09:55*	*1*

Client Sample ID: GW-111020-BE-033 — Lab Sample ID: 240-140187-15

Date Collected: 11/10/20 09:53 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.46**	**J**	1.0	0.19	ug/L			11/18/20 13:26	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 13:26	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 13:26	1
1,1-Dichloroethane	**22**		1.0	0.22	ug/L			11/18/20 13:26	1
1,1-Dichloroethene	**47**		2.0	0.56	ug/L			11/18/20 13:26	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 13:26	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 13:26	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 13:26	1
Acetone	10	U	10	3.1	ug/L			11/18/20 13:26	1
Benzene	**0.31**	**J**	0.50	0.22	ug/L			11/18/20 13:26	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 13:26	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 13:26	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 13:26	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 13:26	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 13:26	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 13:26	1
Chloroform	**1.8**	**J**	3.0	1.3	ug/L			11/18/20 13:26	1

Client Sample ID: GW-111020-BE-033 — Lab Sample ID: 240-140187-15

Date Collected: 11/10/20 09:53 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 13:26	1
cis-1,2-Dichloroethene	**5600**	**B**	50	11	ug/L			11/19/20 15:14	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 13:26	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 13:26	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 13:26	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 13:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 13:26	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 13:26	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 13:26	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 13:26	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 13:26	1
trans-1,2-Dichloroethene	**81**		1.0	0.27	ug/L			11/18/20 13:26	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 13:26	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 13:26	1
Vinyl chloride	**19**		1.0	0.18	ug/L			11/18/20 13:26	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 13:26	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/18/20 13:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 15:14*	*50*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 13:26*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/19/20 15:14*	*50*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*11/18/20 13:26*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/19/20 15:14*	*50*

Client Sample ID: GW-111120-BE-034 — Lab Sample ID: 240-140187-16

Date Collected: 11/11/20 09:19 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/20/20 03:45	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/20/20 03:45	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/20/20 03:45	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/20/20 03:45	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/20/20 03:45	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/20/20 03:45	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/20/20 03:45	1
2-Hexanone	10	U	10	2.0	ug/L			11/20/20 03:45	1
Acetone	10	U	10	3.1	ug/L			11/20/20 03:45	1
Benzene	0.50	U	0.50	0.22	ug/L			11/20/20 03:45	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/20/20 03:45	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/20/20 03:45	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/20/20 03:45	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/20/20 03:45	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/20/20 03:45	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/20/20 03:45	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/20/20 03:45	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/20/20 03:45	1

Client Sample ID: GW-111120-BE-034 — Lab Sample ID: 240-140187-16

Date Collected: 11/11/20 09:19 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			11/20/20 03:45	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/20/20 03:45	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/20/20 03:45	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/20/20 03:45	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/20/20 03:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/20/20 03:45	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/20/20 03:45	1
Styrene	1.0	U	1.0	0.37	ug/L			11/20/20 03:45	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/20/20 03:45	1
Toluene	1.0	U	1.0	0.43	ug/L			11/20/20 03:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/20/20 03:45	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/20/20 03:45	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/20/20 03:45	1
Vinyl chloride	**15**		1.0	0.18	ug/L			11/20/20 03:45	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/20/20 03:45	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/20/20 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/19/20 10:19*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/20/20 03:45*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/19/20 10:19*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/20/20 03:45*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*11/19/20 10:19*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/20/20 03:45*	*1*

Client Sample ID: GW-111120-BE-035 — Lab Sample ID: 240-140187-17

Date Collected: 11/11/20 10:28 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 14:14	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 14:14	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 14:14	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 14:14	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 14:14	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 14:14	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 14:14	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 14:14	1
Acetone	10	U	10	3.1	ug/L			11/18/20 14:14	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 14:14	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 14:14	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 14:14	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 14:14	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 14:14	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 14:14	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 14:14	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 14:14	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 14:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			11/19/20 10:44	1

Client Sample ID: GW-111120-BE-035 — Lab Sample ID: 240-140187-17

Date Collected: 11/11/20 10:28 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 14:14	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 14:14	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 14:14	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 14:14	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 14:14	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 14:14	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 14:14	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 14:14	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 14:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 14:14	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 14:14	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 14:14	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/18/20 14:14	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 14:14	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 14:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 10:44*	*1*
Toluene-d8 (Surr)	*101*		*79 - 120*		*11/18/20 14:14*	*1*
Toluene-d8 (Surr)	*101*		*79 - 120*		*11/19/20 10:44*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/18/20 14:14*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/19/20 10:44*	*1*

Client Sample ID: GW-111120-BE-036 — Lab Sample ID: 240-140187-18

Date Collected: 11/11/20 12:25 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**6.7**		1.0	0.19	ug/L			11/18/20 14:39	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 14:39	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 14:39	1
1,1-Dichloroethane	**46**		1.0	0.22	ug/L			11/18/20 14:39	1
1,1-Dichloroethene	**14**		2.0	0.56	ug/L			11/18/20 14:39	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 14:39	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 14:39	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 14:39	1
Acetone	10	U	10	3.1	ug/L			11/18/20 14:39	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 14:39	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 14:39	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 14:39	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 14:39	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 14:39	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 14:39	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 14:39	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 14:39	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 14:39	1
cis-1,2-Dichloroethene	**2200**		20	4.2	ug/L			11/20/20 04:09	20
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 14:39	1

Client Sample ID: GW-111120-BE-036 — Lab Sample ID: 240-140187-18

Date Collected: 11/11/20 12:25 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 14:39	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 14:39	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 14:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 14:39	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 14:39	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 14:39	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 14:39	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 14:39	1
trans-1,2-Dichloroethene	**18**		1.0	0.27	ug/L			11/18/20 14:39	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 14:39	1
Trichloroethene	**160**		1.0	0.43	ug/L			11/18/20 14:39	1
Vinyl chloride	**710**		20	3.6	ug/L			11/20/20 04:09	20
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 14:39	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/18/20 14:39*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/20/20 04:09*	*20*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 14:39*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/20/20 04:09*	*20*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*11/18/20 14:39*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/20/20 04:09*	*20*

Client Sample ID: GW-111120-BE-037 — Lab Sample ID: 240-140187-19

Date Collected: 11/11/20 14:57 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 15:03	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 15:03	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 15:03	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 15:03	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 15:03	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 15:03	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 15:03	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 15:03	1
Acetone	10	U	10	3.1	ug/L			11/18/20 15:03	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 15:03	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 15:03	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 15:03	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 15:03	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 15:03	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 15:03	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 15:03	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 15:03	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 15:03	1
cis-1,2-Dichloroethene	**3.2**	**B**	1.0	0.21	ug/L			11/19/20 11:09	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 15:03	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 15:03	1

Client Sample ID: GW-111120-BE-037 — Lab Sample ID: 240-140187-19

Date Collected: 11/11/20 14:57 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 15:03	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 15:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 15:03	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 15:03	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 15:03	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 15:03	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 15:03	1
trans-1,2-Dichloroethene	**0.28**	**J**	1.0	0.27	ug/L			11/18/20 15:03	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 15:03	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 15:03	1
Vinyl chloride	**1.6**		1.0	0.18	ug/L			11/18/20 15:03	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 15:03	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/18/20 15:03*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/19/20 11:09*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 15:03*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 11:09*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/18/20 15:03*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/19/20 11:09*	*1*

Client Sample ID: TB-111220-BE-003 — Lab Sample ID: 240-140187-20

Date Collected: 11/12/20 09:00 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 15:28	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 15:28	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 15:28	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 15:28	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 15:28	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 15:28	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 15:28	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 15:28	1
Acetone	10	U	10	3.1	ug/L			11/18/20 15:28	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 15:28	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 15:28	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 15:28	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 15:28	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 15:28	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 15:28	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 15:28	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 15:28	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 15:28	1
cis-1,2-Dichloroethene	**0.31**	**J B**	1.0	0.21	ug/L			11/19/20 07:27	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 15:28	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 15:28	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 15:28	1

Client Sample ID: TB-111220-BE-003 — Lab Sample ID: 240-140187-20

Date Collected: 11/12/20 09:00 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 15:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 15:28	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 15:28	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 15:28	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 15:28	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 15:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 15:28	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 15:28	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 15:28	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/18/20 15:28	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 15:28	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 15:28*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/19/20 07:27*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 15:28*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*11/19/20 07:27*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/18/20 15:28*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/19/20 07:27*	*1*

Client Sample ID: GW-111220-BE-038 — Lab Sample ID: 240-140187-21

Date Collected: 11/12/20 09:50 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**430**		1.0	0.19	ug/L			11/18/20 19:59	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 19:59	1
1,1,2-Trichloroethane	**0.30**	**J**	0.50	0.22	ug/L			11/18/20 19:59	1
1,1-Dichloroethane	**91**		1.0	0.22	ug/L			11/18/20 19:59	1
1,1-Dichloroethene	**29**		2.0	0.56	ug/L			11/18/20 19:59	1
1,2-Dichloroethane	**1.1**		1.0	0.39	ug/L			11/18/20 19:59	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 19:59	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 19:59	1
Acetone	10	U	10	3.1	ug/L			11/18/20 19:59	1
Benzene	**0.28**	**J**	0.50	0.22	ug/L			11/18/20 19:59	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 19:59	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 19:59	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 19:59	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 19:59	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 19:59	1
Chloroethane	80	U	80	16	ug/L			11/19/20 09:10	20
Chloroform	**6.5**		3.0	1.3	ug/L			11/18/20 19:59	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 19:59	1
cis-1,2-Dichloroethene	**1900**		20	4.2	ug/L			11/19/20 09:10	20
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 19:59	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 19:59	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 19:59	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 19:59	1

Client Sample ID: GW-111220-BE-038 — Lab Sample ID: 240-140187-21

Date Collected: 11/12/20 09:50 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 19:59	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 19:59	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 19:59	1
Tetrachloroethene	**2.7**		1.0	0.48	ug/L			11/18/20 19:59	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 19:59	1
trans-1,2-Dichloroethene	**27**		1.0	0.27	ug/L			11/18/20 19:59	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 19:59	1
Trichloroethene	**2500**		20	8.6	ug/L			11/19/20 09:10	20
Vinyl chloride	**41**		20	3.6	ug/L			11/19/20 09:10	20
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 19:59	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 19:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/19/20 09:10*	*20*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 19:59*	*1*
Toluene-d8 (Surr)	*97*		*79 - 120*		*11/19/20 09:10*	*20*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*11/18/20 19:59*	*1*
Dibromofluoromethane (Surr)	*92*		*79 - 120*		*11/19/20 09:10*	*20*

Client Sample ID: GW-111220-BE-039 — Lab Sample ID: 240-140187-22

Date Collected: 11/12/20 10:38 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**62**		1.0	0.19	ug/L			11/18/20 20:23	1
1,1,2,2-Tetrachloroethane	**0.79**		0.50	0.13	ug/L			11/18/20 20:23	1
1,1,2-Trichloroethane	**0.49**	**J**	0.50	0.22	ug/L			11/18/20 20:23	1
1,1-Dichloroethane	**460**		50	11	ug/L			11/19/20 09:33	50
1,1-Dichloroethene	**48**		2.0	0.56	ug/L			11/18/20 20:23	1
1,2-Dichloroethane	**2.6**		1.0	0.39	ug/L			11/18/20 20:23	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 20:23	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 20:23	1
Acetone	10	U	10	3.1	ug/L			11/18/20 20:23	1
Benzene	**3.4**		0.50	0.22	ug/L			11/18/20 20:23	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 20:23	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 20:23	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 20:23	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 20:23	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 20:23	1
Chloroethane	**74**	**J**	200	40	ug/L			11/19/20 09:33	50
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 20:23	1
Chloromethane	**34**		3.0	0.61	ug/L			11/18/20 20:23	1
cis-1,2-Dichloroethene	**16000**		50	11	ug/L			11/19/20 09:33	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 20:23	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 20:23	1
Ethylbenzene	**570**		50	16	ug/L			11/19/20 09:33	50
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 20:23	1
4-Methyl-2-pentanone (MIBK)	**3.0**	**J**	10	2.1	ug/L			11/18/20 20:23	1

Client Sample ID: GW-111220-BE-039 — Lab Sample ID: 240-140187-22

Date Collected: 11/12/20 10:38 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**5.6**		1.0	0.78	ug/L			11/18/20 20:23	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 20:23	1
Tetrachloroethene	**1.1**		1.0	0.48	ug/L			11/18/20 20:23	1
Toluene	**2400**		50	22	ug/L			11/19/20 09:33	50
trans-1,2-Dichloroethene	**53**		1.0	0.27	ug/L			11/18/20 20:23	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 20:23	1
Trichloroethene	**38**	**J**	50	22	ug/L			11/19/20 09:33	50
Vinyl chloride	**3500**		50	9.0	ug/L			11/19/20 09:33	50
Xylenes, Total	**2100**		150	20	ug/L			11/19/20 09:33	50
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/18/20 20:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/19/20 09:33*	*50*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 20:23*	*1*
Toluene-d8 (Surr)	*94*		*79 - 120*		*11/19/20 09:33*	*50*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*11/18/20 20:23*	*1*
Dibromofluoromethane (Surr)	*110*		*79 - 120*		*11/19/20 09:33*	*50*

Client Sample ID: GW-111220-BE-040 — Lab Sample ID: 240-140187-23

Date Collected: 11/12/20 11:36 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**280**		1.0	0.19	ug/L			11/18/20 20:48	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 20:48	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 20:48	1
1,1-Dichloroethane	**62**		10	2.2	ug/L			11/19/20 08:26	10
1,1-Dichloroethene	**15**		2.0	0.56	ug/L			11/18/20 20:48	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 20:48	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 20:48	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 20:48	1
Acetone	10	U	10	3.1	ug/L			11/18/20 20:48	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 20:48	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 20:48	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 20:48	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 20:48	1
Carbon tetrachloride	**0.76**	**J**	2.0	0.65	ug/L			11/18/20 20:48	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 20:48	1
Chloroethane	40	U	40	7.9	ug/L			11/19/20 08:26	10
Chloroform	**1.8**	**J**	3.0	1.3	ug/L			11/18/20 20:48	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 20:48	1
cis-1,2-Dichloroethene	**630**		10	2.1	ug/L			11/19/20 08:26	10
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 20:48	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 20:48	1
Ethylbenzene	10	U	10	3.1	ug/L			11/19/20 08:26	10
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 20:48	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 20:48	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 20:48	1

Client Sample ID: GW-111220-BE-040 — Lab Sample ID: 240-140187-23

Date Collected: 11/12/20 11:36 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 20:48	1
Tetrachloroethene	**2.7**		1.0	0.48	ug/L			11/18/20 20:48	1
Toluene	10	U	10	4.3	ug/L			11/19/20 08:26	10
trans-1,2-Dichloroethene	**12**		1.0	0.27	ug/L			11/18/20 20:48	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 20:48	1
Trichloroethene	**2100**		10	4.3	ug/L			11/19/20 08:26	10
Vinyl chloride	**26**		10	1.8	ug/L			11/19/20 08:26	10
Xylenes, Total	30	U	30	4.0	ug/L			11/19/20 08:26	10
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/18/20 20:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/19/20 08:26*	*10*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 20:48*	*1*
Toluene-d8 (Surr)	*96*		*79 - 120*		*11/19/20 08:26*	*10*
Dibromofluoromethane (Surr)	*109*		*79 - 120*		*11/18/20 20:48*	*1*
Dibromofluoromethane (Surr)	*108*		*79 - 120*		*11/19/20 08:26*	*10*

Client Sample ID: GW-111220-BE-041 — Lab Sample ID: 240-140187-24

Date Collected: 11/12/20 13:08 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 21:12	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 21:12	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 21:12	1
1,1-Dichloroethane	**130**		1.0	0.22	ug/L			11/18/20 21:12	1
1,1-Dichloroethene	**19**		2.0	0.56	ug/L			11/18/20 21:12	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 21:12	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 21:12	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 21:12	1
Acetone	10	U	10	3.1	ug/L			11/18/20 21:12	1
Benzene	**3.8**		0.50	0.22	ug/L			11/18/20 21:12	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 21:12	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 21:12	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 21:12	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 21:12	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 21:12	1
Chloroethane	200	U	200	40	ug/L			11/19/20 09:55	50
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 21:12	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 21:12	1
cis-1,2-Dichloroethene	**3000**		50	11	ug/L			11/19/20 09:55	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 21:12	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 21:12	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 21:12	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 21:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 21:12	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 21:12	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 21:12	1

Client Sample ID: GW-111220-BE-041 — Lab Sample ID: 240-140187-24

Date Collected: 11/12/20 13:08 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 21:12	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 21:12	1
trans-1,2-Dichloroethene	**150**		1.0	0.27	ug/L			11/18/20 21:12	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 21:12	1
Trichloroethene	**1100**		50	22	ug/L			11/19/20 09:55	50
Vinyl chloride	**220**		50	9.0	ug/L			11/19/20 09:55	50
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 21:12	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/18/20 21:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/19/20 09:55*	*50*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 21:12*	*1*
Toluene-d8 (Surr)	*92*		*79 - 120*		*11/19/20 09:55*	*50*
Dibromofluoromethane (Surr)	*107*		*79 - 120*		*11/18/20 21:12*	*1*
Dibromofluoromethane (Surr)	*98*		*79 - 120*		*11/19/20 09:55*	*50*

Client Sample ID: GW-111220-BE-042 — Lab Sample ID: 240-140187-25

Date Collected: 11/12/20 13:15 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 21:37	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 21:37	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 21:37	1
1,1-Dichloroethane	**140**		1.0	0.22	ug/L			11/18/20 21:37	1
1,1-Dichloroethene	**20**		2.0	0.56	ug/L			11/18/20 21:37	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 21:37	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 21:37	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 21:37	1
Acetone	10	U	10	3.1	ug/L			11/18/20 21:37	1
Benzene	**4.3**		0.50	0.22	ug/L			11/18/20 21:37	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 21:37	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 21:37	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 21:37	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 21:37	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 21:37	1
Chloroethane	200	U	200	40	ug/L			11/19/20 10:17	50
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 21:37	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 21:37	1
cis-1,2-Dichloroethene	**3000**		50	11	ug/L			11/19/20 10:17	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 21:37	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 21:37	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 21:37	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 21:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 21:37	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 21:37	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 21:37	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 21:37	1

Client Sample ID: GW-111220-BE-042 — Lab Sample ID: 240-140187-25

Date Collected: 11/12/20 13:15 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 21:37	1
trans-1,2-Dichloroethene	**170**		1.0	0.27	ug/L			11/18/20 21:37	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 21:37	1
Trichloroethene	**1200**		50	22	ug/L			11/19/20 10:17	50
Vinyl chloride	**230**		50	9.0	ug/L			11/19/20 10:17	50
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 21:37	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/18/20 21:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/19/20 10:17*	*50*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/18/20 21:37*	*1*
Toluene-d8 (Surr)	*97*		*79 - 120*		*11/19/20 10:17*	*50*
Dibromofluoromethane (Surr)	*108*		*79 - 120*		*11/18/20 21:37*	*1*
Dibromofluoromethane (Surr)	*101*		*79 - 120*		*11/19/20 10:17*	*50*

Client Sample ID: GW-111220-BE-043 — Lab Sample ID: 240-140187-26

Date Collected: 11/12/20 14:02 — **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 22:01	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 22:01	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 22:01	1
1,1-Dichloroethane	**110**		1.0	0.22	ug/L			11/18/20 22:01	1
1,1-Dichloroethene	**23**		2.0	0.56	ug/L			11/18/20 22:01	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 22:01	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 22:01	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 22:01	1
Acetone	10	U	10	3.1	ug/L			11/18/20 22:01	1
Benzene	**4.9**		0.50	0.22	ug/L			11/18/20 22:01	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 22:01	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 22:01	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 22:01	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 22:01	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 22:01	1
Chloroethane	200	U	200	40	ug/L			11/19/20 10:40	50
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 22:01	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 22:01	1
cis-1,2-Dichloroethene	**3100**		50	11	ug/L			11/19/20 10:40	50
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 22:01	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 22:01	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 22:01	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 22:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 22:01	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 22:01	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 22:01	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 22:01	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 22:01	1

Client Sample ID: GW-111220-BE-043 Lab Sample ID: 240-140187-26

Date Collected: 11/12/20 14:02 **Matrix: Water**
Date Received: 11/13/20 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**79**		1.0	0.27	ug/L			11/18/20 22:01	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 22:01	1
Trichloroethene	**180**		50	22	ug/L			11/19/20 10:40	50
Vinyl chloride	**220**		50	9.0	ug/L			11/19/20 10:40	50
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 22:01	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/18/20 22:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/19/20 10:40*	*50*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 22:01*	*1*
Toluene-d8 (Surr)	*95*		*79 - 120*		*11/19/20 10:40*	*50*
Dibromofluoromethane (Surr)	*108*		*79 - 120*		*11/18/20 22:01*	*1*
Dibromofluoromethane (Surr)	*99*		*79 - 120*		*11/19/20 10:40*	*50*

Surrogate Summary

Client: GHD Services Inc.
Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(79-120)	(79-120)
240-140187-1	GW-110620-BE-019	98	103	110
240-140187-1	GW-110620-BE-019	93	103	106
240-140187-2	GW-110620-BE-020	98	104	105
240-140187-2	GW-110620-BE-020	98	103	107
240-140187-3	GW-110620-BE-021	95	103	104
240-140187-3	GW-110620-BE-021	96	104	109
240-140187-4	GW-110620-BE-022	99	103	103
240-140187-4	GW-110620-BE-022	97	102	106
240-140187-5	GW-110620-BE-023	96	102	104
240-140187-5	GW-110620-BE-023	97	104	104
240-140187-6	GW-110620-BE-024	96	102	103
240-140187-7	GW-110920-BE-025	100	102	108
240-140187-7	GW-110920-BE-025	98	104	106
240-140187-8	GW-110920-BE-026	96	103	108
240-140187-8	GW-110920-BE-026	96	104	107
240-140187-9	GW-110920-BE-027	98	101	105
240-140187-9	GW-110920-BE-027	96	102	106
240-140187-10	GW-110920-BE-028	99	104	108
240-140187-10	GW-110920-BE-028	97	103	106
240-140187-10 MS	GW-110920-BE-028	99	104	106
240-140187-10 MS	GW-110920-BE-028	98	106	105
240-140187-10 MSD	GW-110920-BE-028	98	105	106
240-140187-10 MSD	GW-110920-BE-028	97	105	107
240-140187-11	GW-110920-BE-029	96	104	106
240-140187-11	GW-110920-BE-029	96	103	106
240-140187-12	GW-110920-BE-030	97	101	103
240-140187-12	GW-110920-BE-030	97	101	105
240-140187-13	GW-110920-BE-031	96	102	100
240-140187-13	GW-110920-BE-031	95	102	102
240-140187-14	GW-111020-BE-032	96	103	103
240-140187-14	GW-111020-BE-032	96	103	104
240-140187-15	GW-111020-BE-033	95	104	110
240-140187-15	GW-111020-BE-033	96	104	105
240-140187-16	GW-111120-BE-034	95	102	103
240-140187-16	GW-111120-BE-034	95	103	105
240-140187-17	GW-111120-BE-035	96	101	104
240-140187-17	GW-111120-BE-035	96	101	105
240-140187-18	GW-111120-BE-036	97	102	110
240-140187-18	GW-111120-BE-036	98	104	105
240-140187-18 MS	GW-111120-BE-036	98	103	108
240-140187-18 MSD	GW-111120-BE-036	97	105	108
240-140187-19	GW-111120-BE-037	99	102	106
240-140187-19	GW-111120-BE-037	93	103	104
240-140187-20	TB-111220-BE-003	96	102	104
240-140187-20	TB-111220-BE-003	95	103	104
240-140187-21	GW-111220-BE-038	100	97	92
240-140187-21	GW-111220-BE-038	96	104	110
240-140187-22	GW-111220-BE-039	95	94	110
240-140187-22	GW-111220-BE-039	99	102	106

Surrogate Summary

Client: GHD Services Inc. Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(79-120)	(79-120)
240-140187-23	GW-111220-BE-040	101	96	108
240-140187-23	GW-111220-BE-040	98	104	109
240-140187-24	GW-111220-BE-041	102	92	98
240-140187-24	GW-111220-BE-041	100	102	107
240-140187-25	GW-111220-BE-042	102	97	101
240-140187-25	GW-111220-BE-042	100	104	108
240-140187-26	GW-111220-BE-043	103	95	99
240-140187-26	GW-111220-BE-043	98	102	108
LCS 310-299509/32	Lab Control Sample	98	105	106
LCS 310-299509/7	Lab Control Sample	98	103	104
LCS 310-299687/5	Lab Control Sample	95	101	109
LCS 310-299687/6	Lab Control Sample	105	94	109
LCS 310-299697/6	Lab Control Sample	96	104	105
LCS 310-299697/7	Lab Control Sample	96	104	104
LCS 310-299701/6	Lab Control Sample	99	103	105
LCS 310-299701/7	Lab Control Sample	94	104	102
LCS 310-299826/6	Lab Control Sample	96	103	107
LCS 310-299826/7	Lab Control Sample	97	103	104
MB 310-299509/8	Method Blank	96	102	102
MB 310-299687/7	Method Blank	98	94	104
MB 310-299697/8	Method Blank	96	105	103
MB 310-299701/8	Method Blank	98	102	105
MB 310-299826/8	Method Blank	96	104	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-299509/8
Matrix: Water
Analysis Batch: 299509

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 07:19	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 07:19	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 07:19	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 07:19	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 07:19	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 07:19	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 07:19	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 07:19	1
Acetone	10	U	10	3.1	ug/L			11/18/20 07:19	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 07:19	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 07:19	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 07:19	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 07:19	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 07:19	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 07:19	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/18/20 07:19	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 07:19	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 07:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			11/18/20 07:19	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 07:19	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 07:19	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 07:19	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 07:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 07:19	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 07:19	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 07:19	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 07:19	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 07:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 07:19	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 07:19	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 07:19	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/18/20 07:19	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 07:19	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 07:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 07:19*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/18/20 07:19*	*1*
Dibromofluoromethane (Surr)	*102*		*79 - 120*		*11/18/20 07:19*	*1*

Lab Sample ID: LCS 310-299509/32
Matrix: Water
Analysis Batch: 299509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			20.0	21.6		ug/L		108	70 - 129		
1,1,2,2-Tetrachloroethane			20.0	17.9		ug/L		90	66 - 129		
1,1,2-Trichloroethane			20.0	18.1		ug/L		91	68 - 128		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-299509/32
Matrix: Water
Analysis Batch: 299509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	21.5		ug/L		108	71 - 131
1,1-Dichloroethene	20.0	21.2		ug/L		106	64 - 137
1,2-Dichloroethane	20.0	23.6		ug/L		118	72 - 128
1,2-Dichloropropane	20.0	20.2		ug/L		101	71 - 130
2-Hexanone	40.0	38.1		ug/L		95	56 - 138
Acetone	40.0	41.3		ug/L		103	50 - 150
Benzene	20.0	20.1		ug/L		101	73 - 127
Bromoform	20.0	14.9		ug/L		75	58 - 125
Carbon disulfide	20.0	23.1		ug/L		115	58 - 140
Carbon tetrachloride	20.0	20.8		ug/L		104	66 - 136
Chlorobenzene	20.0	18.6		ug/L		93	72 - 124
Chloroform	20.0	19.7		ug/L		99	72 - 125
cis-1,2-Dichloroethene	20.0	19.5		ug/L		97	71 - 130
cis-1,3-Dichloropropene	20.0	18.6		ug/L		93	69 - 122
Dichlorobromomethane	20.0	19.6		ug/L		98	70 - 122
Ethylbenzene	20.0	20.0		ug/L		100	73 - 127
m-Xylene & p-Xylene	20.0	19.0		ug/L		95	72 - 128
2-Butanone (MEK)	40.0	42.3		ug/L		106	49 - 150
4-Methyl-2-pentanone (MIBK)	40.0	38.2		ug/L		95	60 - 135
Methylene Chloride	20.0	19.0		ug/L		95	48 - 150
o-Xylene	20.0	18.4		ug/L		92	70 - 128
Styrene	20.0	17.7		ug/L		89	69 - 127
Tetrachloroethene	20.0	18.5		ug/L		93	68 - 135
Toluene	20.0	18.5		ug/L		92	71 - 126
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	69 - 132
trans-1,3-Dichloropropene	20.0	16.5		ug/L		82	65 - 123
Trichloroethene	20.0	20.3		ug/L		102	71 - 130
Xylenes, Total	40.0	37.4		ug/L		94	70 - 128
Chlorodibromomethane	20.0	16.5		ug/L		82	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*105*		*79 - 120*
Dibromofluoromethane (Surr)	*106*		*79 - 120*

Lab Sample ID: LCS 310-299509/7
Matrix: Water
Analysis Batch: 299509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	4.64		ug/L		46	22 - 150
Chloroethane	10.0	8.27		ug/L		83	61 - 139
Chloromethane	10.0	8.91		ug/L		89	48 - 150
Vinyl chloride	10.0	8.00		ug/L		80	65 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*103*		*79 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-299509/7 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 299509

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*104*		*79 - 120*

Lab Sample ID: 240-140187-10 MS **Client Sample ID: GW-110920-BE-028**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 299509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	5.39		ug/L		54	52 - 129
1,1,2,2-Tetrachloroethane	0.50	U	10.0	7.96		ug/L		80	51 - 140
1,1,2-Trichloroethane	0.50	U	10.0	7.37		ug/L		74	50 - 142
1,1-Dichloroethane	4.6		10.0	10.8		ug/L		63	58 - 131
1,1-Dichloroethene	20	F1	10.0	22.9	F1	ug/L		29	52 - 137
1,2-Dichloroethane	1.0	U	10.0	8.71		ug/L		87	51 - 138
1,2-Dichloropropane	1.0	U	10.0	7.16		ug/L		72	58 - 134
2-Hexanone	10	U	20.0	16.2		ug/L		81	49 - 142
Acetone	10	U	20.0	15.9		ug/L		79	37 - 150
Benzene	0.67		10.0	6.68		ug/L		60	54 - 128
Bromoform	5.0	U	10.0	5.56		ug/L		56	40 - 139
Carbon disulfide	1.0	U	10.0	5.46		ug/L		55	40 - 140
Carbon tetrachloride	2.0	U	10.0	5.11		ug/L		51	47 - 136
Chlorobenzene	1.0	U	10.0	6.88		ug/L		69	49 - 135
Chloroform	3.0	U	10.0	6.88		ug/L		69	55 - 131
cis-1,3-Dichloropropene	0.50	U	10.0	6.29		ug/L		63	45 - 131
Dichlorobromomethane	1.0	U	10.0	7.32		ug/L		73	50 - 135
Ethylbenzene	1.0	U	10.0	6.41		ug/L		64	40 - 138
m-Xylene & p-Xylene	2.0	U	10.0	6.84		ug/L		68	40 - 140
2-Butanone (MEK)	10	U	20.0	16.1		ug/L		80	47 - 150
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.1		ug/L		81	51 - 144
Methylene Chloride	1.0	U	10.0	6.44		ug/L		64	43 - 150
o-Xylene	1.0	U	10.0	6.61		ug/L		66	42 - 140
Styrene	1.0	U	10.0	6.27		ug/L		63	44 - 138
Tetrachloroethene	1.0	U	10.0	4.93		ug/L		49	43 - 135
Toluene	1.0	U	10.0	6.54		ug/L		65	44 - 136
trans-1,2-Dichloroethene	64		10.0	65.3	4	ug/L		13	52 - 132
trans-1,3-Dichloropropene	0.50	U	10.0	5.65		ug/L		56	43 - 133
Trichloroethene	1.0	U	10.0	6.10		ug/L		61	49 - 130
Xylenes, Total	3.0	U	20.0	13.5		ug/L		67	40 - 140
Chlorodibromomethane	2.0	U	10.0	6.41		ug/L		64	45 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*106*		*79 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-140187-10 MSD
Matrix: Water
Analysis Batch: 299509

Client Sample ID: GW-110920-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	10.0	6.08		ug/L		61	52 - 129	12	22
1,1,2,2-Tetrachloroethane	0.50	U	10.0	8.78		ug/L		88	51 - 140	10	22
1,1,2-Trichloroethane	0.50	U	10.0	7.88		ug/L		79	50 - 142	7	24
1,1-Dichloroethane	4.6		10.0	11.3		ug/L		68	58 - 131	5	24
1,1-Dichloroethene	20	F1	10.0	22.4	F1	ug/L		24	52 - 137	2	23
1,2-Dichloroethane	1.0	U	10.0	9.27		ug/L		93	51 - 138	6	20
1,2-Dichloropropane	1.0	U	10.0	7.60		ug/L		76	58 - 134	6	26
2-Hexanone	10	U	20.0	16.5		ug/L		82	49 - 142	2	24
Acetone	10	U	20.0	16.5		ug/L		83	37 - 150	4	29
Benzene	0.67		10.0	7.30		ug/L		66	54 - 128	9	21
Bromoform	5.0	U	10.0	6.10		ug/L		61	40 - 139	9	22
Carbon disulfide	1.0	U	10.0	5.57		ug/L		56	40 - 140	2	35
Carbon tetrachloride	2.0	U	10.0	5.01		ug/L		50	47 - 136	2	23
Chlorobenzene	1.0	U	10.0	7.19		ug/L		72	49 - 135	5	21
Chloroform	3.0	U	10.0	7.24		ug/L		72	55 - 131	5	23
cis-1,3-Dichloropropene	0.50	U	10.0	6.83		ug/L		68	45 - 131	8	21
Dichlorobromomethane	1.0	U	10.0	7.73		ug/L		77	50 - 135	6	24
Ethylbenzene	1.0	U	10.0	6.93		ug/L		69	40 - 138	8	21
m-Xylene & p-Xylene	2.0	U	10.0	7.49		ug/L		75	40 - 140	9	23
2-Butanone (MEK)	10	U	20.0	17.6		ug/L		88	47 - 150	9	24
4-Methyl-2-pentanone (MIBK)	10	U	20.0	17.2		ug/L		86	51 - 144	6	20
Methylene Chloride	1.0	U	10.0	7.09		ug/L		71	43 - 150	10	25
o-Xylene	1.0	U	10.0	7.17		ug/L		72	42 - 140	8	22
Styrene	1.0	U	10.0	6.79		ug/L		68	44 - 138	8	22
Tetrachloroethene	1.0	U	10.0	5.26		ug/L		53	43 - 135	6	23
Toluene	1.0	U	10.0	6.85		ug/L		69	44 - 136	5	22
trans-1,2-Dichloroethene	64		10.0	63.5	4	ug/L		-5	52 - 132	3	25
trans-1,3-Dichloropropene	0.50	U	10.0	6.16		ug/L		62	43 - 133	9	23
Trichloroethene	1.0	U	10.0	6.49		ug/L		65	49 - 130	6	21
Xylenes, Total	3.0	U	20.0	14.7		ug/L		73	40 - 140	9	23
Chlorodibromomethane	2.0	U	10.0	6.68		ug/L		67	45 - 141	4	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*105*		*79 - 120*
Dibromofluoromethane (Surr)	*106*		*79 - 120*

Lab Sample ID: MB 310-299687/7
Matrix: Water
Analysis Batch: 299687

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/19/20 03:13	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/19/20 03:13	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/19/20 03:13	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/19/20 03:13	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/19/20 03:13	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/19/20 03:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-299687/7
Matrix: Water
Analysis Batch: 299687

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/19/20 03:13	1
2-Hexanone	10	U	10	2.0	ug/L			11/19/20 03:13	1
Acetone	10	U	10	3.1	ug/L			11/19/20 03:13	1
Benzene	0.50	U	0.50	0.22	ug/L			11/19/20 03:13	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/19/20 03:13	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/19/20 03:13	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/19/20 03:13	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/19/20 03:13	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/19/20 03:13	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/19/20 03:13	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/19/20 03:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			11/19/20 03:13	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/19/20 03:13	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/19/20 03:13	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/19/20 03:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/19/20 03:13	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/19/20 03:13	1
Styrene	1.0	U	1.0	0.37	ug/L			11/19/20 03:13	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/19/20 03:13	1
Toluene	1.0	U	1.0	0.43	ug/L			11/19/20 03:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/19/20 03:13	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/19/20 03:13	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/19/20 03:13	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/19/20 03:13	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/19/20 03:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/19/20 03:13*	*1*
Toluene-d8 (Surr)	*94*		*79 - 120*		*11/19/20 03:13*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*11/19/20 03:13*	*1*

Lab Sample ID: LCS 310-299687/5
Matrix: Water
Analysis Batch: 299687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	70 - 129
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	66 - 129
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	68 - 128
1,1-Dichloroethane	20.0	16.8		ug/L		84	71 - 131
1,1-Dichloroethene	20.0	14.7		ug/L		74	64 - 137
1,2-Dichloroethane	20.0	20.7		ug/L		103	72 - 128
1,2-Dichloropropane	20.0	18.0		ug/L		90	71 - 130
2-Hexanone	40.0	39.3		ug/L		98	56 - 138
Acetone	40.0	37.5		ug/L		94	50 - 150
Benzene	20.0	18.7		ug/L		94	73 - 127
Bromoform	20.0	21.0		ug/L		105	58 - 125
Carbon tetrachloride	20.0	20.4		ug/L		102	66 - 136

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-299687/5
Matrix: Water
Analysis Batch: 299687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	20.0	18.4		ug/L		92	72 - 124
Chloroform	20.0	16.6		ug/L		83	72 - 125
cis-1,2-Dichloroethene	20.0	17.6		ug/L		88	71 - 130
Dichlorobromomethane	20.0	18.8		ug/L		94	70 - 122
Ethylbenzene	20.0	19.5		ug/L		98	73 - 127
m-Xylene & p-Xylene	20.0	19.5		ug/L		97	72 - 128
2-Butanone (MEK)	40.0	35.6		ug/L		89	49 - 150
4-Methyl-2-pentanone (MIBK)	40.0	42.0		ug/L		105	60 - 135
Methylene Chloride	20.0	14.5		ug/L		73	48 - 150
o-Xylene	20.0	20.7		ug/L		103	70 - 128
Styrene	20.0	19.8		ug/L		99	69 - 127
Tetrachloroethene	20.0	19.5		ug/L		98	68 - 135
Toluene	20.0	17.6		ug/L		88	71 - 126
trans-1,2-Dichloroethene	20.0	15.4		ug/L		77	69 - 132
Trichloroethene	20.0	18.4		ug/L		92	71 - 130
Xylenes, Total	40.0	40.2		ug/L		101	70 - 128
Chlorodibromomethane	20.0	20.2		ug/L		101	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*101*		*79 - 120*
Dibromofluoromethane (Surr)	*109*		*79 - 120*

Lab Sample ID: LCS 310-299687/6
Matrix: Water
Analysis Batch: 299687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	20.3		ug/L		102	22 - 150
Chloroethane	20.0	19.2		ug/L		96	61 - 139
Chloromethane	20.0	19.3		ug/L		96	48 - 150
Vinyl chloride	20.0	18.5		ug/L		93	65 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*94*		*79 - 120*
Dibromofluoromethane (Surr)	*109*		*79 - 120*

Lab Sample ID: MB 310-299697/8
Matrix: Water
Analysis Batch: 299697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/18/20 19:34	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/18/20 19:34	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/18/20 19:34	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/18/20 19:34	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/18/20 19:34	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-299697/8
Matrix: Water
Analysis Batch: 299697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/18/20 19:34	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/18/20 19:34	1
2-Hexanone	10	U	10	2.0	ug/L			11/18/20 19:34	1
Acetone	10	U	10	3.1	ug/L			11/18/20 19:34	1
Benzene	0.50	U	0.50	0.22	ug/L			11/18/20 19:34	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/18/20 19:34	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/18/20 19:34	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/18/20 19:34	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/18/20 19:34	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/18/20 19:34	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/18/20 19:34	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/18/20 19:34	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/18/20 19:34	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/18/20 19:34	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/18/20 19:34	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/18/20 19:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/18/20 19:34	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/18/20 19:34	1
Styrene	1.0	U	1.0	0.37	ug/L			11/18/20 19:34	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/18/20 19:34	1
Toluene	1.0	U	1.0	0.43	ug/L			11/18/20 19:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/18/20 19:34	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/18/20 19:34	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/18/20 19:34	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/18/20 19:34	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/18/20 19:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/18/20 19:34*	*1*
Toluene-d8 (Surr)	*105*		*79 - 120*		*11/18/20 19:34*	*1*
Dibromofluoromethane (Surr)	*103*		*79 - 120*		*11/18/20 19:34*	*1*

Lab Sample ID: LCS 310-299697/6
Matrix: Water
Analysis Batch: 299697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	70 - 129
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		96	66 - 129
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	68 - 128
1,1-Dichloroethane	20.0	21.3		ug/L		107	71 - 131
1,1-Dichloroethene	20.0	20.4		ug/L		102	64 - 137
1,2-Dichloroethane	20.0	23.8		ug/L		119	72 - 128
1,2-Dichloropropane	20.0	20.3		ug/L		101	71 - 130
2-Hexanone	40.0	42.3		ug/L		106	56 - 138
Acetone	40.0	48.4		ug/L		121	50 - 150
Benzene	20.0	20.0		ug/L		100	73 - 127
Bromoform	20.0	14.9		ug/L		75	58 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-299697/6
Matrix: Water
Analysis Batch: 299697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	22.0		ug/L		110	58 - 140
Carbon tetrachloride	20.0	19.7		ug/L		98	66 - 136
Chlorobenzene	20.0	18.3		ug/L		91	72 - 124
Chloroform	20.0	19.9		ug/L		100	72 - 125
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	69 - 122
Dichlorobromomethane	20.0	19.4		ug/L		97	70 - 122
Ethylbenzene	20.0	19.7		ug/L		99	73 - 127
m-Xylene & p-Xylene	20.0	19.0		ug/L		95	72 - 128
2-Butanone (MEK)	40.0	43.8		ug/L		110	49 - 150
4-Methyl-2-pentanone (MIBK)	40.0	42.4		ug/L		106	60 - 135
Methylene Chloride	20.0	18.7		ug/L		93	48 - 150
o-Xylene	20.0	18.1		ug/L		91	70 - 128
Styrene	20.0	17.7		ug/L		89	69 - 127
Tetrachloroethene	20.0	18.0		ug/L		90	68 - 135
Toluene	20.0	18.0		ug/L		90	71 - 126
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	69 - 132
trans-1,3-Dichloropropene	20.0	15.8		ug/L		79	65 - 123
Trichloroethene	20.0	20.5		ug/L		103	71 - 130
Xylenes, Total	40.0	37.1		ug/L		93	70 - 128
Chlorodibromomethane	20.0	16.8		ug/L		84	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*105*		*79 - 120*

Lab Sample ID: LCS 310-299697/7
Matrix: Water
Analysis Batch: 299697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	3.82		ug/L		38	22 - 150
Chloromethane	10.0	8.45		ug/L		85	48 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*79 - 120*

Lab Sample ID: MB 310-299701/8
Matrix: Water
Analysis Batch: 299701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/19/20 07:03	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/19/20 07:03	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/19/20 07:03	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/19/20 07:03	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-299701/8
Matrix: Water
Analysis Batch: 299701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/19/20 07:03	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/19/20 07:03	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/19/20 07:03	1
2-Hexanone	10	U	10	2.0	ug/L			11/19/20 07:03	1
Acetone	10	U	10	3.1	ug/L			11/19/20 07:03	1
Benzene	0.50	U	0.50	0.22	ug/L			11/19/20 07:03	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/19/20 07:03	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/19/20 07:03	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/19/20 07:03	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/19/20 07:03	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/19/20 07:03	1
Chloroethane	4.0	U	4.0	0.79	ug/L			11/19/20 07:03	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/19/20 07:03	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/19/20 07:03	1
cis-1,2-Dichloroethene	0.350	J	1.0	0.21	ug/L			11/19/20 07:03	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/19/20 07:03	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/19/20 07:03	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/19/20 07:03	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/19/20 07:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/19/20 07:03	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/19/20 07:03	1
Styrene	1.0	U	1.0	0.37	ug/L			11/19/20 07:03	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/19/20 07:03	1
Toluene	1.0	U	1.0	0.43	ug/L			11/19/20 07:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/19/20 07:03	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/19/20 07:03	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/19/20 07:03	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/19/20 07:03	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/19/20 07:03	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/19/20 07:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/19/20 07:03*	*1*
Toluene-d8 (Surr)	*102*		*79 - 120*		*11/19/20 07:03*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/19/20 07:03*	*1*

Lab Sample ID: LCS 310-299701/6
Matrix: Water
Analysis Batch: 299701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.0	19.6		ug/L		98	71 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*103*		*79 - 120*
Dibromofluoromethane (Surr)	*105*		*79 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-299701/7
Matrix: Water
Analysis Batch: 299701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*102*		*79 - 120*

Lab Sample ID: 240-140187-10 MS
Matrix: Water
Analysis Batch: 299701

Client Sample ID: GW-110920-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene	4200	B	1000	4990	4	ug/L		83	55 - 131		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*106*		*79 - 120*
Dibromofluoromethane (Surr)	*105*		*79 - 120*

Lab Sample ID: 240-140187-10 MSD
Matrix: Water
Analysis Batch: 299701

Client Sample ID: GW-110920-BE-028
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4200	B	1000	4810	4	ug/L		66	55 - 131	4	23

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*105*		*79 - 120*
Dibromofluoromethane (Surr)	*107*		*79 - 120*

Lab Sample ID: MB 310-299826/8
Matrix: Water
Analysis Batch: 299826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			11/19/20 19:20	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13	ug/L			11/19/20 19:20	1
1,1,2-Trichloroethane	0.50	U	0.50	0.22	ug/L			11/19/20 19:20	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			11/19/20 19:20	1
1,1-Dichloroethene	2.0	U	2.0	0.56	ug/L			11/19/20 19:20	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			11/19/20 19:20	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			11/19/20 19:20	1
2-Hexanone	10	U	10	2.0	ug/L			11/19/20 19:20	1
Acetone	10	U	10	3.1	ug/L			11/19/20 19:20	1
Benzene	0.50	U	0.50	0.22	ug/L			11/19/20 19:20	1
Bromoform	5.0	U	5.0	0.78	ug/L			11/19/20 19:20	1
Bromomethane	2.0	U	2.0	0.82	ug/L			11/19/20 19:20	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			11/19/20 19:20	1
Carbon tetrachloride	2.0	U	2.0	0.65	ug/L			11/19/20 19:20	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			11/19/20 19:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-299826/8
Matrix: Water
Analysis Batch: 299826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	4.0	U	4.0	0.79	ug/L			11/19/20 19:20	1
Chloroform	3.0	U	3.0	1.3	ug/L			11/19/20 19:20	1
Chloromethane	3.0	U	3.0	0.61	ug/L			11/19/20 19:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			11/19/20 19:20	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.20	ug/L			11/19/20 19:20	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			11/19/20 19:20	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			11/19/20 19:20	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			11/19/20 19:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			11/19/20 19:20	1
Methylene Chloride	1.0	U	1.0	0.78	ug/L			11/19/20 19:20	1
Styrene	1.0	U	1.0	0.37	ug/L			11/19/20 19:20	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			11/19/20 19:20	1
Toluene	1.0	U	1.0	0.43	ug/L			11/19/20 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			11/19/20 19:20	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.22	ug/L			11/19/20 19:20	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			11/19/20 19:20	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			11/19/20 19:20	1
Xylenes, Total	3.0	U	3.0	0.40	ug/L			11/19/20 19:20	1
Chlorodibromomethane	2.0	U	2.0	0.11	ug/L			11/19/20 19:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/19/20 19:20*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*11/19/20 19:20*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*11/19/20 19:20*	*1*

Lab Sample ID: LCS 310-299826/6
Matrix: Water
Analysis Batch: 299826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	70 - 129
1,1,2,2-Tetrachloroethane	20.0	18.0		ug/L		90	66 - 129
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	68 - 128
1,1-Dichloroethane	20.0	21.1		ug/L		106	71 - 131
1,1-Dichloroethene	20.0	20.1		ug/L		100	64 - 137
1,2-Dichloroethane	20.0	24.0		ug/L		120	72 - 128
1,2-Dichloropropane	20.0	20.2		ug/L		101	71 - 130
2-Hexanone	40.0	37.8		ug/L		94	56 - 138
Acetone	40.0	46.0		ug/L		115	50 - 150
Benzene	20.0	19.7		ug/L		98	73 - 127
Bromoform	20.0	14.2		ug/L		71	58 - 125
Carbon disulfide	20.0	22.0		ug/L		110	58 - 140
Carbon tetrachloride	20.0	20.1		ug/L		100	66 - 136
Chlorobenzene	20.0	17.8		ug/L		89	72 - 124
Chloroform	20.0	19.1		ug/L		95	72 - 125
cis-1,2-Dichloroethene	20.0	19.5		ug/L		97	71 - 130
cis-1,3-Dichloropropene	20.0	18.1		ug/L		91	69 - 122
Dichlorobromomethane	20.0	19.5		ug/L		97	70 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-299826/6
Matrix: Water
Analysis Batch: 299826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	18.8		ug/L		94	73 - 127
m-Xylene & p-Xylene	20.0	18.0		ug/L		90	72 - 128
2-Butanone (MEK)	40.0	41.4		ug/L		103	49 - 150
4-Methyl-2-pentanone (MIBK)	40.0	38.6		ug/L		96	60 - 135
Methylene Chloride	20.0	18.7		ug/L		94	48 - 150
o-Xylene	20.0	17.7		ug/L		88	70 - 128
Styrene	20.0	16.9		ug/L		84	69 - 127
Tetrachloroethene	20.0	17.5		ug/L		87	68 - 135
Toluene	20.0	17.9		ug/L		89	71 - 126
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	69 - 132
trans-1,3-Dichloropropene	20.0	15.6		ug/L		78	65 - 123
Trichloroethene	20.0	20.4		ug/L		102	71 - 130
Xylenes, Total	40.0	35.7		ug/L		89	70 - 128
Chlorodibromomethane	20.0	16.3		ug/L		82	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*103*		*79 - 120*
Dibromofluoromethane (Surr)	*107*		*79 - 120*

Lab Sample ID: LCS 310-299826/7
Matrix: Water
Analysis Batch: 299826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	3.96		ug/L		40	22 - 150
Chloroethane	10.0	8.20		ug/L		82	61 - 139
Chloromethane	10.0	8.11		ug/L		81	48 - 150
Vinyl chloride	10.0	8.07		ug/L		81	65 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*103*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*79 - 120*

Lab Sample ID: 240-140187-18 MS
Matrix: Water
Analysis Batch: 299826

Client Sample ID: GW-111120-BE-036
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	4.5	J	400	437		ug/L		108	52 - 129
1,1,2,2-Tetrachloroethane	10	U	400	374		ug/L		93	51 - 140
1,1,2-Trichloroethane	10	U	400	387		ug/L		97	50 - 142
1,1-Dichloroethane	38		400	474		ug/L		109	58 - 131
1,1-Dichloroethene	12	J	400	439		ug/L		107	52 - 137
1,2-Dichloroethane	20	U	400	483		ug/L		121	51 - 138
1,2-Dichloropropane	20	U	400	413		ug/L		103	58 - 134
2-Hexanone	200	U	800	802		ug/L		100	49 - 142

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-140187-18 MS
Client Sample ID: GW-111120-BE-036
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 299826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	200	U	800	794		ug/L		99	37 - 150
Benzene	10	U	400	411		ug/L		103	54 - 128
Bromoform	100	U	400	291		ug/L		73	40 - 139
Carbon disulfide	20	U	400	469		ug/L		117	40 - 140
Carbon tetrachloride	40	U	400	417		ug/L		104	47 - 136
Chlorobenzene	20	U	400	375		ug/L		94	49 - 135
Chloroform	60	U	400	409		ug/L		102	55 - 131
cis-1,2-Dichloroethene	2200		400	2710	4	ug/L		133	55 - 131
cis-1,3-Dichloropropene	10	U	400	371		ug/L		93	45 - 131
Dichlorobromomethane	20	U	400	396		ug/L		99	50 - 135
Ethylbenzene	20	U	400	400		ug/L		100	40 - 138
m-Xylene & p-Xylene	40	U	400	383		ug/L		96	40 - 140
2-Butanone (MEK)	200	U	800	872		ug/L		109	47 - 150
4-Methyl-2-pentanone (MIBK)	200	U	800	807		ug/L		101	51 - 144
Methylene Chloride	20	U	400	374		ug/L		93	43 - 150
o-Xylene	20	U	400	368		ug/L		92	42 - 140
Styrene	20	U	400	353		ug/L		88	44 - 138
Tetrachloroethene	20	U	400	374		ug/L		94	43 - 135
Toluene	20	U	400	375		ug/L		94	44 - 136
trans-1,2-Dichloroethene	15	J	400	443		ug/L		107	52 - 132
trans-1,3-Dichloropropene	10	U	400	334		ug/L		83	43 - 133
Trichloroethene	120		400	554		ug/L		108	49 - 130
Xylenes, Total	60	U	800	751		ug/L		94	40 - 140
Chlorodibromomethane	40	U	400	338		ug/L		85	45 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*103*		*79 - 120*
Dibromofluoromethane (Surr)	*108*		*79 - 120*

Lab Sample ID: 240-140187-18 MSD
Client Sample ID: GW-111120-BE-036
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 299826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.5	J	400	384		ug/L		95	52 - 129	13	22
1,1,2,2-Tetrachloroethane	10	U	400	347		ug/L		87	51 - 140	7	22
1,1,2-Trichloroethane	10	U	400	348		ug/L		87	50 - 142	11	24
1,1-Dichloroethane	38		400	417		ug/L		95	58 - 131	13	24
1,1-Dichloroethene	12	J	400	371		ug/L		90	52 - 137	17	23
1,2-Dichloroethane	20	U	400	435		ug/L		109	51 - 138	10	20
1,2-Dichloropropane	20	U	400	358		ug/L		90	58 - 134	14	26
2-Hexanone	200	U	800	749		ug/L		94	49 - 142	7	24
Acetone	200	U	800	806		ug/L		101	37 - 150	2	29
Benzene	10	U	400	358		ug/L		89	54 - 128	14	21
Bromoform	100	U	400	282		ug/L		70	40 - 139	3	22
Carbon disulfide	20	U	400	390		ug/L		98	40 - 140	18	35
Carbon tetrachloride	40	U	400	365		ug/L		91	47 - 136	13	23

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-140187-18 MSD
Client Sample ID: GW-111120-BE-036
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 299826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	20	U	400	331		ug/L		83	49 - 135	13	21
Chloroform	60	U	400	358		ug/L		90	55 - 131	13	23
cis-1,2-Dichloroethene	2200		400	2350	4	ug/L		45	55 - 131	14	23
cis-1,3-Dichloropropene	10	U	400	341		ug/L		85	45 - 131	8	21
Dichlorobromomethane	20	U	400	350		ug/L		88	50 - 135	12	24
Ethylbenzene	20	U	400	350		ug/L		87	40 - 138	13	21
m-Xylene & p-Xylene	40	U	400	333		ug/L		83	40 - 140	14	23
2-Butanone (MEK)	200	U	800	807		ug/L		101	47 - 150	8	24
4-Methyl-2-pentanone (MIBK)	200	U	800	754		ug/L		94	51 - 144	7	20
Methylene Chloride	20	U	400	327		ug/L		82	43 - 150	13	25
o-Xylene	20	U	400	321		ug/L		80	42 - 140	14	22
Styrene	20	U	400	320		ug/L		80	44 - 138	10	22
Tetrachloroethene	20	U	400	319		ug/L		80	43 - 135	16	23
Toluene	20	U	400	327		ug/L		82	44 - 136	14	22
trans-1,2-Dichloroethene	15	J	400	376		ug/L		90	52 - 132	16	25
trans-1,3-Dichloropropene	10	U	400	300		ug/L		75	43 - 133	11	23
Trichloroethene	120		400	474		ug/L		88	49 - 130	16	21
Xylenes, Total	60	U	800	654		ug/L		82	40 - 140	14	23
Chlorodibromomethane	40	U	400	312		ug/L		78	45 - 141	8	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*105*		*79 - 120*
Dibromofluoromethane (Surr)	*108*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

GC/MS VOA

Analysis Batch: 299509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140187-1	GW-110620-BE-019	Total/NA	Water	8260D	
240-140187-2	GW-110620-BE-020	Total/NA	Water	8260D	
240-140187-3	GW-110620-BE-021	Total/NA	Water	8260D	
240-140187-4	GW-110620-BE-022	Total/NA	Water	8260D	
240-140187-5	GW-110620-BE-023	Total/NA	Water	8260D	
240-140187-6	GW-110620-BE-024	Total/NA	Water	8260D	
240-140187-7	GW-110920-BE-025	Total/NA	Water	8260D	
240-140187-8	GW-110920-BE-026	Total/NA	Water	8260D	
240-140187-9	GW-110920-BE-027	Total/NA	Water	8260D	
240-140187-10	GW-110920-BE-028	Total/NA	Water	8260D	
240-140187-11	GW-110920-BE-029	Total/NA	Water	8260D	
240-140187-12	GW-110920-BE-030	Total/NA	Water	8260D	
240-140187-13	GW-110920-BE-031	Total/NA	Water	8260D	
240-140187-14	GW-111020-BE-032	Total/NA	Water	8260D	
240-140187-15	GW-111020-BE-033	Total/NA	Water	8260D	
240-140187-17	GW-111120-BE-035	Total/NA	Water	8260D	
240-140187-18	GW-111120-BE-036	Total/NA	Water	8260D	
240-140187-19	GW-111120-BE-037	Total/NA	Water	8260D	
240-140187-20	TB-111220-BE-003	Total/NA	Water	8260D	
MB 310-299509/8	Method Blank	Total/NA	Water	8260D	
LCS 310-299509/32	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-299509/7	Lab Control Sample	Total/NA	Water	8260D	
240-140187-10 MS	GW-110920-BE-028	Total/NA	Water	8260D	
240-140187-10 MSD	GW-110920-BE-028	Total/NA	Water	8260D	

Analysis Batch: 299687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140187-21	GW-111220-BE-038	Total/NA	Water	8260D	
240-140187-22	GW-111220-BE-039	Total/NA	Water	8260D	
240-140187-23	GW-111220-BE-040	Total/NA	Water	8260D	
240-140187-24	GW-111220-BE-041	Total/NA	Water	8260D	
240-140187-25	GW-111220-BE-042	Total/NA	Water	8260D	
240-140187-26	GW-111220-BE-043	Total/NA	Water	8260D	
MB 310-299687/7	Method Blank	Total/NA	Water	8260D	
LCS 310-299687/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-299687/6	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 299697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140187-21	GW-111220-BE-038	Total/NA	Water	8260D	
240-140187-22	GW-111220-BE-039	Total/NA	Water	8260D	
240-140187-23	GW-111220-BE-040	Total/NA	Water	8260D	
240-140187-24	GW-111220-BE-041	Total/NA	Water	8260D	
240-140187-25	GW-111220-BE-042	Total/NA	Water	8260D	
240-140187-26	GW-111220-BE-043	Total/NA	Water	8260D	
MB 310-299697/8	Method Blank	Total/NA	Water	8260D	
LCS 310-299697/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-299697/7	Lab Control Sample	Total/NA	Water	8260D	

QC Association Summary

Client: GHD Services Inc.
Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

GC/MS VOA

Analysis Batch: 299701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140187-1	GW-110620-BE-019	Total/NA	Water	8260D	
240-140187-2	GW-110620-BE-020	Total/NA	Water	8260D	
240-140187-3	GW-110620-BE-021	Total/NA	Water	8260D	
240-140187-4	GW-110620-BE-022	Total/NA	Water	8260D	
240-140187-5	GW-110620-BE-023	Total/NA	Water	8260D	
240-140187-7	GW-110920-BE-025	Total/NA	Water	8260D	
240-140187-8	GW-110920-BE-026	Total/NA	Water	8260D	
240-140187-9	GW-110920-BE-027	Total/NA	Water	8260D	
240-140187-10	GW-110920-BE-028	Total/NA	Water	8260D	
240-140187-11	GW-110920-BE-029	Total/NA	Water	8260D	
240-140187-12	GW-110920-BE-030	Total/NA	Water	8260D	
240-140187-13	GW-110920-BE-031	Total/NA	Water	8260D	
240-140187-14	GW-111020-BE-032	Total/NA	Water	8260D	
240-140187-15	GW-111020-BE-033	Total/NA	Water	8260D	
240-140187-16	GW-111120-BE-034	Total/NA	Water	8260D	
240-140187-17	GW-111120-BE-035	Total/NA	Water	8260D	
240-140187-19	GW-111120-BE-037	Total/NA	Water	8260D	
240-140187-20	TB-111220-BE-003	Total/NA	Water	8260D	
MB 310-299701/8	Method Blank	Total/NA	Water	8260D	
LCS 310-299701/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-299701/7	Lab Control Sample	Total/NA	Water	8260D	
240-140187-10 MS	GW-110920-BE-028	Total/NA	Water	8260D	
240-140187-10 MSD	GW-110920-BE-028	Total/NA	Water	8260D	

Analysis Batch: 299826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140187-16	GW-111120-BE-034	Total/NA	Water	8260D	
240-140187-18	GW-111120-BE-036	Total/NA	Water	8260D	
MB 310-299826/8	Method Blank	Total/NA	Water	8260D	
LCS 310-299826/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-299826/7	Lab Control Sample	Total/NA	Water	8260D	
240-140187-18 MS	GW-111120-BE-036	Total/NA	Water	8260D	
240-140187-18 MSD	GW-111120-BE-036	Total/NA	Water	8260D	

Client Sample ID: GW-110620-BE-019 — Lab Sample ID: 240-140187-1

Date Collected: 11/06/20 09:28 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 07:43	SJN	TAL CF
Total/NA	Analysis	8260D		20	299701	11/19/20 12:46	SJN	TAL CF

Client Sample ID: GW-110620-BE-020 — Lab Sample ID: 240-140187-2

Date Collected: 11/06/20 11:06 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 08:07	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 11:33	SJN	TAL CF

Client Sample ID: GW-110620-BE-021 — Lab Sample ID: 240-140187-3

Date Collected: 11/06/20 11:10 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 08:31	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 11:58	SJN	TAL CF

Client Sample ID: GW-110620-BE-022 — Lab Sample ID: 240-140187-4

Date Collected: 11/06/20 12:45 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 08:56	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 07:52	SJN	TAL CF

Client Sample ID: GW-110620-BE-023 — Lab Sample ID: 240-140187-5

Date Collected: 11/06/20 13:48 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 09:20	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 08:17	SJN	TAL CF

Client Sample ID: GW-110620-BE-024 — Lab Sample ID: 240-140187-6

Date Collected: 11/06/20 14:53 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 09:44	SJN	TAL CF

Client Sample ID: GW-110920-BE-025 — Lab Sample ID: 240-140187-7

Date Collected: 11/09/20 09:16 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 10:09	SJN	TAL CF
Total/NA	Analysis	8260D		20	299701	11/19/20 13:11	SJN	TAL CF

Client Sample ID: GW-110920-BE-026 — Lab Sample ID: 240-140187-8

Date Collected: 11/09/20 10:07 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 10:33	SJN	TAL CF
Total/NA	Analysis	8260D		50	299701	11/19/20 14:00	SJN	TAL CF

Client Sample ID: GW-110920-BE-027 — Lab Sample ID: 240-140187-9

Date Collected: 11/09/20 11:59 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 10:58	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 08:41	SJN	TAL CF

Client Sample ID: GW-110920-BE-028 — Lab Sample ID: 240-140187-10

Date Collected: 11/09/20 13:03 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 11:22	SJN	TAL CF
Total/NA	Analysis	8260D		50	299701	11/19/20 14:25	SJN	TAL CF

Client Sample ID: GW-110920-BE-029 — Lab Sample ID: 240-140187-11

Date Collected: 11/09/20 14:28 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 11:47	SJN	TAL CF
Total/NA	Analysis	8260D		50	299701	11/19/20 14:49	SJN	TAL CF

Client Sample ID: GW-110920-BE-030 — Lab Sample ID: 240-140187-12

Date Collected: 11/09/20 15:36 — **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 12:12	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 09:06	SJN	TAL CF

Client Sample ID: GW-110920-BE-031 — Lab Sample ID: 240-140187-13

Date Collected: 11/09/20 15:44 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 12:36	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 09:30	SJN	TAL CF

Client Sample ID: GW-111020-BE-032 — Lab Sample ID: 240-140187-14

Date Collected: 11/10/20 09:12 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 13:01	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 09:55	SJN	TAL CF

Client Sample ID: GW-111020-BE-033 — Lab Sample ID: 240-140187-15

Date Collected: 11/10/20 09:53 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 13:26	SJN	TAL CF
Total/NA	Analysis	8260D		50	299701	11/19/20 15:14	SJN	TAL CF

Client Sample ID: GW-111120-BE-034 — Lab Sample ID: 240-140187-16

Date Collected: 11/11/20 09:19 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299701	11/19/20 10:19	SJN	TAL CF
Total/NA	Analysis	8260D		1	299826	11/20/20 03:45	SJN	TAL CF

Client Sample ID: GW-111120-BE-035 — Lab Sample ID: 240-140187-17

Date Collected: 11/11/20 10:28 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 14:14	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 10:44	SJN	TAL CF

Client Sample ID: GW-111120-BE-036 — Lab Sample ID: 240-140187-18

Date Collected: 11/11/20 12:25 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 14:39	SJN	TAL CF
Total/NA	Analysis	8260D		20	299826	11/20/20 04:09	SJN	TAL CF

Client Sample ID: GW-111120-BE-037 — Lab Sample ID: 240-140187-19

Date Collected: 11/11/20 14:57 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 15:03	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 11:09	SJN	TAL CF

Client Sample ID: TB-111220-BE-003 — Lab Sample ID: 240-140187-20

Date Collected: 11/12/20 09:00 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299509	11/18/20 15:28	SJN	TAL CF
Total/NA	Analysis	8260D		1	299701	11/19/20 07:27	SJN	TAL CF

Client Sample ID: GW-111220-BE-038 — Lab Sample ID: 240-140187-21

Date Collected: 11/12/20 09:50 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299697	11/18/20 19:59	SJN	TAL CF
Total/NA	Analysis	8260D		20	299687	11/19/20 09:10	SJN	TAL CF

Client Sample ID: GW-111220-BE-039 — Lab Sample ID: 240-140187-22

Date Collected: 11/12/20 10:38 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299697	11/18/20 20:23	SJN	TAL CF
Total/NA	Analysis	8260D		50	299687	11/19/20 09:33	SJN	TAL CF

Client Sample ID: GW-111220-BE-040 — Lab Sample ID: 240-140187-23

Date Collected: 11/12/20 11:36 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299697	11/18/20 20:48	SJN	TAL CF
Total/NA	Analysis	8260D		10	299687	11/19/20 08:26	SJN	TAL CF

Client Sample ID: GW-111220-BE-041 — Lab Sample ID: 240-140187-24

Date Collected: 11/12/20 13:08 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299697	11/18/20 21:12	SJN	TAL CF
Total/NA	Analysis	8260D		50	299687	11/19/20 09:55	SJN	TAL CF

Lab Chronicle

Client: GHD Services Inc. Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Client Sample ID: GW-111220-BE-042 Lab Sample ID: 240-140187-25

Date Collected: 11/12/20 13:15 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299697	11/18/20 21:37	SJN	TAL CF
Total/NA	Analysis	8260D		50	299687	11/19/20 10:17	SJN	TAL CF

Client Sample ID: GW-111220-BE-043 Lab Sample ID: 240-140187-26

Date Collected: 11/12/20 14:02 **Matrix: Water**
Date Received: 11/13/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	299697	11/18/20 22:01	SJN	TAL CF
Total/NA	Analysis	8260D		50	299687	11/19/20 10:40	SJN	TAL CF

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Laboratory: Eurofins TestAmerica, Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-21
Georgia	State	IA100001 (OR)	09-29-21
Illinois	NELAP	200024	11-29-20
Iowa	State	007	12-01-21
Kansas	NELAP	E-10341	01-31-21
Minnesota	NELAP	019-999-319	12-31-21
Minnesota (Petrofund)	State	3349	08-22-21
North Dakota	State	R-186	09-29-21
Oregon	NELAP	IA100001	09-29-21
USDA	US Federal Programs	P330-19-00003	01-02-22

Method Summary

Client: GHD Services Inc. Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CF
5030B	Purge and Trap	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Sample Summary

Client: GHD Services Inc.
Job ID: 240-140187-1
Project/Site: 11209506, MLK - Anderson, IN

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-140187-1	GW-110620-BE-019	Water	11/06/20 09:28	11/13/20 09:50	
240-140187-2	GW-110620-BE-020	Water	11/06/20 11:06	11/13/20 09:50	
240-140187-3	GW-110620-BE-021	Water	11/06/20 11:10	11/13/20 09:50	
240-140187-4	GW-110620-BE-022	Water	11/06/20 12:45	11/13/20 09:50	
240-140187-5	GW-110620-BE-023	Water	11/06/20 13:48	11/13/20 09:50	
240-140187-6	GW-110620-BE-024	Water	11/06/20 14:53	11/13/20 09:50	
240-140187-7	GW-110920-BE-025	Water	11/09/20 09:16	11/13/20 09:50	
240-140187-8	GW-110920-BE-026	Water	11/09/20 10:07	11/13/20 09:50	
240-140187-9	GW-110920-BE-027	Water	11/09/20 11:59	11/13/20 09:50	
240-140187-10	GW-110920-BE-028	Water	11/09/20 13:03	11/13/20 09:50	
240-140187-11	GW-110920-BE-029	Water	11/09/20 14:28	11/13/20 09:50	
240-140187-12	GW-110920-BE-030	Water	11/09/20 15:36	11/13/20 09:50	
240-140187-13	GW-110920-BE-031	Water	11/09/20 15:44	11/13/20 09:50	
240-140187-14	GW-111020-BE-032	Water	11/10/20 09:12	11/13/20 09:50	
240-140187-15	GW-111020-BE-033	Water	11/10/20 09:53	11/13/20 09:50	
240-140187-16	GW-111120-BE-034	Water	11/11/20 09:19	11/13/20 09:50	
240-140187-17	GW-111120-BE-035	Water	11/11/20 10:28	11/13/20 09:50	
240-140187-18	GW-111120-BE-036	Water	11/11/20 12:25	11/13/20 09:50	
240-140187-19	GW-111120-BE-037	Water	11/11/20 14:57	11/13/20 09:50	
240-140187-20	TB-111220-BE-003	Water	11/12/20 09:00	11/13/20 09:50	
240-140187-21	GW-111220-BE-038	Water	11/12/20 09:50	11/13/20 09:50	
240-140187-22	GW-111220-BE-039	Water	11/12/20 10:38	11/13/20 09:50	
240-140187-23	GW-111220-BE-040	Water	11/12/20 11:36	11/13/20 09:50	
240-140187-24	GW-111220-BE-041	Water	11/12/20 13:08	11/13/20 09:50	
240-140187-25	GW-111220-BE-042	Water	11/12/20 13:15	11/13/20 09:50	
240-140187-26	GW-111220-BE-043	Water	11/12/20 14:02	11/13/20 09:50	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 293913

Lab Sample ID: STD1 310-293913/24 IC Client Sample ID:

Date Analyzed: 10/02/20 00:09 Lab File ID: c5282.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/02/20 07:52
Chloromethane	1.52	Split Peak	nelsonsa	10/02/20 07:52
Vinyl chloride	1.56	Split Peak	nelsonsa	10/02/20 07:51
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:51
Bromomethane	1.83	Split Peak	nelsonsa	10/02/20 07:51
Chloroethane	1.91	Split Peak	nelsonsa	10/02/20 07:51
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/02/20 07:51
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:51

Lab Sample ID: STD2 310-293913/25 IC Client Sample ID:

Date Analyzed: 10/02/20 00:33 Lab File ID: c5283.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.28	Split Peak	nelsonsa	10/02/20 07:52
Vinyl chloride	1.53	Split Peak	nelsonsa	10/02/20 07:53
Chloromethane	1.54	Split Peak	nelsonsa	10/02/20 07:53
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:53
Bromomethane	1.81	Split Peak	nelsonsa	10/02/20 07:55
Chloroethane	1.92	Split Peak	nelsonsa	10/02/20 07:55
Dichlorofluoromethane	2.11	Split Peak	nelsonsa	10/02/20 07:55
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:55
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/02/20 07:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 293913

Lab Sample ID: STD3 310-293913/26 IC Client Sample ID:

Date Analyzed: 10/02/20 00:57 Lab File ID: c5284.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.28	Split Peak	nelsonsa	10/02/20 07:56
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 07:56
Vinyl chloride	1.54	Split Peak	nelsonsa	10/02/20 07:56
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:56
Bromomethane	1.81	Split Peak	nelsonsa	10/02/20 07:56
Chloroethane	1.92	Split Peak	nelsonsa	10/02/20 07:56
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/02/20 07:56
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:55

Lab Sample ID: STD4 310-293913/27 IC Client Sample ID:

Date Analyzed: 10/02/20 01:21 Lab File ID: c5285.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.28	Split Peak	nelsonsa	10/02/20 07:57
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 07:57
Vinyl chloride	1.53	Split Peak	nelsonsa	10/02/20 07:57
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:57
Bromomethane	1.82	Split Peak	nelsonsa	10/02/20 07:57
Chloroethane	1.92	Split Peak	nelsonsa	10/02/20 07:57
Dichlorofluoromethane	2.11	Split Peak	nelsonsa	10/02/20 07:57
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:57

Lab Sample ID: STD5 310-293913/28 IC Client Sample ID:

Date Analyzed: 10/02/20 01:45 Lab File ID: c5286.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.86	Split Peak	nelsonsa	10/02/20 08:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 293913

Lab Sample ID: STD6 310-293913/29 IC Client Sample ID:

Date Analyzed: 10/02/20 02:09 Lab File ID: c5287.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 07:58
Bromomethane	1.86	Split Peak	nelsonsa	10/02/20 07:59
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:59

Lab Sample ID: STD7 310-293913/30 IC Client Sample ID:

Date Analyzed: 10/02/20 02:33 Lab File ID: c5288.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 08:01
Bromomethane	1.87	Split Peak	nelsonsa	10/02/20 08:00
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 08:00

Lab Sample ID: STD8 310-293913/31 IC Client Sample ID:

Date Analyzed: 10/02/20 02:57 Lab File ID: c5289.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.86	Split Peak	nelsonsa	10/02/20 07:54

Lab Sample ID: STD9 310-293913/32 IC Client Sample ID:

Date Analyzed: 10/02/20 03:21 Lab File ID: c5290.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.85	Split Peak	nelsonsa	10/02/20 08:04
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/02/20 08:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD1 310-295162/3 IC Client Sample ID:

Date Analyzed: 10/13/20 08:16 Lab File ID: c5865.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.39	Wrong peak	nelsonsa	10/13/20 16:03
Acrolein	2.56	Wrong peak	nelsonsa	10/13/20 16:03
1,1-Dichloroethene	2.66	Wrong peak	nelsonsa	10/13/20 16:03
Acetone	2.71	Wrong peak	nelsonsa	10/13/20 16:03
Carbon disulfide	2.83	Wrong peak	nelsonsa	10/13/20 16:04
Isopropyl alcohol	2.88	Wrong peak	nelsonsa	10/13/20 16:04
Acetonitrile	2.97	Wrong peak	nelsonsa	10/13/20 16:04
Allyl chloride	3.01	Wrong peak	nelsonsa	10/13/20 16:04
Methyl acetate	3.04	Wrong peak	nelsonsa	10/13/20 16:04
tert-Butanol	3.26	Wrong peak	nelsonsa	10/13/20 16:04
Acrylonitrile	3.34	Wrong peak	nelsonsa	10/13/20 16:05
1,1-Dichloroethane	3.76	Wrong peak	nelsonsa	10/13/20 16:05
Vinyl acetate	3.84	Wrong peak	nelsonsa	10/13/20 16:05
2,2-Dichloropropane	4.32	Wrong peak	nelsonsa	10/13/20 16:05
cis-1,2-Dichloroethene	4.33	Wrong peak	nelsonsa	10/13/20 16:05
2-Butanone (MEK)	4.35	Wrong peak	nelsonsa	10/13/20 16:06
Propionitrile	4.39	Wrong peak	nelsonsa	10/13/20 16:06
Ethyl acetate	4.42	Wrong peak	nelsonsa	10/13/20 16:06
Isobutyl alcohol	5.11	Wrong peak	nelsonsa	10/13/20 16:07
1,2-Dichloroethane	5.17	Wrong peak	nelsonsa	10/13/20 16:07
n-Butanol	5.26	Wrong peak	nelsonsa	10/13/20 16:07
Heptane	5.45	Wrong peak	nelsonsa	10/13/20 16:07
Ethyl acrylate	5.92	Wrong peak	nelsonsa	10/13/20 16:07
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/13/20 16:02
Dibromomethane	6.12	Wrong peak	nelsonsa	10/13/20 16:07
2-Nitropropane	6.53	Wrong peak	nelsonsa	10/13/20 16:08
2-Chloroethyl vinyl ether	6.62	Wrong peak	nelsonsa	10/13/20 16:08
4-Methyl-2-pentanone (MIBK)	6.93	Wrong peak	nelsonsa	10/13/20 16:08
trans-1,3-Dichloropropene	7.34	Wrong peak	nelsonsa	10/13/20 16:08
Ethyl methacrylate	7.46	Wrong peak	nelsonsa	10/13/20 16:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD1 310-295162/3 IC Client Sample ID:

Date Analyzed: 10/13/20 08:16 Lab File ID: c5865.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	7.68	Wrong peak	nelsonsa	10/13/20 16:08
2-Hexanone	7.82	Wrong peak	nelsonsa	10/13/20 16:08
Chlorodibromomethane	7.93	Wrong peak	nelsonsa	10/13/20 16:09
n-Butyl acetate	7.98	Wrong peak	nelsonsa	10/13/20 16:09
1,2-Dibromoethane (EDB)	8.05	Wrong peak	nelsonsa	10/13/20 16:09
Chlorobenzene	8.60	Wrong peak	nelsonsa	10/13/20 16:09
Ethylbenzene	8.75	Wrong peak	nelsonsa	10/13/20 16:09
m,p-Xylene	8.88	Wrong peak	nelsonsa	10/13/20 16:09
Bromoform	9.53	Wrong peak	nelsonsa	10/13/20 16:10
1,1,2,2-Tetrachloroethane	10.09	Wrong peak	nelsonsa	10/13/20 16:10
1,2,3-Trichloropropane	10.15	Wrong peak	nelsonsa	10/13/20 16:10
2-Chlorotoluene	10.32	Wrong peak	nelsonsa	10/13/20 16:10
1,4-Dichlorobenzene	11.30	Wrong peak	nelsonsa	10/13/20 16:11
Hexachlorobutadiene	13.93	Wrong peak	nelsonsa	10/13/20 16:11
Naphthalene	13.97	Wrong peak	nelsonsa	10/13/20 16:11
1,2,3-Trichlorobenzene	14.27	Wrong peak	nelsonsa	10/13/20 16:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD2 310-295162/4 IC Client Sample ID:

Date Analyzed: 10/13/20 08:40 Lab File ID: c5866.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.36	Split Peak	nelsonsa	10/13/20 16:20
Acrolein	2.56	Split Peak	nelsonsa	10/13/20 16:19
1,1-Dichloroethene	2.65	Split Peak	nelsonsa	10/13/20 16:19
Acetone	2.71	Split Peak	nelsonsa	10/13/20 16:19
Carbon disulfide	2.83	Split Peak	nelsonsa	10/13/20 16:19
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 16:19
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 16:19
Allyl chloride	3.00	Split Peak	nelsonsa	10/13/20 16:19
Methyl acetate	3.04	Split Peak	nelsonsa	10/13/20 16:18
Methylene Chloride	3.11	Split Peak	nelsonsa	10/13/20 16:18
Acrylonitrile	3.34	Split Peak	nelsonsa	10/13/20 16:18
1,1-Dichloroethane	3.77	Split Peak	nelsonsa	10/13/20 16:18
cis-1,2-Dichloroethene	4.31	Split Peak	nelsonsa	10/13/20 16:18
Propionitrile	4.39	Split Peak	nelsonsa	10/13/20 16:18
Ethyl acetate	4.41	Split Peak	nelsonsa	10/13/20 16:17
Bromochloromethane	4.54	Split Peak	nelsonsa	10/13/20 16:17
Tetrahydrofuran	4.61	Split Peak	nelsonsa	10/13/20 16:17
n-Butanol	5.26	Split Peak	nelsonsa	10/13/20 16:17
1,2-Dichloropropane	6.01	Split Peak	nelsonsa	10/13/20 16:17
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	10/13/20 16:20
Dibromomethane	6.11	Split Peak	nelsonsa	10/13/20 16:16
2-Hexanone	7.82	Split Peak	nelsonsa	10/13/20 16:16
Chlorodibromomethane	7.94	Split Peak	nelsonsa	10/13/20 16:16
Chlorobenzene	8.61	Split Peak	nelsonsa	10/13/20 16:16
Ethylbenzene	8.74	Split Peak	nelsonsa	10/13/20 16:16
1,1,2,2-Tetrachloroethane	10.10	Split Peak	nelsonsa	10/13/20 16:15
1,2,3-Trichloropropane	10.14	Split Peak	nelsonsa	10/13/20 16:15
trans-1,4-Dichloro-2-butene	10.17	Peak assignment corrected	nelsonsa	10/13/20 16:15
2-Chlorotoluene	10.32	Peak assignment corrected	nelsonsa	10/13/20 16:15
1,4-Dichlorobenzene	11.30	Peak assignment corrected	nelsonsa	10/13/20 16:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD2 310-295162/4 IC Client Sample ID:

Date Analyzed: 10/13/20 08:40 Lab File ID: c5866.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzyl chloride	11.47	Peak assignment corrected	nelsonsa	10/13/20 16:14

Lab Sample ID: STD3 310-295162/5 IC Client Sample ID:

Date Analyzed: 10/13/20 09:05 Lab File ID: c5867.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.37	Split Peak	nelsonsa	10/13/20 16:22
Acrolein	2.56	Split Peak	nelsonsa	10/13/20 16:22
1,1-Dichloroethene	2.66	Split Peak	nelsonsa	10/13/20 16:22
Acetone	2.71	Split Peak	nelsonsa	10/13/20 16:23
Carbon disulfide	2.84	Split Peak	nelsonsa	10/13/20 16:23
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 16:23
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 16:23
Allyl chloride	3.00	Split Peak	nelsonsa	10/13/20 16:23
Methyl acetate	3.04	Split Peak	nelsonsa	10/13/20 16:24
Methylene Chloride	3.11	Split Peak	nelsonsa	10/13/20 16:24
1,1-Dichloroethane	3.78	Split Peak	nelsonsa	10/13/20 16:24
cis-1,2-Dichloroethene	4.32	Split Peak	nelsonsa	10/13/20 16:24
Propionitrile	4.40	Split Peak	nelsonsa	10/13/20 16:24
n-Butanol	5.27	Split Peak	nelsonsa	10/13/20 16:25
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/13/20 16:21
Chlorobenzene	8.61	Split Peak	nelsonsa	10/13/20 16:25
Ethylbenzene	8.74	Split Peak	nelsonsa	10/13/20 16:26
trans-1,4-Dichloro-2-butene	10.16	Split Peak	nelsonsa	10/13/20 16:26
1,4-Dichlorobenzene	11.30	Split Peak	nelsonsa	10/13/20 16:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD4 310-295162/6 IC Client Sample ID:

Date Analyzed: 10/13/20 09:29 Lab File ID: c5868.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.38	Peak assignment corrected	nelsonsa	10/13/20 17:53
Acrolein	2.56	Split Peak	nelsonsa	10/13/20 17:53
1,1-Dichloroethene	2.65	Split Peak	nelsonsa	10/13/20 17:53
Acetone	2.71	Split Peak	nelsonsa	10/13/20 17:53
Iodomethane	2.78	Split Peak	nelsonsa	10/13/20 17:53
Carbon disulfide	2.84	Split Peak	nelsonsa	10/13/20 17:53
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 17:53
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 17:53
Allyl chloride	3.01	Split Peak	nelsonsa	10/13/20 17:54
Methyl acetate	3.03	Split Peak	nelsonsa	10/13/20 17:54
tert-Butanol	3.26	Split Peak	nelsonsa	10/13/20 17:54
1,1-Dichloroethane	3.77	Split Peak	nelsonsa	10/13/20 17:54
Propionitrile	4.39	Split Peak	nelsonsa	10/13/20 17:54
Tetrahydrofuran	4.60	Split Peak	nelsonsa	10/13/20 17:54
n-Butanol	5.26	Split Peak	nelsonsa	10/13/20 17:54
1,3-Dichlorobenzene	11.20	Split Peak	nelsonsa	10/13/20 17:55
1,4-Dichlorobenzene	11.30	Split Peak	nelsonsa	10/13/20 17:55

Lab Sample ID: STD5 310-295162/7 IC Client Sample ID:

Date Analyzed: 10/13/20 09:53 Lab File ID: c5869.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.37	Split Peak	nelsonsa	10/13/20 16:43
Acetone	2.71	Split Peak	nelsonsa	10/13/20 16:43
Allyl chloride	3.01	Split Peak	nelsonsa	10/13/20 16:43
Methyl acetate	3.03	Split Peak	nelsonsa	10/13/20 16:42
1,1-Dichloroethane	3.78	Split Peak	nelsonsa	10/13/20 16:42
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 16:42
Ethylbenzene	8.74	Peak assignment corrected	nelsonsa	10/13/20 16:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD6 310-295162/8 IC Client Sample ID:

Date Analyzed: 10/13/20 10:17 Lab File ID: c5870.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.37	Peak assignment corrected	nelsonsa	10/13/20 16:47
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 16:48
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 16:48
n-Butanol	5.26	Split Peak	nelsonsa	10/13/20 16:48
Ethylbenzene	8.74	Split Peak	nelsonsa	10/13/20 16:48

Lab Sample ID: STD7 310-295162/9 IC Client Sample ID:

Date Analyzed: 10/13/20 10:42 Lab File ID: c5871.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 16:57
Ethylbenzene	8.74	Peak assignment corrected	nelsonsa	10/13/20 16:57
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 16:57

Lab Sample ID: ICIS 310-295162/10 Client Sample ID:

Date Analyzed: 10/13/20 11:06 Lab File ID: c5872.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:01
Ethylbenzene	8.74	Peak assignment corrected	nelsonsa	10/13/20 17:01
m-Xylene & p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD9 310-295162/11 IC Client Sample ID:

Date Analyzed: 10/13/20 11:30 Lab File ID: c5873.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:06
Ethylbenzene	8.75	Peak assignment corrected	nelsonsa	10/13/20 17:06
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:05

Lab Sample ID: STD10 310-295162/12 IC Client Sample ID:

Date Analyzed: 10/13/20 11:55 Lab File ID: c5874.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Peak assignment corrected	nelsonsa	10/13/20 17:07
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:07
Ethylbenzene	8.75	Peak assignment corrected	nelsonsa	10/13/20 17:07
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:07

Lab Sample ID: STD11 310-295162/13 IC Client Sample ID:

Date Analyzed: 10/13/20 12:19 Lab File ID: c5875.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:09
Ethylbenzene	8.75	Peak assignment corrected	nelsonsa	10/13/20 17:09
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD12 310-295162/14 IC Client Sample ID:

Date Analyzed: 10/13/20 12:43 Lab File ID: c5876.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Peak assignment corrected	nelsonsa	10/13/20 17:10
n-Butanol	5.27	Peak assignment corrected	nelsonsa	10/13/20 17:10
Ethylbenzene	8.76	Peak assignment corrected	nelsonsa	10/13/20 17:10
m,p-Xylene	8.89	Peak assignment corrected	nelsonsa	10/13/20 17:10
1,4-Dichlorobenzene-d4	11.28	Peak assignment corrected	nelsonsa	10/13/20 17:10

Lab Sample ID: ICV 310-295162/18 Client Sample ID:

Date Analyzed: 10/13/20 14:20 Lab File ID: c5880.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 18:09
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 18:08

Lab Sample ID: STD1 310-295162/23 IC Client Sample ID:

Date Analyzed: 10/14/20 04:42 Lab File ID: c5903.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 07:54
Chloromethane	1.52	Split Peak	nelsonsa	10/14/20 07:54
Vinyl chloride	1.56	Split Peak	nelsonsa	10/14/20 07:53
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 07:53
Bromomethane	1.85	Split Peak	nelsonsa	10/14/20 07:53
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 07:53
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/14/20 07:53
Trichlorofluoromethane	2.18	Split Peak	nelsonsa	10/14/20 07:53
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	10/14/20 07:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD2 310-295162/24 IC Client Sample ID:

Date Analyzed: 10/14/20 05:06 Lab File ID: c5904.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 07:59
Chloromethane	1.53	Split Peak	nelsonsa	10/14/20 07:59
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 07:59
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:00
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 08:00
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/14/20 08:00
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:00
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/14/20 07:59

Lab Sample ID: STD3 310-295162/25 IC Client Sample ID:

Date Analyzed: 10/14/20 05:31 Lab File ID: c5905.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 08:08
Chloromethane	1.53	Split Peak	nelsonsa	10/14/20 08:08
Vinyl chloride	1.54	Split Peak	nelsonsa	10/14/20 08:08
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 08:08
Bromomethane	1.83	Split Peak	nelsonsa	10/14/20 08:07
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 08:07
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/14/20 08:07
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:07
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	10/14/20 08:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD4 310-295162/26 IC Client Sample ID:

Date Analyzed: 10/14/20 05:55 Lab File ID: c5906.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 08:10
Chloromethane	1.53	Split Peak	nelsonsa	10/14/20 08:10
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 08:10
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:10
Dichlorofluoromethane	2.11	Split Peak	nelsonsa	10/14/20 08:10
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:11
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/14/20 08:10

Lab Sample ID: STD5 310-295162/27 IC Client Sample ID:

Date Analyzed: 10/14/20 06:19 Lab File ID: c5907.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.83	Split Peak	nelsonsa	10/14/20 08:11
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 08:11
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:11
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	10/14/20 08:11

Lab Sample ID: STD6 310-295162/28 IC Client Sample ID:

Date Analyzed: 10/14/20 06:44 Lab File ID: c5908.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.51	Split Peak	nelsonsa	10/14/20 08:15
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:15
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	10/14/20 08:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD7 310-295162/29 IC Client Sample ID:

Date Analyzed: 10/14/20 07:41 Lab File ID: c5910.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.85	Split Peak	nelsonsa	10/14/20 08:16
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/14/20 08:16

Lab Sample ID: STD8 310-295162/30 IC Client Sample ID:

Date Analyzed: 10/14/20 08:05 Lab File ID: c5911.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:37
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/14/20 08:36

Lab Sample ID: STD9 310-295162/31 IC Client Sample ID:

Date Analyzed: 10/14/20 08:30 Lab File ID: c5912.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.82	Split Peak	nelsonsa	10/14/20 08:51
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	10/14/20 08:51

Lab Sample ID: STD10 310-295162/32 IC Client Sample ID:

Date Analyzed: 10/14/20 08:54 Lab File ID: c5913.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/14/20 09:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD11 310-295162/33 IC Client Sample ID:

Date Analyzed: 10/14/20 09:19 Lab File ID: c5914.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/15/20 01:13

Lab Sample ID: STD12 310-295162/34 IC Client Sample ID:

Date Analyzed: 10/14/20 09:44 Lab File ID: c5915.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/15/20 01:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: CCV 310-299509/5 Client Sample ID:

Date Analyzed: 11/18/20 05:07 Lab File ID: c8227.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.52	Split Peak	nelsonsa	11/18/20 11:28
Bromomethane	1.84	Split Peak	nelsonsa	11/18/20 05:28
Trichlorofluoromethane	2.18	Split Peak	nelsonsa	11/18/20 11:09

Lab Sample ID: LCS 310-299509/7 Client Sample ID:

Date Analyzed: 11/18/20 06:06 Lab File ID: c8229.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.84	Split Peak	nelsonsa	11/18/20 06:32

Lab Sample ID: CCV 310-299509/31 Client Sample ID:

Date Analyzed: 11/18/20 06:30 Lab File ID: c8230.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Split Peak	nelsonsa	11/18/20 06:50

Lab Sample ID: 240-140187-1 Client Sample ID: GW-110620-BE-019

Date Analyzed: 11/18/20 07:43 Lab File ID: c8233.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.67	Split Peak	nelsonsa	11/18/20 11:54
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 11:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: 240-140187-2 Client Sample ID:

Date Analyzed: 11/18/20 08:07 Lab File ID: c8234.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 11:59

Lab Sample ID: 240-140187-3 Client Sample ID:

Date Analyzed: 11/18/20 08:31 Lab File ID: c8235.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/18/20 11:59

Lab Sample ID: 240-140187-4 Client Sample ID:

Date Analyzed: 11/18/20 08:56 Lab File ID: c8236.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 12:10
Toluene	7.11	Peak assignment corrected	nelsonsa	11/18/20 12:09

Lab Sample ID: 240-140187-5 Client Sample ID: GW-110620-BE-023

Date Analyzed: 11/18/20 09:20 Lab File ID: c8237.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.54	Split Peak	nelsonsa	11/18/20 12:11
Acetone	2.72	Split Peak	nelsonsa	11/18/20 12:11
trans-1,2-Dichloroethene	3.39	Split Peak	nelsonsa	11/18/20 12:11
1,1-Dichloroethane	3.79	Split Peak	nelsonsa	11/18/20 12:11
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/18/20 12:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: 240-140187-6 Client Sample ID: GW-110620-BE-024

Date Analyzed: 11/18/20 09:44 Lab File ID: c8238.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene	3.39	Split Peak	nelsonsa	11/18/20 12:16
1,1-Dichloroethane	3.79	Split Peak	nelsonsa	11/18/20 12:16
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/18/20 12:17

Lab Sample ID: 240-140187-7 Client Sample ID: GW-110920-BE-025

Date Analyzed: 11/18/20 10:09 Lab File ID: c8239.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.66	Split Peak	nelsonsa	11/18/20 12:38
Acetone	2.71	Split Peak	nelsonsa	11/18/20 12:38
Carbon disulfide	2.84	Split Peak	nelsonsa	11/18/20 12:39
1,1-Dichloroethane	3.78	Split Peak	nelsonsa	11/18/20 12:39
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 12:36

Lab Sample ID: 240-140187-8 Client Sample ID: GW-110920-BE-026

Date Analyzed: 11/18/20 10:33 Lab File ID: c8240.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene	3.39	Split Peak	nelsonsa	11/18/20 12:47
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/18/20 12:48

Lab Sample ID: 240-140187-9 Client Sample ID: GW-110920-BE-027

Date Analyzed: 11/18/20 10:58 Lab File ID: c8241.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.84	Split Peak	nelsonsa	11/18/20 13:05
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/18/20 13:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: 240-140187-10 Client Sample ID: GW-110920-BE-028

Date Analyzed: 11/18/20 11:22 Lab File ID: c8242.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	2.72	Peak assignment corrected	nelsonsa	11/18/20 13:08
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 13:08

Lab Sample ID: 240-140187-11 Client Sample ID:

Date Analyzed: 11/18/20 11:47 Lab File ID: c8243.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 13:08
Chloromethane		Invalid Compound ID	nelsonsa	11/18/20 13:08

Lab Sample ID: 240-140187-12 Client Sample ID: GW-110920-BE-030

Date Analyzed: 11/18/20 12:12 Lab File ID: c8244.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.53	Split Peak	nelsonsa	11/18/20 13:11
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/18/20 13:11

Lab Sample ID: 240-140187-13 Client Sample ID: GW-110920-BE-031

Date Analyzed: 11/18/20 12:36 Lab File ID: c8245.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.83	Split Peak	nelsonsa	11/18/20 13:11
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/18/20 13:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: 240-140187-14 Client Sample ID: GW-111020-BE-032

Date Analyzed: 11/18/20 13:01 Lab File ID: c8246.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	2.71	Split Peak	nelsonsa	11/18/20 14:39
Carbon disulfide	2.83	Split Peak	nelsonsa	11/18/20 14:39
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/18/20 14:38

Lab Sample ID: 240-140187-15 Client Sample ID: GW-111020-BE-033

Date Analyzed: 11/18/20 13:26 Lab File ID: c8247.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.84	Wrong peak	nelsonsa	11/18/20 14:41
1,4-Dioxane-d8	6.11	Wrong peak	nelsonsa	11/18/20 14:41

Lab Sample ID: 240-140187-17 Client Sample ID: GW-111120-BE-035

Date Analyzed: 11/18/20 14:14 Lab File ID: c8249.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.85	Split Peak	nelsonsa	11/18/20 14:43
1,1-Dichloroethane	3.78	Peak assignment corrected	nelsonsa	11/18/20 14:43
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/18/20 14:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: 240-140187-18 Client Sample ID: GW-111120-BE-036

Date Analyzed: 11/18/20 14:39 Lab File ID: c8250.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.66	Split Peak	nelsonsa	11/19/20 06:46
Benzene	5.18	Split Peak	nelsonsa	11/19/20 06:46
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/19/20 06:46
Carbon tetrachloride		Invalid Compound ID	nelsonsa	11/19/20 06:46
Chloromethane		Invalid Compound ID	nelsonsa	11/19/20 06:46

Lab Sample ID: 240-140187-19 Client Sample ID: GW-111120-BE-037

Date Analyzed: 11/18/20 15:03 Lab File ID: c8251.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.54	Wrong peak	nelsonsa	11/19/20 06:48
Acetone	2.71	Wrong peak	nelsonsa	11/19/20 06:47
Carbon disulfide	2.84	Wrong peak	nelsonsa	11/19/20 06:47
trans-1,2-Dichloroethene	3.40	Wrong peak	nelsonsa	11/19/20 06:47
1,4-Dioxane-d8	6.11	Wrong peak	nelsonsa	11/19/20 06:48

Lab Sample ID: 240-140187-20 Client Sample ID:

Date Analyzed: 11/18/20 15:28 Lab File ID: c8252.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/19/20 06:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299509

Lab Sample ID: 240-140187-10 MS Client Sample ID: GW-110920-BE-028 MS

Date Analyzed: 11/18/20 15:52 Lab File ID: c8253.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	3.78	Split Peak	nelsonsa	11/19/20 06:49
2-Butanone (MEK)	4.36	Split Peak	nelsonsa	11/19/20 06:49
Chloromethane		Invalid Compound ID	nelsonsa	11/19/20 06:50

Lab Sample ID: 240-140187-10 MSD Client Sample ID: GW-110920-BE-028 MSD

Date Analyzed: 11/18/20 16:17 Lab File ID: c8254.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	4.35	Split Peak	nelsonsa	11/19/20 06:51
Chloromethane		Invalid Compound ID	nelsonsa	11/19/20 06:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299697

Lab Sample ID: CCV 310-299697/4 Client Sample ID:

Date Analyzed: 11/18/20 17:55 Lab File ID: c8258.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	2.89	Split Peak	nelsonsa	11/19/20 10:29

Lab Sample ID: CCV 310-299697/5 Client Sample ID:

Date Analyzed: 11/18/20 18:20 Lab File ID: c8259.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.53	Split Peak	nelsonsa	11/19/20 10:30
1,3-Butadiene	1.57	Split Peak	nelsonsa	11/19/20 10:30
Bromomethane	1.83	Split Peak	nelsonsa	11/19/20 10:30
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	11/19/20 10:30

Lab Sample ID: LCS 310-299697/7 Client Sample ID:

Date Analyzed: 11/18/20 19:09 Lab File ID: c8261.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.51	Split Peak	nelsonsa	11/19/20 10:32
Bromomethane	1.82	Split Peak	nelsonsa	11/19/20 10:32

Lab Sample ID: MB 310-299697/8 Client Sample ID:

Date Analyzed: 11/18/20 19:34 Lab File ID: c8262.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.83	Split Peak	nelsonsa	11/19/20 10:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299697

Lab Sample ID: 240-140187-21 Client Sample ID: GW-111220-BE-038

Date Analyzed: 11/18/20 19:59 Lab File ID: c8263.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.83	Wrong peak	nelsonsa	11/19/20 10:35
Methylene Chloride	3.12	Wrong peak	nelsonsa	11/19/20 10:35
trans-1,2-Dichloroethene	3.39	Wrong peak	nelsonsa	11/19/20 10:35
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/19/20 10:34
2-Butanone (MEK)		Invalid Compound ID	nelsonsa	11/19/20 10:35

Lab Sample ID: 240-140187-22 Client Sample ID: GW-111220-BE-039

Date Analyzed: 11/18/20 20:23 Lab File ID: c8264.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	2.71	Split Peak	nelsonsa	11/19/20 10:39
Chloroform	4.65	Split Peak	nelsonsa	11/19/20 10:38
Dibromofluoromethane (Surr)	4.79	Split Peak	nelsonsa	11/19/20 10:39
1,4-Dioxane-d8	6.12	Split Peak	nelsonsa	11/19/20 10:39
1,2-Dichloropropane		Invalid Compound ID	nelsonsa	11/19/20 10:37
Carbon tetrachloride		Invalid Compound ID	nelsonsa	11/19/20 10:38
Dichlorobromomethane		Invalid Compound ID	nelsonsa	11/19/20 10:37
Styrene		Invalid Compound ID	nelsonsa	11/19/20 10:37
1,1,2,2-Tetrachloroethane	10.12	Peak assignment corrected	nelsonsa	11/19/20 10:36

Lab Sample ID: 240-140187-23 Client Sample ID: GW-111220-BE-040

Date Analyzed: 11/18/20 20:48 Lab File ID: c8265.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.67	Split Peak	nelsonsa	11/19/20 10:40
trans-1,2-Dichloroethene	3.39	Split Peak	nelsonsa	11/19/20 10:40
Benzene	5.18	Split Peak	nelsonsa	11/19/20 10:42
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/19/20 10:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299697

Lab Sample ID: 240-140187-24 Client Sample ID: GW-111220-BE-041

Date Analyzed: 11/18/20 21:12 Lab File ID: c8266.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	2.73	Split Peak	nelsonsa	11/19/20 10:45
Carbon disulfide	2.84	Split Peak	nelsonsa	11/19/20 10:45
1,4-Dioxane-d8	6.12	Split Peak	nelsonsa	11/19/20 10:46
o-Xylene	9.33	Peak assignment corrected	nelsonsa	11/19/20 10:44

Lab Sample ID: 240-140187-25 Client Sample ID: GW-111220-BE-042

Date Analyzed: 11/18/20 21:37 Lab File ID: c8267.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.85	Split Peak	nelsonsa	11/19/20 10:46
1,2-Dichloroethane	5.18	Split Peak	nelsonsa	11/19/20 10:47
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/19/20 10:46
o-Xylene	9.32	Split Peak	nelsonsa	11/19/20 10:47

Lab Sample ID: 240-140187-26 Client Sample ID: GW-111220-BE-043

Date Analyzed: 11/18/20 22:01 Lab File ID: c8268.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	8.76	Peak assignment corrected	nelsonsa	11/19/20 10:48
m-Xylene & p-Xylene	8.89	Peak assignment corrected	nelsonsa	11/19/20 10:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299701

Lab Sample ID: CCV 310-299701/4 Client Sample ID:

Date Analyzed: 11/19/20 05:24 Lab File ID: c8289.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	2.89	Split Peak	nelsonsa	11/19/20 05:51
Acetonitrile	2.96	Split Peak	nelsonsa	11/19/20 05:51

Lab Sample ID: MB 310-299701/8 Client Sample ID:

Date Analyzed: 11/19/20 07:03 Lab File ID: c8293.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.84	Split Peak	nelsonsa	11/20/20 11:24
cis-1,2-Dichloroethene	4.34	Split Peak	nelsonsa	11/20/20 11:24

Lab Sample ID: 240-140187-20 Client Sample ID: TB-111220-BE-003

Date Analyzed: 11/19/20 07:27 Lab File ID: c8294.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	4.34	Split Peak	nelsonsa	11/20/20 11:26
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:26

Lab Sample ID: 240-140187-4 Client Sample ID:

Date Analyzed: 11/19/20 07:52 Lab File ID: c8295.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/20/20 11:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299701

Lab Sample ID: 240-140187-5 Client Sample ID:

Date Analyzed: 11/19/20 08:17 Lab File ID: c8296.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:28

Lab Sample ID: 240-140187-9 Client Sample ID:

Date Analyzed: 11/19/20 08:41 Lab File ID: c8297.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:30

Lab Sample ID: 240-140187-12 Client Sample ID: GW-110920-BE-030

Date Analyzed: 11/19/20 09:06 Lab File ID: c8298.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	4.33	Split Peak	nelsonsa	11/20/20 11:32
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/20/20 11:31

Lab Sample ID: 240-140187-13 Client Sample ID: GW-110920-BE-031

Date Analyzed: 11/19/20 09:30 Lab File ID: c8299.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	4.33	Split Peak	nelsonsa	11/20/20 11:33
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/20/20 11:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299701

Lab Sample ID: 240-140187-14 Client Sample ID: GW-111020-BE-032

Date Analyzed: 11/19/20 09:55 Lab File ID: c8300.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	4.34	Split Peak	nelsonsa	11/20/20 11:35
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:34

Lab Sample ID: 240-140187-16 Client Sample ID:

Date Analyzed: 11/19/20 10:19 Lab File ID: c8301.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.12	Wrong peak	nelsonsa	11/20/20 11:37

Lab Sample ID: 240-140187-17 Client Sample ID:

Date Analyzed: 11/19/20 10:44 Lab File ID: c8302.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:37

Lab Sample ID: 240-140187-19 Client Sample ID:

Date Analyzed: 11/19/20 11:09 Lab File ID: c8303.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/20/20 11:43

Lab Sample ID: 240-140187-2 Client Sample ID:

Date Analyzed: 11/19/20 11:33 Lab File ID: c8304.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/20/20 11:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299701

Lab Sample ID: 240-140187-3 Client Sample ID:

Date Analyzed: 11/19/20 11:58 Lab File ID: c8305.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:47

Lab Sample ID: 240-140187-1 Client Sample ID:

Date Analyzed: 11/19/20 12:46 Lab File ID: c8307.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/20/20 11:59

Lab Sample ID: 240-140187-7 Client Sample ID:

Date Analyzed: 11/19/20 13:11 Lab File ID: c8308.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 11:59

Lab Sample ID: 240-140187-8 Client Sample ID:

Date Analyzed: 11/19/20 14:00 Lab File ID: c8310.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 12:03

Lab Sample ID: 240-140187-10 Client Sample ID:

Date Analyzed: 11/19/20 14:25 Lab File ID: c8311.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.12	Split Peak	nelsonsa	11/20/20 12:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299701

Lab Sample ID: 240-140187-11 Client Sample ID:

Date Analyzed: 11/19/20 14:49 Lab File ID: c8312.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	11/20/20 12:07

Lab Sample ID: 240-140187-15 Client Sample ID:

Date Analyzed: 11/19/20 15:14 Lab File ID: c8313.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	11/20/20 12:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299826

Lab Sample ID: CCV 310-299826/4 Client Sample ID:

Date Analyzed: 11/19/20 17:42 Lab File ID: c8319.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.78	Split Peak	nelsonsa	11/20/20 06:57
Isopropyl alcohol	2.89	Split Peak	nelsonsa	11/20/20 06:57
Acetonitrile	2.96	Split Peak	nelsonsa	11/20/20 06:57
n-Butanol	5.48	Peak assignment corrected	nelsonsa	11/20/20 06:57

Lab Sample ID: CCV 310-299826/5 Client Sample ID:

Date Analyzed: 11/19/20 18:06 Lab File ID: c8320.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.53	Split Peak	nelsonsa	11/20/20 06:58
Bromomethane	1.84	Split Peak	nelsonsa	11/20/20 03:00
Trichlorofluoromethane	2.18	Split Peak	nelsonsa	11/20/20 06:58

Lab Sample ID: LCS 310-299826/6 Client Sample ID:

Date Analyzed: 11/19/20 18:31 Lab File ID: c8321.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	2.71	Split Peak	nelsonsa	11/20/20 06:59

Lab Sample ID: LCS 310-299826/7 Client Sample ID:

Date Analyzed: 11/19/20 18:55 Lab File ID: c8322.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.83	Split Peak	nelsonsa	11/20/20 07:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 299826

Lab Sample ID: MB 310-299826/8 Client Sample ID:

Date Analyzed: 11/19/20 19:20 Lab File ID: c8323.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	4.79	Split Peak	nelsonsa	11/20/20 07:01

Lab Sample ID: 240-140187-16 Client Sample ID:

Date Analyzed: 11/20/20 03:45 Lab File ID: c8326.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	11/20/20 07:03

Lab Sample ID: 240-140187-18 Client Sample ID:

Date Analyzed: 11/20/20 04:09 Lab File ID: c8327.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	11/20/20 07:04

Lab Sample ID: 240-140187-18 MS Client Sample ID: GW-111120-BE-036 MS

Date Analyzed: 11/20/20 04:34 Lab File ID: c8328.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.65	Split Peak	nelsonsa	11/20/20 07:06
Chloromethane		Invalid Compound ID	nelsonsa	11/20/20 07:06

Lab Sample ID: 240-140187-18 MSD Client Sample ID: GW-111120-BE-036 MSD

Date Analyzed: 11/20/20 04:58 Lab File ID: c8329.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	nelsonsa	11/20/20 07:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD1 310-298538/4 IC Client Sample ID:

Date Analyzed: 11/09/20 03:30 Lab File ID: H3726.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.16	Split Peak	nelsonsa	11/09/20 05:29
Diethyl ether	2.20	Split Peak	nelsonsa	11/09/20 05:29
Acrolein	2.33	Split Peak	nelsonsa	11/09/20 05:29
1,1,2-Trichlorotrifluoroethane	2.41	Split Peak	nelsonsa	11/09/20 05:29
Iodomethane	2.53	Split Peak	nelsonsa	11/09/20 05:29
Carbon disulfide	2.58	Split Peak	nelsonsa	11/09/20 05:29
Isopropyl alcohol	2.66	Split Peak	nelsonsa	11/09/20 05:30
Acetonitrile	2.74	Split Peak	nelsonsa	11/09/20 05:31
Allyl chloride	2.75	Split Peak	nelsonsa	11/09/20 05:31
Methyl acetate	2.80	Split Peak	nelsonsa	11/09/20 05:31
Methylene chloride	2.87	Split Peak	nelsonsa	11/09/20 05:31
Acrylonitrile	3.11	Split Peak	nelsonsa	11/09/20 05:31
trans-1,2-Dichloroethene	3.11	Split Peak	nelsonsa	11/09/20 05:31
Hexane	3.39	Split Peak	nelsonsa	11/09/20 05:31
1,1-Dichloroethane	3.52	Split Peak	nelsonsa	11/09/20 05:32
Chloroprene	3.61	Split Peak	nelsonsa	11/09/20 05:32
Di-isopropyl ether (DIPE)	3.64	Split Peak	nelsonsa	11/09/20 05:32
2-Butanone (MEK)	4.12	Split Peak	nelsonsa	11/09/20 05:32
Propionitrile	4.18	Split Peak	nelsonsa	11/09/20 05:32
Ethyl acetate	4.20	Split Peak	nelsonsa	11/09/20 05:32
Bromochloromethane	4.30	Split Peak	nelsonsa	11/09/20 05:32
Methacrylonitrile	4.31	Split Peak	nelsonsa	11/09/20 05:32
Tetrahydrofuran	4.37	Split Peak	nelsonsa	11/09/20 05:32
Chloroform	4.40	Split Peak	nelsonsa	11/09/20 05:33
Carbon tetrachloride	4.70	Split Peak	nelsonsa	11/09/20 05:33
Benzene	4.90	Split Peak	nelsonsa	11/09/20 05:33
Isobutyl alcohol	4.92	Split Peak	nelsonsa	11/09/20 05:33
1,2-Dichloroethane	4.94	Split Peak	nelsonsa	11/09/20 05:34
n-Butanol	5.00	Split Peak	nelsonsa	11/09/20 05:34
Fluorobenzene	5.19	Split Peak	nelsonsa	11/09/20 05:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD1 310-298538/4 IC Client Sample ID:

Date Analyzed: 11/09/20 03:30 Lab File ID: H3726.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Heptane	5.20	Split Peak	nelsonsa	11/09/20 05:34
Trichloroethene	5.54	Split Peak	nelsonsa	11/09/20 05:34
Ethyl acrylate	5.70	Split Peak	nelsonsa	11/09/20 05:46
1,2-Dichloropropane	5.77	Split Peak	nelsonsa	11/09/20 05:34
Dibromomethane	5.88	Split Peak	nelsonsa	11/09/20 05:35
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 05:28
Methyl methacrylate	5.94	Split Peak	nelsonsa	11/09/20 05:35
1,4-Dioxane	5.95	Split Peak	nelsonsa	11/09/20 05:35
Dichlorobromomethane	6.06	Split Peak	nelsonsa	11/09/20 05:35
2-Chloroethyl vinyl ether	6.39	Split Peak	nelsonsa	11/09/20 05:35
cis-1,3-Dichloropropene	6.52	Split Peak	nelsonsa	11/09/20 05:35
4-Methyl-2-pentanone (MIBK)	6.71	Split Peak	nelsonsa	11/09/20 05:35
Toluene	6.86	Split Peak	nelsonsa	11/09/20 05:35
trans-1,3-Dichloropropene	7.10	Split Peak	nelsonsa	11/09/20 05:35
Ethyl methacrylate	7.24	Split Peak	nelsonsa	11/09/20 05:35
1,1,2-Trichloroethane	7.30	Split Peak	nelsonsa	11/09/20 05:35
Tetrachloroethene	7.43	Split Peak	nelsonsa	11/09/20 05:36
1,3-Dichloropropane	7.47	Split Peak	nelsonsa	11/09/20 05:36
2-Hexanone	7.59	Split Peak	nelsonsa	11/09/20 05:36
Chlorodibromomethane	7.70	Split Peak	nelsonsa	11/09/20 05:36
n-Butyl acetate	7.75	Split Peak	nelsonsa	11/09/20 05:36
1,2-Dibromoethane (EDB)	7.83	Split Peak	nelsonsa	11/09/20 05:36
Ethylbenzene	8.50	Split Peak	nelsonsa	11/09/20 05:36
Bromoform	9.29	Split Peak	nelsonsa	11/09/20 05:36
1,1,2,2-Tetrachloroethane	9.87	Split Peak	nelsonsa	11/09/20 05:36
trans-1,4-Dichloro-2-butene	9.94	Split Peak	nelsonsa	11/09/20 05:36
2-Chlorotoluene	10.08	Wrong peak	nelsonsa	11/10/20 02:48
4-Chlorotoluene	10.21	Wrong peak	nelsonsa	11/10/20 02:48
1,4-Dichlorobenzene	11.06	Split Peak	nelsonsa	11/09/20 05:37
Hexachlorobutadiene	13.67	Split Peak	nelsonsa	11/09/20 05:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD2 310-298538/5 IC Client Sample ID:

Date Analyzed: 11/09/20 03:52 Lab File ID: H3727.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.16	Split Peak	nelsonsa	11/09/20 05:41
Diethyl ether	2.22	Split Peak	nelsonsa	11/09/20 05:41
Acrolein	2.34	Split Peak	nelsonsa	11/09/20 05:41
Carbon disulfide	2.59	Split Peak	nelsonsa	11/09/20 05:41
Isopropyl alcohol	2.67	Split Peak	nelsonsa	11/09/20 05:40
Allyl chloride	2.77	Split Peak	nelsonsa	11/09/20 05:40
Methylene chloride	2.87	Split Peak	nelsonsa	11/09/20 05:40
Acrylonitrile	3.12	Split Peak	nelsonsa	11/09/20 05:40
trans-1,2-Dichloroethene	3.14	Split Peak	nelsonsa	11/09/20 05:40
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/09/20 05:40
Methacrylonitrile	4.32	Split Peak	nelsonsa	11/09/20 05:39
Tetrahydrofuran	4.38	Split Peak	nelsonsa	11/09/20 05:39
Chloroform	4.40	Split Peak	nelsonsa	11/09/20 05:39
Cyclohexane	4.60	Split Peak	nelsonsa	11/09/20 05:39
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/09/20 05:39
Benzene	4.92	Split Peak	nelsonsa	11/09/20 05:39
n-Butanol	5.00	Split Peak	nelsonsa	11/09/20 05:39
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 05:41
Trichloroethene	5.56	Split Peak	nelsonsa	11/09/20 05:39
Ethyl acrylate	5.70	Split Peak	nelsonsa	11/09/20 05:39
1,2-Dichloropropane	5.78	Split Peak	nelsonsa	11/09/20 05:39
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 05:41
2-Chloroethyl vinyl ether	6.39	Split Peak	nelsonsa	11/09/20 05:38
4-Methyl-2-pentanone (MIBK)	6.71	Split Peak	nelsonsa	11/09/20 05:38
Toluene	6.87	Split Peak	nelsonsa	11/09/20 05:38
Chlorodibromomethane	7.70	Split Peak	nelsonsa	11/09/20 05:38
Chlorobenzene	8.37	Split Peak	nelsonsa	11/09/20 05:38
2-Chlorotoluene	10.08	Peak assignment corrected	nelsonsa	11/10/20 02:49
4-Chlorotoluene	10.21	Peak assignment corrected	nelsonsa	11/10/20 02:49
1,4-Dichlorobenzene	11.06	Peak assignment corrected	nelsonsa	11/09/20 05:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD3 310-298538/6 IC Client Sample ID:

Date Analyzed: 11/09/20 04:14 Lab File ID: H3728.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.16	Split Peak	nelsonsa	11/09/20 05:43
Diethyl ether	2.22	Split Peak	nelsonsa	11/09/20 05:43
Acrolein	2.33	Split Peak	nelsonsa	11/09/20 05:43
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 05:43
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 05:43
Acetone	2.49	Split Peak	nelsonsa	11/09/20 05:43
Carbon disulfide	2.59	Split Peak	nelsonsa	11/09/20 05:43
Isopropyl alcohol	2.67	Split Peak	nelsonsa	11/09/20 05:43
Acetonitrile	2.74	Split Peak	nelsonsa	11/09/20 05:43
Allyl chloride	2.76	Split Peak	nelsonsa	11/09/20 05:44
trans-1,2-Dichloroethene	3.13	Split Peak	nelsonsa	11/09/20 05:44
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/09/20 05:44
Chloroprene	3.61	Split Peak	nelsonsa	11/09/20 05:44
Di-isopropyl ether (DIPE)	3.64	Split Peak	nelsonsa	11/09/20 05:44
cis-1,2-Dichloroethene	4.08	Split Peak	nelsonsa	11/09/20 05:44
Ethyl acetate	4.20	Split Peak	nelsonsa	11/09/20 05:44
Chloroform	4.40	Split Peak	nelsonsa	11/09/20 05:45
Cyclohexane	4.59	Split Peak	nelsonsa	11/09/20 05:45
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/09/20 05:45
Benzene	4.92	Split Peak	nelsonsa	11/09/20 05:45
n-Butanol	5.00	Split Peak	nelsonsa	11/09/20 05:45
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 05:42
Heptane	5.21	Split Peak	nelsonsa	11/09/20 05:45
Trichloroethene	5.56	Split Peak	nelsonsa	11/09/20 05:45
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/09/20 05:45
1,2-Dichloropropane	5.78	Split Peak	nelsonsa	11/09/20 05:46
Dibromomethane	5.88	Split Peak	nelsonsa	11/09/20 05:46
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 05:42
1,4-Dioxane	5.94	Split Peak	nelsonsa	11/09/20 05:47
Methyl methacrylate	5.94	Split Peak	nelsonsa	11/09/20 05:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD3 310-298538/6 IC Client Sample ID:

Date Analyzed: 11/09/20 04:14 Lab File ID: H3728.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloroethyl vinyl ether	6.39	Split Peak	nelsonsa	11/09/20 05:47
4-Methyl-2-pentanone (MIBK)	6.70	Split Peak	nelsonsa	11/09/20 05:47
Toluene	6.86	Split Peak	nelsonsa	11/09/20 05:47
1,1,2-Trichloroethane	7.30	Split Peak	nelsonsa	11/09/20 05:47
2-Chlorotoluene	10.08	Split Peak	nelsonsa	11/09/20 05:48
4-Chlorotoluene	10.21	Split Peak	nelsonsa	11/09/20 05:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD4 310-298538/7 IC Client Sample ID:

Date Analyzed: 11/09/20 04:36 Lab File ID: H3729.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.17	Split Peak	nelsonsa	11/09/20 05:51
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 05:51
1,1,2-Trichlorotrifluoroethane	2.42	Split Peak	nelsonsa	11/09/20 05:51
Acetone	2.49	Split Peak	nelsonsa	11/09/20 05:51
Iodomethane	2.54	Split Peak	nelsonsa	11/09/20 05:51
Carbon disulfide	2.59	Split Peak	nelsonsa	11/09/20 05:51
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/09/20 05:50
Chloroprene	3.61	Split Peak	nelsonsa	11/09/20 05:50
cis-1,2-Dichloroethene	4.08	Split Peak	nelsonsa	11/09/20 05:50
Chloroform	4.40	Split Peak	nelsonsa	11/09/20 05:50
Cyclohexane	4.61	Split Peak	nelsonsa	11/09/20 05:50
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/09/20 05:50
Benzene	4.91	Split Peak	nelsonsa	11/09/20 05:50
1,2-Dichloroethane	4.94	Split Peak	nelsonsa	11/09/20 05:49
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 05:49
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 05:52
Heptane	5.20	Split Peak	nelsonsa	11/09/20 05:49
Trichloroethene	5.55	Split Peak	nelsonsa	11/09/20 05:49
Ethyl acrylate	5.70	Split Peak	nelsonsa	11/09/20 05:49
1,2-Dichloropropane	5.78	Split Peak	nelsonsa	11/09/20 05:49
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 05:52
1,4-Dioxane	5.95	Split Peak	nelsonsa	11/09/20 05:49
Tetrachloroethene	7.44	Split Peak	nelsonsa	11/09/20 05:49
2-Chlorotoluene	10.08	Peak assignment corrected	nelsonsa	11/09/20 06:08
4-Chlorotoluene	10.21	Peak assignment corrected	nelsonsa	11/09/20 06:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD5 310-298538/8 IC Client Sample ID:

Date Analyzed: 11/09/20 04:59 Lab File ID: H3730.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diethyl ether	2.23	Split Peak	nelsonsa	11/09/20 07:57
Acrolein	2.34	Split Peak	nelsonsa	11/09/20 07:57
1,1-Dichloroethene	2.42	Split Peak	nelsonsa	11/09/20 07:57
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 07:58
Iodomethane	2.54	Split Peak	nelsonsa	11/09/20 07:58
Isopropyl alcohol	2.67	Split Peak	nelsonsa	11/09/20 07:58
TBA-d9 (IS)	2.98	Split Peak	nelsonsa	11/09/20 07:57
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/09/20 07:58
Chloroprene	3.62	Split Peak	nelsonsa	11/09/20 07:58
Di-isopropyl ether (DIPE)	3.64	Split Peak	nelsonsa	11/09/20 07:58
Chloroform	4.40	Split Peak	nelsonsa	11/09/20 07:58
Cyclohexane	4.61	Split Peak	nelsonsa	11/09/20 07:58
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/09/20 07:59
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 07:59
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 07:57
Heptane	5.21	Split Peak	nelsonsa	11/09/20 07:59
Trichloroethene	5.56	Split Peak	nelsonsa	11/09/20 07:59
Ethyl acrylate	5.70	Split Peak	nelsonsa	11/09/20 07:59
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 07:57
1,4-Dioxane	5.94	Split Peak	nelsonsa	11/09/20 07:59
2-Chloroethyl vinyl ether	6.39	Split Peak	nelsonsa	11/09/20 07:59
2-Chlorotoluene	10.08	Split Peak	nelsonsa	11/09/20 08:00
4-Chlorotoluene	10.21	Split Peak	nelsonsa	11/09/20 08:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD6 310-298538/9 IC Client Sample ID:

Date Analyzed: 11/09/20 05:21 Lab File ID: H3731.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diethyl ether	2.23	Split Peak	nelsonsa	11/09/20 06:00
Acrolein	2.34	Split Peak	nelsonsa	11/09/20 06:00
1,1-Dichloroethene	2.42	Split Peak	nelsonsa	11/09/20 06:00
1,1,2-Trichlorotrifluoroethane	2.44	Split Peak	nelsonsa	11/09/20 06:00
Isopropyl alcohol	2.67	Split Peak	nelsonsa	11/09/20 06:00
Methyl acetate	2.81	Split Peak	nelsonsa	11/09/20 06:00
trans-1,2-Dichloroethene	3.14	Split Peak	nelsonsa	11/09/20 06:00
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/09/20 05:59
Chloroprene	3.62	Split Peak	nelsonsa	11/09/20 05:59
tert-Butyl ethyl ether	3.98	Split Peak	nelsonsa	11/09/20 05:59
cis-1,2-Dichloroethene	4.09	Split Peak	nelsonsa	11/09/20 05:59
Cyclohexane	4.61	Split Peak	nelsonsa	11/09/20 05:59
Benzene	4.92	Split Peak	nelsonsa	11/09/20 05:59
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 05:59
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 06:00
Trichloroethene	5.56	Split Peak	nelsonsa	11/09/20 05:59
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/09/20 05:58
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 06:00
1,4-Dioxane	5.94	Split Peak	nelsonsa	11/09/20 05:58
2-Chlorotoluene	10.08	Peak assignment corrected	nelsonsa	11/10/20 02:50
4-Chlorotoluene	10.21	Peak assignment corrected	nelsonsa	11/10/20 02:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD7 310-298538/10 IC Client Sample ID:

Date Analyzed: 11/09/20 05:43 Lab File ID: H3732.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 06:04
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 06:04
Methyl tert-butyl ether	3.16	Split Peak	nelsonsa	11/09/20 06:04
Hexane	3.41	Split Peak	nelsonsa	11/09/20 06:05
Chloroprene	3.62	Split Peak	nelsonsa	11/09/20 06:05
tert-Butyl ethyl ether	3.98	Split Peak	nelsonsa	11/09/20 06:05
cis-1,2-Dichloroethene	4.09	Split Peak	nelsonsa	11/09/20 06:05
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/09/20 06:06
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 06:06
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 06:04
Trichloroethene	5.56	Split Peak	nelsonsa	11/09/20 06:07
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/09/20 06:07
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 06:04
2-Chlorotoluene	10.08	Split Peak	nelsonsa	11/09/20 06:07
4-Chlorotoluene	10.21	Split Peak	nelsonsa	11/09/20 06:07

Lab Sample ID: ICIS 310-298538/11 Client Sample ID:

Date Analyzed: 11/09/20 06:05 Lab File ID: H3733.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 08:03
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 08:03
TBA-d9 (IS)	2.98	Split Peak	nelsonsa	11/09/20 08:03
tert-Butyl ethyl ether	3.98	Split Peak	nelsonsa	11/09/20 08:02
1,1,1-Trichloroethane	4.56	Split Peak	nelsonsa	11/09/20 08:02
Cyclohexane	4.61	Split Peak	nelsonsa	11/09/20 08:02
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 08:03
Ethyl acrylate	5.71	Peak assignment corrected	nelsonsa	11/09/20 08:02
Methylcyclohexane	5.74	Peak assignment corrected	nelsonsa	11/09/20 08:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD9 310-298538/12 IC Client Sample ID:

Date Analyzed: 11/09/20 06:28 Lab File ID: H3734.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 08:04
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 08:04
TBA-d9 (IS)	2.98	Split Peak	nelsonsa	11/09/20 08:04
Hexane	3.41	Split Peak	nelsonsa	11/10/20 04:07
Chloroprene	3.62	Split Peak	nelsonsa	11/09/20 08:04
Di-isopropyl ether (DIPE)	3.64	Split Peak	nelsonsa	11/09/20 08:04
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 08:05
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 08:04
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/09/20 08:05
Methylcyclohexane	5.74	Split Peak	nelsonsa	11/09/20 08:05
o-Xylene	9.09	Split Peak	nelsonsa	11/09/20 08:05

Lab Sample ID: STD10 310-298538/13 IC Client Sample ID:

Date Analyzed: 11/09/20 06:50 Lab File ID: H3735.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diethyl ether	2.23	Split Peak	nelsonsa	11/09/20 08:07
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 08:07
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 08:07
Methyl tert-butyl ether	3.16	Split Peak	nelsonsa	11/09/20 08:07
Cyclohexane	4.61	Split Peak	nelsonsa	11/09/20 08:07
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 08:06
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 08:07
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/09/20 08:06
Methylcyclohexane	5.74	Split Peak	nelsonsa	11/09/20 08:06
1,4-Dioxane	5.94	Split Peak	nelsonsa	11/09/20 08:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD11 310-298538/14 IC Client Sample ID:

Date Analyzed: 11/09/20 07:12 Lab File ID: H3736.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 08:08
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 08:08
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 08:08
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/09/20 08:09
Methylcyclohexane	5.74	Split Peak	nelsonsa	11/09/20 08:09

Lab Sample ID: STD12 310-298538/15 IC Client Sample ID:

Date Analyzed: 11/09/20 07:34 Lab File ID: H3737.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/09/20 08:11
1,1,2-Trichlorotrifluoroethane	2.43	Split Peak	nelsonsa	11/09/20 08:11
Di-isopropyl ether (DIPE)	3.65	Split Peak	nelsonsa	11/09/20 08:11
n-Butanol	5.01	Split Peak	nelsonsa	11/09/20 08:10
Fluorobenzene	5.20	Split Peak	nelsonsa	11/09/20 08:12
Ethyl acrylate	5.72	Split Peak	nelsonsa	11/09/20 08:10
Methylcyclohexane	5.74	Split Peak	nelsonsa	11/09/20 08:10
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/09/20 08:11
1,4-Dichlorobenzene-d4	11.04	Split Peak	nelsonsa	11/09/20 08:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: ICV 310-298538/19 Client Sample ID:

Date Analyzed: 11/09/20 09:04 Lab File ID: H3741.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diethyl ether	2.22	Split Peak	nelsonsa	11/10/20 02:32
Acrolein	2.33	Split Peak	nelsonsa	11/10/20 02:32
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/10/20 02:32
1,1,2-Trichlorotrifluoroethane	2.42	Split Peak	nelsonsa	11/10/20 02:32
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/10/20 02:33
Chloroprene	3.61	Split Peak	nelsonsa	11/10/20 02:33
Di-isopropyl ether (DIPE)	3.64	Split Peak	nelsonsa	11/10/20 02:33
tert-Butyl ethyl ether	3.98	Split Peak	nelsonsa	11/10/20 02:33
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 04:05
Trichloroethene	5.56	Split Peak	nelsonsa	11/10/20 02:34
Ethyl acrylate	5.72	Split Peak	nelsonsa	11/10/20 02:34
1,4-Dioxane	5.95	Split Peak	nelsonsa	11/10/20 02:34
2-Nitropropane	6.31	Split Peak	nelsonsa	11/10/20 02:36
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 04:05

Lab Sample ID: ICV 310-298538/20 Client Sample ID:

Date Analyzed: 11/09/20 09:26 Lab File ID: H3742.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	3.61	Split Peak	nelsonsa	11/10/20 02:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD1 310-298538/24 IC Client Sample ID:

Date Analyzed: 11/09/20 10:55 Lab File ID: H3746.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.13	Split Peak	nelsonsa	11/10/20 03:07
Chloromethane	1.27	Split Peak	nelsonsa	11/10/20 03:07
Vinyl chloride	1.35	Split Peak	nelsonsa	11/10/20 03:07
1,3-Butadiene	1.39	Split Peak	nelsonsa	11/10/20 03:08
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:08
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:08
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:07
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:07

Lab Sample ID: STD2 310-298538/25 IC Client Sample ID:

Date Analyzed: 11/09/20 11:17 Lab File ID: H3747.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.12	Split Peak	nelsonsa	11/10/20 03:08
Chloromethane	1.26	Split Peak	nelsonsa	11/10/20 03:08
Vinyl chloride	1.35	Split Peak	nelsonsa	11/10/20 03:08
1,3-Butadiene	1.38	Split Peak	nelsonsa	11/10/20 03:08
Bromomethane	1.61	Split Peak	nelsonsa	11/10/20 03:08
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:08
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:08
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:08
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:09
Fluorobenzene	5.19	Split Peak	nelsonsa	11/10/20 03:09
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:09
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD3 310-298538/26 IC Client Sample ID:

Date Analyzed: 11/09/20 11:39 Lab File ID: H3748.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.13	Split Peak	nelsonsa	11/10/20 03:09
Vinyl chloride	1.35	Split Peak	nelsonsa	11/10/20 03:09
1,3-Butadiene	1.39	Split Peak	nelsonsa	11/10/20 03:09
Bromomethane	1.62	Split Peak	nelsonsa	11/10/20 03:09
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:10
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:10
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:10
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:09
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:09
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:09
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:09

Lab Sample ID: STD4 310-298538/27 IC Client Sample ID:

Date Analyzed: 11/09/20 12:02 Lab File ID: H3749.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.13	Split Peak	nelsonsa	11/10/20 03:10
Vinyl chloride	1.35	Split Peak	nelsonsa	11/10/20 03:10
1,3-Butadiene	1.38	Split Peak	nelsonsa	11/10/20 03:10
Bromomethane	1.62	Split Peak	nelsonsa	11/10/20 03:10
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:10
Dichlorofluoromethane	1.90	Split Peak	nelsonsa	11/10/20 03:10
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:10
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:11
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:10
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD5 310-298538/28 IC Client Sample ID:

Date Analyzed: 11/09/20 12:24 Lab File ID: H3750.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.13	Split Peak	nelsonsa	11/10/20 03:11
Vinyl chloride	1.35	Split Peak	nelsonsa	11/10/20 03:11
1,3-Butadiene	1.39	Split Peak	nelsonsa	11/10/20 03:11
Bromomethane	1.62	Split Peak	nelsonsa	11/10/20 03:11
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:11
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:12
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:12
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:11
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:11
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:11
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:11

Lab Sample ID: STD6 310-298538/29 IC Client Sample ID:

Date Analyzed: 11/09/20 12:46 Lab File ID: H3751.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	1.39	Split Peak	nelsonsa	11/10/20 03:12
Bromomethane	1.62	Split Peak	nelsonsa	11/10/20 03:12
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:12
Dichlorofluoromethane	1.90	Split Peak	nelsonsa	11/10/20 03:12
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:12
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:12
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:12
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD7 310-298538/30 IC Client Sample ID:

Date Analyzed: 11/09/20 13:08 Lab File ID: H3752.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	1.38	Split Peak	nelsonsa	11/10/20 03:13
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:13
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:13
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:13
Fluorobenzene	5.19	Split Peak	nelsonsa	11/10/20 03:13
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:13
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:13

Lab Sample ID: STD8 310-298538/31 IC Client Sample ID:

Date Analyzed: 11/09/20 13:31 Lab File ID: H3753.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	1.39	Split Peak	nelsonsa	11/10/20 03:14
Bromomethane	1.62	Split Peak	nelsonsa	11/10/20 03:14
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:14
Dichlorofluoromethane	1.90	Split Peak	nelsonsa	11/10/20 03:13
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:13
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:14
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:14
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:14
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD9 310-298538/32 IC Client Sample ID:

Date Analyzed: 11/09/20 13:53 Lab File ID: H3754.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	1.70	Split Peak	nelsonsa	11/10/20 03:15
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:15
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:15
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:14
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:14
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:14
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:14

Lab Sample ID: STD10 310-298538/33 IC Client Sample ID:

Date Analyzed: 11/09/20 14:16 Lab File ID: H3755.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	1.38	Split Peak	nelsonsa	11/10/20 03:15
Bromomethane	1.61	Split Peak	nelsonsa	11/10/20 03:15
Chloroethane	1.70	Split Peak	nelsonsa	11/10/20 03:15
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:15
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:15
Fluorobenzene	5.19	Split Peak	nelsonsa	11/10/20 03:15
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: STD11 310-298538/34 IC Client Sample ID:

Date Analyzed: 11/09/20 14:38 Lab File ID: H3756.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.61	Split Peak	nelsonsa	11/10/20 03:16
Chloroethane	1.70	Split Peak	nelsonsa	11/10/20 03:16
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/10/20 03:16
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:16
Dibromofluoromethane (Surr)	4.56	Split Peak	nelsonsa	11/10/20 03:16
Fluorobenzene	5.20	Split Peak	nelsonsa	11/10/20 03:16
1,4-Dioxane-d8	5.90	Split Peak	nelsonsa	11/10/20 03:16
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:16
Chlorobenzene-d5	8.34	Split Peak	nelsonsa	11/10/20 03:16

Lab Sample ID: STD12 310-298538/35 IC Client Sample ID:

Date Analyzed: 11/09/20 15:00 Lab File ID: H3757.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.61	Split Peak	nelsonsa	11/10/20 03:17
Chloroethane	1.70	Split Peak	nelsonsa	11/10/20 03:17
Dichlorofluoromethane	1.90	Split Peak	nelsonsa	11/10/20 03:17
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:17
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 03:17
Fluorobenzene	5.19	Split Peak	nelsonsa	11/10/20 03:17
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/10/20 03:17
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 03:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: ICV 310-298538/39 Client Sample ID:

Date Analyzed: 11/09/20 16:29 Lab File ID: H3761.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	1.71	Split Peak	nelsonsa	11/10/20 03:20
Dichlorofluoromethane	1.90	Split Peak	nelsonsa	11/10/20 03:19
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 03:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: ICV 310-298538/42 Client Sample ID:

Date Analyzed: 11/10/20 03:51 Lab File ID: H3765.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diethyl ether	2.22	Split Peak	nelsonsa	11/10/20 06:46
Acrolein	2.33	Split Peak	nelsonsa	11/10/20 06:46
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/10/20 06:46
1,1,2-Trichlorotrifluoroethane	2.42	Split Peak	nelsonsa	11/10/20 06:46
Acetone	2.48	Split Peak	nelsonsa	11/10/20 06:47
Iodomethane	2.53	Split Peak	nelsonsa	11/10/20 06:47
Isopropyl alcohol	2.66	Split Peak	nelsonsa	11/10/20 06:47
Methyl acetate	2.80	Split Peak	nelsonsa	11/10/20 06:48
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/10/20 06:48
Chloroprene	3.61	Split Peak	nelsonsa	11/10/20 06:48
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 06:46
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/10/20 06:48
Benzene	4.91	Split Peak	nelsonsa	11/10/20 06:48
n-Butanol	5.00	Split Peak	nelsonsa	11/10/20 06:49
Heptane	5.20	Split Peak	nelsonsa	11/10/20 06:49
Trichloroethene	5.55	Split Peak	nelsonsa	11/10/20 06:49
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/10/20 06:49
Dibromomethane	5.89	Split Peak	nelsonsa	11/10/20 06:49
Methyl methacrylate	5.93	Split Peak	nelsonsa	11/10/20 06:49
1,4-Dioxane	5.94	Split Peak	nelsonsa	11/10/20 06:50
2-Chloroethyl vinyl ether	6.39	Split Peak	nelsonsa	11/10/20 06:50
4-Methyl-2-pentanone (MIBK)	6.71	Split Peak	nelsonsa	11/10/20 06:50
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 06:46
Toluene	6.86	Split Peak	nelsonsa	11/10/20 06:50
Ethyl methacrylate	7.24	Split Peak	nelsonsa	11/10/20 06:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 298538

Lab Sample ID: ICV 310-298538/43 Client Sample ID:

Date Analyzed: 11/10/20 04:13 Lab File ID: H3766.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	3.61	Split Peak	nelsonsa	11/10/20 06:53
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 06:52
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 06:52

Lab Sample ID: ICV 310-298538/44 Client Sample ID:

Date Analyzed: 11/10/20 04:35 Lab File ID: H3767.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	1.90	Split Peak	nelsonsa	11/10/20 06:55
Trichlorofluoromethane	1.94	Split Peak	nelsonsa	11/10/20 06:55
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/10/20 06:54
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/10/20 06:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 299687

Lab Sample ID: CCV 310-299687/3 Client Sample ID:

Date Analyzed: 11/19/20 01:43 Lab File ID: H4275.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diethyl ether	2.22	Split Peak	nelsonsa	11/19/20 02:30
Acrolein	2.33	Split Peak	nelsonsa	11/19/20 11:16
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/19/20 02:30
1,1,2-Trichlorotrifluoroethane	2.42	Split Peak	nelsonsa	11/19/20 02:30
Acetone	2.49	Split Peak	nelsonsa	11/19/20 11:16
Iodomethane	2.53	Split Peak	nelsonsa	11/19/20 11:16
Carbon disulfide	2.58	Split Peak	nelsonsa	11/19/20 02:31
trans-1,2-Dichloroethene	3.13	Split Peak	nelsonsa	11/19/20 02:31
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/19/20 02:31
Chloroprene	3.62	Split Peak	nelsonsa	11/19/20 02:32
Vinyl acetate	3.62	Split Peak	nelsonsa	11/19/20 02:32
Di-isopropyl ether (DIPE)	3.64	Split Peak	nelsonsa	11/19/20 02:32
Bromochloromethane	4.31	Split Peak	nelsonsa	11/19/20 02:32
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/19/20 11:15
Cyclohexane	4.60	Split Peak	nelsonsa	11/19/20 02:32
1,1-Dichloropropene	4.72	Split Peak	nelsonsa	11/19/20 02:32
Benzene	4.92	Split Peak	nelsonsa	11/19/20 02:33
n-Butanol	5.01	Split Peak	nelsonsa	11/19/20 02:33
tert-Amyl methyl ether	5.06	Split Peak	nelsonsa	11/19/20 02:33
Heptane	5.20	Split Peak	nelsonsa	11/19/20 02:33
Ethyl acrylate	5.71	Split Peak	nelsonsa	11/19/20 02:33
Methylcyclohexane	5.73	Split Peak	nelsonsa	11/19/20 02:33
1,2-Dichloropropane	5.78	Split Peak	nelsonsa	11/19/20 02:33
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/19/20 11:16
Toluene	6.86	Split Peak	nelsonsa	11/19/20 02:34
o-Xylene	9.09	Split Peak	nelsonsa	11/19/20 02:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 299687

Lab Sample ID: CCV 310-299687/4 Client Sample ID:

Date Analyzed: 11/19/20 02:06 Lab File ID: H4276.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.12	Split Peak	nelsonsa	11/19/20 11:18
Vinyl chloride	1.34	Split Peak	nelsonsa	11/19/20 11:18
1,3-Butadiene	1.38	Split Peak	nelsonsa	11/19/20 02:35
Bromomethane	1.61	Split Peak	nelsonsa	11/19/20 11:18
Chloroethane	1.70	Split Peak	nelsonsa	11/19/20 02:35
Dichlorofluoromethane	1.89	Split Peak	nelsonsa	11/19/20 11:17
Trichlorofluoromethane	1.93	Split Peak	nelsonsa	11/19/20 02:35
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/19/20 11:18
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/19/20 11:18

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 299687

Lab Sample ID: LCS 310-299687/5 Client Sample ID:

Date Analyzed: 11/19/20 02:28 Lab File ID: H4277.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.41	Split Peak	nelsonsa	11/19/20 11:19
Acetone	2.50	Split Peak	nelsonsa	11/19/20 11:20
trans-1,2-Dichloroethene	3.13	Split Peak	nelsonsa	11/19/20 11:21
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/19/20 11:21
cis-1,2-Dichloroethene	4.08	Split Peak	nelsonsa	11/19/20 11:21
Chloroform	4.40	Split Peak	nelsonsa	11/19/20 11:22
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/19/20 11:19
Benzene	4.91	Split Peak	nelsonsa	11/19/20 11:23
1,2-Dichloroethane	4.94	Split Peak	nelsonsa	11/19/20 11:23
Trichloroethene	5.55	Split Peak	nelsonsa	11/19/20 11:23
1,2-Dichloropropane	5.78	Split Peak	nelsonsa	11/19/20 11:24
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/19/20 11:19
Toluene	6.86	Split Peak	nelsonsa	11/19/20 11:25
1,1,2-Trichloroethane	7.30	Split Peak	nelsonsa	11/19/20 11:25
Tetrachloroethene	7.43	Split Peak	nelsonsa	11/19/20 11:25
o-Xylene	9.09	Split Peak	nelsonsa	11/19/20 11:25

Lab Sample ID: LCS 310-299687/6 Client Sample ID:

Date Analyzed: 11/19/20 02:51 Lab File ID: H4278.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.35	Split Peak	nelsonsa	11/19/20 11:27
Bromomethane	1.62	Split Peak	nelsonsa	11/19/20 11:26
Chloroethane	1.71	Split Peak	nelsonsa	11/19/20 11:26
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/19/20 11:27
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/19/20 11:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 299687

Lab Sample ID: MB 310-299687/7 Client Sample ID:

Date Analyzed: 11/19/20 03:13 Lab File ID: H4279.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/19/20 11:28
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/19/20 11:28

Lab Sample ID: 240-140187-23 Client Sample ID: GW-111220-BE-040

Date Analyzed: 11/19/20 08:26 Lab File ID: H4293.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.35	Split Peak	nelsonsa	11/20/20 06:35
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/20/20 06:35
cis-1,2-Dichloroethene	4.09	Split Peak	nelsonsa	11/20/20 06:35
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/20/20 06:34
Fluorobenzene	5.19	Split Peak	nelsonsa	11/20/20 06:34
Trichloroethene	5.55	Split Peak	nelsonsa	11/20/20 06:35
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/20/20 06:34
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/20/20 06:34
Toluene	6.87	Split Peak	nelsonsa	11/20/20 06:35
Ethylbenzene	8.51	Split Peak	nelsonsa	11/20/20 06:36
m-Xylene & p-Xylene	8.65	Split Peak	nelsonsa	11/20/20 06:36
o-Xylene	9.09	Split Peak	nelsonsa	11/20/20 06:36

Lab Sample ID: 240-140187-21 Client Sample ID: GW-111220-BE-038

Date Analyzed: 11/19/20 09:10 Lab File ID: H4295.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.35	Split Peak	nelsonsa	11/20/20 06:38
Fluorobenzene	5.19	Split Peak	nelsonsa	11/20/20 06:38
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/20/20 06:38
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/20/20 06:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 299687

Lab Sample ID: 240-140187-22 Client Sample ID: GW-111220-BE-039

Date Analyzed: 11/19/20 09:33 Lab File ID: H4296.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	3.53	Split Peak	nelsonsa	11/20/20 06:41
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/20/20 06:42
Fluorobenzene	5.20	Split Peak	nelsonsa	11/20/20 06:42
Trichloroethene	5.54	Split Peak	nelsonsa	11/20/20 06:41
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/20/20 06:42
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/20/20 06:42

Lab Sample ID: 240-140187-24 Client Sample ID: GW-111220-BE-041

Date Analyzed: 11/19/20 09:55 Lab File ID: H4297.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.35	Split Peak	nelsonsa	11/20/20 06:43
cis-1,2-Dichloroethene	4.09	Split Peak	nelsonsa	11/20/20 06:43
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/20/20 06:42
Fluorobenzene	5.19	Split Peak	nelsonsa	11/20/20 06:42
Trichloroethene	5.56	Split Peak	nelsonsa	11/20/20 06:43
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/20/20 06:42
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/20/20 06:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Analysis Batch Number: 299687

Lab Sample ID: 240-140187-25 Client Sample ID: GW-111220-BE-042

Date Analyzed: 11/19/20 10:17 Lab File ID: H4298.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.35	Split Peak	nelsonsa	11/20/20 06:46
Dibromofluoromethane (Surr)	4.55	Split Peak	nelsonsa	11/20/20 06:46
Fluorobenzene	5.19	Split Peak	nelsonsa	11/20/20 06:46
Trichloroethene	5.56	Split Peak	nelsonsa	11/20/20 06:45
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/20/20 06:46
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/20/20 06:46

Lab Sample ID: 240-140187-26 Client Sample ID: GW-111220-BE-043

Date Analyzed: 11/19/20 10:40 Lab File ID: H4299.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.35	Split Peak	nelsonsa	11/20/20 06:47
Fluorobenzene	5.19	Split Peak	nelsonsa	11/20/20 06:46
Trichloroethene	5.55	Split Peak	nelsonsa	11/20/20 06:47
1,4-Dioxane-d8	5.89	Split Peak	nelsonsa	11/20/20 06:46
Toluene-d8 (Surr)	6.79	Split Peak	nelsonsa	11/20/20 06:47

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VV_I_GASES_00407	10/04/20	09/28/20	Methanol, Lot 230446	10 mL	VV_M_GASES_00693	1 mL	Bromomethane	250 ug/mL
							Butadiene	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00693	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_GASES_00409	10/18/20	10/12/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00730	1 mL	Bromomethane	250 ug/mL
							Butadiene	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00730	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_GASES_00413	11/15/20	11/09/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00733	1 mL	Bromomethane	250 ug/mL
							Butadiene	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00733	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2500 ug/mL
VV_I_GASES_00414	11/22/20	11/16/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00735	1 mL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00735	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_ICVGAS_00275	10/15/20	10/08/20	Methanol, Lot 230446	10 mL	VV_M_GASES_00739	1 mL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00739	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_ICVGAS_00277	11/10/20	11/03/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00743	1 mL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00743	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_ICVGAS_00278	11/17/20	11/10/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00749	1 mL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00749	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_ICVSOL_00052	11/01/20	05/01/20	Methanol, Lot 198123	10 mL	VV_M_KETONES_00235	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00246	1 mL	1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							Benzene	250 ug/mL
							Bromoform	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methylene Chloride	250 ug/mL
							o-Xylene	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
.VV_M_KETONES_00235	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00246	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VV_I_ICVSOL_00053	03/31/21	11/03/20	Methanol, Lot 258810	10 mL	VV_M_KETONES_00236	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00279	1 mL	1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							Benzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methylene Chloride	250 ug/mL
							o-Xylene	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
.VV_M_KETONES_00236	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00279	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VV_I_MOSOL_00217	01/31/21	10/08/20	Methanol, Lot 230446	10 mL	VV_M_2CEVE_00260	1 mL	2-Chloroethyl vinyl ether	250 ug/mL
					VV_M_Acrolein_00251	0.6 mL	Acrolein	1189.8 ug/mL
					VV_M_ETOH_00074	1 mL	Ethanol	10000 ug/mL
					VV_M_KETONES_00263	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00278	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorobromomethane	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromomethane	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Ethylene Dibromide	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
					VV_M_POLADD_00222	1 mL	Acetonitrile	2500 ug/mL
							Isopropyl ether	250 ug/mL
							Propionitrile	2500 ug/mL
							Tert-amyl methyl ether	250 ug/mL
							Tert-butyl ethyl ether	250 ug/mL
					VV_M_STD6_00158	1 mL	1,2,3-Trimethylbenzene	250 ug/mL
							1,3,5-Trichlorobenzene	250 ug/mL
							2-Chloro-1,3-butadiene	250 ug/mL
							2-Nitropropane	500 ug/mL
							Benzyl chloride	250 ug/mL
							Isopropyl alcohol	2500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	6250 ug/mL
					VV_M_STD7_00145	1 mL	Ethyl acetate	500 ug/mL
							Ethyl acrylate	250 ug/mL
							Methyl methacrylate	500 ug/mL
							n-Butyl acetate	250 ug/mL
					VV_M_VINYLACE_00312	1 mL	Vinyl acetate	500 ug/mL
.VV_M_2CEVE_00260	03/31/23		Restek, Lot A0158872		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VV_M_Acrolein_00251	07/31/21		Restek, Lot A0156859		(Purchased Reagent)		Acrolein	19830 ug/mL
.VV_M_ETOH_00074	12/31/22		Restek, Lot A0156082		(Purchased Reagent)		Ethanol	100000 ug/mL
.VV_M_KETONES_00263	12/31/22		Restek, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00278	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VV_M_POLADD_00222	01/31/21		Restek, Lot A0144915		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VV_M_STD6_00158	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VV_M_STD7_00145	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VV_M_VINYLACE_00312	10/31/21		Restek, Lot A0160321		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VV_I_MOSOL_00217	01/31/21	10/08/20	Methanol, Lot 230446	10 mL	VV_M_Megamix_00278	1 mL	Xylenes, Total	500 ug/mL
.VV_M_Megamix_00278	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VV_I_MOSOL_00219	05/02/21	11/02/20	Methanol, Lot 230446	10 mL	VV_M_2CEVE_00263	1 mL	2-Chloroethyl vinyl ether	250 ug/mL
					VV_M_Acrolein_00254	0.6 mL	Acrolein	1191 ug/mL
					VV_M_ETOH_00077	1 mL	Ethanol	10000 ug/mL
					VV_M_KETONES_00266	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00284	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorobromomethane	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromomethane	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Ethylene Dibromide	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
					VV_M_POLADD_00232	1 mL	Acetonitrile	2500 ug/mL
							Isopropyl ether	250 ug/mL
							Propionitrile	2500 ug/mL
							Tert-amyl methyl ether	250 ug/mL
							Tert-butyl ethyl ether	250 ug/mL
					VV_M_STD6_00160	1 mL	1,2,3-Trimethylbenzene	250 ug/mL
							1,3,5-Trichlorobenzene	250 ug/mL
							2-Chloro-1,3-butadiene	250 ug/mL
							2-Nitropropane	500 ug/mL
							Benzyl chloride	250 ug/mL
							Isopropyl alcohol	2500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	6250 ug/mL
					VV_M_STD7_00152	1 mL	Ethyl acetate	500 ug/mL
							Ethyl acrylate	250 ug/mL
							Methyl methacrylate	500 ug/mL
							n-Butyl acetate	250 ug/mL
					VV_M_VINYLACE_00310	1 mL	Vinyl acetate	500 ug/mL
.VV_M_2CEVE_00263	03/31/23		Restek, Lot A0158872		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VV_M_Acrolein_00254	12/31/21		Restek, Lot A0161364		(Purchased Reagent)		Acrolein	19850 ug/mL
.VV_M_ETOH_00077	12/31/22		Restek, Lot A0156082		(Purchased Reagent)		Ethanol	100000 ug/mL
.VV_M_KETONES_00266	12/31/22		Restek, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00284	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VV_M_POLADD_00232	03/31/22		Restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VV_M_STD6_00160	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VV_M_STD7_00152	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VV_M_VINYLACE_00310	10/31/21		Restek, Lot A0160321		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VV_I_MOSOL_00219	05/02/21	11/02/20	Methanol, Lot 230446	10 mL	VV_M_Megamix_00284	1 mL	Xylenes, Total	500 ug/mL
.VV_M_Megamix_00284	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VV_I_MOSOL_00220	05/16/21	11/16/20	Methanol, Lot 230446	10 mL	VV_M_KETONES_00267	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00285	1 mL	1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							Benzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dichlorobromomethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methylene Chloride	250 ug/mL
							o-Xylene	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
.VV_M_KETONES_00267	12/31/22		Restek, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00285	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VV_M_ISSTD_00250	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							TBA-d9 (IS)	5000 ug/mL
VV_M_ISSTD_00331							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							BFB	
							Chlorobenzene-d5	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Fluorobenzene	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	250 ug/mL
							Xylenes, Total	

Reagent

VV_M_2CEVE_00260

SJN 8/4/20

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0158872

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether **CAS #** 110-75-8 **Purity** 99% (Lot MKBS6526V)	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 53.5360 µg/mL +/- 55.0924 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

2838588
ID: VV_M_2CEVE_00261
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838587
ID: VV_M_2CEVE_00260
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838586
ID: VV_M_2CEVE_00259
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838585
ID: VV_M_2CEVE_00258
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838584
ID: VV_M_2CEVE_00257
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

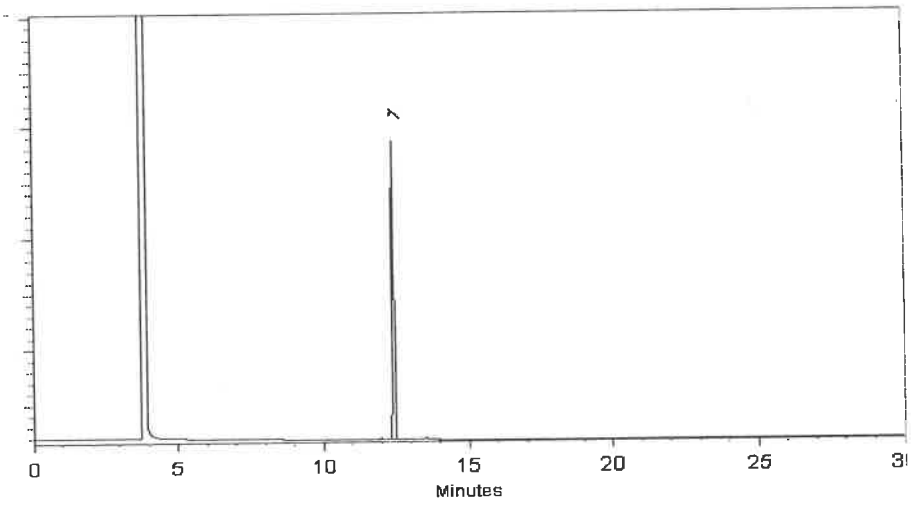
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

Date Mixed: 16-Mar-2020 **Balance:** B707717271

Tyler Brown - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_2CEVE_00263

SJN 8/22/22

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0158872

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether **CAS #** 110-75-8 **Purity** 99% (Lot MKBS6526V)	2,500.5 µg/mL	+/- 14.5381 +/- 53.5360 +/- 55.0924	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

2859954
ID: VV_M_2CEVE_00266
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2859953
ID: VV_M_2CEVE_00265
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2859952
ID: VV_M_2CEVE_00264
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2859951
ID: VV_M_2CEVE_00263
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2859950
ID: VV_M_2CEVE_00262
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

umn:
n x 0.53mm x 3.0µm
502.2 (cat.#10910)

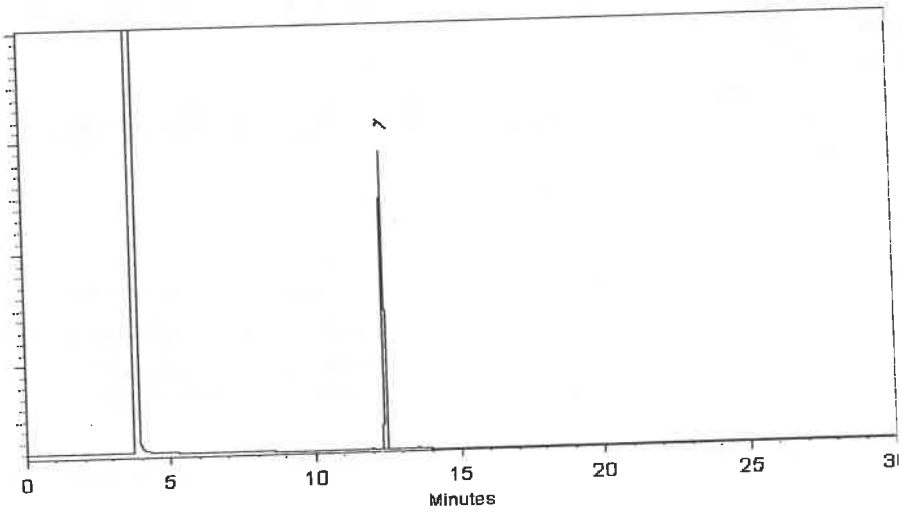
rrier Gas:
ogen-constant pressure 11.0 psi.

np. Program:
C (hold 2 min.) to 240°C
°C/min. (hold 5 min.)

. Temp:
)°C

t. Temp:
)°C

et. Type:
)



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

Date Mixed: 16-Mar-2020 **Balance:** B707717271

Tyler Brown - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_Acrolein_00254

SJN 10/11/21

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Certificate #3222.01

ilac-MRA

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0161364

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,850.0 µg/mL	+/- 116.2261	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot D0012019-0422)		+/- 396.5499	µg/mL	Unstressed
	Purity 99%			+/- 889.6495	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

2919648
ID: VV_M_Acrolein_00256
Exp: 12/31/21 Prpd: SJN
Acrolein for Mother Solut

2919647
ID: VV_M_Acrolein_00255
Exp: 12/31/21 Prpd: SJN
Acrolein for Mother Solut

2919646
ID: VV_M_Acrolein_00254
Exp: 12/31/21 Prpd: SJN
Acrolein for Mother Solut

2919645
ID: VV_M_Acrolein_00253
Exp: 12/31/21 Prpd: SJN
Acrolein for Mother Solut

2919644
ID: VV_M_Acrolein_00252
Exp: 12/31/21 Prpd: SJN
Acrolein for Mother Solut

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

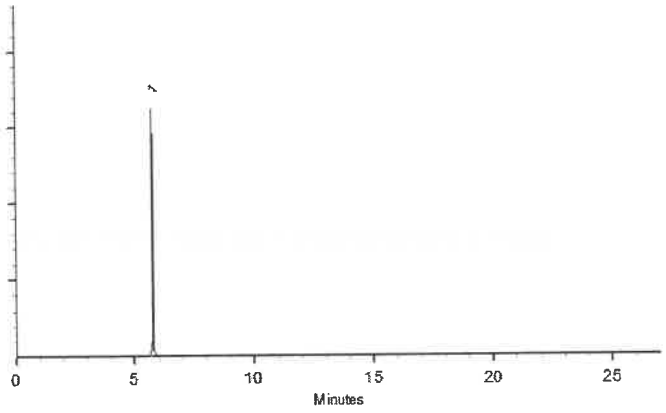
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 02-Jun-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 03-Jun-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

VV_M_ETOH_00074

SJN 7/6/20

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571994 **Lot No.:** A0156082

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol **CAS #** 64-17-5 **Purity** 99% (Lot SHBK6489)	100,295.5 µg/mL	+/- 587.2219 µg/mL +/- 2,148.4543 µg/mL +/- 2,210.8497 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2807027
ID: VV_M_ETOH_00077
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807026
ID: VV_M_ETOH_00076
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807025
ID: VV_M_ETOH_00075
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807024
ID: VV_M_ETOH_00074
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807023
ID: VV_M_ETOH_00073
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

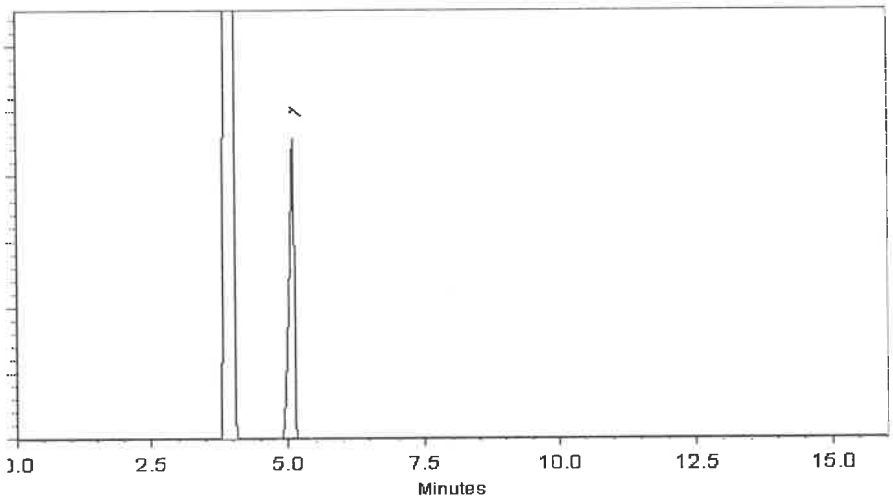
Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_ETOH_00077

SJN 7/6/20

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571994 **Lot No.:** A0156082

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol **CAS #** 64-17-5 **Purity** 99% (Lot SHBK6489)	100,295.5 µg/mL	+/- 587.2219 µg/mL +/- 2,148.4543 µg/mL +/- 2,210.8497 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2807027
ID: VV_M_ETOH_00077
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807026
ID: VV_M_ETOH_00076
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807025
ID: VV_M_ETOH_00075
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807024
ID: VV_M_ETOH_00074
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807023
ID: VV_M_ETOH_00073
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

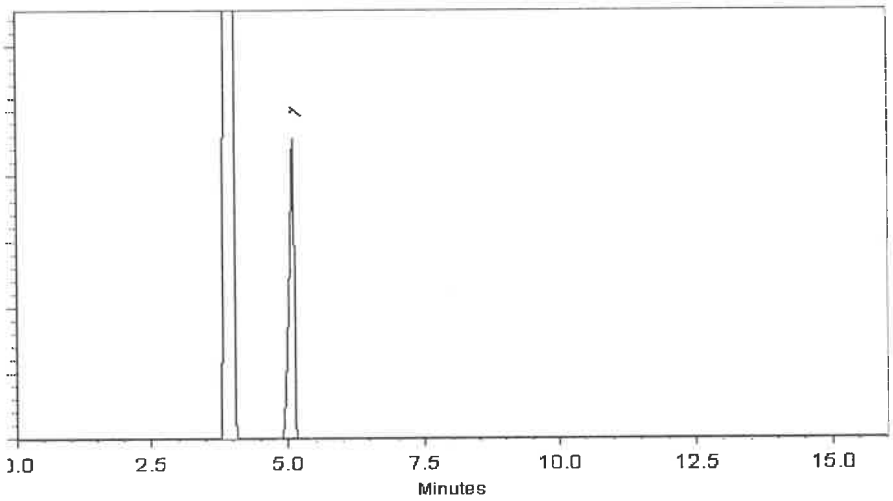
Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00693

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Fax: (814)353-1309

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

S.JW 5/22/20

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2760941
ID: VV_M_GASES_00689
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760944
ID: VV_M_GASES_00692
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760943
ID: VV_M_GASES_00691
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760942
ID: VV_M_GASES_00690
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 µg/mL +/- 140.5076 µg/mL +/- 143.7858 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 µg/mL +/- 140.4038 µg/mL +/- 143.6799 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 µg/mL +/- 140.4890 µg/mL +/- 143.7623 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 µg/mL +/- 140.5681 µg/mL +/- 143.8406 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 µg/mL +/- 140.4450 µg/mL +/- 143.7217 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 µg/mL +/- 140.5555 µg/mL +/- 143.8274 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2760950
ID: VV_M_GASES_00698
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760949
ID: VV_M_GASES_00697
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760948
ID: VV_M_GASES_00696
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760947
ID: VV_M_GASES_00695
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760946
ID: VV_M_GASES_00694
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760945
ID: VV_M_GASES_00693
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

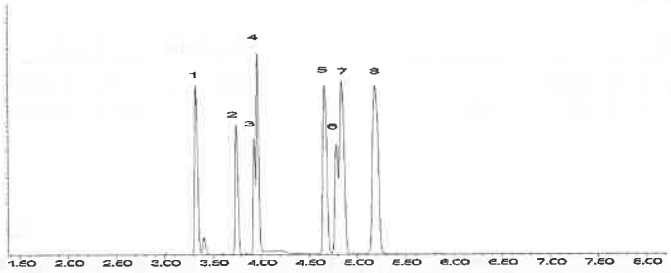
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00730

2852255
ID: VV_M_GASES_00738
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852254
ID: VV_M_GASES_00737
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852253
ID: VV_M_GASES_00736
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852252
ID: VV_M_GASES_00735
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852251
ID: VV_M_GASES_00734
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

Certificate of Analysis

2852250
ID: VV_M_GASES_00733
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852249
ID: VV_M_GASES_00732
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852248
ID: VV_M_GASES_00731
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2852247
ID: VV_M_GASES_00730
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

2852246
ID: VV_M_GASES_00729
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852245
ID: VV_M_GASES_00728
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2852244
ID: VV_M_GASES_00727
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852243
ID: VV_M_GASES_00726
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852236
ID: VV_M_GASES_00719
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 µg/mL +/- 140.5076 µg/mL +/- 143.7858 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 µg/mL +/- 140.4038 µg/mL +/- 143.6799 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 µg/mL +/- 140.4890 µg/mL +/- 143.7623 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 µg/mL +/- 140.5681 µg/mL +/- 143.8406 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 µg/mL +/- 140.4450 µg/mL +/- 143.7217 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 µg/mL +/- 140.5555 µg/mL +/- 143.8274 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2852242
ID: VV_M_GASES_00725
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852241
ID: VV_M_GASES_00724
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852240
ID: VV_M_GASES_00723
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852239
ID: VV_M_GASES_00722
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852238
ID: VV_M_GASES_00721
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852237
ID: VV_M_GASES_00720
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

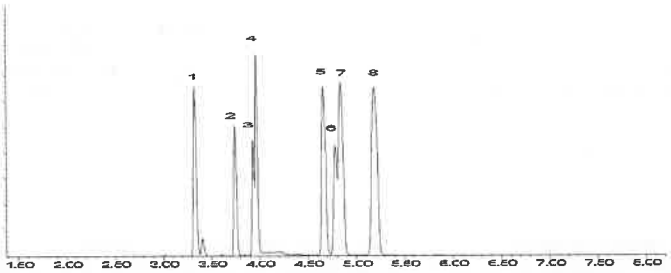
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00733

2852255
ID: VV_M_GASES_00738
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852254
ID: VV_M_GASES_00737
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852253
ID: VV_M_GASES_00736
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852252
ID: VV_M_GASES_00735
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852251
ID: VV_M_GASES_00734
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

Certificate of Analysis

2852250
ID: VV_M_GASES_00733
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852249
ID: VV_M_GASES_00732
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852248
ID: VV_M_GASES_00731
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2852247
ID: VV_M_GASES_00730
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

2852246
ID: VV_M_GASES_00729
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852245
ID: VV_M_GASES_00728
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2852244
ID: VV_M_GASES_00727
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852243
ID: VV_M_GASES_00726
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852236
ID: VV_M_GASES_00719
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 +/- 140.5076 +/- 143.7858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 +/- 140.4038 +/- 143.6799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 +/- 140.4890 +/- 143.7623	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 +/- 140.5681 +/- 143.8406	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 +/- 140.4450 +/- 143.7217	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 +/- 140.5555 +/- 143.8274	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 140.1725 +/- 143.4524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

2852242
ID: VV_M_GASES_00725
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852241
ID: VV_M_GASES_00724
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852240
ID: VV_M_GASES_00723
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852239
ID: VV_M_GASES_00722
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852238
ID: VV_M_GASES_00721
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852237
ID: VV_M_GASES_00720
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

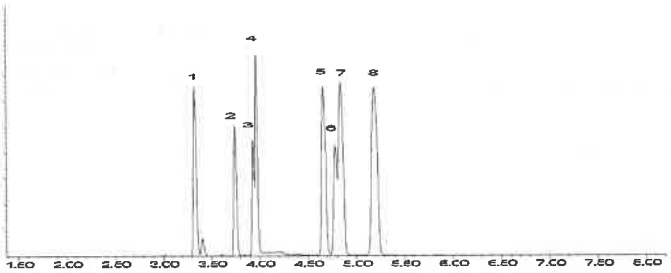
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00735

2852255
ID: VV_M_GASES_00738
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852254
ID: VV_M_GASES_00737
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852253
ID: VV_M_GASES_00736
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852252
ID: VV_M_GASES_00735
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852251
ID: VV_M_GASES_00734
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

Certificate of Analysis

2852250
ID: VV_M_GASES_00733
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852249
ID: VV_M_GASES_00732
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852248
ID: VV_M_GASES_00731
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2852247
ID: VV_M_GASES_00730
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

2852246
ID: VV_M_GASES_00729
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852245
ID: VV_M_GASES_00728
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2852244
ID: VV_M_GASES_00727
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852243
ID: VV_M_GASES_00726
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852236
ID: VV_M_GASES_00719
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 +/- 140.5076 +/- 143.7858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 +/- 140.4038 +/- 143.6799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 +/- 140.4890 +/- 143.7623	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 +/- 140.5681 +/- 143.8406	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 +/- 140.4450 +/- 143.7217	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 +/- 140.5555 +/- 143.8274	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 140.1725 +/- 143.4524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

2852242
ID: VV_M_GASES_00725
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852241
ID: VV_M_GASES_00724
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852240
ID: VV_M_GASES_00723
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852239
ID: VV_M_GASES_00722
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852238
ID: VV_M_GASES_00721
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852237
ID: VV_M_GASES_00720
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

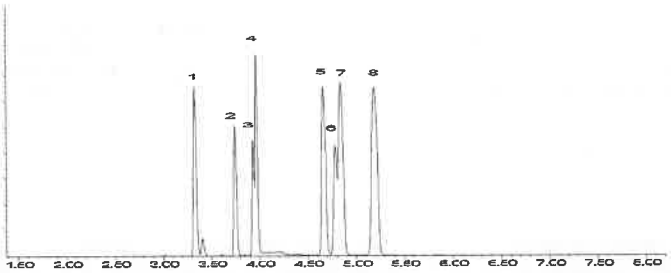
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00739

SN 8/22/20

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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

2859957
ID: VV_M_GASES_00741
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859956
ID: VV_M_GASES_00740
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859955
ID: VV_M_GASES_00739
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * **Purity** 99% (Lot 4938100)	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2859964
ID: VV_M_GASES_00748
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859963
ID: VV_M_GASES_00747
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859962
ID: VV_M_GASES_00746
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859961
ID: VV_M_GASES_00745
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859960
ID: VV_M_GASES_00744
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859959
ID: VV_M_GASES_00743
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859958
ID: VV_M_GASES_00742
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @25

8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4.SEC **Purity** 99%	(Lot 253600)	2,496.5 µg/mL	+/- 17.7311 +/- 140.3462 +/- 143.6131	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

' Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

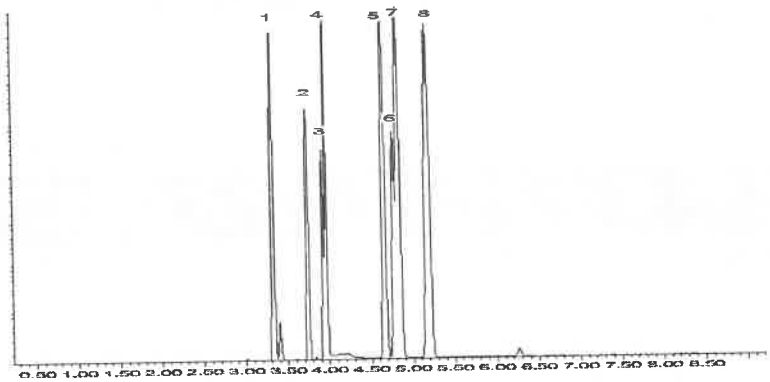
Carrier Gas:
Helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00743

SN 8/22/20

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

2859957
ID: VV_M_GASES_00741
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859956
ID: VV_M_GASES_00740
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859955
ID: VV_M_GASES_00739
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2859964
ID: VV_M_GASES_00748
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859963
ID: VV_M_GASES_00747
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859962
ID: VV_M_GASES_00746
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859961
ID: VV_M_GASES_00745
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859960
ID: VV_M_GASES_00744
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859959
ID: VV_M_GASES_00743
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859958
ID: VV_M_GASES_00742
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @25

8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4.SEC **Purity** 99%	(Lot 253600)	2,496.5 µg/mL	+/- 17.7311 +/- 140.3462 +/- 143.6131	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

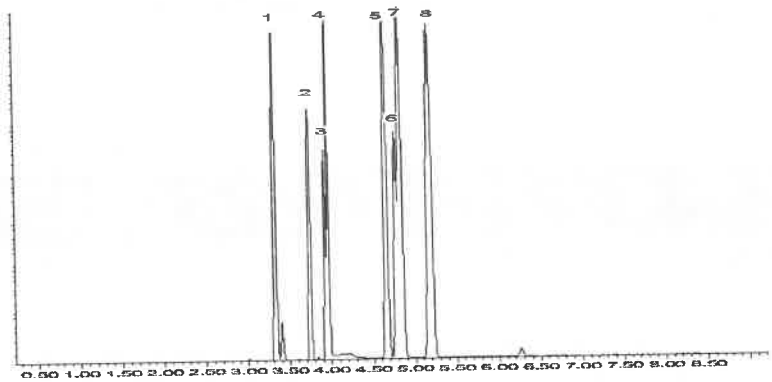
Carrier Gas:
Helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00749

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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,496.5 µg/mL	+/-	17.7311	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)		+/-	140.3462	µg/mL	Unstressed
	Purity 99%			+/-	143.6131	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

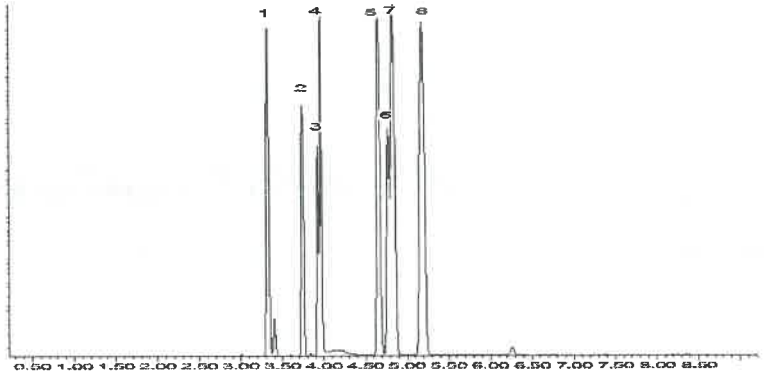
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Feng-Yun Lo - QC Analyst

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Date Passed: 24-Apr-2020

2965055
ID: VV_M_GASES_00749
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

2969161
ID: VV_M_GASES_00750
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969162
ID: VV_M_GASES_00751
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969163
ID: VV_M_GASES_00752
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969164
ID: VV_M_GASES_00753
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969165
ID: VV_M_GASES_00754
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

JRZ
11/12/20

2969167
ID: VV_M_GASES_00755
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969168
ID: VV_M_GASES_00756
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969169
ID: VV_M_GASES_00757
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

2969170
ID: VV_M_GASES_00758
Exp: 04/30/23 Prpd: TRZ
8260 Gases Standard @2500

Reagent

VV_M_ISSTD_00331

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Certificate #3222.01

Certificate of Analysis

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ISO/IEC 17025 Accredit
Testing Laboratory
Certificate #3222.02

2604620 ID: VV_M_ISSTD_00320 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604618 ID: VV_M_ISSTD_00319 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604614 ID: VV_M_ISSTD_00318 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604622 ID: VV_M_ISSTD_00321 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604623 ID: VV_M_ISSTD_00322 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

)R LABORATORY USE ONLY-READ SDS PRIOR TO USE.

...is Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2604632 ID: VV_M_ISSTD_00331 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

Catalog No. : 570812 **Lot No.:** A0143593

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, 5mL/ampul

2604631 ID: VV_M_ISSTD_00330 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604629 ID: VV_M_ISSTD_00328 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

2604630 ID: VV_M_ISSTD_00329 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604628 ID: VV_M_ISSTD_00327 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604627 ID: VV_M_ISSTD_00326 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604626 ID: VV_M_ISSTD_00325 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604625 ID: VV_M_ISSTD_00324 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604624 ID: VV_M_ISSTD_00323 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

RTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 **Purity** 98% (Lot CD-107)	5,000.1 µg/mL	+/- 29.0694 µg/mL +/- 107.0521 µg/mL +/- 110.1643 µg/mL	Gravimetric Unstressed Stressed
2	Dibromofluoromethane **CAS #** 1868-53-7 **Purity** 99% (Lot 0012017)	250.2 µg/mL	+/- 1.4580 µg/mL +/- 5.3577 µg/mL +/- 5.5134 µg/mL	Gravimetric Unstressed Stressed
3	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 **Purity** 99% (Lot PR-29377)	250.3 µg/mL	+/- 1.4584 µg/mL +/- 5.3592 µg/mL +/- 5.5149 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 **Purity** 99% (Lot I-19942)	5,000.5 µg/mL	+/- 29.0716 µg/mL +/- 107.0602 µg/mL +/- 110.1726 µg/mL	Gravimetric Unstressed Stressed
5	Fluorobenzene **CAS #** 462-06-6 **Purity** 99% (Lot BCBK8171V)	250.1 µg/mL	+/- 1.4573 µg/mL +/- 5.3549 µg/mL +/- 5.5105 µg/mL	Gravimetric Unstressed Stressed
6	Toluene-d8 **CAS #** 2037-26-5 **Purity** 99% (Lot PR-27311)	250.1 µg/mL	+/- 1.4575 µg/mL +/- 5.3556 µg/mL +/- 5.5112 µg/mL	Gravimetric Unstressed Stressed
7	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99% (Lot PR-23926)	250.5 µg/mL	+/- 1.4600 µg/mL +/- 5.3649 µg/mL +/- 5.5208 µg/mL	Gravimetric Unstressed Stressed

2604612 ID: VV_M_ISSTD_00317 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604609 ID: VV_M_ISSTD_00316 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604608 ID: VV_M_ISSTD_00315 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604606 ID: VV_M_ISSTD_00314 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604604 ID: VV_M_ISSTD_00313 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604601 ID: VV_M_ISSTD_00312 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

8	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 **Purity** 99%	(Lot 20401KO)	250.1 µg/mL	+/- 1.4575 +/- 5.3556 +/- 5.5112	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	250.2 µg/mL	+/- 1.4580 +/- 5.3577 +/- 5.5134	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
.05m x 0.53mm x 3.0µm
tx-502.2 (cat.#10910)

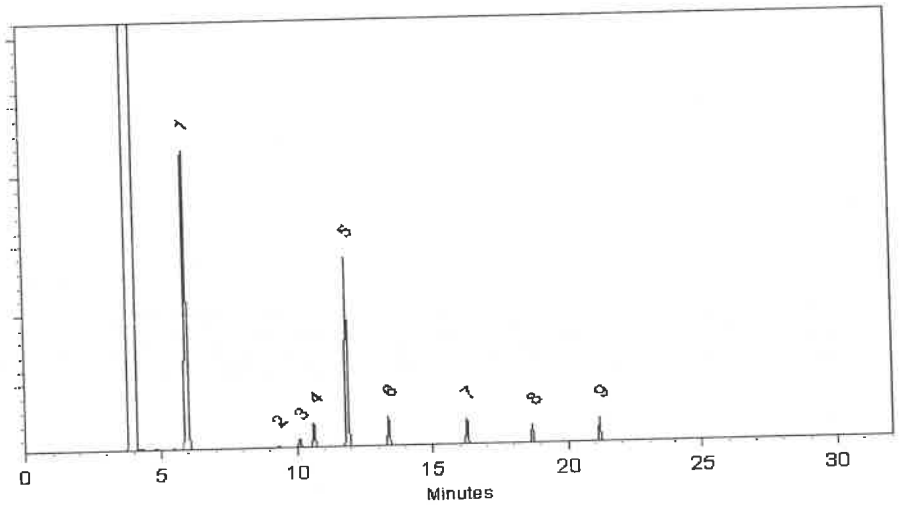
Carrier Gas:
ıydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 29-Nov-2018 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 18-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_KETONES_00235

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2481235
ID: VV_M_KETONES_00235
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481237
ID: VV_M_KETONES_00237
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481234
ID: VV_M_KETONES_00234
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481236
ID: VV_M_KETONES_00236
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481233
ID: VV_M_KETONES_00233
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

Catalog No. : 569721.SEC **Lot No.:** A0143456

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1.SEC **Purity** 99%	(Lot U13B039)	12,524.5 µg/mL	+/- 72.8185 µg/mL +/- 755.6586 µg/mL +/- 757.4526 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC **Purity** 99%	(Lot RGZ2A)	12,527.8 µg/mL	+/- 72.8374 µg/mL +/- 755.8547 µg/mL +/- 757.6492 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC **Purity** 99%	(Lot E29T040)	12,515.3 µg/mL	+/- 72.7647 µg/mL +/- 755.1005 µg/mL +/- 756.8932 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC **Purity** 98%	(Lot Y3TUO)	12,516.8 µg/mL	+/- 72.7738 µg/mL +/- 755.1943 µg/mL +/- 756.9873 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

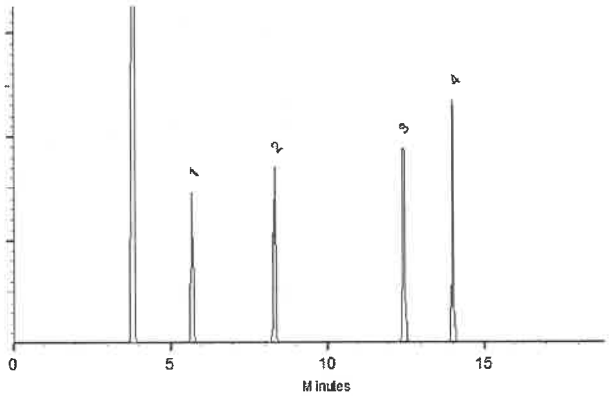
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 20-Nov-2018 **Balance:** 1127510105

Justine Albertson

Justine Albertson - Operations Tech-ARM QC

Date Passed: 29-Nov-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_KETONES_00236

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TCH 9-10-19

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0143456

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

2481235
ID: VV_M_KETONES_00235
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481237
ID: VV_M_KETONES_00237
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481234
ID: VV_M_KETONES_00234
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481236
ID: VV_M_KETONES_00236
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481233
ID: VV_M_KETONES_00233
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1.SEC **Purity** 99%	(Lot U13B039)	12,524.5 µg/mL	+/- 72.8185 µg/mL +/- 755.6586 µg/mL +/- 757.4526 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC **Purity** 99%	(Lot RGZ2A)	12,527.8 µg/mL	+/- 72.8374 µg/mL +/- 755.8547 µg/mL +/- 757.6492 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC **Purity** 99%	(Lot E29T040)	12,515.3 µg/mL	+/- 72.7647 µg/mL +/- 755.1005 µg/mL +/- 756.8932 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC **Purity** 98%	(Lot Y3TUO)	12,516.8 µg/mL	+/- 72.7738 µg/mL +/- 755.1943 µg/mL +/- 756.9873 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

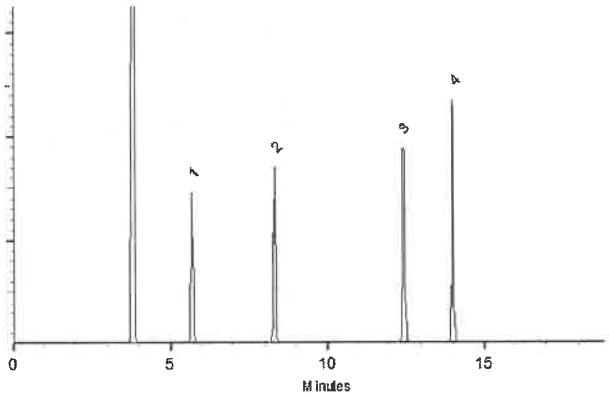
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 20-Nov-2018 **Balance:** 1127510105

Justine Albertson

Justine Albertson - Operations Tech-ARM QC

Date Passed: 29-Nov-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_KETONES_00263

SW 7/15/20

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0156095

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 **Purity** 99% (Lot MKCK2598)	12,523.3 µg/mL	+/- 72.8113 µg/mL +/- 755.5832 µg/mL +/- 757.3770 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99% (Lot SHBK5945)	12,532.3 µg/mL	+/- 72.8636 µg/mL +/- 756.1262 µg/mL +/- 757.9213 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99% (Lot SHBK5017)	12,531.8 µg/mL	+/- 72.8607 µg/mL +/- 756.0960 µg/mL +/- 757.8911 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99% (Lot MKCG5905)	12,531.5 µg/mL	+/- 72.8592 µg/mL +/- 756.0809 µg/mL +/- 757.8760 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

2816722
ID: VV_M_KETONES_00267
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816721
ID: VV_M_KETONES_00266
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816720
ID: VV_M_KETONES_00265
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816719
ID: VV_M_KETONES_00264
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816718
ID: VV_M_KETONES_00263
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

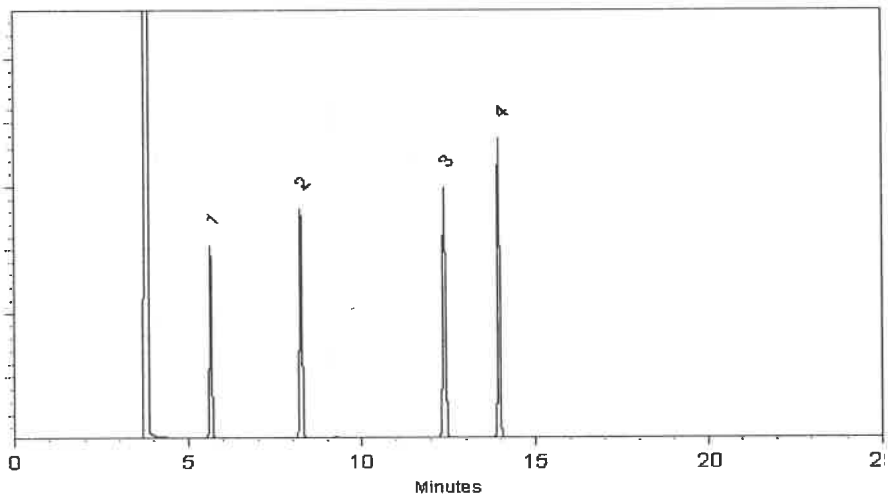
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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SW 7/15/20

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0156095

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot MKCK2598)	12,523.3 µg/mL	+/- 72.8113 µg/mL +/- 755.5832 µg/mL +/- 757.3770 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBK5945)	12,532.3 µg/mL	+/- 72.8636 µg/mL +/- 756.1262 µg/mL +/- 757.9213 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBK5017)	12,531.8 µg/mL	+/- 72.8607 µg/mL +/- 756.0960 µg/mL +/- 757.8911 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCG5905)	12,531.5 µg/mL	+/- 72.8592 µg/mL +/- 756.0809 µg/mL +/- 757.8760 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

2816722
ID: VV_M_KETONES_00267
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816721
ID: VV_M_KETONES_00266
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816720
ID: VV_M_KETONES_00265
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816719
ID: VV_M_KETONES_00264
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816718
ID: VV_M_KETONES_00263
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

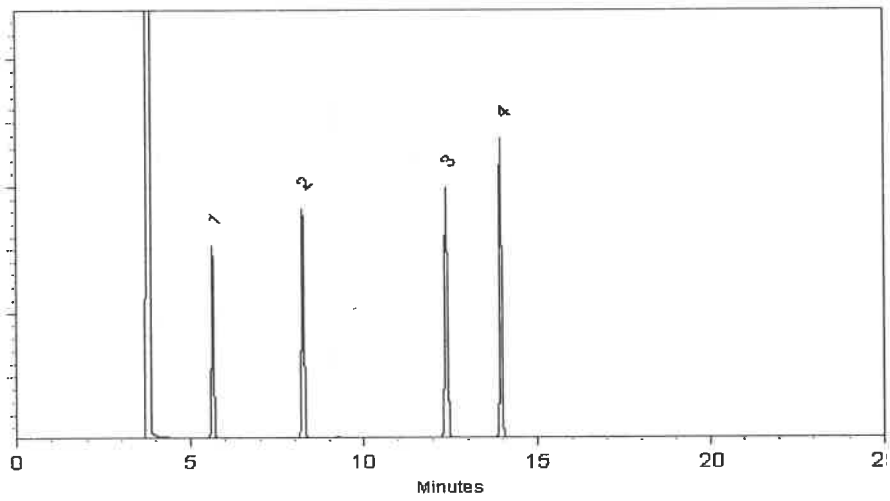
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0156095

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 (Lot MKCK2598) **Purity** 99%	12,523.3 µg/mL	+/- 72.8113 +/- 755.5832 +/- 757.3770	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK5945) **Purity** 99%	12,532.3 µg/mL	+/- 72.8636 +/- 756.1262 +/- 757.9213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	12,531.8 µg/mL	+/- 72.8607 +/- 756.0960 +/- 757.8911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCG5905) **Purity** 99%	12,531.5 µg/mL	+/- 72.8592 +/- 756.0809 +/- 757.8760	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

2816722
ID: VV_M_KETONES_00267
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816721
ID: VV_M_KETONES_00266
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816720
ID: VV_M_KETONES_00265
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816719
ID: VV_M_KETONES_00264
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816718
ID: VV_M_KETONES_00263
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

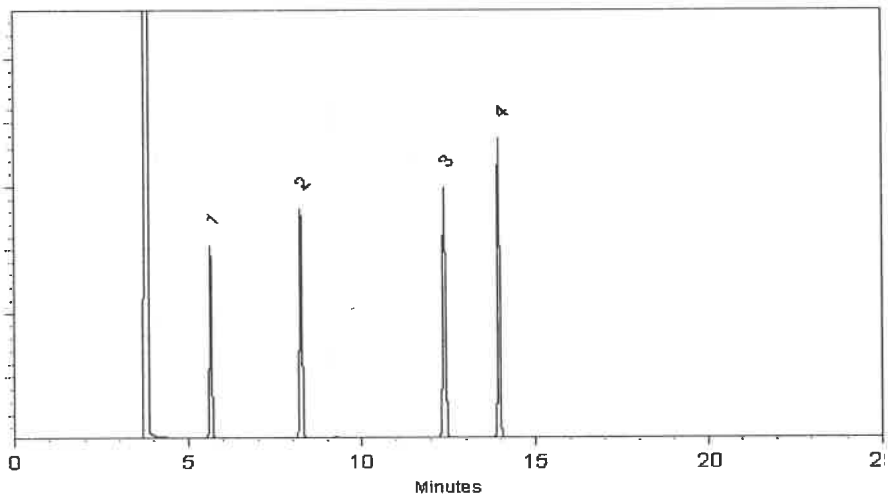
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_Megamix_00246

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This Reference Material is intended for Laboratory Use Only as the qualitative and/or quantitative determination of the analyte(s

2407344
ID: VV_M_Megamix_00248
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407341
ID: VV_M_Megamix_00245
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407343
ID: VV_M_Megamix_00247
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407340
ID: VV_M_Megamix_00244
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407342
ID: VV_M_Megamix_00246
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%		2,506.7	µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC (Lot MKBL1376V) **Purity** 99%		2,500.7	µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC (Lot UERIL) **Purity** 99%		25,001.2	µg/mL	+/- 145.3513 +/- 1,508.4304 +/- 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC (Lot ZHKYA) **Purity** 99%		2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot HGC01-BLKT) **Purity** 98%		2,501.3	µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC (Lot K24W001) **Purity** 97%		2,503.2	µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 5379000) **Purity** 99%		2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%		2,503.2	µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 97%		2,501.0	µg/mL	+/- 14.5409 +/- 150.8954 +/- 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC (Lot PH2XK) **Purity** 99%		62,508.3	µg/mL	+/- 363.4098 +/- 3,771.4029 +/- 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%		2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC (Lot 5670200) **Purity** 99%		2,507.0	µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC (Lot 8DAOJ) **Purity** 99%		5,006.7	µg/mL	+/- 29.1092 +/- 302.0744 +/- 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC (Lot 7998000) **Purity** 99%		2,507.7	µg/mL	+/- 14.5798 +/- 151.2986 +/- 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC (Lot YADRA) **Purity** 99%		2,508.0	µg/mL	+/- 14.5817 +/- 151.3188 +/- 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC (Lot 5221100) **Purity** 96%		2,502.4	µg/mL	+/- 14.5492 +/- 150.9809 +/- 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride **CAS #** 56-23-5.SEC **Purity** 99%	(Lot 11466)	2,510.3 µg/mL	+/- 14.5953 +/- 151.4595 +/- 151.8191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5.SEC **Purity** 99%	(Lot TFHUC)	2,511.8 µg/mL	+/- 14.6040 +/- 151.5500 +/- 151.9098	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2.SEC **Purity** 99%	(Lot FO6PK)	2,501.3 µg/mL	+/- 14.5430 +/- 150.9165 +/- 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2.SEC **Purity** 99%	(Lot B28Y008)	2,504.8 µg/mL	+/- 14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6.SEC **Purity** 99%	(Lot H04X050)	2,508.7 µg/mL	+/- 14.5856 +/- 151.3590 +/- 151.7183	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2.SEC **Purity** 99%	(Lot Q02QG)	2,504.5 µg/mL	+/- 14.5614 +/- 151.1076 +/- 151.4663	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5.SEC **Purity** 99%	(Lot ERRBI-RH)	2,504.0 µg/mL	+/- 14.5585 +/- 151.0774 +/- 151.4361	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1.SEC **Purity** 99%	(Lot YVP2C)	50,008.0 µg/mL	+/- 290.7356 +/- 3,017.2028 +/- 3,024.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3.SEC **Purity** 99%	(Lot FGI01-OICH)	2,509.5 µg/mL	+/- 14.5904 +/- 151.4093 +/- 151.7687	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5.SEC **Purity** 99%	(Lot 487OA)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3.SEC **Purity** 99%	(Lot YND2B-BD)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2.SEC **Purity** 99%	(Lot MLWYK-LS)	2,508.8 µg/mL	+/- 14.5866 +/- 151.3690 +/- 151.7284	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6.SEC **Purity** 96%	(Lot ZDMSL)	2,502.9 µg/mL	+/- 14.5520 +/- 151.0098 +/- 151.3684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5.SEC **Purity** 99%	(Lot 7871500)	2,502.5 µg/mL	+/- 14.5498 +/- 150.9869 +/- 151.3454	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9.SEC **Purity** 99%	(Lot AGN01-EFPC)	2,502.7 µg/mL	+/- 14.5507 +/- 150.9970 +/- 151.3555	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4.SEC **Purity** 99%	(Lot F09W014)	2,505.0 µg/mL	+/- 14.5643 +/- 151.1378 +/- 151.4966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane **CAS #** 124-48-1.SEC **Purity** 97%	(Lot 10206360)	2,502.4	µg/mL	+/- 14.5494 +/- 150.9832 +/- 151.3417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4.SEC **Purity** 99%	(Lot 3505900)	2,503.3	µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7.SEC **Purity** 99%	(Lot 1161936)	2,504.8	µg/mL	+/- 14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3.SEC **Purity** 99%	(Lot OUKMG-GB)	1,251.7	µg/mL	+/- 7.2941 +/- 75.5202 +/- 75.6995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3.SEC **Purity** 99%	(Lot GM01)	1,253.7	µg/mL	+/- 7.3058 +/- 75.6409 +/- 75.8205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4.SEC **Purity** 99%	(Lot PI4SE)	2,503.5	µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6.SEC **Purity** 99%	(Lot GC01)	2,506.7	µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6.SEC **Purity** 99%	(Lot FGL01)	2,504.2	µg/mL	+/- 14.5594 +/- 151.0875 +/- 151.4462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5.SEC **Purity** 99%	(Lot OFIOL-IA)	2,507.2	µg/mL	+/- 14.5769 +/- 151.2685 +/- 151.6276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8.SEC **Purity** 99%	(Lot 2PHXG-IH)	2,505.2	µg/mL	+/- 14.5653 +/- 151.1478 +/- 151.5067	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform **CAS #** 75-25-2.SEC **Purity** 97%	(Lot 5461400)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8661 +/- 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane **CAS #** 75-27-4.SEC **Purity** 98%	(Lot 13780)	2,501.3	µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5.SEC **Purity** 99%	(Lot CFA4D-AQ)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4.SEC **Purity** 99%	(Lot GUHZN)	2,505.7	µg/mL	+/- 14.5682 +/- 151.1780 +/- 151.5369	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene **CAS #** 110-57-6.SEC **Purity** 98%	(Lot 100700-3)	2,514.2	µg/mL	+/- 14.6177 +/- 151.6922 +/- 152.0524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1.SEC **Purity** 99%	(Lot T2HFC)	2,503.7	µg/mL	+/- 14.5565 +/- 151.0573 +/- 151.4159	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1.SEC **Purity** 99%	(Lot 2FUHG-EM)	2,506.2 µg/mL	+/- 14.5711 +/- 151.2081 +/- 151.5671	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8.SEC **Purity** 99%	(Lot FGH02-CMLN)	2,510.0 µg/mL	+/- 14.5934 +/- 151.4394 +/- 151.7990	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8.SEC **Purity** 99%	(Lot SW8QG-AO)	2,504.7 µg/mL	+/- 14.5623 +/- 151.1176 +/- 151.4764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4.SEC **Purity** 99%	(Lot P4XHJ-AO)	2,509.2 µg/mL	+/- 14.5885 +/- 151.3891 +/- 151.7486	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6.SEC **Purity** 99%	(Lot D6OHC)	2,505.8 µg/mL	+/- 14.5691 +/- 151.1880 +/- 151.5470	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6.SEC **Purity** 99%	(Lot JMIYD)	2,508.7 µg/mL	+/- 14.5856 +/- 151.3590 +/- 151.7183	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8.SEC **Purity** 99%	(Lot OGN01-IMA)	2,504.7 µg/mL	+/- 14.5623 +/- 151.1176 +/- 151.4764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) **CAS #** 99-87-6.SEC **Purity** 99%	(Lot 6628200)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8562 +/- 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1.SEC **Purity** 99%	(Lot FMDFD)	2,506.3 µg/mL	+/- 14.5720 +/- 151.2182 +/- 151.5772	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7.SEC **Purity** 99%	(Lot 4Y5DC)	2,509.8 µg/mL	+/- 14.5924 +/- 151.4294 +/- 151.7889	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8.SEC **Purity** 99%	(Lot MMPGA)	2,513.7 µg/mL	+/- 14.6147 +/- 151.6607 +/- 152.0207	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1.SEC **Purity** 99%	(Lot R6QDM)	2,501.8 µg/mL	+/- 14.5459 +/- 150.9467 +/- 151.3051	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8.SEC **Purity** 98%	(Lot LC00408V)	2,508.5 µg/mL	+/- 14.5845 +/- 151.3473 +/- 151.7066	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1.SEC **Purity** 99%	(Lot 3LYYC)	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3.SEC **Purity** 97%	(Lot 5526800)	2,504.4 µg/mL	+/- 14.5607 +/- 151.1002 +/- 151.4590	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3.SEC **Purity** 99%	(Lot 4KW3H-OO)	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/- 14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/- 151.5740	µg/mL	Unstressed
	Purity 98%			+/- 151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

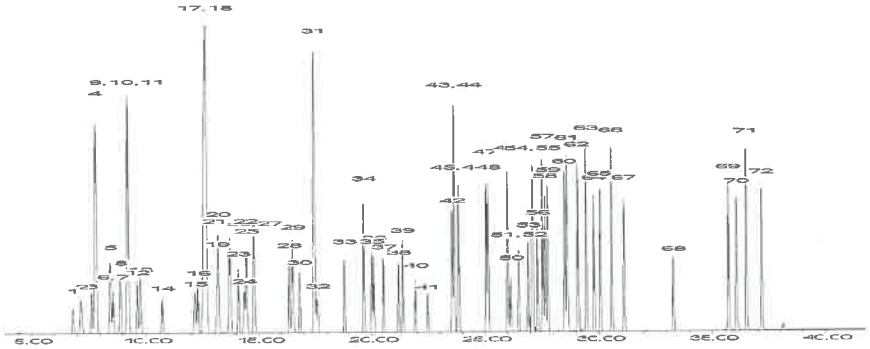
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_Megamix_00278

S/W 3/27/20

2696583
ID: VV_M_Megamix_00278
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696582
ID: VV_M_Megamix_00277
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696581
ID: VV_M_Megamix_00276
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2696580
ID: VV_M_Megamix_00275
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

2696579
ID: VV_M_Megamix_00274
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

2696578
ID: VV_M_Megamix_00273
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696577
ID: VV_M_Megamix_00272
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696576
ID: VV_M_Megamix_00271
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696575
ID: VV_M_Megamix_00270
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696574
ID: VV_M_Megamix_00269
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9	µg/mL	+/- +/- +/-	14.5348 150.8320 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4	µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9	µg/mL	+/- +/- +/-	14.5519 151.0095 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1	µg/mL	+/- +/- +/-	14.5476 150.9643 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8	µg/mL	+/- +/- +/-	14.5512 151.0020 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

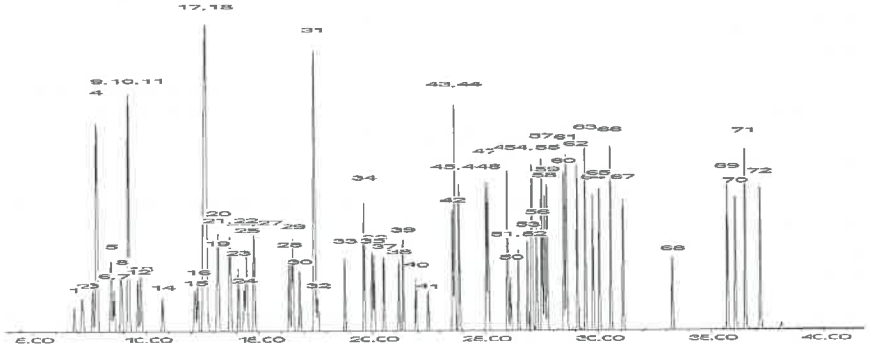
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_Megamix_00279

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

5-17-20 TCH

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2747615
ID: VV_M_Megamix_00279
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2747623
ID: VV_M_Megamix_00281
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2747622
ID: VV_M_Megamix_00280
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether)	2,517.0 µg/mL	+/- 14.6339 µg/mL	Gravimetric
	CAS # 60-29-7.SEC (Lot F23X068)		+/- 151.8598 µg/mL	Unstressed
	Purity 98%		+/- 152.2203 µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,506.7 µg/mL	+/- 14.5740 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 151.2383 µg/mL	Unstressed
	Purity 99%		+/- 151.5974 µg/mL	Stressed
3	1,1-Dichloroethene	2,503.3 µg/mL	+/- 14.5546 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 7692300)		+/- 151.0372 µg/mL	Unstressed
	Purity 99%		+/- 151.3958 µg/mL	Stressed
4	tert-Butanol (TBA)	25,000.8 µg/mL	+/- 145.3491 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot XYXDO)		+/- 1,508.4071 µg/mL	Unstressed
	Purity 98%		+/- 1,511.9883 µg/mL	Stressed
5	Methyl acetate	5,002.3 µg/mL	+/- 29.0840 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 301.8129 µg/mL	Unstressed
	Purity 99%		+/- 302.5295 µg/mL	Stressed
6	Iodomethane (methyl iodide)	2,503.5 µg/mL	+/- 14.5556 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 151.0472 µg/mL	Unstressed
	Purity 99%		+/- 151.4059 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,511.7 µg/mL	+/- 14.6030 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 151.5400 µg/mL	Unstressed
	Purity 99%		+/- 151.8998 µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,506.7	µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	151.2383	µg/mL	Unstressed
	Purity 99%				+/-	151.5974	µg/mL	Stressed
9	Carbon disulfide		2,500.7	µg/mL	+/-	14.5391	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	150.8763	µg/mL	Unstressed
	Purity 99%				+/-	151.2345	µg/mL	Stressed
10	Acrylonitrile		25,001.2	µg/mL	+/-	145.3513	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot UERIL)			+/-	1,508.4304	µg/mL	Unstressed
	Purity 99%				+/-	1,512.0117	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	150.9137	µg/mL	Unstressed
	Purity 98%				+/-	151.2720	µg/mL	Stressed
13	n-Hexane (C6)		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)			+/-	151.0320	µg/mL	Unstressed
	Purity 97%				+/-	151.3905	µg/mL	Stressed
14	1,1-Dichloroethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 5379000)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
15	2,2-Dichloropropane		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot I7E8E)			+/-	151.0320	µg/mL	Unstressed
	Purity 98%				+/-	151.3905	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,501.0	µg/mL	+/-	14.5409	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	150.8954	µg/mL	Unstressed
	Purity 97%				+/-	151.2537	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,508.3	µg/mL	+/-	363.4098	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)			+/-	3,771.4029	µg/mL	Unstressed
	Purity 99%				+/-	3,780.3569	µg/mL	Stressed
18	Chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 5670200)			+/-	151.2584	µg/mL	Unstressed
	Purity 99%				+/-	151.6175	µg/mL	Stressed
20	Tetrahydrofuran		5,006.7	µg/mL	+/-	29.1092	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 8DAOJ)			+/-	302.0744	µg/mL	Unstressed
	Purity 99%				+/-	302.7916	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,507.7	µg/mL	+/-	14.5798	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 7998000)			+/-	151.2986	µg/mL	Unstressed
	Purity 99%				+/-	151.6579	µg/mL	Stressed
22	Cyclohexane		2,508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	151.3188	µg/mL	Unstressed
	Purity 99%				+/-	151.6780	µg/mL	Stressed
23	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5492	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 5221100)			+/-	150.9809	µg/mL	Unstressed
	Purity 96%				+/-	151.3393	µg/mL	Stressed

24	Carbon tetrachloride		2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	151.4595	µg/mL	Unstressed
	Purity 99%				+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	151.5500	µg/mL	Unstressed
	Purity 99%				+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9165	µg/mL	Unstressed
	Purity 99%				+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	151.1076	µg/mL	Unstressed
	Purity 99%				+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	151.0774	µg/mL	Unstressed
	Purity 99%				+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)			+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	151.4093	µg/mL	Unstressed
	Purity 99%				+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	151.3690	µg/mL	Unstressed
	Purity 99%				+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	151.0098	µg/mL	Unstressed
	Purity 96%				+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.9970	µg/mL	Unstressed
	Purity 99%				+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4	µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	150.9832	µg/mL	Unstressed
	Purity 97%				+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7	µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	75.5202	µg/mL	Unstressed
	Purity 99%				+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7	µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	75.6409	µg/mL	Unstressed
	Purity 99%				+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	151.0472	µg/mL	Unstressed
	Purity 99%				+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7	µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	151.2383	µg/mL	Unstressed
	Purity 99%				+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2	µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	151.0875	µg/mL	Unstressed
	Purity 99%				+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2	µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	151.2685	µg/mL	Unstressed
	Purity 99%				+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2	µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	151.1478	µg/mL	Unstressed
	Purity 99%				+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)			+/-	150.8661	µg/mL	Unstressed
	Purity 97%				+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	150.9137	µg/mL	Unstressed
	Purity 98%				+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7	µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	151.1780	µg/mL	Unstressed
	Purity 99%				+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2	µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	151.6922	µg/mL	Unstressed
	Purity 98%				+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	151.0573	µg/mL	Unstressed
	Purity 99%				+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

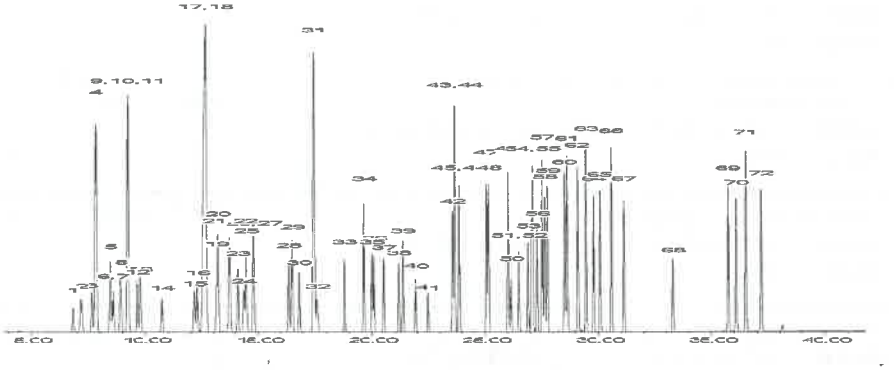
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_Megamix_00284

SJN 7/29/20

RESTEK®
110 Benner Circle
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

2832437
ID: VV_M_Megamix_00286
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832436
ID: VV_M_Megamix_00285
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832435
ID: VV_M_Megamix_00284
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832429
ID: VV_M_Megamix_00283
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832428
ID: VV_M_Megamix_00282
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- +/- +/-	145.4049 1,508.9860 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- +/- +/-	363.3665 3,770.9529 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- +/- +/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- +/- +/-	29.0741 301.7099 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- +/- +/-	14.5388 150.8738 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9	µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9	µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1	µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

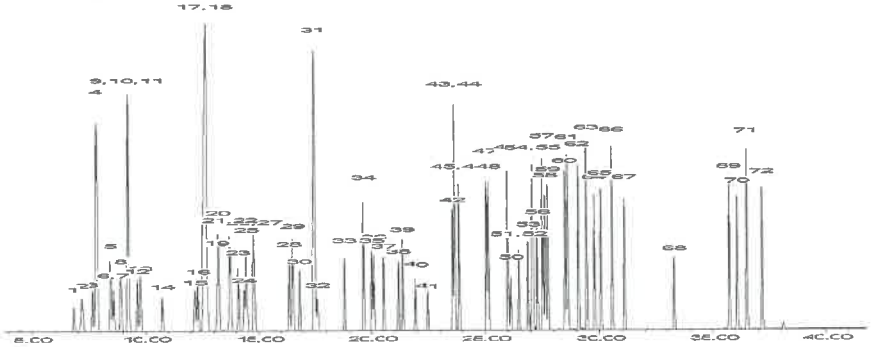
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_Megamix_00285

SJN 7/29/20

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

2832437
ID: VV_M_Megamix_00286
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832436
ID: VV_M_Megamix_00285
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832435
ID: VV_M_Megamix_00284
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832429
ID: VV_M_Megamix_00283
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832428
ID: VV_M_Megamix_00282
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- +/- +/-	145.4049 1,508.9860 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- +/- +/-	363.3665 3,770.9529 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- +/- +/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- +/- +/-	29.0741 301.7099 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- +/- +/-	14.5388 150.8738 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9	µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9	µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1	µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

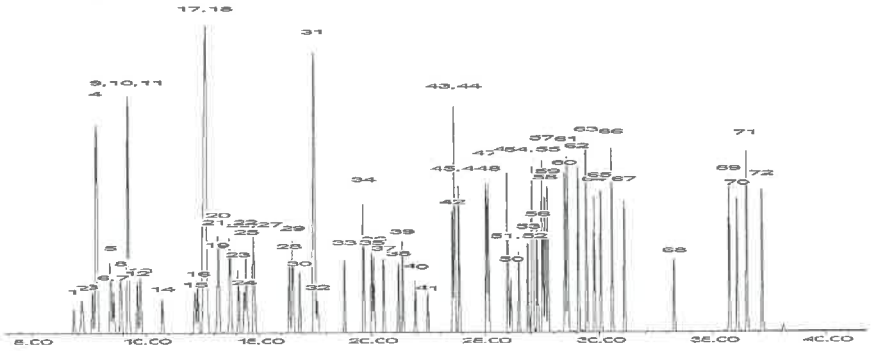
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_POLADD_00222

2696593
ID: VV_M_POLADD_00227
Exp: 01/31/21 Prpd: SJN
Polar additions

2696592
ID: VV_M_POLADD_00226
Exp: 01/31/21 Prpd: SJN
Polar additions

2696591
ID: VV_M_POLADD_00225
Exp: 01/31/21 Prpd: SJN
Polar additions

2696590
ID: VV_M_POLADD_00224
Exp: 01/31/21 Prpd: SJN
Polar additions

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0144915

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2021 **Storage:** 0°C or colder

SJN 3/27/20

2696589
ID: VV_M_POLADD_00223
Exp: 01/31/21 Prpd: SJN
Polar additions

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile **CAS #** 75-05-8 (Lot SHBH6233) **Purity** 99%	25,249.0 µg/mL	+/- 147.8384 µg/mL +/- 1,249.1362 µg/mL +/- 1,280.1910 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 (Lot SHBH1927V) **Purity** 99%	2,524.3 µg/mL	+/- 14.8142 µg/mL +/- 124.8896 µg/mL +/- 127.9943 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 (Lot MKCC2702) **Purity** 99%	2,524.3 µg/mL	+/- 14.8142 µg/mL +/- 124.8896 µg/mL +/- 127.9943 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 (Lot BCBV8545) **Purity** 99%	25,249.7 µg/mL	+/- 147.8424 µg/mL +/- 1,249.1692 µg/mL +/- 1,280.2248 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 (Lot STBG1140V) **Purity** 99%	25,249.0 µg/mL	+/- 147.8384 µg/mL +/- 1,249.1362 µg/mL +/- 1,280.1910 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 (Lot HMBF8365V) **Purity** 99%	2,523.7 µg/mL	+/- 14.8103 µg/mL +/- 124.8566 µg/mL +/- 127.9605 µg/mL	Gravimetric Unstressed Stressed

2696588
ID: VV_M_POLADD_00222
Exp: 01/31/21 Prpd: SJN
Polar additions

2696587
ID: VV_M_POLADD_00221
Exp: 01/31/21 Prpd: SJN
Polar additions

2696586
ID: VV_M_POLADD_00220
Exp: 01/31/21 Prpd: SJN
Polar additions

2696585
ID: VV_M_POLADD_00219
Exp: 01/31/21 Prpd: SJN
Polar additions

2696584
ID: VV_M_POLADD_00218
Exp: 01/31/21 Prpd: SJN
Polar additions

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

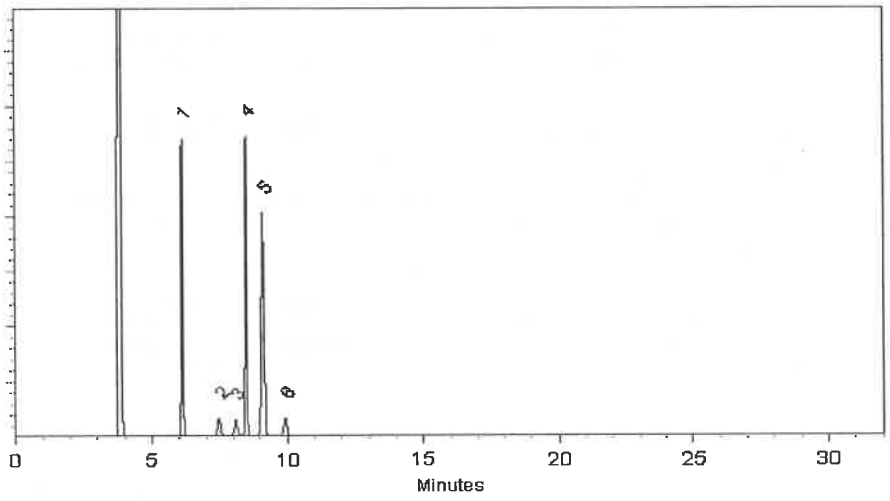
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

Date Mixed: 14-Jan-2019 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jan-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_POLADD_00232

SJN 7/29/20

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0158947

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile **CAS #** 75-05-8 (Lot SHBH6233) **Purity** 99%	25,021.3 µg/mL	+/- 146.5054 µg/mL +/- 1,237.8729 µg/mL +/- 1,268.6477 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 (Lot SHBH1927V) **Purity** 99%	2,503.7 µg/mL	+/- 14.6929 µg/mL +/- 123.8671 µg/mL +/- 126.9464 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 (Lot MKCG1429) **Purity** 99%	2,502.3 µg/mL	+/- 14.6851 µg/mL +/- 123.8011 µg/mL +/- 126.8788 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 (Lot BCBW0865) **Purity** 99%	25,038.0 µg/mL	+/- 146.6030 µg/mL +/- 1,238.6975 µg/mL +/- 1,269.4928 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 (Lot STBG1140V) **Purity** 99%	25,036.7 µg/mL	+/- 146.5952 µg/mL +/- 1,238.6315 µg/mL +/- 1,269.4252 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 (Lot HMBG6382V) **Purity** 99%	2,502.7 µg/mL	+/- 14.6871 µg/mL +/- 123.8176 µg/mL +/- 126.8957 µg/mL	Gravimetric Unstressed Stressed

2832449
ID: VV_M_POLADD_00235
Exp: 03/31/22 Prpd: SJN
Polar additions

2832448
ID: VV_M_POLADD_00234
Exp: 03/31/22 Prpd: SJN
Polar additions

2832447
ID: VV_M_POLADD_00233
Exp: 03/31/22 Prpd: SJN
Polar additions

2832446
ID: VV_M_POLADD_00232
Exp: 03/31/22 Prpd: SJN
Polar additions

2832445
ID: VV_M_POLADD_00231
Exp: 03/31/22 Prpd: SJN
Polar additions

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

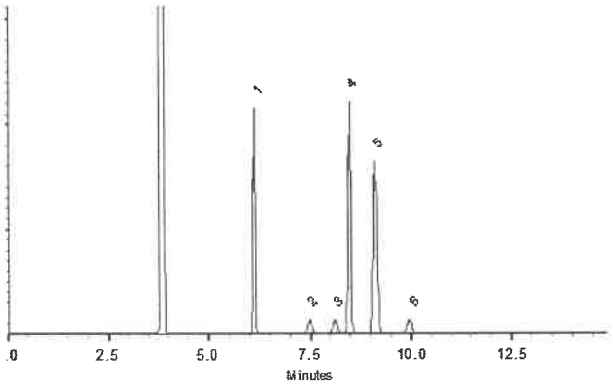
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Clara Windle - Operations Technician I

Date Mixed: 17-Mar-2020 **Balance:** B251644995

Peng-Yan Lo - QC Analyst

Date Passed: 20-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_STD6_00158

SJN 7/6/20

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0154734

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Propanol (isopropanol) **CAS #** 67-63-0 **Purity** 99%	(Lot SHBH7211)	25,135.0 µg/mL	+/- 147.1710 µg/mL +/- 1,243.4963 µg/mL +/- 1,274.4109 µg/mL		Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 **Purity** 99%	(Lot 190814JLM)	2,523.5 µg/mL	+/- 14.8093 µg/mL +/- 124.8483 µg/mL +/- 127.9520 µg/mL		Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 **Purity** 99%	(Lot 1012019)	25,164.0 µg/mL	+/- 147.3408 µg/mL +/- 1,244.9310 µg/mL +/- 1,275.8813 µg/mL		Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 **Purity** 99%	(Lot SHBD2922V)	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 124.2794 µg/mL +/- 127.3689 µg/mL		Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 **Purity** 99%	(Lot SHBK4786)	63,024.5 µg/mL	+/- 369.0033 µg/mL +/- 3,117.9899 µg/mL +/- 3,195.5065 µg/mL		Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 **Purity** 98%	(Lot BCBL0537V)	5,009.8 µg/mL	+/- 29.3332 µg/mL +/- 247.8464 µg/mL +/- 254.0081 µg/mL		Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	2,516.6 µg/mL	+/- 14.7691 µg/mL +/- 124.5090 µg/mL +/- 127.6042 µg/mL		Gravimetric Unstressed Stressed

2807032
ID: VV_M_STD6_00161
Exp: 05/31/21 Prpd: SJN
STD 6

2807031
ID: VV_M_STD6_00160
Exp: 05/31/21 Prpd: SJN
STD 6

2807030
ID: VV_M_STD6_00159
Exp: 05/31/21 Prpd: SJN
STD 6

2807029
ID: VV_M_STD6_00158
Exp: 05/31/21 Prpd: SJN
STD 6

2807028
ID: VV_M_STD6_00157
Exp: 05/31/21 Prpd: SJN
STD 6

8	1,2,3-Trimethylbenzene		2,510.3 µg/mL	+/-	14.7317	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-12)		+/-	124.1938	µg/mL	Unstressed
	Purity 98%			+/-	127.2812	µg/mL	Stressed
9	Benzyl chloride		2,516.0 µg/mL	+/-	14.7653	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)		+/-	124.4773	µg/mL	Unstressed
	Purity 99%			+/-	127.5717	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,523.0 µg/mL	+/-	14.8064	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)		+/-	124.8236	µg/mL	Unstressed
	Purity 99%			+/-	127.9267	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

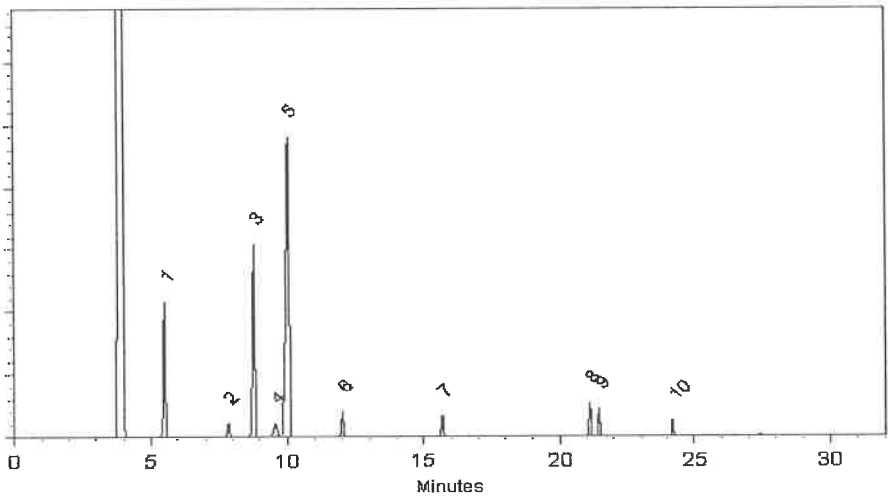
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 **Balance:** B707717271

Feng-Yim Lo - QC Analyst

Date Passed: 07-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_STD6_00160

SJN 7/6/20

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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0154734

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Propanol (isopropanol) **CAS #** 67-63-0 **Purity** 99%	(Lot SHBH7211)	25,135.0 µg/mL	+/- 147.1710 µg/mL +/- 1,243.4963 µg/mL +/- 1,274.4109 µg/mL		Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 **Purity** 99%	(Lot 190814JLM)	2,523.5 µg/mL	+/- 14.8093 µg/mL +/- 124.8483 µg/mL +/- 127.9520 µg/mL		Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 **Purity** 99%	(Lot 1012019)	25,164.0 µg/mL	+/- 147.3408 µg/mL +/- 1,244.9310 µg/mL +/- 1,275.8813 µg/mL		Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 **Purity** 99%	(Lot SHBD2922V)	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 124.2794 µg/mL +/- 127.3689 µg/mL		Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 **Purity** 99%	(Lot SHBK4786)	63,024.5 µg/mL	+/- 369.0033 µg/mL +/- 3,117.9899 µg/mL +/- 3,195.5065 µg/mL		Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 **Purity** 98%	(Lot BCBL0537V)	5,009.8 µg/mL	+/- 29.3332 µg/mL +/- 247.8464 µg/mL +/- 254.0081 µg/mL		Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	2,516.6 µg/mL	+/- 14.7691 µg/mL +/- 124.5090 µg/mL +/- 127.6042 µg/mL		Gravimetric Unstressed Stressed

2807032
ID: VV_M_STD6_00161
Exp: 05/31/21 Prpd: SJN
STD 6

2807031
ID: VV_M_STD6_00160
Exp: 05/31/21 Prpd: SJN
STD 6

2807030
ID: VV_M_STD6_00159
Exp: 05/31/21 Prpd: SJN
STD 6

2807029
ID: VV_M_STD6_00158
Exp: 05/31/21 Prpd: SJN
STD 6

2807028
ID: VV_M_STD6_00157
Exp: 05/31/21 Prpd: SJN
STD 6

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 98%	(Lot 877605-12)	2,510.3	µg/mL	+/- 14.7317 +/- 124.1938 +/- 127.2812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBH2102V)	2,516.0	µg/mL	+/- 14.7653 +/- 124.4773 +/- 127.5717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,523.0	µg/mL	+/- 14.8064 +/- 124.8236 +/- 127.9267	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

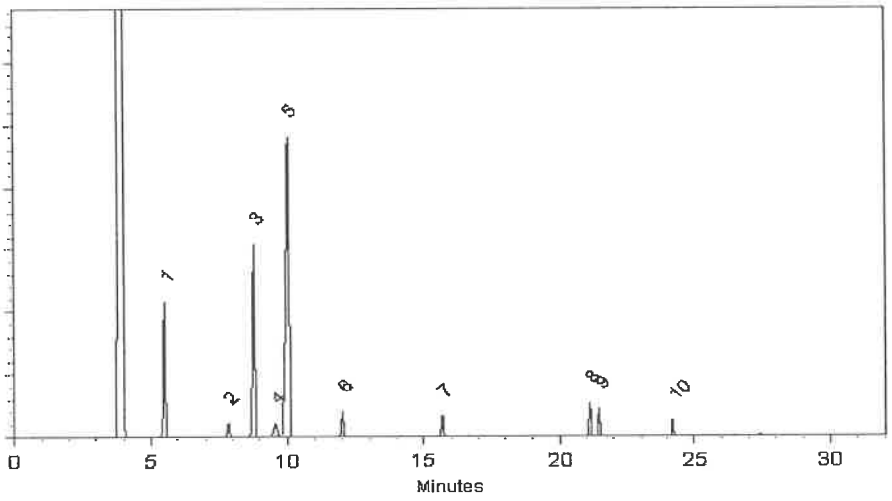
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 **Balance:** B707717271

Feng-Yim Lo - QC Analyst

Date Passed: 07-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_STD7_00145

SJN 3/27/20

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL1336)	5,015.6 µg/mL	+/- 29.3674 +/- 302.6333 +/- 303.3517	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 **Purity** 99%	(Lot 10129902)	2,508.8 µg/mL	+/- 14.7230 +/- 151.3803 +/- 151.7396	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 **Purity** 99%	(Lot MKCG6589)	5,015.2 µg/mL	+/- 29.3651 +/- 302.6092 +/- 303.3275	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBK5137)	2,512.0 µg/mL	+/- 14.7418 +/- 151.5733 +/- 151.9331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2696564
ID: VV_M_STD7_00136
Exp: 06/30/21 Prpd: SJN
STD 7

2696565
ID: VV_M_STD7_00137
Exp: 06/30/21 Prpd: SJN
STD 7

2696566
ID: VV_M_STD7_00138
Exp: 06/30/21 Prpd: SJN
STD 7

2696567
ID: VV_M_STD7_00139
Exp: 06/30/21 Prpd: SJN
STD 7

2696568
ID: VV_M_STD7_00140
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STD 7

2696569
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STD 7

2696570
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Exp: 06/30/21 Prpd: SJN
STD 7

2696571
ID: VV_M_STD7_00143
Exp: 06/30/21 Prpd: SJN
STD 7

2696572
ID: VV_M_STD7_00144
Exp: 06/30/21 Prpd: SJN
STD 7

2696573
ID: VV_M_STD7_00145
Exp: 06/30/21 Prpd: SJN
STD 7

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

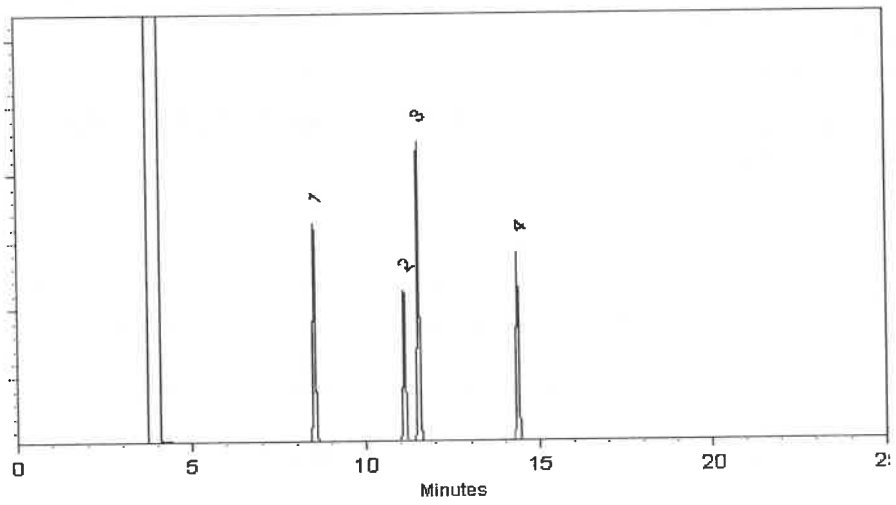
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 22-Dec-2019 **Balance:** B442140311

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_STD7_00152

S/N 7/29/20

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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL1336)	5,015.6 µg/mL	+/- 29.3674 +/- 302.6333 +/- 303.3517	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 **Purity** 99%	(Lot 10129902)	2,508.8 µg/mL	+/- 14.7230 +/- 151.3803 +/- 151.7396	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 **Purity** 99%	(Lot MKCG6589)	5,015.2 µg/mL	+/- 29.3651 +/- 302.6092 +/- 303.3275	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBK5137)	2,512.0 µg/mL	+/- 14.7418 +/- 151.5733 +/- 151.9331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2832531
ID: VV_M_STD7_00155
Exp: 06/30/21 Prpd: SJN
STD 7

2832530
ID: VV_M_STD7_00154
Exp: 06/30/21 Prpd: SJN
STD 7

2832529
ID: VV_M_STD7_00153
Exp: 06/30/21 Prpd: SJN
STD 7

2832528
ID: VV_M_STD7_00152
Exp: 06/30/21 Prpd: SJN
STD 7

2832527
ID: VV_M_STD7_00151
Exp: 06/30/21 Prpd: SJN
STD 7

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

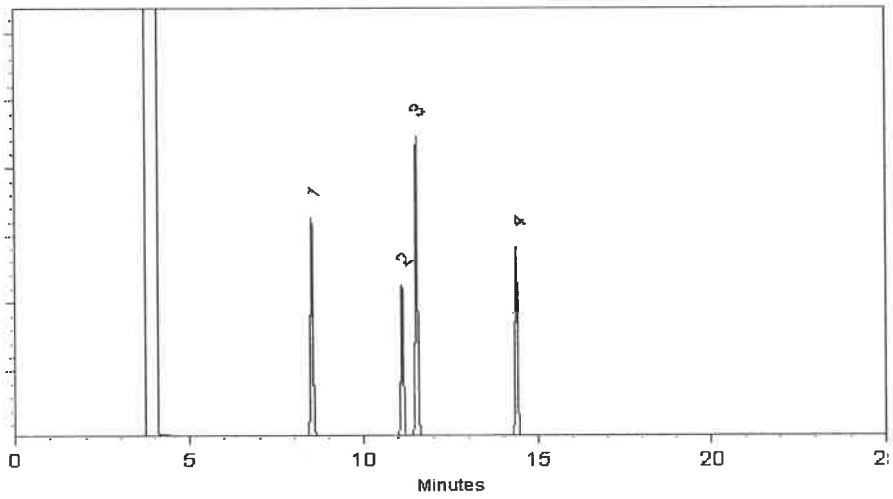
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 22-Dec-2019 **Balance:** B442140311

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_VINYLACE_00310

SJN 9/13/21

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0160321

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 **Purity** 99% (Lot 192709KJ)	5,040.0 µg/mL	+/- 29.5103 µg/mL +/- 304.1056 µg/mL +/- 304.8275 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2883752
ID: VV_M_VINYLACE_00312
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883751
ID: VV_M_VINYLACE_00311
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883750
ID: VV_M_VINYLACE_00310
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883749
ID: VV_M_VINYLACE_00309
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883748
ID: VV_M_VINYLACE_00308
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

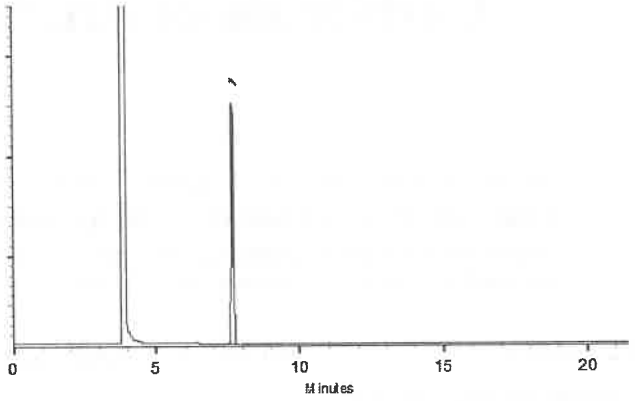
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 28-Apr-2020 **Balance:** B707717271

Feng-Yen Lo - QC Analyst

Date Passed: 30-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Reagent

VV_M_VINYLACE_00312

SJN 9/13/21

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Catalog No. : 569724 **Lot No.:** A0160321

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 **Purity** 99% (Lot 192709KJ)	5,040.0 µg/mL	+/- 29.5103 µg/mL +/- 304.1056 µg/mL +/- 304.8275 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2883752
ID: VV_M_VINYLACE_00312
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883751
ID: VV_M_VINYLACE_00311
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883750
ID: VV_M_VINYLACE_00310
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883749
ID: VV_M_VINYLACE_00309
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883748
ID: VV_M_VINYLACE_00308
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

Tech Tips:

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Rtx-502.2 (cat.#10910)

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hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
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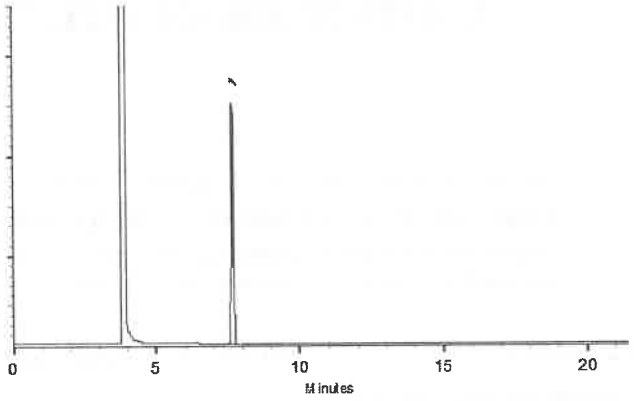
Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 28-Apr-2020 **Balance:** B707717271

Feng-Yen Lo - QC Analyst

Date Passed: 30-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Method 8260D Low Level

Volatile Organic Compounds (GC/MS) by Method 8260D Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
GW-110620-BE-019	240-140187-1	110	103	98
GW-110620-BE-019	240-140187-1	106	103	93
GW-110620-BE-020	240-140187-2	105	104	98
GW-110620-BE-020	240-140187-2	107	103	98
GW-110620-BE-021	240-140187-3	104	103	95
GW-110620-BE-021	240-140187-3	109	104	96
GW-110620-BE-022	240-140187-4	103	103	99
GW-110620-BE-022	240-140187-4	106	102	97
GW-110620-BE-023	240-140187-5	104	102	96
GW-110620-BE-023	240-140187-5	104	104	97
GW-110620-BE-024	240-140187-6	103	102	96
GW-110920-BE-025	240-140187-7	108	102	100
GW-110920-BE-025	240-140187-7	106	104	98
GW-110920-BE-026	240-140187-8	108	103	96
GW-110920-BE-026	240-140187-8	107	104	96
GW-110920-BE-027	240-140187-9	105	101	98
GW-110920-BE-027	240-140187-9	106	102	96
GW-110920-BE-028	240-140187-10	108	104	99
GW-110920-BE-028	240-140187-10	106	103	97
GW-110920-BE-029	240-140187-11	106	104	96
GW-110920-BE-029	240-140187-11	106	103	96
GW-110920-BE-030	240-140187-12	103	101	97
GW-110920-BE-030	240-140187-12	105	101	97
GW-110920-BE-031	240-140187-13	100	102	96
GW-110920-BE-031	240-140187-13	102	102	95
GW-111020-BE-032	240-140187-14	103	103	96
GW-111020-BE-032	240-140187-14	104	103	96
GW-111020-BE-033	240-140187-15	110	104	95
GW-111020-BE-033	240-140187-15	105	104	96
GW-111120-BE-034	240-140187-16	103	102	95
GW-111120-BE-034	240-140187-16	105	103	95
GW-111120-BE-035	240-140187-17	104	101	96
GW-111120-BE-035	240-140187-17	105	101	96
GW-111120-BE-036	240-140187-18	110	102	97
GW-111120-BE-036	240-140187-18	105	104	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	79-120
TOL = Toluene-d8 (Surr)	79-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
GW-111120-BE-037	240-140187-19	106	102	99
GW-111120-BE-037	240-140187-19	104	103	93
TB-111220-BE-003	240-140187-20	104	102	96
TB-111220-BE-003	240-140187-20	104	103	95
GW-111220-BE-038	240-140187-21	110	104	96
GW-111220-BE-038	240-140187-21	92	97	100
GW-111220-BE-039	240-140187-22	106	102	99
GW-111220-BE-039	240-140187-22	110	94	95
GW-111220-BE-040	240-140187-23	109	104	98
GW-111220-BE-040	240-140187-23	108	96	101
GW-111220-BE-041	240-140187-24	107	102	100
GW-111220-BE-041	240-140187-24	98	92	102
GW-111220-BE-042	240-140187-25	108	104	100
GW-111220-BE-042	240-140187-25	101	97	102
GW-111220-BE-043	240-140187-26	108	102	98
GW-111220-BE-043	240-140187-26	99	95	103
	MB 310-299509/8	102	102	96
	MB 310-299687/7	104	94	98
	MB 310-299697/8	103	105	96
	MB 310-299701/8	105	102	98
	MB 310-299826/8	105	104	96
	LCS 310-299509/7	104	103	98
	LCS 310-299509/32	106	105	98
	LCS 310-299687/5	109	101	95
	LCS 310-299687/6	109	94	105
	LCS 310-299697/6	105	104	96
	LCS 310-299697/7	104	104	96
	LCS 310-299701/6	105	103	99
	LCS 310-299701/7	102	104	94
	LCS 310-299826/6	107	103	96
	LCS 310-299826/7	104	103	97
GW-110920-BE-028 MS	240-140187-10 MS	106	104	99
GW-110920-BE-028 MS	240-140187-10 MS	105	106	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	79-120
TOL = Toluene-d8 (Surr)	79-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
GW-111120-BE-036 MS	240-140187-18 MS	108	103	98
GW-110920-BE-028 MSD	240-140187-10 MSD	106	105	98
GW-110920-BE-028 MSD	240-140187-10 MSD	107	105	97
GW-111120-BE-036 MSD	240-140187-18 MSD	108	105	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	79-120
TOL = Toluene-d8 (Surr)	79-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8229.D

Lab ID: LCS 310-299509/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Bromomethane	10.0	4.64	46	22-150	
Chloroethane	10.0	8.27	83	61-139	
Chloromethane	10.0	8.91	89	48-150	
Vinyl chloride	10.0	8.00	80	65-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8231.D

Lab ID: LCS 310-299509/32 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.6	108	70-129	
1,1,2,2-Tetrachloroethane	20.0	17.9	90	66-129	
1,1,2-Trichloroethane	20.0	18.1	91	68-128	
1,1-Dichloroethane	20.0	21.5	108	71-131	
1,1-Dichloroethene	20.0	21.2	106	64-137	
1,2-Dichloroethane	20.0	23.6	118	72-128	
1,2-Dichloropropane	20.0	20.2	101	71-130	
2-Hexanone	40.0	38.1	95	56-138	
Acetone	40.0	41.3	103	50-150	
Benzene	20.0	20.1	101	73-127	
Bromoform	20.0	14.9	75	58-125	
Carbon disulfide	20.0	23.1	115	58-140	
Carbon tetrachloride	20.0	20.8	104	66-136	
Chlorobenzene	20.0	18.6	93	72-124	
Chloroform	20.0	19.7	99	72-125	
cis-1,2-Dichloroethene	20.0	19.5	97	71-130	
cis-1,3-Dichloropropene	20.0	18.6	93	69-122	
Dichlorobromomethane	20.0	19.6	98	70-122	
Ethylbenzene	20.0	20.0	100	73-127	
m-Xylene & p-Xylene	20.0	19.0	95	72-128	
2-Butanone (MEK)	40.0	42.3	106	49-150	
4-Methyl-2-pentanone (MIBK)	40.0	38.2	95	60-135	
Methylene Chloride	20.0	19.0	95	48-150	
o-Xylene	20.0	18.4	92	70-128	
Styrene	20.0	17.7	89	69-127	
Tetrachloroethene	20.0	18.5	93	68-135	
Toluene	20.0	18.5	92	71-126	
trans-1,2-Dichloroethene	20.0	21.2	106	69-132	
trans-1,3-Dichloropropene	20.0	16.5	82	65-123	
Trichloroethene	20.0	20.3	102	71-130	
Xylenes, Total	40.0	37.4	94	70-128	
Chlorodibromomethane	20.0	16.5	82	66-126	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H4277.D

Lab ID: LCS 310-299687/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.6	93	70-129	
1,1,2,2-Tetrachloroethane	20.0	20.3	101	66-129	
1,1,2-Trichloroethane	20.0	20.3	101	68-128	
1,1-Dichloroethane	20.0	16.8	84	71-131	
1,1-Dichloroethene	20.0	14.7	74	64-137	
1,2-Dichloroethane	20.0	20.7	103	72-128	
1,2-Dichloropropane	20.0	18.0	90	71-130	
2-Hexanone	40.0	39.3	98	56-138	
Acetone	40.0	37.5	94	50-150	
Benzene	20.0	18.7	94	73-127	
Bromoform	20.0	21.0	105	58-125	
Carbon tetrachloride	20.0	20.4	102	66-136	
Chlorobenzene	20.0	18.4	92	72-124	
Chloroform	20.0	16.6	83	72-125	
cis-1,2-Dichloroethene	20.0	17.6	88	71-130	
Dichlorobromomethane	20.0	18.8	94	70-122	
Ethylbenzene	20.0	19.5	98	73-127	
m-Xylene & p-Xylene	20.0	19.5	97	72-128	
2-Butanone (MEK)	40.0	35.6	89	49-150	
4-Methyl-2-pentanone (MIBK)	40.0	42.0	105	60-135	
Methylene Chloride	20.0	14.5	73	48-150	
o-Xylene	20.0	20.7	103	70-128	
Styrene	20.0	19.8	99	69-127	
Tetrachloroethene	20.0	19.5	98	68-135	
Toluene	20.0	17.6	88	71-126	
trans-1,2-Dichloroethene	20.0	15.4	77	69-132	
Trichloroethene	20.0	18.4	92	71-130	
Xylenes, Total	40.0	40.2	101	70-128	
Chlorodibromomethane	20.0	20.2	101	66-126	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H4278.D

Lab ID: LCS 310-299687/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Bromomethane	20.0	20.3	102	22-150	
Chloroethane	20.0	19.2	96	61-139	
Chloromethane	20.0	19.3	96	48-150	
Vinyl chloride	20.0	18.5	93	65-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8260.D

Lab ID: LCS 310-299697/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.8	104	70-129	
1,1,2,2-Tetrachloroethane	20.0	19.1	96	66-129	
1,1,2-Trichloroethane	20.0	19.5	98	68-128	
1,1-Dichloroethane	20.0	21.3	107	71-131	
1,1-Dichloroethene	20.0	20.4	102	64-137	
1,2-Dichloroethane	20.0	23.8	119	72-128	
1,2-Dichloropropane	20.0	20.3	101	71-130	
2-Hexanone	40.0	42.3	106	56-138	
Acetone	40.0	48.4	121	50-150	
Benzene	20.0	20.0	100	73-127	
Bromoform	20.0	14.9	75	58-125	
Carbon disulfide	20.0	22.0	110	58-140	
Carbon tetrachloride	20.0	19.7	98	66-136	
Chlorobenzene	20.0	18.3	91	72-124	
Chloroform	20.0	19.9	100	72-125	
cis-1,3-Dichloropropene	20.0	18.2	91	69-122	
Dichlorobromomethane	20.0	19.4	97	70-122	
Ethylbenzene	20.0	19.7	99	73-127	
m-Xylene & p-Xylene	20.0	19.0	95	72-128	
2-Butanone (MEK)	40.0	43.8	110	49-150	
4-Methyl-2-pentanone (MIBK)	40.0	42.4	106	60-135	
Methylene Chloride	20.0	18.7	93	48-150	
o-Xylene	20.0	18.1	91	70-128	
Styrene	20.0	17.7	89	69-127	
Tetrachloroethene	20.0	18.0	90	68-135	
Toluene	20.0	18.0	90	71-126	
trans-1,2-Dichloroethene	20.0	20.5	103	69-132	
trans-1,3-Dichloropropene	20.0	15.8	79	65-123	
Trichloroethene	20.0	20.5	103	71-130	
Xylenes, Total	40.0	37.1	93	70-128	
Chlorodibromomethane	20.0	16.8	84	66-126	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8261.D

Lab ID: LCS 310-299697/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Bromomethane	10.0	3.82	38	22-150	
Chloromethane	10.0	8.45	85	48-150	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8291.D

Lab ID: LCS 310-299701/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	20.0	19.6	98	71-130	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8321.D

Lab ID: LCS 310-299826/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.4	102	70-129	
1,1,2,2-Tetrachloroethane	20.0	18.0	90	66-129	
1,1,2-Trichloroethane	20.0	18.9	94	68-128	
1,1-Dichloroethane	20.0	21.1	106	71-131	
1,1-Dichloroethene	20.0	20.1	100	64-137	
1,2-Dichloroethane	20.0	24.0	120	72-128	
1,2-Dichloropropane	20.0	20.2	101	71-130	
2-Hexanone	40.0	37.8	94	56-138	
Acetone	40.0	46.0	115	50-150	
Benzene	20.0	19.7	98	73-127	
Bromoform	20.0	14.2	71	58-125	
Carbon disulfide	20.0	22.0	110	58-140	
Carbon tetrachloride	20.0	20.1	100	66-136	
Chlorobenzene	20.0	17.8	89	72-124	
Chloroform	20.0	19.1	95	72-125	
cis-1,2-Dichloroethene	20.0	19.5	97	71-130	
cis-1,3-Dichloropropene	20.0	18.1	91	69-122	
Dichlorobromomethane	20.0	19.5	97	70-122	
Ethylbenzene	20.0	18.8	94	73-127	
m-Xylene & p-Xylene	20.0	18.0	90	72-128	
2-Butanone (MEK)	40.0	41.4	103	49-150	
4-Methyl-2-pentanone (MIBK)	40.0	38.6	96	60-135	
Methylene Chloride	20.0	18.7	94	48-150	
o-Xylene	20.0	17.7	88	70-128	
Styrene	20.0	16.9	84	69-127	
Tetrachloroethene	20.0	17.5	87	68-135	
Toluene	20.0	17.9	89	71-126	
trans-1,2-Dichloroethene	20.0	20.7	103	69-132	
trans-1,3-Dichloropropene	20.0	15.6	78	65-123	
Trichloroethene	20.0	20.4	102	71-130	
Xylenes, Total	40.0	35.7	89	70-128	
Chlorodibromomethane	20.0	16.3	82	66-126	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8322.D

Lab ID: LCS 310-299826/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Bromomethane	10.0	3.96	40	22-150	
Chloroethane	10.0	8.20	82	61-139	
Chloromethane	10.0	8.11	81	48-150	
Vinyl chloride	10.0	8.07	81	65-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8253.D

Lab ID: 240-140187-10 MS Client ID: GW-110920-BE-028 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	1.0 U	5.39	54	52-129	
1,1,2,2-Tetrachloroethane	10.0	0.50 U	7.96	80	51-140	
1,1,2-Trichloroethane	10.0	0.50 U	7.37	74	50-142	
1,1-Dichloroethane	10.0	4.6	10.8	63	58-131	
1,1-Dichloroethene	10.0	20	22.9	29	52-137	F1
1,2-Dichloroethane	10.0	1.0 U	8.71	87	51-138	
1,2-Dichloropropane	10.0	1.0 U	7.16	72	58-134	
2-Hexanone	20.0	10 U	16.2	81	49-142	
Acetone	20.0	10 U	15.9	79	37-150	
Benzene	10.0	0.67	6.68	60	54-128	
Bromoform	10.0	5.0 U	5.56	56	40-139	
Carbon disulfide	10.0	1.0 U	5.46	55	40-140	
Carbon tetrachloride	10.0	2.0 U	5.11	51	47-136	
Chlorobenzene	10.0	1.0 U	6.88	69	49-135	
Chloroform	10.0	3.0 U	6.88	69	55-131	
cis-1,3-Dichloropropene	10.0	0.50 U	6.29	63	45-131	
Dichlorobromomethane	10.0	1.0 U	7.32	73	50-135	
Ethylbenzene	10.0	1.0 U	6.41	64	40-138	
m-Xylene & p-Xylene	10.0	2.0 U	6.84	68	40-140	
2-Butanone (MEK)	20.0	10 U	16.1	80	47-150	
4-Methyl-2-pentanone (MIBK)	20.0	10 U	16.1	81	51-144	
Methylene Chloride	10.0	1.0 U	6.44	64	43-150	
o-Xylene	10.0	1.0 U	6.61	66	42-140	
Styrene	10.0	1.0 U	6.27	63	44-138	
Tetrachloroethene	10.0	1.0 U	4.93	49	43-135	
Toluene	10.0	1.0 U	6.54	65	44-136	
trans-1,2-Dichloroethene	10.0	64	65.3	13	52-132	4
trans-1,3-Dichloropropene	10.0	0.50 U	5.65	56	43-133	
Trichloroethene	10.0	1.0 U	6.10	61	49-130	
Xylenes, Total	20.0	3.0 U	13.5	67	40-140	
Chlorodibromomethane	10.0	2.0 U	6.41	64	45-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8314.D

Lab ID: 240-140187-10 MS Client ID: GW-110920-BE-028 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	1000	4200	4990	83	55-131	4

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8328.D

Lab ID: 240-140187-18 MS Client ID: GW-111120-BE-036 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	400	4.5 J	437	108	52-129	
1,1,2,2-Tetrachloroethane	400	10 U	374	93	51-140	
1,1,2-Trichloroethane	400	10 U	387	97	50-142	
1,1-Dichloroethane	400	38	474	109	58-131	
1,1-Dichloroethene	400	12 J	439	107	52-137	
1,2-Dichloroethane	400	20 U	483	121	51-138	
1,2-Dichloropropane	400	20 U	413	103	58-134	
2-Hexanone	800	200 U	802	100	49-142	
Acetone	800	200 U	794	99	37-150	
Benzene	400	10 U	411	103	54-128	
Bromoform	400	100 U	291	73	40-139	
Carbon disulfide	400	20 U	469	117	40-140	
Carbon tetrachloride	400	40 U	417	104	47-136	
Chlorobenzene	400	20 U	375	94	49-135	
Chloroform	400	60 U	409	102	55-131	
cis-1,2-Dichloroethene	400	2200	2710	133	55-131	4
cis-1,3-Dichloropropene	400	10 U	371	93	45-131	
Dichlorobromomethane	400	20 U	396	99	50-135	
Ethylbenzene	400	20 U	400	100	40-138	
m-Xylene & p-Xylene	400	40 U	383	96	40-140	
2-Butanone (MEK)	800	200 U	872	109	47-150	
4-Methyl-2-pentanone (MIBK)	800	200 U	807	101	51-144	
Methylene Chloride	400	20 U	374	93	43-150	
o-Xylene	400	20 U	368	92	42-140	
Styrene	400	20 U	353	88	44-138	
Tetrachloroethene	400	20 U	374	94	43-135	
Toluene	400	20 U	375	94	44-136	
trans-1,2-Dichloroethene	400	15 J	443	107	52-132	
trans-1,3-Dichloropropene	400	10 U	334	83	43-133	
Trichloroethene	400	120	554	108	49-130	
Xylenes, Total	800	60 U	751	94	40-140	
Chlorodibromomethane	400	40 U	338	85	45-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8254.D

Lab ID: 240-140187-10 MSD Client ID: GW-110920-BE-028 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	6.08	61	12	22	52-129	
1,1,2,2-Tetrachloroethane	10.0	8.78	88	10	22	51-140	
1,1,2-Trichloroethane	10.0	7.88	79	7	24	50-142	
1,1-Dichloroethane	10.0	11.3	68	5	24	58-131	
1,1-Dichloroethene	10.0	22.4	24	2	23	52-137	F1
1,2-Dichloroethane	10.0	9.27	93	6	20	51-138	
1,2-Dichloropropane	10.0	7.60	76	6	26	58-134	
2-Hexanone	20.0	16.5	82	2	24	49-142	
Acetone	20.0	16.5	83	4	29	37-150	
Benzene	10.0	7.30	66	9	21	54-128	
Bromoform	10.0	6.10	61	9	22	40-139	
Carbon disulfide	10.0	5.57	56	2	35	40-140	
Carbon tetrachloride	10.0	5.01	50	2	23	47-136	
Chlorobenzene	10.0	7.19	72	5	21	49-135	
Chloroform	10.0	7.24	72	5	23	55-131	
cis-1,3-Dichloropropene	10.0	6.83	68	8	21	45-131	
Dichlorobromomethane	10.0	7.73	77	6	24	50-135	
Ethylbenzene	10.0	6.93	69	8	21	40-138	
m-Xylene & p-Xylene	10.0	7.49	75	9	23	40-140	
2-Butanone (MEK)	20.0	17.6	88	9	24	47-150	
4-Methyl-2-pentanone (MIBK)	20.0	17.2	86	6	20	51-144	
Methylene Chloride	10.0	7.09	71	10	25	43-150	
o-Xylene	10.0	7.17	72	8	22	42-140	
Styrene	10.0	6.79	68	8	22	44-138	
Tetrachloroethene	10.0	5.26	53	6	23	43-135	
Toluene	10.0	6.85	69	5	22	44-136	
trans-1,2-Dichloroethene	10.0	63.5	-5	3	25	52-132	4
trans-1,3-Dichloropropene	10.0	6.16	62	9	23	43-133	
Trichloroethene	10.0	6.49	65	6	21	49-130	
Xylenes, Total	20.0	14.7	73	9	23	40-140	
Chlorodibromomethane	10.0	6.68	67	4	26	45-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8315.D

Lab ID: 240-140187-10 MSD Client ID: GW-110920-BE-028 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	1000	4810	66	4	23	55-131	4

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8329.D

Lab ID: 240-140187-18 MSD Client ID: GW-111120-BE-036 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	400	384	95	13	22	52-129	
1,1,2,2-Tetrachloroethane	400	347	87	7	22	51-140	
1,1,2-Trichloroethane	400	348	87	11	24	50-142	
1,1-Dichloroethane	400	417	95	13	24	58-131	
1,1-Dichloroethene	400	371	90	17	23	52-137	
1,2-Dichloroethane	400	435	109	10	20	51-138	
1,2-Dichloropropane	400	358	90	14	26	58-134	
2-Hexanone	800	749	94	7	24	49-142	
Acetone	800	806	101	2	29	37-150	
Benzene	400	358	89	14	21	54-128	
Bromoform	400	282	70	3	22	40-139	
Carbon disulfide	400	390	98	18	35	40-140	
Carbon tetrachloride	400	365	91	13	23	47-136	
Chlorobenzene	400	331	83	13	21	49-135	
Chloroform	400	358	90	13	23	55-131	
cis-1,2-Dichloroethene	400	2350	45	14	23	55-131	4
cis-1,3-Dichloropropene	400	341	85	8	21	45-131	
Dichlorobromomethane	400	350	88	12	24	50-135	
Ethylbenzene	400	350	87	13	21	40-138	
m-Xylene & p-Xylene	400	333	83	14	23	40-140	
2-Butanone (MEK)	800	807	101	8	24	47-150	
4-Methyl-2-pentanone (MIBK)	800	754	94	7	20	51-144	
Methylene Chloride	400	327	82	13	25	43-150	
o-Xylene	400	321	80	14	22	42-140	
Styrene	400	320	80	10	22	44-138	
Tetrachloroethene	400	319	80	16	23	43-135	
Toluene	400	327	82	14	22	44-136	
trans-1,2-Dichloroethene	400	376	90	16	25	52-132	
trans-1,3-Dichloropropene	400	300	75	11	23	43-133	
Trichloroethene	400	474	88	16	21	49-130	
Xylenes, Total	800	654	82	14	23	40-140	
Chlorodibromomethane	400	312	78	8	26	45-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Lab File ID: c8232.D Lab Sample ID: MB 310-299509/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: Calvin Date Analyzed: 11/18/2020 07:19

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 310-299509/7	c8229.D	11/18/2020 06:06
	LCS 310-299509/32	c8231.D	11/18/2020 06:54
GW-110620-BE-019	240-140187-1	c8233.D	11/18/2020 07:43
GW-110620-BE-020	240-140187-2	c8234.D	11/18/2020 08:07
GW-110620-BE-021	240-140187-3	c8235.D	11/18/2020 08:31
GW-110620-BE-022	240-140187-4	c8236.D	11/18/2020 08:56
GW-110620-BE-023	240-140187-5	c8237.D	11/18/2020 09:20
GW-110620-BE-024	240-140187-6	c8238.D	11/18/2020 09:44
GW-110920-BE-025	240-140187-7	c8239.D	11/18/2020 10:09
GW-110920-BE-026	240-140187-8	c8240.D	11/18/2020 10:33
GW-110920-BE-027	240-140187-9	c8241.D	11/18/2020 10:58
GW-110920-BE-028	240-140187-10	c8242.D	11/18/2020 11:22
GW-110920-BE-029	240-140187-11	c8243.D	11/18/2020 11:47
GW-110920-BE-030	240-140187-12	c8244.D	11/18/2020 12:12
GW-110920-BE-031	240-140187-13	c8245.D	11/18/2020 12:36
GW-111020-BE-032	240-140187-14	c8246.D	11/18/2020 13:01
GW-111020-BE-033	240-140187-15	c8247.D	11/18/2020 13:26
GW-111120-BE-035	240-140187-17	c8249.D	11/18/2020 14:14
GW-111120-BE-036	240-140187-18	c8250.D	11/18/2020 14:39
GW-111120-BE-037	240-140187-19	c8251.D	11/18/2020 15:03
TB-111220-BE-003	240-140187-20	c8252.D	11/18/2020 15:28
GW-110920-BE-028 MS	240-140187-10 MS	c8253.D	11/18/2020 15:52
GW-110920-BE-028 MSD	240-140187-10 MSD	c8254.D	11/18/2020 16:17

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Lab File ID: c8262.D Lab Sample ID: MB 310-299697/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: Calvin Date Analyzed: 11/18/2020 19:34

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 310-299697/6	c8260.D	11/18/2020 18:45
	LCS 310-299697/7	c8261.D	11/18/2020 19:09
GW-111220-BE-038	240-140187-21	c8263.D	11/18/2020 19:59
GW-111220-BE-039	240-140187-22	c8264.D	11/18/2020 20:23
GW-111220-BE-040	240-140187-23	c8265.D	11/18/2020 20:48
GW-111220-BE-041	240-140187-24	c8266.D	11/18/2020 21:12
GW-111220-BE-042	240-140187-25	c8267.D	11/18/2020 21:37
GW-111220-BE-043	240-140187-26	c8268.D	11/18/2020 22:01

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Lab File ID: H4279.D Lab Sample ID: MB 310-299687/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: Hobbes Date Analyzed: 11/19/2020 03:13

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 310-299687/5	H4277.D	11/19/2020 02:28
	LCS 310-299687/6	H4278.D	11/19/2020 02:51
GW-111220-BE-040	240-140187-23	H4293.D	11/19/2020 08:26
GW-111220-BE-038	240-140187-21	H4295.D	11/19/2020 09:10
GW-111220-BE-039	240-140187-22	H4296.D	11/19/2020 09:33
GW-111220-BE-041	240-140187-24	H4297.D	11/19/2020 09:55
GW-111220-BE-042	240-140187-25	H4298.D	11/19/2020 10:17
GW-111220-BE-043	240-140187-26	H4299.D	11/19/2020 10:40

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Lab File ID: c8293.D Lab Sample ID: MB 310-299701/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: Calvin Date Analyzed: 11/19/2020 07:03

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 310-299701/6	c8291.D	11/19/2020 06:13
	LCS 310-299701/7	c8292.D	11/19/2020 06:38
TB-111220-BE-003	240-140187-20	c8294.D	11/19/2020 07:27
GW-110620-BE-022	240-140187-4	c8295.D	11/19/2020 07:52
GW-110620-BE-023	240-140187-5	c8296.D	11/19/2020 08:17
GW-110920-BE-027	240-140187-9	c8297.D	11/19/2020 08:41
GW-110920-BE-030	240-140187-12	c8298.D	11/19/2020 09:06
GW-110920-BE-031	240-140187-13	c8299.D	11/19/2020 09:30
GW-111020-BE-032	240-140187-14	c8300.D	11/19/2020 09:55
GW-111120-BE-034	240-140187-16	c8301.D	11/19/2020 10:19
GW-111120-BE-035	240-140187-17	c8302.D	11/19/2020 10:44
GW-111120-BE-037	240-140187-19	c8303.D	11/19/2020 11:09
GW-110620-BE-020	240-140187-2	c8304.D	11/19/2020 11:33
GW-110620-BE-021	240-140187-3	c8305.D	11/19/2020 11:58
GW-110620-BE-019	240-140187-1	c8307.D	11/19/2020 12:46
GW-110920-BE-025	240-140187-7	c8308.D	11/19/2020 13:11
GW-110920-BE-026	240-140187-8	c8310.D	11/19/2020 14:00
GW-110920-BE-028	240-140187-10	c8311.D	11/19/2020 14:25
GW-110920-BE-029	240-140187-11	c8312.D	11/19/2020 14:49
GW-111020-BE-033	240-140187-15	c8313.D	11/19/2020 15:14
GW-110920-BE-028 MS	240-140187-10 MS	c8314.D	11/19/2020 15:39
GW-110920-BE-028 MSD	240-140187-10 MSD	c8315.D	11/19/2020 16:04

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140187-1

SDG No.:

Lab File ID: c8323.D Lab Sample ID: MB 310-299826/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: Calvin Date Analyzed: 11/19/2020 19:20

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 310-299826/6	c8321.D	11/19/2020 18:31
	LCS 310-299826/7	c8322.D	11/19/2020 18:55
GW-111120-BE-034	240-140187-16	c8326.D	11/20/2020 03:45
GW-111120-BE-036	240-140187-18	c8327.D	11/20/2020 04:09
GW-111120-BE-036 MS	240-140187-18 MS	c8328.D	11/20/2020 04:34
GW-111120-BE-036 MSD	240-140187-18 MSD	c8329.D	11/20/2020 04:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c5281.D BFB Injection Date: 10/01/2020

Instrument ID: Calvin BFB Injection Time: 23:45

Analysis Batch No.: 293913

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	122.0
96	5 - 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.0
174	50 - 200% of m/z 95	81.9
175	5 - 9% of m/z 174	7.6
176	95 -105% of m/z 174	97.0
177	5 - 10% of m/z 176	6.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-293913/24	c5282.D	10/02/2020	0:09
	STD2 310-293913/25	c5283.D	10/02/2020	0:33
	STD3 310-293913/26	c5284.D	10/02/2020	0:57
	STD4 310-293913/27	c5285.D	10/02/2020	1:21
	STD5 310-293913/28	c5286.D	10/02/2020	1:45
	STD6 310-293913/29	c5287.D	10/02/2020	2:09
	STD7 310-293913/30	c5288.D	10/02/2020	2:33
	STD8 310-293913/31	c5289.D	10/02/2020	2:57
	STD9 310-293913/32	c5290.D	10/02/2020	3:21
	STD10 310-293913/33	c5291.D	10/02/2020	3:45
	STD11 310-293913/34	c5292.D	10/02/2020	4:09
	STD12 310-293913/35	c5293.D	10/02/2020	4:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c5864.D BFB Injection Date: 10/13/2020

Instrument ID: Calvin BFB Injection Time: 07:51

Analysis Batch No.: 295162

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	122.6
96	5 - 9% of m/z 95	6.8
173	Less than 2% of m/z 174	1.1
174	50 - 200% of m/z 95	81.6
175	5 - 9% of m/z 174	7.1
176	95 -105% of m/z 174	96.2
177	5 - 10% of m/z 176	6.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-295162/3	c5865.D	10/13/2020	8:16
	STD2 310-295162/4	c5866.D	10/13/2020	8:40
	STD3 310-295162/5	c5867.D	10/13/2020	9:05
	STD4 310-295162/6	c5868.D	10/13/2020	9:29
	STD5 310-295162/7	c5869.D	10/13/2020	9:53
	STD6 310-295162/8	c5870.D	10/13/2020	10:17
	STD7 310-295162/9	c5871.D	10/13/2020	10:42
	ICIS 310-295162/10	c5872.D	10/13/2020	11:06
	STD9 310-295162/11	c5873.D	10/13/2020	11:30
	STD10 310-295162/12	c5874.D	10/13/2020	11:55
	STD11 310-295162/13	c5875.D	10/13/2020	12:19
	STD12 310-295162/14	c5876.D	10/13/2020	12:43
	ICV 310-295162/18	c5880.D	10/13/2020	14:20
	ICV 310-295162/19	c5881.D	10/13/2020	14:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c5902.D BFB Injection Date: 10/14/2020

Instrument ID: Calvin BFB Injection Time: 04:17

Analysis Batch No.: 295162

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	131.0
96	5 - 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.2
174	50 - 200% of m/z 95	76.3
175	5 - 9% of m/z 174	7.8
176	95 -105% of m/z 174	99.4
177	5 - 10% of m/z 176	7.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-295162/23	c5903.D	10/14/2020	4:42
	STD2 310-295162/24	c5904.D	10/14/2020	5:06
	STD3 310-295162/25	c5905.D	10/14/2020	5:31
	STD4 310-295162/26	c5906.D	10/14/2020	5:55
	STD5 310-295162/27	c5907.D	10/14/2020	6:19
	STD6 310-295162/28	c5908.D	10/14/2020	6:44
	ICV 310-295162/47	c5909.D	10/14/2020	7:09
	STD7 310-295162/29	c5910.D	10/14/2020	7:41
	STD8 310-295162/30	c5911.D	10/14/2020	8:05
	STD9 310-295162/31	c5912.D	10/14/2020	8:30
	STD10 310-295162/32	c5913.D	10/14/2020	8:54
	STD11 310-295162/33	c5914.D	10/14/2020	9:19
	STD12 310-295162/34	c5915.D	10/14/2020	9:44
	ICV 310-295162/38	c5919.D	10/14/2020	11:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c8225.D BFB Injection Date: 11/18/2020

Instrument ID: Calvin BFB Injection Time: 04:19

Analysis Batch No.: 299509

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	143.9
96	5 - 9% of m/z 95	7.1
173	Less than 2% of m/z 174	1.1
174	50 - 200% of m/z 95	69.5
175	5 - 9% of m/z 174	7.9
176	95 -105% of m/z 174	99.8
177	5 - 10% of m/z 176	6.4

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 310-299509/5	c8227.D	11/18/2020	5:07
	LCS 310-299509/7	c8229.D	11/18/2020	6:06
	CCV 310-299509/31	c8230.D	11/18/2020	6:30
	LCS 310-299509/32	c8231.D	11/18/2020	6:54
	MB 310-299509/8	c8232.D	11/18/2020	7:19
GW-110620-BE-019	240-140187-1	c8233.D	11/18/2020	7:43
GW-110620-BE-020	240-140187-2	c8234.D	11/18/2020	8:07
GW-110620-BE-021	240-140187-3	c8235.D	11/18/2020	8:31
GW-110620-BE-022	240-140187-4	c8236.D	11/18/2020	8:56
GW-110620-BE-023	240-140187-5	c8237.D	11/18/2020	9:20
GW-110620-BE-024	240-140187-6	c8238.D	11/18/2020	9:44
GW-110920-BE-025	240-140187-7	c8239.D	11/18/2020	10:09
GW-110920-BE-026	240-140187-8	c8240.D	11/18/2020	10:33
GW-110920-BE-027	240-140187-9	c8241.D	11/18/2020	10:58
GW-110920-BE-028	240-140187-10	c8242.D	11/18/2020	11:22
GW-110920-BE-029	240-140187-11	c8243.D	11/18/2020	11:47
GW-110920-BE-030	240-140187-12	c8244.D	11/18/2020	12:12
GW-110920-BE-031	240-140187-13	c8245.D	11/18/2020	12:36
GW-111020-BE-032	240-140187-14	c8246.D	11/18/2020	13:01
GW-111020-BE-033	240-140187-15	c8247.D	11/18/2020	13:26
GW-111120-BE-035	240-140187-17	c8249.D	11/18/2020	14:14
GW-111120-BE-036	240-140187-18	c8250.D	11/18/2020	14:39
GW-111120-BE-037	240-140187-19	c8251.D	11/18/2020	15:03
TB-111220-BE-003	240-140187-20	c8252.D	11/18/2020	15:28
GW-110920-BE-028 MS	240-140187-10 MS	c8253.D	11/18/2020	15:52
GW-110920-BE-028 MSD	240-140187-10 MSD	c8254.D	11/18/2020	16:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c8257.D BFB Injection Date: 11/18/2020

Instrument ID: Calvin BFB Injection Time: 17:30

Analysis Batch No.: 299697

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	145.6
96	5 - 9% of m/z 95	7.0
173	Less than 2% of m/z 174	1.0
174	50 - 200% of m/z 95	68.7
175	5 - 9% of m/z 174	7.2
176	95 -105% of m/z 174	99.1
177	5 - 10% of m/z 176	6.9

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 310-299697/4	c8258.D	11/18/2020	17:55
	CCV 310-299697/5	c8259.D	11/18/2020	18:20
	LCS 310-299697/6	c8260.D	11/18/2020	18:45
	LCS 310-299697/7	c8261.D	11/18/2020	19:09
	MB 310-299697/8	c8262.D	11/18/2020	19:34
GW-111220-BE-038	240-140187-21	c8263.D	11/18/2020	19:59
GW-111220-BE-039	240-140187-22	c8264.D	11/18/2020	20:23
GW-111220-BE-040	240-140187-23	c8265.D	11/18/2020	20:48
GW-111220-BE-041	240-140187-24	c8266.D	11/18/2020	21:12
GW-111220-BE-042	240-140187-25	c8267.D	11/18/2020	21:37
GW-111220-BE-043	240-140187-26	c8268.D	11/18/2020	22:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c8288.D BFB Injection Date: 11/19/2020

Instrument ID: Calvin BFB Injection Time: 05:00

Analysis Batch No.: 299701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	144.4
96	5 - 9% of m/z 95	6.4
173	Less than 2% of m/z 174	1.0
174	50 - 200% of m/z 95	69.2
175	5 - 9% of m/z 174	7.9
176	95 -105% of m/z 174	97.9
177	5 - 10% of m/z 176	6.9

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 310-299701/4	c8289.D	11/19/2020	5:24
	CCV 310-299701/5	c8290.D	11/19/2020	5:49
	LCS 310-299701/6	c8291.D	11/19/2020	6:13
	LCS 310-299701/7	c8292.D	11/19/2020	6:38
	MB 310-299701/8	c8293.D	11/19/2020	7:03
TB-111220-BE-003	240-140187-20	c8294.D	11/19/2020	7:27
GW-110620-BE-022	240-140187-4	c8295.D	11/19/2020	7:52
GW-110620-BE-023	240-140187-5	c8296.D	11/19/2020	8:17
GW-110920-BE-027	240-140187-9	c8297.D	11/19/2020	8:41
GW-110920-BE-030	240-140187-12	c8298.D	11/19/2020	9:06
GW-110920-BE-031	240-140187-13	c8299.D	11/19/2020	9:30
GW-111020-BE-032	240-140187-14	c8300.D	11/19/2020	9:55
GW-111120-BE-034	240-140187-16	c8301.D	11/19/2020	10:19
GW-111120-BE-035	240-140187-17	c8302.D	11/19/2020	10:44
GW-111120-BE-037	240-140187-19	c8303.D	11/19/2020	11:09
GW-110620-BE-020	240-140187-2	c8304.D	11/19/2020	11:33
GW-110620-BE-021	240-140187-3	c8305.D	11/19/2020	11:58
GW-110620-BE-019	240-140187-1	c8307.D	11/19/2020	12:46
GW-110920-BE-025	240-140187-7	c8308.D	11/19/2020	13:11
GW-110920-BE-026	240-140187-8	c8310.D	11/19/2020	14:00
GW-110920-BE-028	240-140187-10	c8311.D	11/19/2020	14:25
GW-110920-BE-029	240-140187-11	c8312.D	11/19/2020	14:49
GW-111020-BE-033	240-140187-15	c8313.D	11/19/2020	15:14
GW-110920-BE-028 MS	240-140187-10 MS	c8314.D	11/19/2020	15:39
GW-110920-BE-028 MSD	240-140187-10 MSD	c8315.D	11/19/2020	16:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: c8318.D BFB Injection Date: 11/19/2020

Instrument ID: Calvin BFB Injection Time: 17:17

Analysis Batch No.: 299826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	137.8
96	5 - 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.1
174	50 - 200% of m/z 95	72.6
175	5 - 9% of m/z 174	7.6
176	95 -105% of m/z 174	97.4
177	5 - 10% of m/z 176	6.9

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 310-299826/4	c8319.D	11/19/2020	17:42
	CCV 310-299826/5	c8320.D	11/19/2020	18:06
	LCS 310-299826/6	c8321.D	11/19/2020	18:31
	LCS 310-299826/7	c8322.D	11/19/2020	18:55
	MB 310-299826/8	c8323.D	11/19/2020	19:20
GW-111120-BE-034	240-140187-16	c8326.D	11/20/2020	3:45
GW-111120-BE-036	240-140187-18	c8327.D	11/20/2020	4:09
GW-111120-BE-036 MS	240-140187-18 MS	c8328.D	11/20/2020	4:34
GW-111120-BE-036 MSD	240-140187-18 MSD	c8329.D	11/20/2020	4:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: H3745.D BFB Injection Date: 11/09/2020

Instrument ID: Hobbes BFB Injection Time: 10:33

Analysis Batch No.: 298538

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	134.1
96	5 - 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.7
174	50 - 200% of m/z 95	74.6
175	5 - 9% of m/z 174	8.4
176	95 -105% of m/z 174	96.6
177	5 - 10% of m/z 176	6.7

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-298538/24	H3746.D	11/09/2020	10:55
	STD2 310-298538/25	H3747.D	11/09/2020	11:17
	STD3 310-298538/26	H3748.D	11/09/2020	11:39
	STD4 310-298538/27	H3749.D	11/09/2020	12:02
	STD5 310-298538/28	H3750.D	11/09/2020	12:24
	STD6 310-298538/29	H3751.D	11/09/2020	12:46
	STD7 310-298538/30	H3752.D	11/09/2020	13:08
	STD8 310-298538/31	H3753.D	11/09/2020	13:31
	STD9 310-298538/32	H3754.D	11/09/2020	13:53
	STD10 310-298538/33	H3755.D	11/09/2020	14:16
	STD11 310-298538/34	H3756.D	11/09/2020	14:38
	STD12 310-298538/35	H3757.D	11/09/2020	15:00
	ICV 310-298538/39	H3761.D	11/09/2020	16:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: H3725.D BFB Injection Date: 11/09/2020

Instrument ID: Hobbes BFB Injection Time: 02:54

Analysis Batch No.: 298538

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	143.6
96	5 - 9% of m/z 95	7.5
173	Less than 2% of m/z 174	1.1
174	50 - 200% of m/z 95	69.6
175	5 - 9% of m/z 174	8.4
176	95 -105% of m/z 174	99.1
177	5 - 10% of m/z 176	6.0

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-298538/4	H3726.D	11/09/2020	3:30
	STD2 310-298538/5	H3727.D	11/09/2020	3:52
	STD3 310-298538/6	H3728.D	11/09/2020	4:14
	STD4 310-298538/7	H3729.D	11/09/2020	4:36
	STD5 310-298538/8	H3730.D	11/09/2020	4:59
	STD6 310-298538/9	H3731.D	11/09/2020	5:21
	STD7 310-298538/10	H3732.D	11/09/2020	5:43
	ICIS 310-298538/11	H3733.D	11/09/2020	6:05
	STD9 310-298538/12	H3734.D	11/09/2020	6:28
	STD10 310-298538/13	H3735.D	11/09/2020	6:50
	STD11 310-298538/14	H3736.D	11/09/2020	7:12
	STD12 310-298538/15	H3737.D	11/09/2020	7:34
	ICV 310-298538/19	H3741.D	11/09/2020	9:04
	ICV 310-298538/20	H3742.D	11/09/2020	9:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: H3764.D BFB Injection Date: 11/10/2020

Instrument ID: Hobbes BFB Injection Time: 03:19

Analysis Batch No.: 298538

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	129.9
96	5 - 9% of m/z 95	7.4
173	Less than 2% of m/z 174	1.4
174	50 - 200% of m/z 95	77.0
175	5 - 9% of m/z 174	8.0
176	95 -105% of m/z 174	95.1
177	5 - 10% of m/z 176	7.0

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 310-298538/42	H3765.D	11/10/2020	3:51
	ICV 310-298538/43	H3766.D	11/10/2020	4:13
	ICV 310-298538/44	H3767.D	11/10/2020	4:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab File ID: H4274.D BFB Injection Date: 11/19/2020

Instrument ID: Hobbes BFB Injection Time: 01:21

Analysis Batch No.: 299687

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	128.3
96	5 - 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.8
174	50 - 200% of m/z 95	78.0
175	5 - 9% of m/z 174	7.3
176	95 -105% of m/z 174	95.4
177	5 - 10% of m/z 176	6.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 310-299687/3	H4275.D	11/19/2020	1:43
	CCV 310-299687/4	H4276.D	11/19/2020	2:06
	LCS 310-299687/5	H4277.D	11/19/2020	2:28
	LCS 310-299687/6	H4278.D	11/19/2020	2:51
	MB 310-299687/7	H4279.D	11/19/2020	3:13
GW-111220-BE-040	240-140187-23	H4293.D	11/19/2020	8:26
GW-111220-BE-038	240-140187-21	H4295.D	11/19/2020	9:10
GW-111220-BE-039	240-140187-22	H4296.D	11/19/2020	9:33
GW-111220-BE-041	240-140187-24	H4297.D	11/19/2020	9:55
GW-111220-BE-042	240-140187-25	H4298.D	11/19/2020	10:17
GW-111220-BE-043	240-140187-26	H4299.D	11/19/2020	10:40

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		157172	5.43	6571	6.10	119881	8.58
UPPER LIMIT		314344	5.93	13142	6.60	239762	9.08
LOWER LIMIT		78586	4.93	3286	5.60	59941	8.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 310-295162/18		180856	5.43	7388	6.10	138316	8.58
ICV 310-295162/19		163228	5.43	5747	6.10	122061	8.58
ICV 310-295162/47		180006	5.43	6103	6.11	135882	8.58
ICV 310-295162/38		164096	5.43	5353	6.10	124141	8.58
CCV 310-299509/5		181097	5.46	5872	6.12	131424	8.59
LCS 310-299509/7		199138	5.46	5696	6.11	140066	8.59
CCV 310-299509/31		185874	5.46	6706	6.11	135632	8.59
LCS 310-299509/32		187506	5.45	6027	6.11	132849	8.59
MB 310-299509/8		195643	5.46	5922	6.12	140268	8.59
240-140187-1	GW-110620-BE-019	193852	5.46	5850	6.11	138799	8.59
240-140187-2	GW-110620-BE-020	179845	5.46	5582	6.11	126227	8.59
240-140187-3	GW-110620-BE-021	178469	5.46	5076	6.12	125933	8.59
240-140187-4	GW-110620-BE-022	190510	5.46	6023	6.11	136747	8.59
240-140187-5	GW-110620-BE-023	175622	5.46	5427	6.12	125711	8.59
240-140187-6	GW-110620-BE-024	175986	5.46	5424	6.11	123819	8.59
240-140187-7	GW-110920-BE-025	173900	5.45	5053	6.11	123942	8.59
240-140187-8	GW-110920-BE-026	175507	5.45	5242	6.11	123329	8.59
240-140187-9	GW-110920-BE-027	170745	5.45	5315	6.11	123530	8.59
240-140187-10	GW-110920-BE-028	192936	5.45	6222	6.11	134081	8.59
240-140187-11	GW-110920-BE-029	189794	5.45	6292	6.11	136177	8.59
240-140187-12	GW-110920-BE-030	187460	5.45	5618	6.11	135184	8.59
240-140187-13	GW-110920-BE-031	168285	5.46	5606	6.12	121170	8.59
240-140187-14	GW-111020-BE-032	164906	5.46	5664	6.11	117280	8.59
240-140187-15	GW-111020-BE-033	192087	5.46	6117	6.11	134598	8.59
240-140187-17	GW-111120-BE-035	168865	5.46	5346	6.11	121929	8.59
240-140187-18	GW-111120-BE-036	172440	5.46	5499	6.11	124406	8.59
240-140187-19	GW-111120-BE-037	167858	5.46	5224	6.11	121578	8.59
240-140187-20	TB-111220-BE-003	181038	5.46	5599	6.12	129513	8.59

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		157172	5.43	6571	6.10	119881	8.58
UPPER LIMIT		314344	5.93	13142	6.60	239762	9.08
LOWER LIMIT		78586	4.93	3286	5.60	59941	8.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
240-140187-10 MS	GW-110920-BE-028 MS	190303	5.46	6725	6.11	136164	8.59
240-140187-10 MSD	GW-110920-BE-028 MSD	178142	5.46	6298	6.11	125726	8.59
CCV 310-299697/4		176716	5.45	6445	6.11	126245	8.59
CCV 310-299697/5		174948	5.46	5624	6.11	123273	8.59
LCS 310-299697/6		177723	5.45	6598	6.12	125759	8.59
LCS 310-299697/7		172338	5.45	6003	6.11	124479	8.59
MB 310-299697/8		173381	5.46	5705	6.12	121255	8.59
240-140187-21	GW-111220-BE-038	175045	5.46	6147	6.12	124392	8.59
240-140187-22	GW-111220-BE-039	183372	5.45	6365	6.12	133941	8.59
240-140187-23	GW-111220-BE-040	181792	5.46	5732	6.12	130075	8.59
240-140187-24	GW-111220-BE-041	198076	5.45	6898	6.12	139907	8.59
240-140187-25	GW-111220-BE-042	177943	5.46	5679	6.12	126653	8.59
240-140187-26	GW-111220-BE-043	178157	5.46			126729	8.59
CCV 310-299701/4		191276	5.46	6983	6.12	139235	8.59
CCV 310-299701/5		189421	5.46	6312	6.12	134960	8.59
LCS 310-299701/6		193416	5.46	6655	6.11	139456	8.59
LCS 310-299701/7		188999	5.45	6179	6.12	135658	8.59
240-140187-20	TB-111220-BE-003	168721	5.45	5440	6.11	122617	8.59
240-140187-4	GW-110620-BE-022	165829	5.46	5296	6.11	120186	8.59
240-140187-5	GW-110620-BE-023	181669	5.46	5516	6.11	129116	8.59
240-140187-9	GW-110920-BE-027	163901	5.46	5474	6.11	120701	8.59
240-140187-12	GW-110920-BE-030	166791	5.46	5047	6.12	120664	8.59
240-140187-13	GW-110920-BE-031	181665	5.45	5677	6.11	130144	8.59
240-140187-14	GW-111020-BE-032	165035	5.46	5339	6.11	117390	8.59
240-140187-16	GW-111120-BE-034	164822	5.46	5272	6.12	119087	8.59
240-140187-17	GW-111120-BE-035	165739	5.46	5013	6.11	119556	8.59
240-140187-19	GW-111120-BE-037	180641	5.46	5312	6.11	127712	8.59
240-140187-2	GW-110620-BE-020	167240	5.46	5422	6.12	118086	8.59

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		157172	5.43	6571	6.10	119881	8.58
UPPER LIMIT		314344	5.93	13142	6.60	239762	9.08
LOWER LIMIT		78586	4.93	3286	5.60	59941	8.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
240-140187-3	GW-110620-BE-021	165961	5.46	5170	6.11	118400	8.59
240-140187-1	GW-110620-BE-019	165768	5.46	5142	6.11	117946	8.59
240-140187-7	GW-110920-BE-025	164183	5.46	4999	6.11	117324	8.59
240-140187-8	GW-110920-BE-026	165554	5.45	5498	6.11	117109	8.59
240-140187-10	GW-110920-BE-028	165545	5.46	5502	6.12	116947	8.59
240-140187-11	GW-110920-BE-029	165682	5.45	5109	6.12	118535	8.59
240-140187-15	GW-111020-BE-033	181200	5.46	5523	6.11	126276	8.59
240-140187-10 MS	GW-110920-BE-028 MS	170600	5.46	5763	6.11	120417	8.59
CCV 310-299826/4		177479	5.46	6494	6.11	125754	8.59
CCV 310-299826/5		170570	5.46	5462	6.12	121479	8.59
LCS 310-299826/6		186428	5.46	6409	6.12	136393	8.59
LCS 310-299826/7		171438	5.46	5408	6.12	122890	8.59
MB 310-299826/8		167581	5.46	5522	6.11	119671	8.59
240-140187-16	GW-111120-BE-034	185012	5.45	5860	6.10	132439	8.59
240-140187-18	GW-111120-BE-036	185909	5.45	6213	6.11	132700	8.59
240-140187-18 MS	GW-111120-BE-036 MS	174533	5.45	6443	6.11	126183	8.59
240-140187-18 MSD	GW-111120-BE-036 MSD	194107	5.45	7022	6.11	138571	8.59

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		57005	11.27				
UPPER LIMIT		114010	11.77				
LOWER LIMIT		28503	10.77				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 310-295162/18		64862	11.27				
ICV 310-295162/19		57175	11.27				
ICV 310-295162/47		63774	11.27				
ICV 310-295162/38		58588	11.27				
CCV 310-299509/5		57790	11.28				
LCS 310-299509/7		61994	11.27				
CCV 310-299509/31		64256	11.27				
LCS 310-299509/32		61795	11.28				
MB 310-299509/8		62867	11.28				
240-140187-1	GW-110620-BE-019	61581	11.28				
240-140187-2	GW-110620-BE-020	56441	11.28				
240-140187-3	GW-110620-BE-021	57125	11.28				
240-140187-4	GW-110620-BE-022	60045	11.28				
240-140187-5	GW-110620-BE-023	55955	11.28				
240-140187-6	GW-110620-BE-024	55510	11.28				
240-140187-7	GW-110920-BE-025	54392	11.28				
240-140187-8	GW-110920-BE-026	55114	11.28				
240-140187-9	GW-110920-BE-027	54695	11.28				
240-140187-10	GW-110920-BE-028	59952	11.28				
240-140187-11	GW-110920-BE-029	61671	11.28				
240-140187-12	GW-110920-BE-030	60130	11.28				
240-140187-13	GW-110920-BE-031	53230	11.28				
240-140187-14	GW-111020-BE-032	53258	11.28				
240-140187-15	GW-111020-BE-033	61019	11.28				
240-140187-17	GW-111120-BE-035	54094	11.28				
240-140187-18	GW-111120-BE-036	54500	11.28				
240-140187-19	GW-111120-BE-037	53605	11.28				
240-140187-20	TB-111220-BE-003	57367	11.27				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		57005	11.27				
UPPER LIMIT		114010	11.77				
LOWER LIMIT		28503	10.77				
LAB SAMPLE ID	CLIENT SAMPLE ID						
240-140187-10 MS	GW-110920-BE-028 MS	62391	11.28				
240-140187-10 MSD	GW-110920-BE-028 MSD	58949	11.28				
CCV 310-299697/4		61458	11.28				
CCV 310-299697/5		54123	11.28				
LCS 310-299697/6		59783	11.28				
LCS 310-299697/7		56685	11.28				
MB 310-299697/8		54813	11.28				
240-140187-21	GW-111220-BE-038	56164	11.28				
240-140187-22	GW-111220-BE-039	62238	11.28				
240-140187-23	GW-111220-BE-040	58144	11.28				
240-140187-24	GW-111220-BE-041	61667	11.28				
240-140187-25	GW-111220-BE-042	56312	11.28				
240-140187-26	GW-111220-BE-043	56483	11.28				
CCV 310-299701/4		65919	11.28				
CCV 310-299701/5		61586	11.28				
LCS 310-299701/6		63862	11.28				
LCS 310-299701/7		61929	11.28				
240-140187-20	TB-111220-BE-003	54685	11.28				
240-140187-4	GW-110620-BE-022	53039	11.28				
240-140187-5	GW-110620-BE-023	57695	11.28				
240-140187-9	GW-110920-BE-027	53735	11.28				
240-140187-12	GW-110920-BE-030	52980	11.28				
240-140187-13	GW-110920-BE-031	56964	11.28				
240-140187-14	GW-111020-BE-032	52033	11.28				
240-140187-16	GW-111120-BE-034	53775	11.28				
240-140187-17	GW-111120-BE-035	53262	11.28				
240-140187-19	GW-111120-BE-037	57365	11.28				
240-140187-2	GW-110620-BE-020	52766	11.28				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		57005	11.27				
UPPER LIMIT		114010	11.77				
LOWER LIMIT		28503	10.77				
LAB SAMPLE ID	CLIENT SAMPLE ID						
240-140187-3	GW-110620-BE-021	52668	11.28				
240-140187-1	GW-110620-BE-019	53313	11.28				
240-140187-7	GW-110920-BE-025	51741	11.28				
240-140187-8	GW-110920-BE-026	51828	11.28				
240-140187-10	GW-110920-BE-028	52393	11.28				
240-140187-11	GW-110920-BE-029	52013	11.28				
240-140187-15	GW-111020-BE-033	56576	11.28				
240-140187-10 MS	GW-110920-BE-028 MS	56672	11.28				
CCV 310-299826/4		59183	11.28				
CCV 310-299826/5		55537	11.28				
LCS 310-299826/6		64371	11.28				
LCS 310-299826/7		55140	11.28				
MB 310-299826/8		53227	11.28				
240-140187-16	GW-111120-BE-034	59401	11.27				
240-140187-18	GW-111120-BE-036	59318	11.28				
240-140187-18 MS	GW-111120-BE-036 MS	59506	11.28				
240-140187-18 MSD	GW-111120-BE-036 MSD	65616	11.28				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-298538/11 Date Analyzed: 11/09/2020 06:05

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): H3733.D Heated Purge: (Y/N) N

Calibration ID: 16957

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		48408	2.98	77245	5.20	6070	5.89
UPPER LIMIT		96816	3.48	154490	5.70	12140	6.39
LOWER LIMIT		24204	2.48	38623	4.70	3035	5.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 310-298538/19		49196	2.98	82272	5.20	6803	5.90
ICV 310-298538/20		58587	2.98	78239	5.20	5240	5.89
ICV 310-298538/39		48543	2.98	66908	5.20	4596	5.89
ICV 310-298538/42		41091	2.97	73062	5.19	5571	5.88
ICV 310-298538/43		52531	2.98	74921	5.20	5346	5.89
ICV 310-298538/44		50238	2.98	72820	5.20	5257	5.89
CCV 310-299687/3				56885	5.20	5346	5.89
CCV 310-299687/4				54347	5.19	5213	5.89
LCS 310-299687/5				57166	5.20	5379	5.89
LCS 310-299687/6				57934	5.19	4648	5.89
MB 310-299687/7				58280	5.19	4961	5.89
240-140187-23	GW-111220-BE-040			56768	5.19	5034	5.89
240-140187-21	GW-111220-BE-038			55948	5.19	5152	5.89
240-140187-22	GW-111220-BE-039			55064	5.20	5105	5.89
240-140187-24	GW-111220-BE-041			57833	5.19	4207	5.89
240-140187-25	GW-111220-BE-042			56657	5.19	4287	5.89
240-140187-26	GW-111220-BE-043			59372	5.19	4592	5.89

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Sample No.: ICIS 310-298538/11 Date Analyzed: 11/09/2020 06:05

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): H3733.D Heated Purge: (Y/N) N

Calibration ID: 16957

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		59609	8.35	29057	11.04		
UPPER LIMIT		119218	8.85	58114	11.54		
LOWER LIMIT		29805	7.85	14529	10.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 310-298538/19		62060	8.34	29556	11.04		
ICV 310-298538/20		68785	8.34	38137	11.04		
ICV 310-298538/39		61044	8.34	35378	11.03		
ICV 310-298538/42		54472	8.34	29114	11.04		
ICV 310-298538/43		62252	8.34	35055	11.04		
ICV 310-298538/44		62787	8.34	36280	11.03		
CCV 310-299687/3		43004	8.34	23547	11.03		
CCV 310-299687/4		50496	8.34	33025	11.03		
LCS 310-299687/5		43869	8.34	27591	11.03		
LCS 310-299687/6		57848	8.34	34739	11.03		
MB 310-299687/7		54474	8.34	35169	11.03		
240-140187-23	GW-111220-BE-040	53735	8.34	35122	11.04		
240-140187-21	GW-111220-BE-038	52001	8.34	35152	11.03		
240-140187-22	GW-111220-BE-039	47610	8.34	32688	11.03		
240-140187-24	GW-111220-BE-041	56117	8.34	34663	11.03		
240-140187-25	GW-111220-BE-042	53692	8.34	34736	11.03		
240-140187-26	GW-111220-BE-043	56251	8.34	33980	11.03		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-019 Lab Sample ID: 240-140187-1

Matrix: Water Lab File ID: c8233.D

Analysis Method: 8260D Date Collected: 11/06/2020 09:28

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 07:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.96	J	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	75		1.0	0.22
75-35-4	1,1-Dichloroethene	0.97	J	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	140		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	18		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-019 Lab Sample ID: 240-140187-1

Matrix: Water Lab File ID: c8233.D

Analysis Method: 8260D Date Collected: 11/06/2020 09:28

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 07:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	110		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D
Lims ID: 240-140187-A-1
Client ID: GW-110620-BE-019
Sample Type: Client
Inject. Date: 18-Nov-2020 07:43:30 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-009
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:55:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.397	3.385	0.012	0	282	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	193852	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	92	5850	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	138799	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	61581	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	47601	54.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	183727	51.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	49253	48.9	
$ 8 BFB	95	9.920	9.920	0.000	81	67376	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	65978	18.5	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.672	2.660	0.012	95	1929	0.9674	M
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	319850	140.6	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.781	0.006	97	321371	75.3	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	86	6226608	2392.3	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	38	3510	0.9598	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		2532.9	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

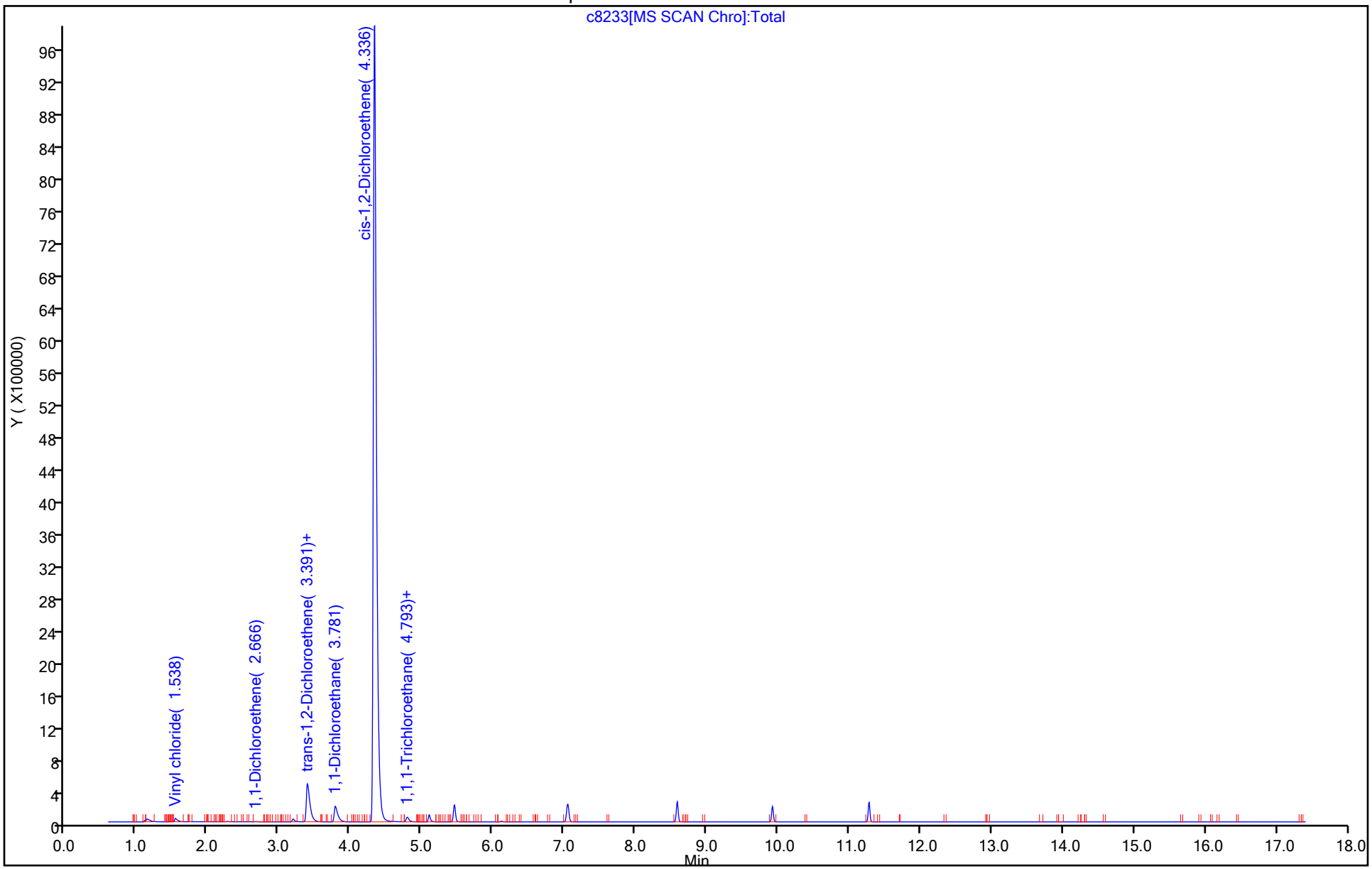
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1	Worklist Smp#:	9
Client ID:	GW-110620-BE-019				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D
Lims ID: 240-140187-A-1
Client ID: GW-110620-BE-019
Sample Type: Client
Inject. Date: 18-Nov-2020 07:43:30 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-009
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:55:51

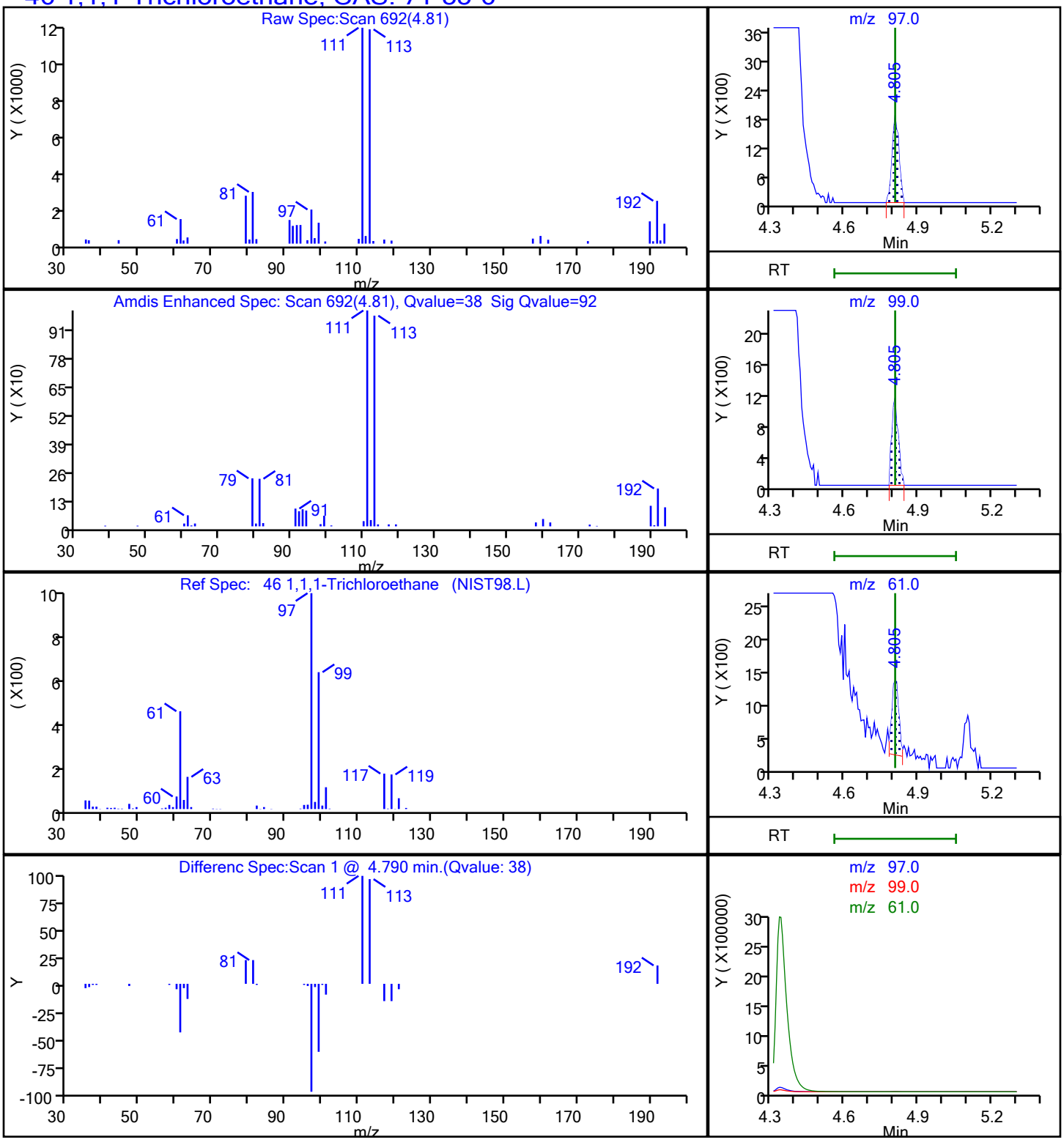
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.8	109.58
$ 6 Toluene-d8 (Surr)	50.0	51.6	103.26
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.9	97.78

Report Date: 19-Nov-2020 06:54:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

46 1,1,1-Trichloroethane, CAS: 71-55-6

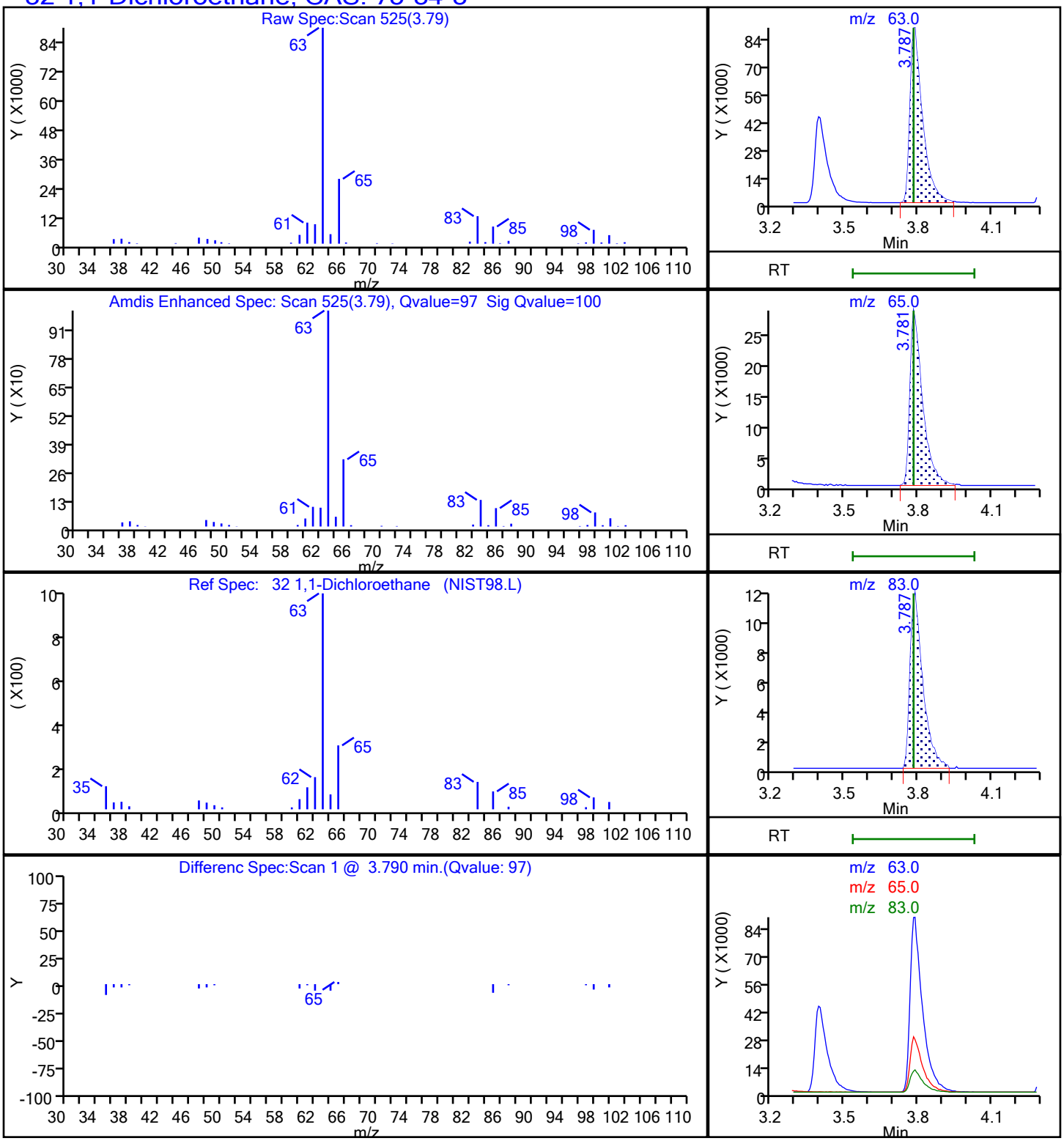


Report Date: 19-Nov-2020 06:54:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

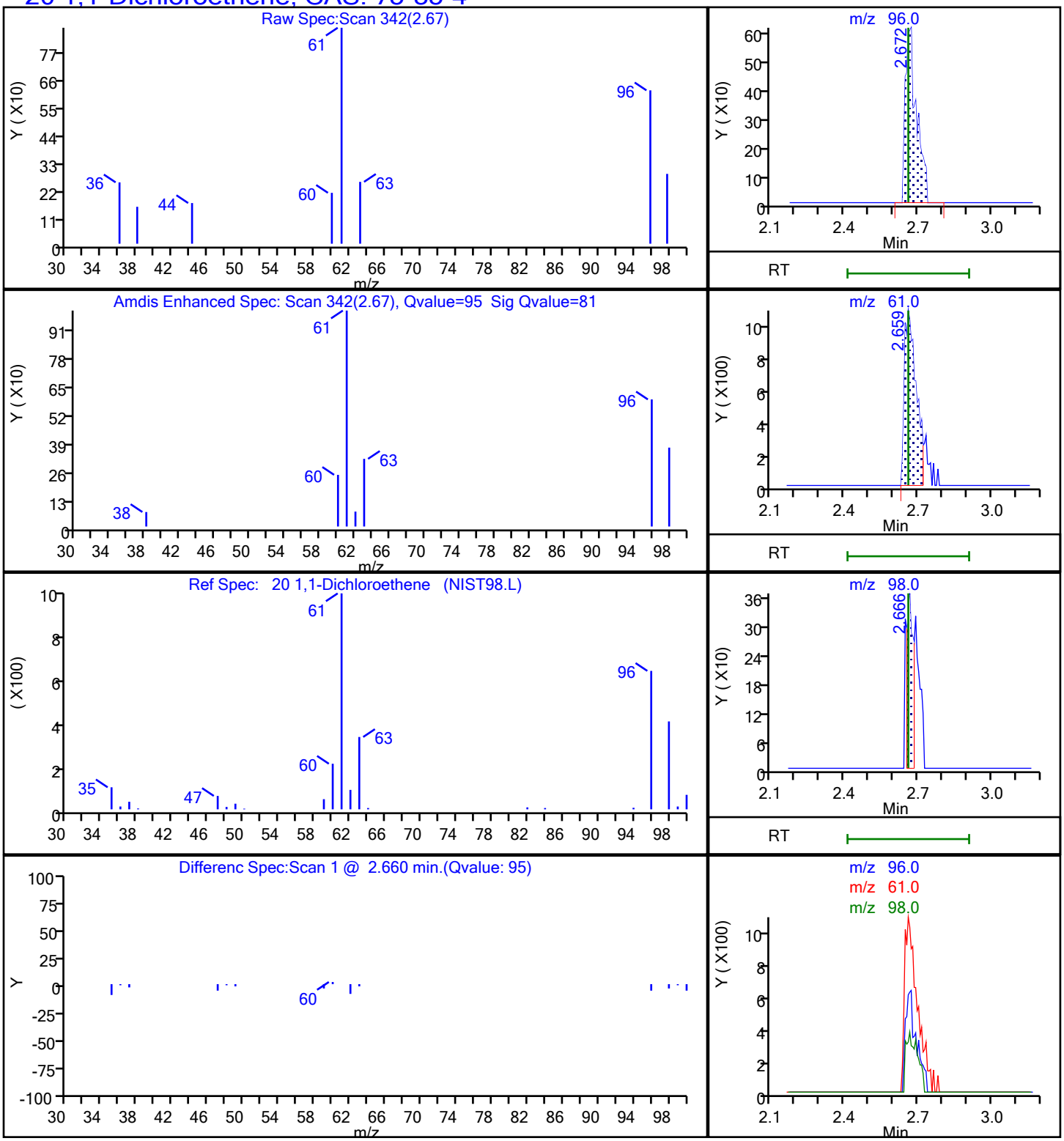


Report Date: 19-Nov-2020 06:54:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

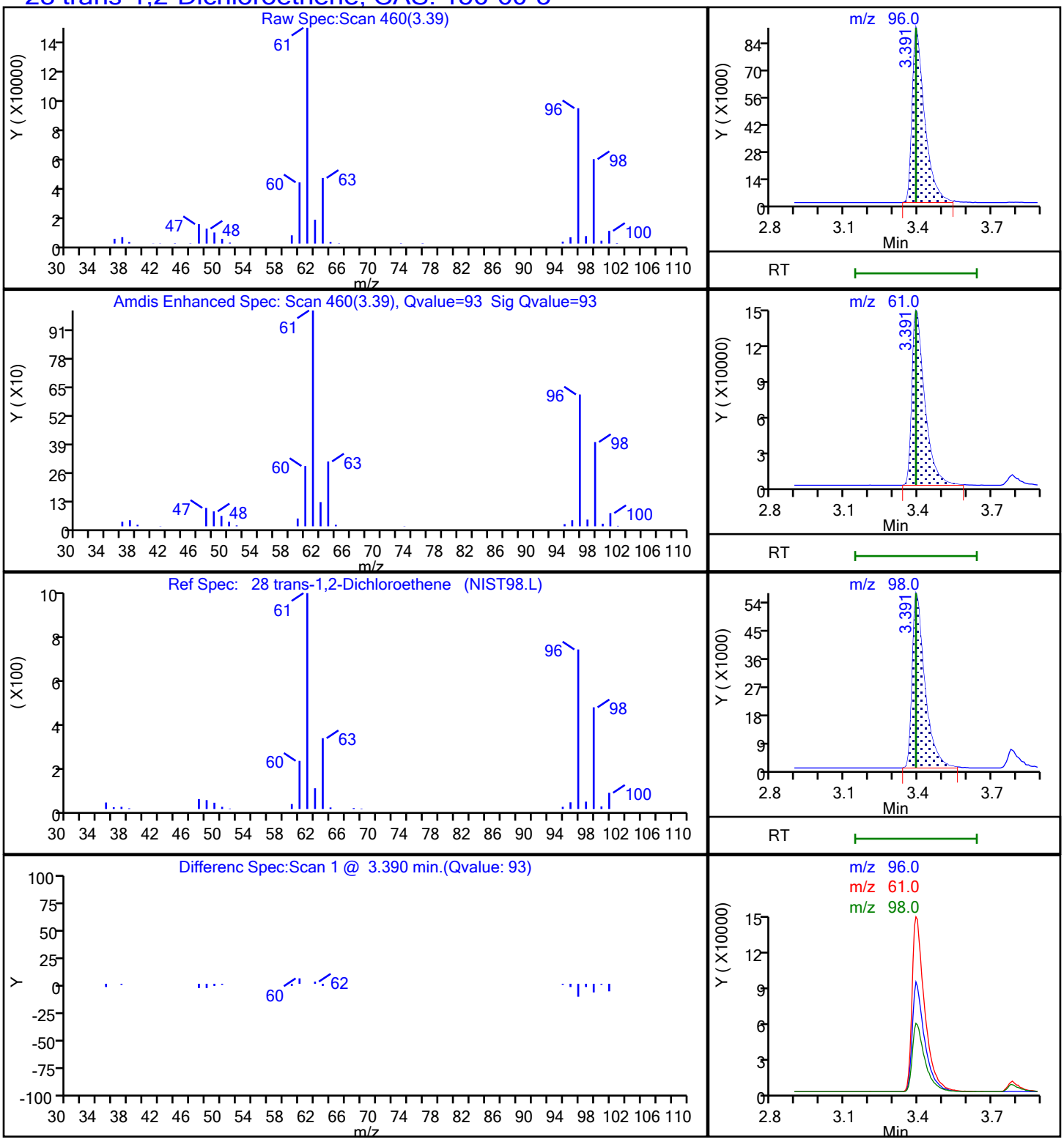


Report Date: 19-Nov-2020 06:54:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

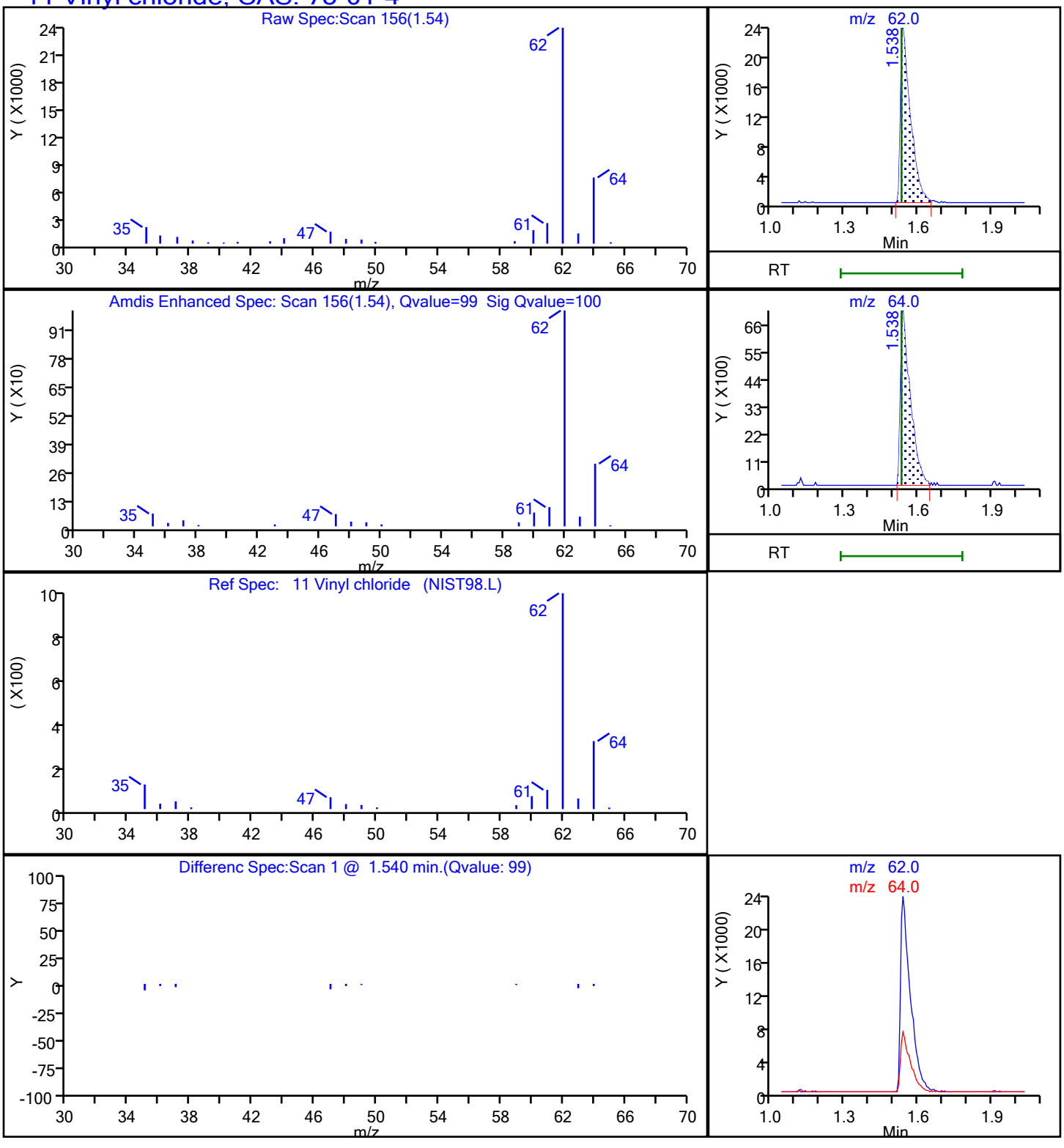


Report Date: 19-Nov-2020 06:54:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

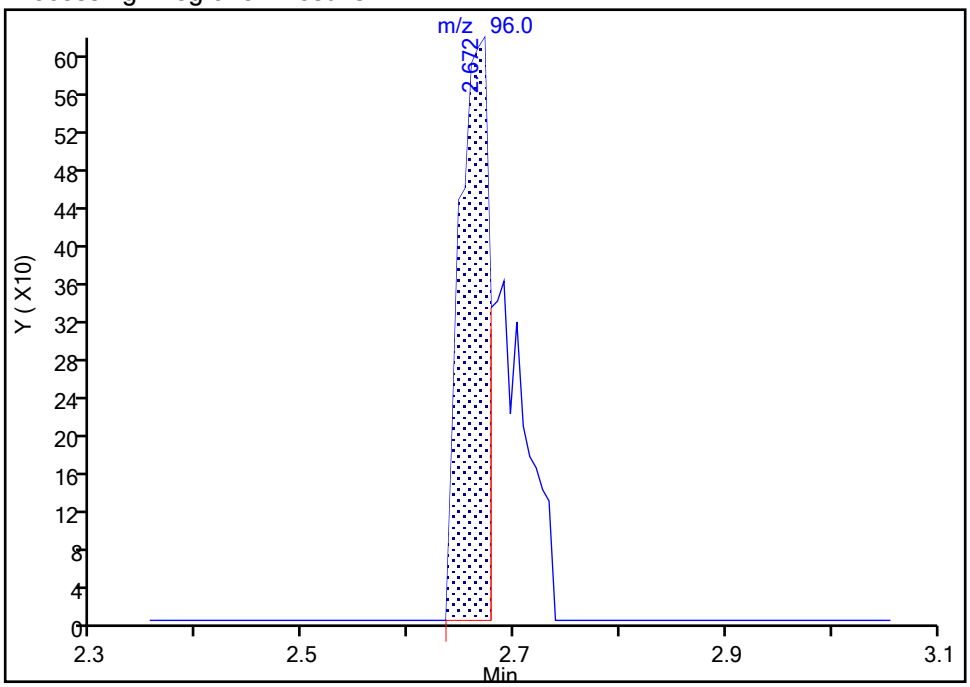
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

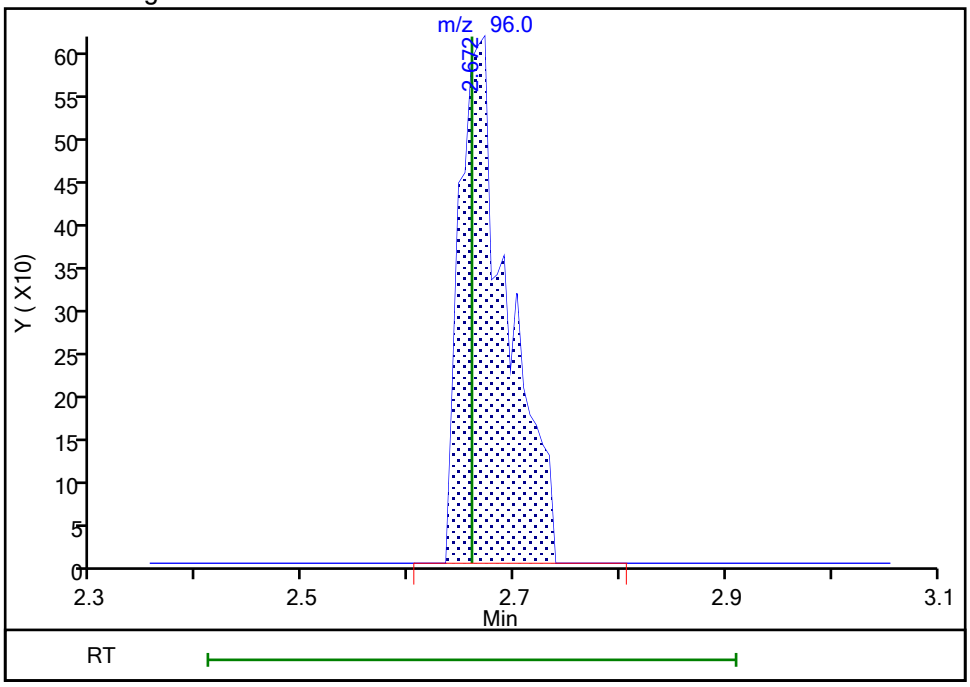
Processing Integration Results

RT: 2.67
Area: 1186
Amount: 0.594763
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 1929
Amount: 0.967367
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:54:22

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

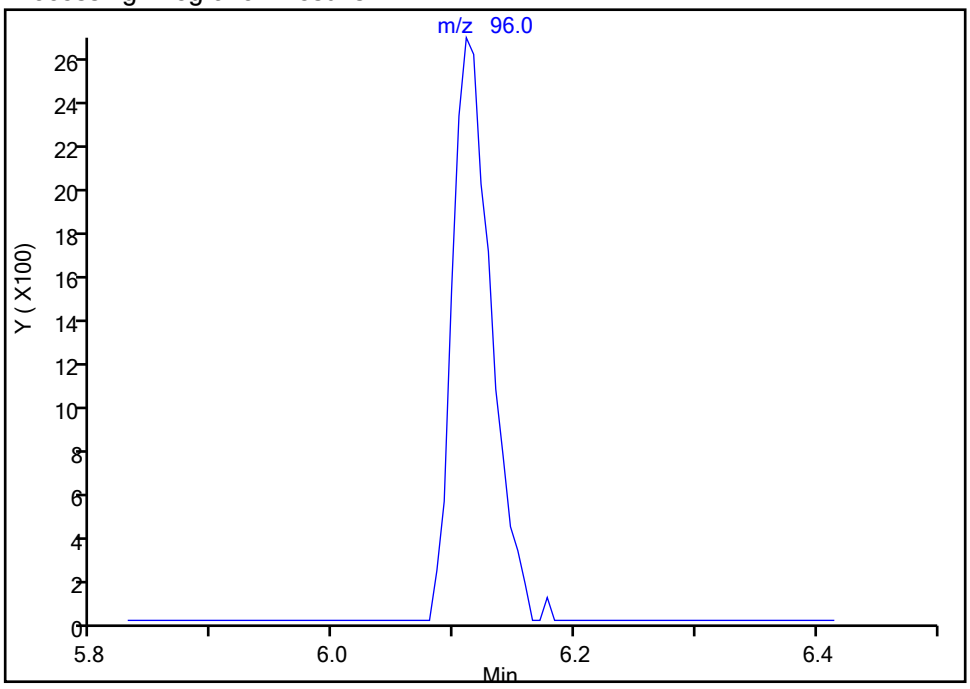
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8233.D				
Injection Date:	18-Nov-2020 07:43:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

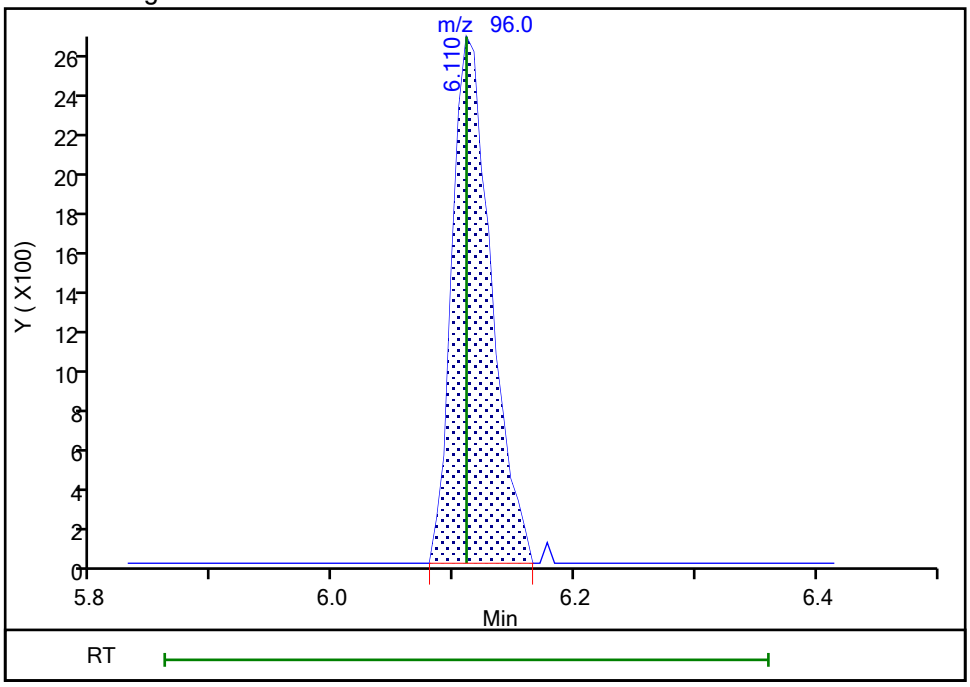
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5850
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:53:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-019 Lab Sample ID: 240-140187-1

Matrix: Water Lab File ID: c8307.D

Analysis Method: 8260D Date Collected: 11/06/2020 09:28

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 12:46

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2300	B	20	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8307.D
Lims ID: 240-140187-B-1
Client ID: GW-110620-BE-019
Sample Type: Client
Inject. Date: 19-Nov-2020 12:46:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062729-022
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:59:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.409	3.373	0.036	0	216	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	165768	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	93	5142	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	117946	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53313	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	39210	52.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	155074	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	40464	46.4	
$ 8 BFB	95	9.920	9.920	0.000	81	55656	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.544	1.532	0.012	95	2701	0.8842	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.848	2.842	0.006	60	1139	0.2256	Ma
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	45	308	0.1526	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	92	13244	6.81	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.781	0.006	96	12993	3.56	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	89	255973	115.0	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.641	4.641	0.000	0	472	0.1237	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92	7.116	7.116	0.000	19	752	0.1291	a
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.750	8.756	-0.006	93	2047	0.1977	
74 m-Xylene & p-Xylene	106	8.884	8.890	-0.006	97	2067	0.5129	
75 o-Xylene	106	9.329	9.335	-0.006	91	801	0.2088	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91	10.243	10.243	0.000	90	959	0.0834	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105	10.463	10.457	0.006	88	1413	0.1775	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	97	5040	0.6147	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105	11.389	11.390	-0.001	94	2010	0.2662	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91	11.761	11.767	-0.006	89	435	0.0623	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.980	13.980	0.000	90	1350	0.3046	a
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		121.8	
S 100 Xylenes, Total	1				0		0.7217	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

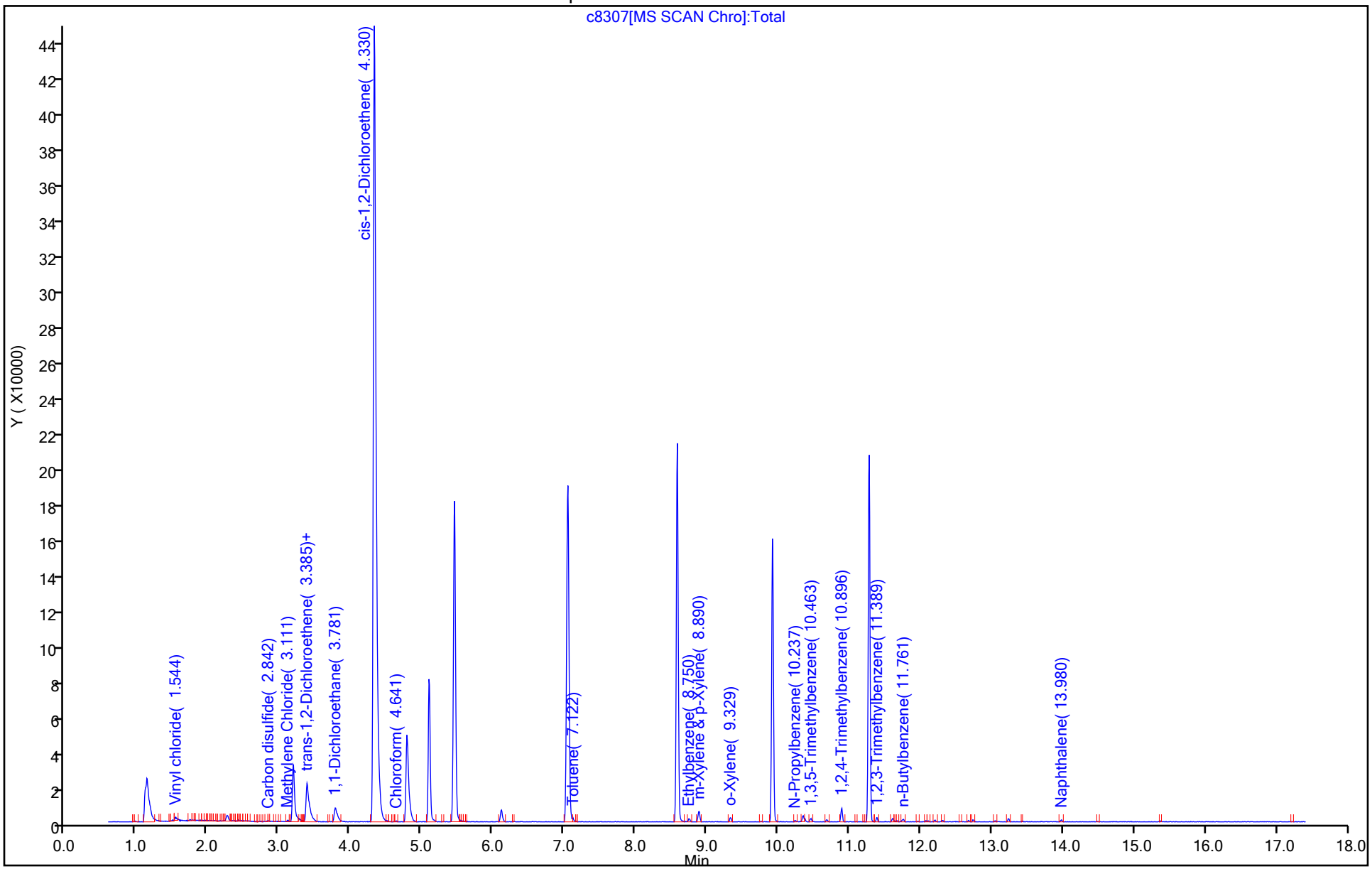
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8307.D				
Injection Date:	19-Nov-2020 12:46:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-1	Lab Sample ID:	310-140187-1	Worklist Smp#:	22
Client ID:	GW-110620-BE-019				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	22
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8307.D
Lims ID: 240-140187-B-1
Client ID: GW-110620-BE-019
Sample Type: Client
Inject. Date: 19-Nov-2020 12:46:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062729-022
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:59:08

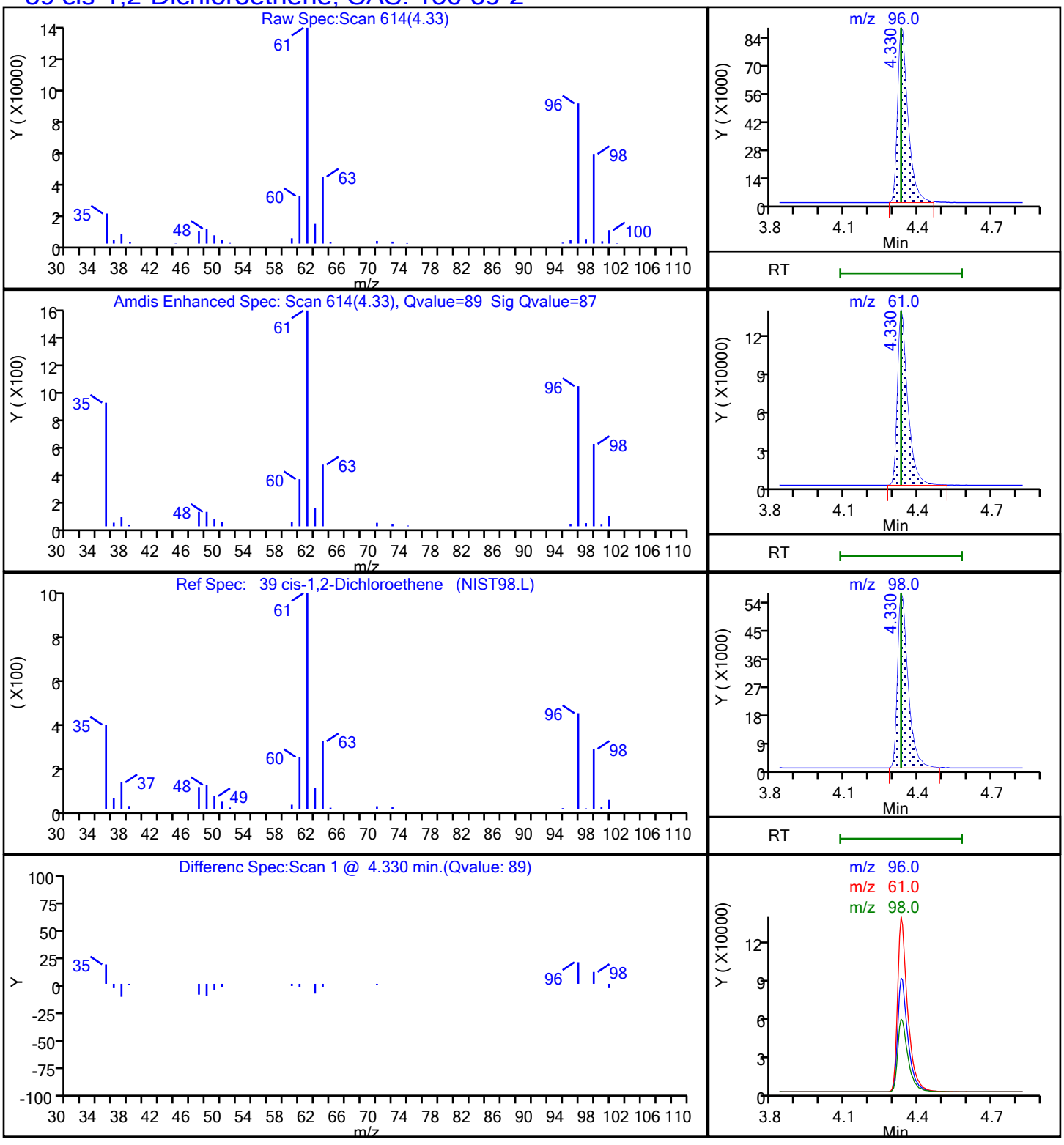
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.8	2111.06
$ 6 Toluene-d8 (Surr)	50.0	51.3	2051.25
$ 7 4-Bromofluorobenzene (Surr)	50.0	46.4	1855.71

Report Date: 20-Nov-2020 12:15:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8307.D				
Injection Date:	19-Nov-2020 12:46:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

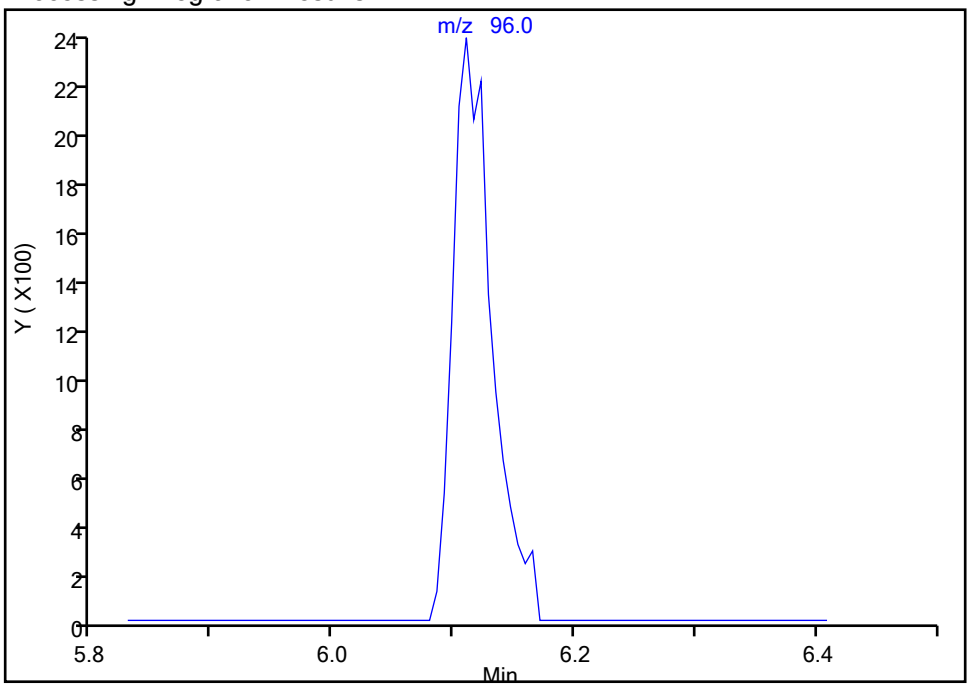
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8307.D				
Injection Date:	19-Nov-2020 12:46:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-1	Lab Sample ID:	310-140187-1		
Client ID:	GW-110620-BE-019				
Operator ID:	sjn	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

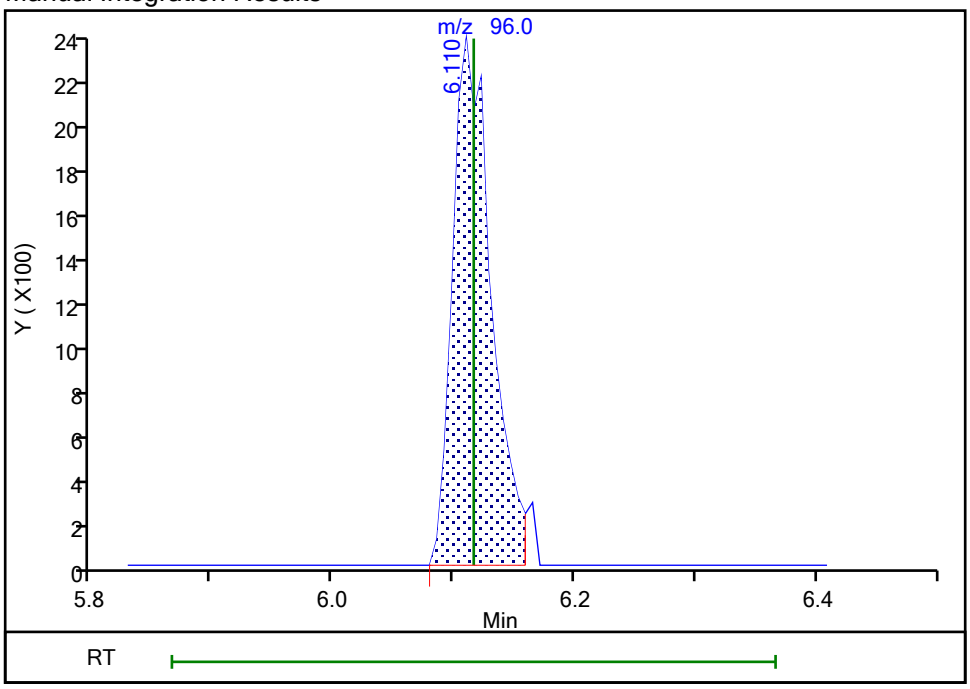
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5142
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:59:03
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-020 Lab Sample ID: 240-140187-2

Matrix: Water Lab File ID: c8234.D

Analysis Method: 8260D Date Collected: 11/06/2020 11:06

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 08:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	13		1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	28		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	42		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-020 Lab Sample ID: 240-140187-2

Matrix: Water Lab File ID: c8234.D

Analysis Method: 8260D Date Collected: 11/06/2020 11:06

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 08:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D
Lims ID: 240-140187-A-2
Client ID: GW-110620-BE-020
Sample Type: Client
Inject. Date: 18-Nov-2020 08:07:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-010
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:59:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	234	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	179845	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5582	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	126227	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	97	56441	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	42139	52.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	168233	52.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	84	45339	49.1	
$ 8 BFB	95	9.920	9.920	0.000	83	61306	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	98	140819	42.5	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	94	59073	28.0	
29 Methyl tert-butyl ether	73	3.409	3.403	0.006	97	2723	0.5563	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	52339	13.2	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	753550	312.1	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		340.1	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

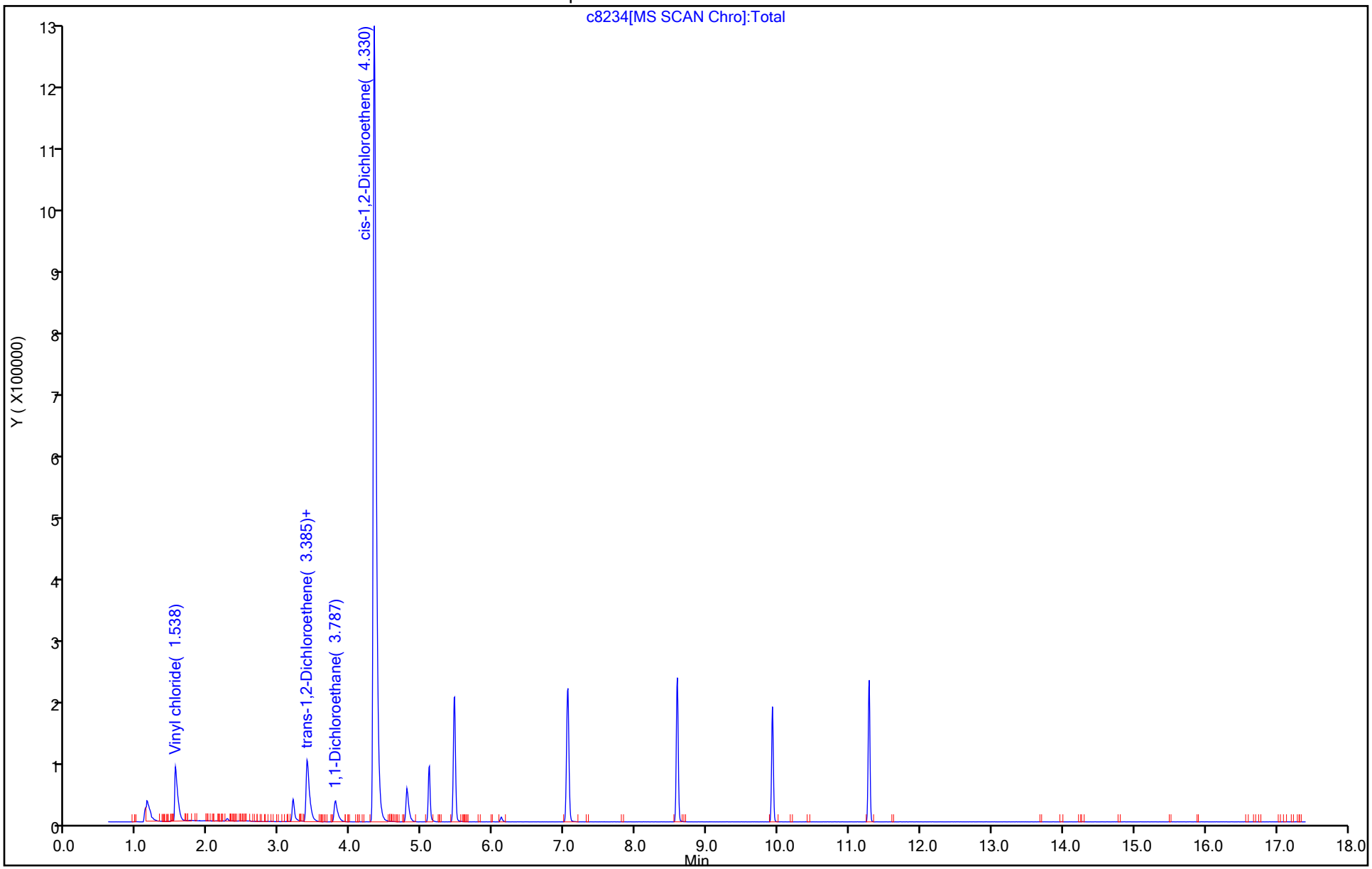
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D				
Injection Date:	18-Nov-2020 08:07:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-2	Lab Sample ID:	310-140187-2	Worklist Smp#:	10
Client ID:	GW-110620-BE-020				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D
Lims ID: 240-140187-A-2
Client ID: GW-110620-BE-020
Sample Type: Client
Inject. Date: 18-Nov-2020 08:07:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-010
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:59:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.3	104.56
$ 6 Toluene-d8 (Surr)	50.0	52.0	103.97
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.1	98.20

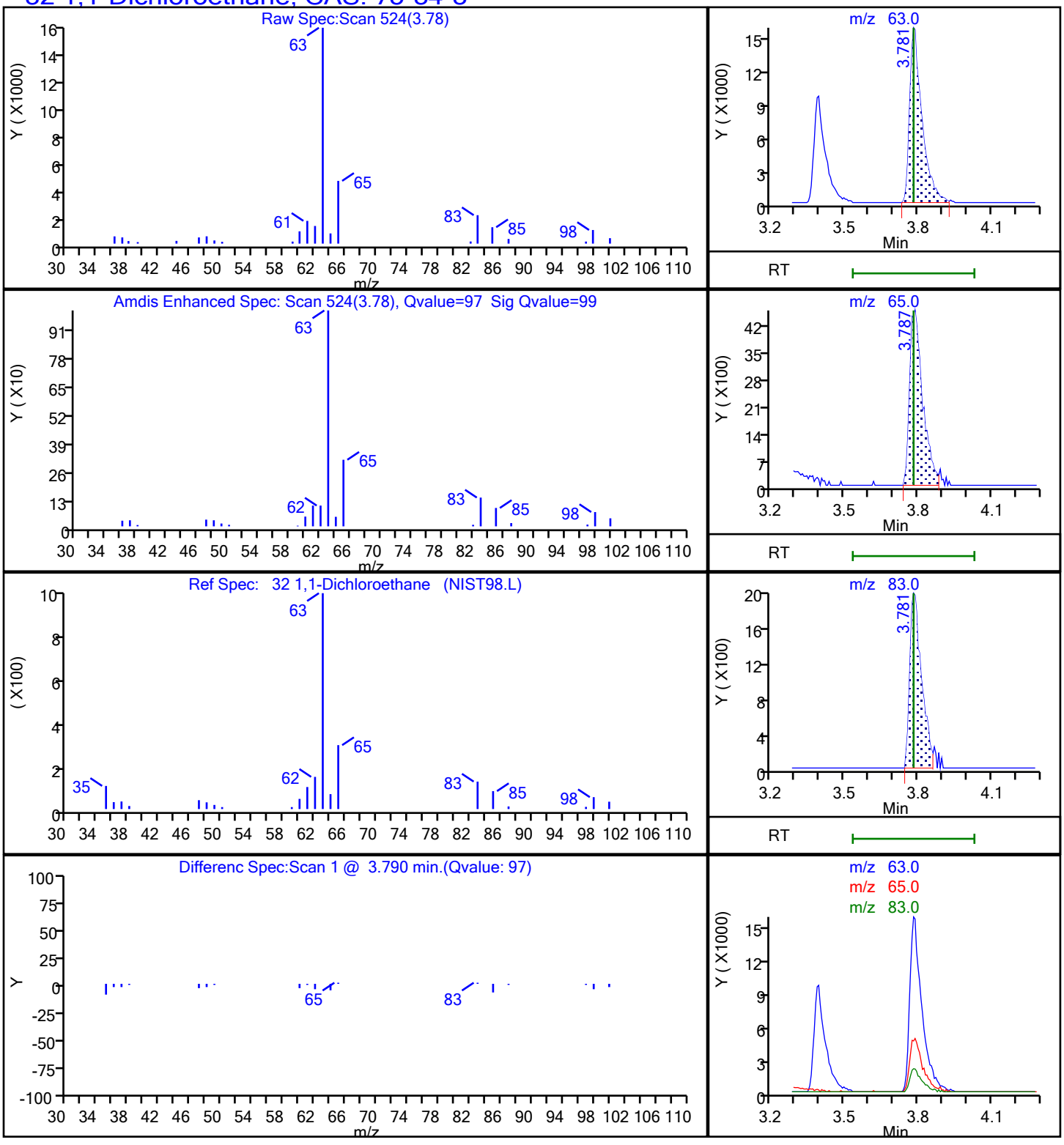
Report Date: 19-Nov-2020 06:54:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D

Injection Date:	18-Nov-2020 08:07:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-2	Lab Sample ID:	310-140187-2		
Client ID:	GW-110620-BE-020				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

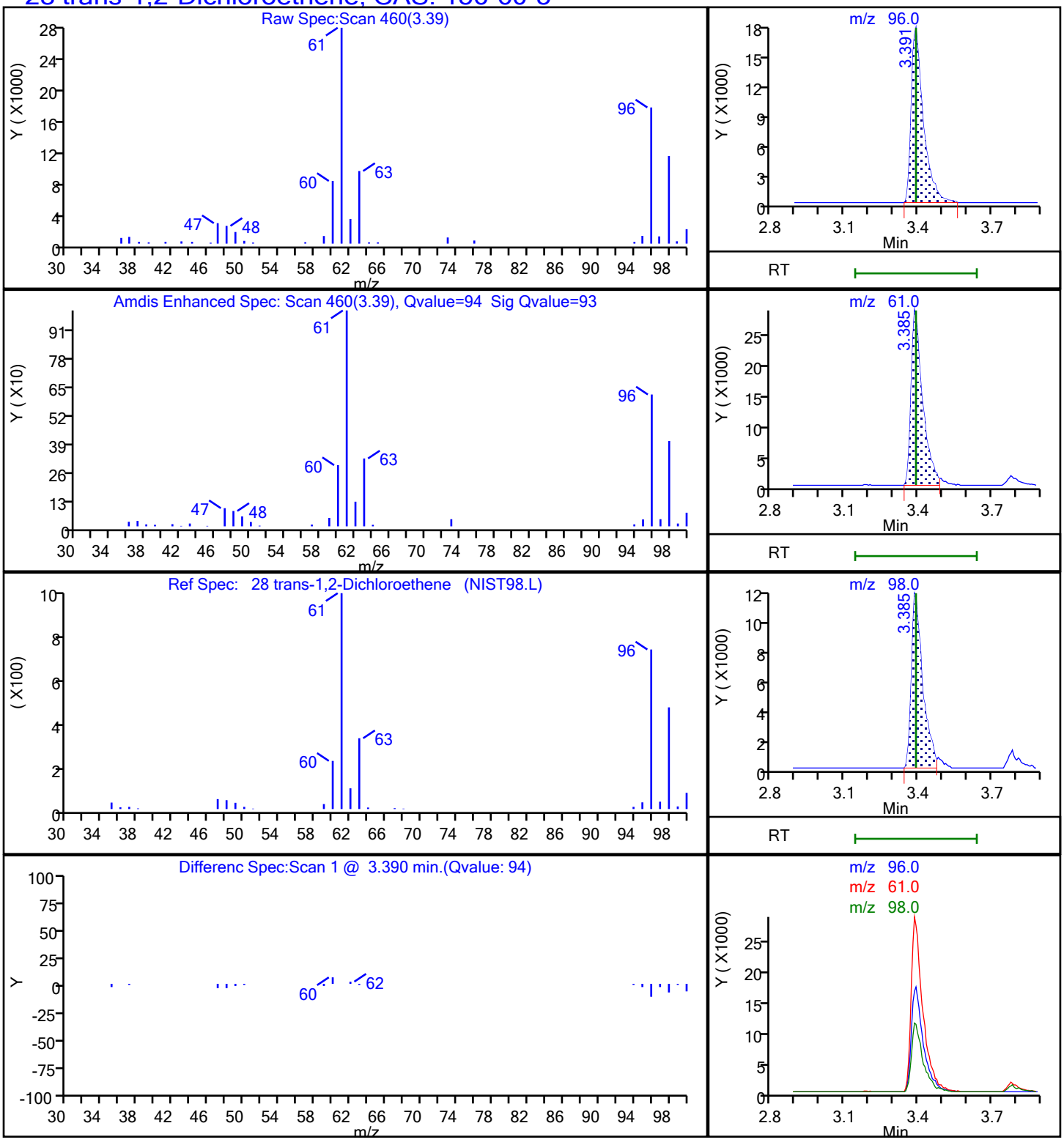


Report Date: 19-Nov-2020 06:54:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D				
Injection Date:	18-Nov-2020 08:07:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-2	Lab Sample ID:	310-140187-2		
Client ID:	GW-110620-BE-020				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

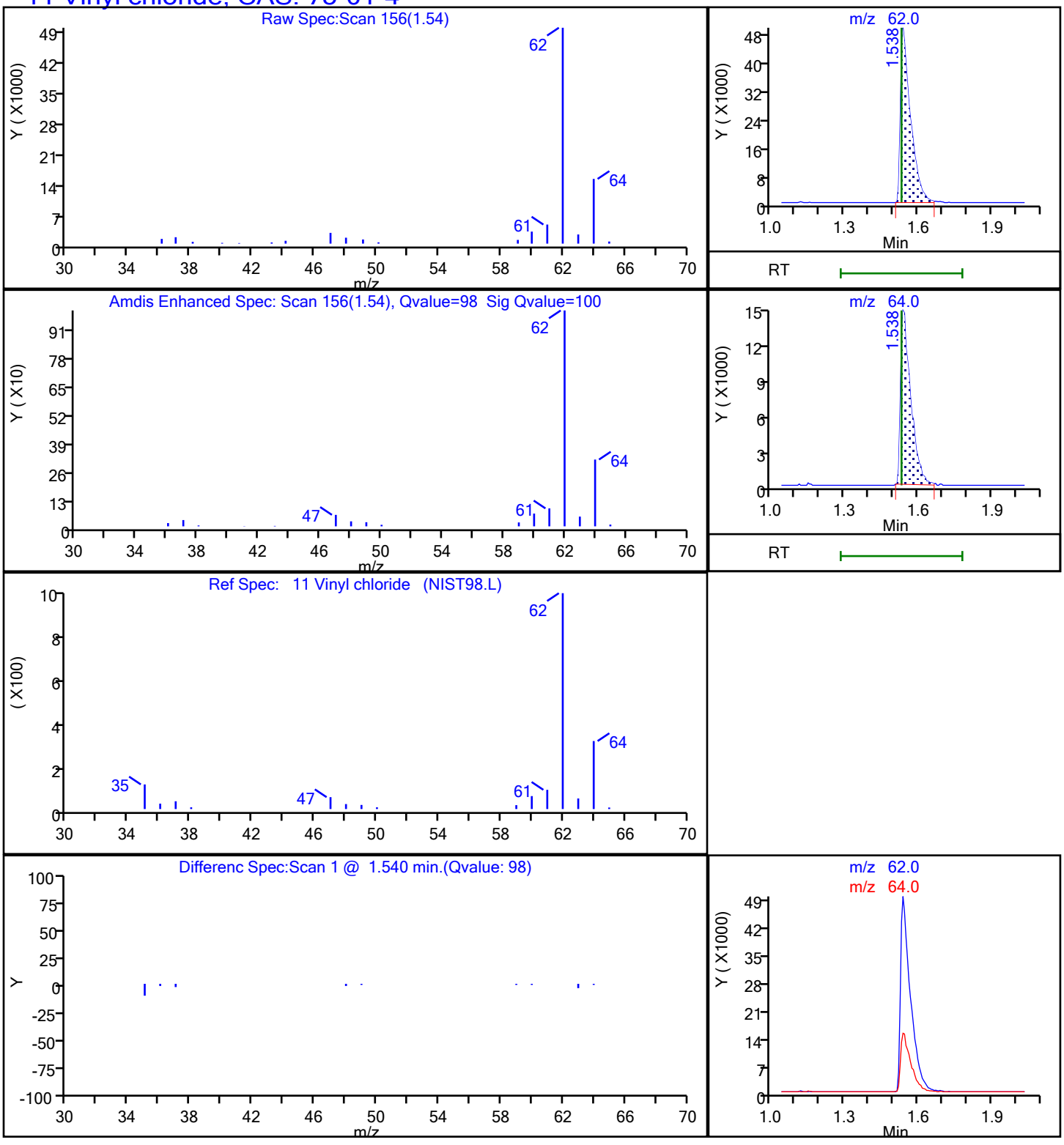


Report Date: 19-Nov-2020 06:54:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D				
Injection Date:	18-Nov-2020 08:07:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-2	Lab Sample ID:	310-140187-2		
Client ID:	GW-110620-BE-020				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

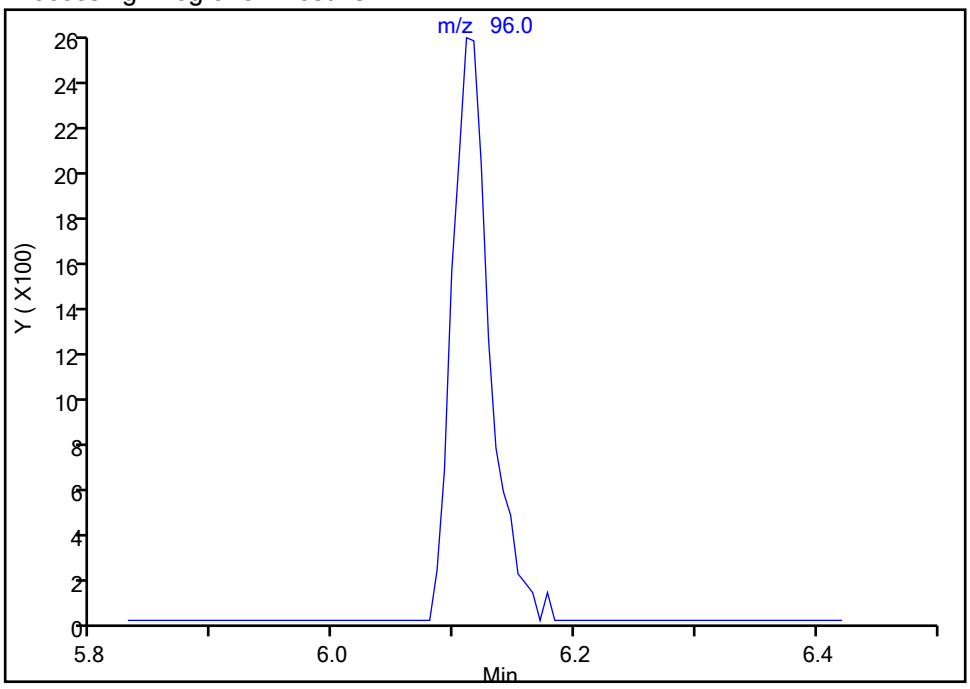
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8234.D				
Injection Date:	18-Nov-2020 08:07:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-2	Lab Sample ID:	310-140187-2		
Client ID:	GW-110620-BE-020				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

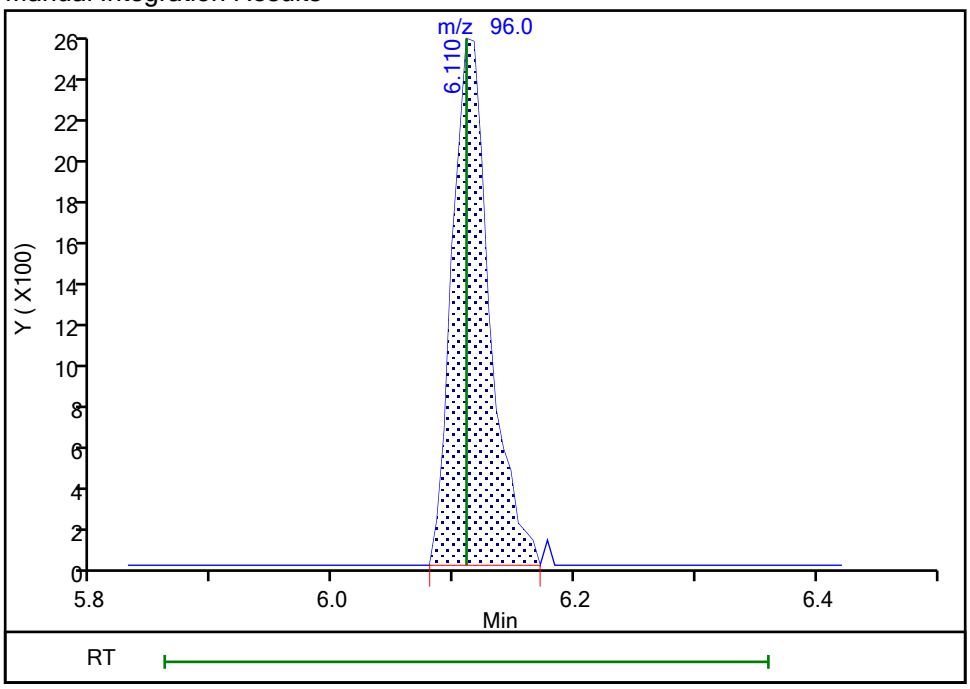
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.11
Area: 5582
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 18-Nov-2020 11:59:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-020 Lab Sample ID: 240-140187-2

Matrix: Water Lab File ID: c8304.D

Analysis Method: 8260D Date Collected: 11/06/2020 11:06

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 11:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	310	B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	107		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8304.D
Lims ID: 240-140187-B-2
Client ID: GW-110620-BE-020
Sample Type: Client
Inject. Date: 19-Nov-2020 11:33:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-019
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:46:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	118	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	167240	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	96	5422	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	118086	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	52766	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	40142	53.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	155325	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	42289	49.0	
$ 8 BFB	95	9.920	9.920	0.000	82	56696	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	138587	45.0	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	56653	28.9	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	37	2636	0.5791	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	96	47178	12.8	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	696800	310.3	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		339.2	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

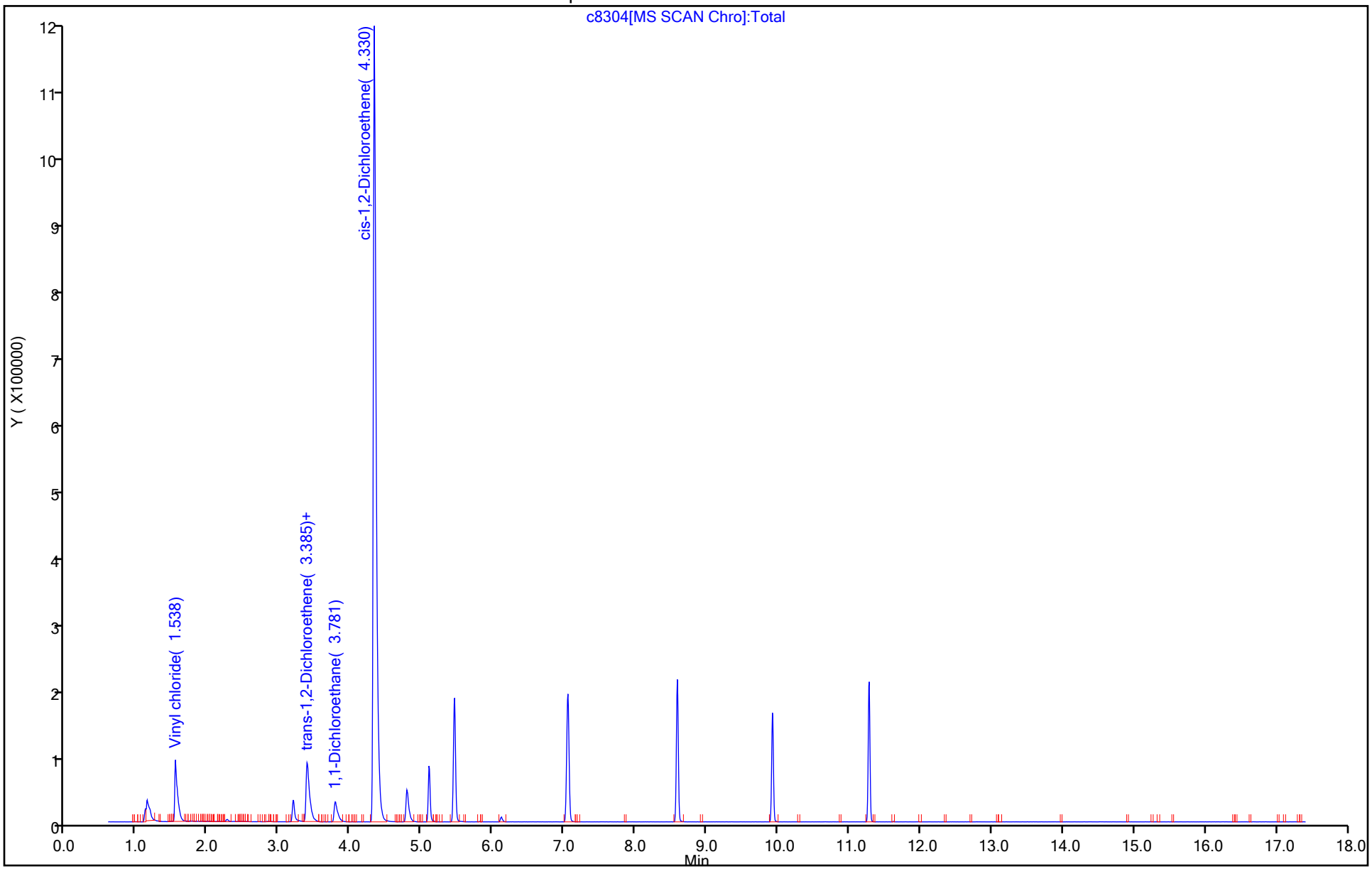
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8304.D				
Injection Date:	19-Nov-2020 11:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-2	Lab Sample ID:	310-140187-2	Worklist Smp#:	19
Client ID:	GW-110620-BE-020				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8304.D
Lims ID: 240-140187-B-2
Client ID: GW-110620-BE-020
Sample Type: Client
Inject. Date: 19-Nov-2020 11:33:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-019
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:46:16

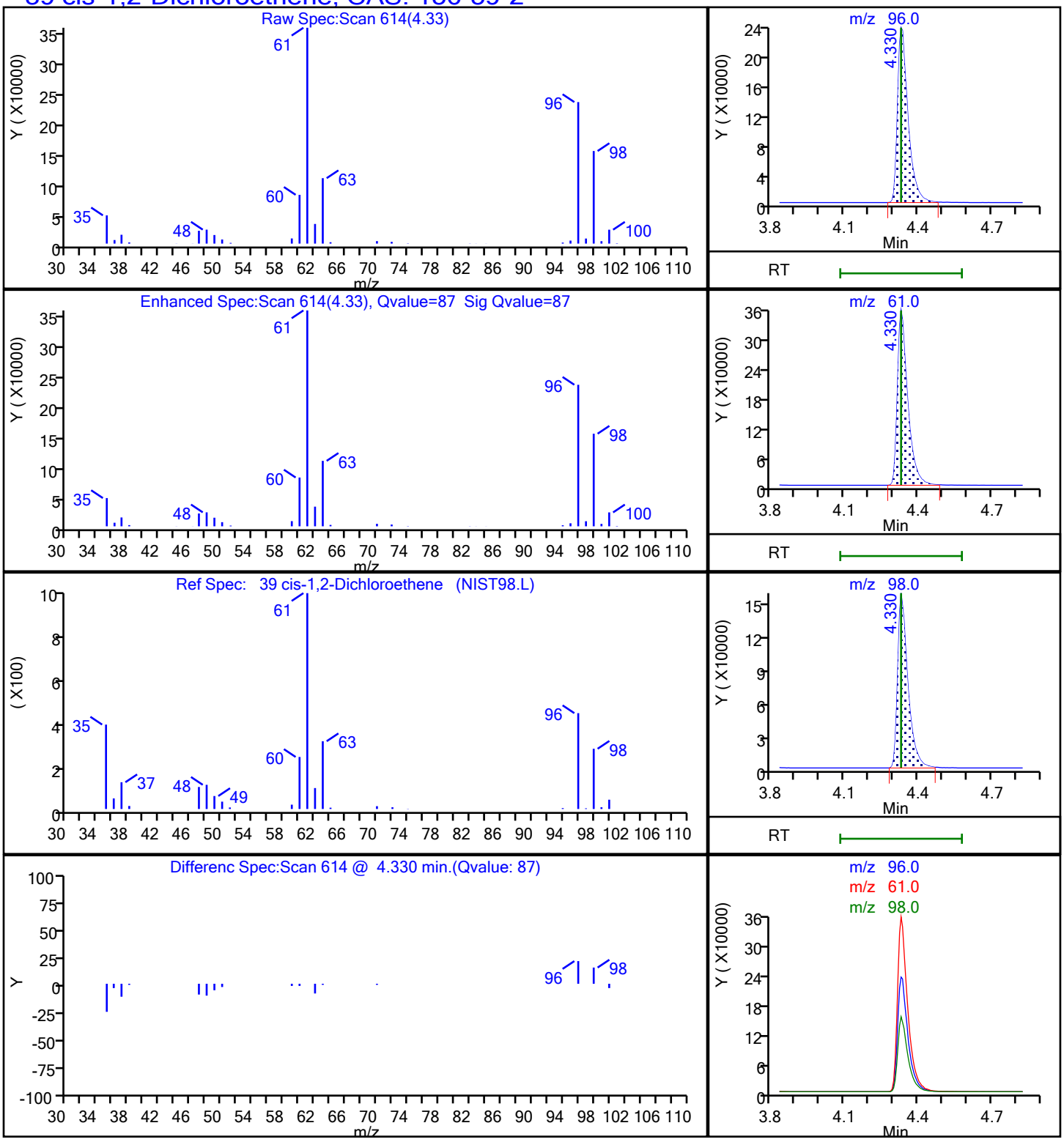
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.6	107.11
$ 6 Toluene-d8 (Surr)	50.0	51.3	102.61
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	97.98

Report Date: 20-Nov-2020 12:14:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8304.D				
Injection Date:	19-Nov-2020 11:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-2	Lab Sample ID:	310-140187-2		
Client ID:	GW-110620-BE-020				
Operator ID:	sjn	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

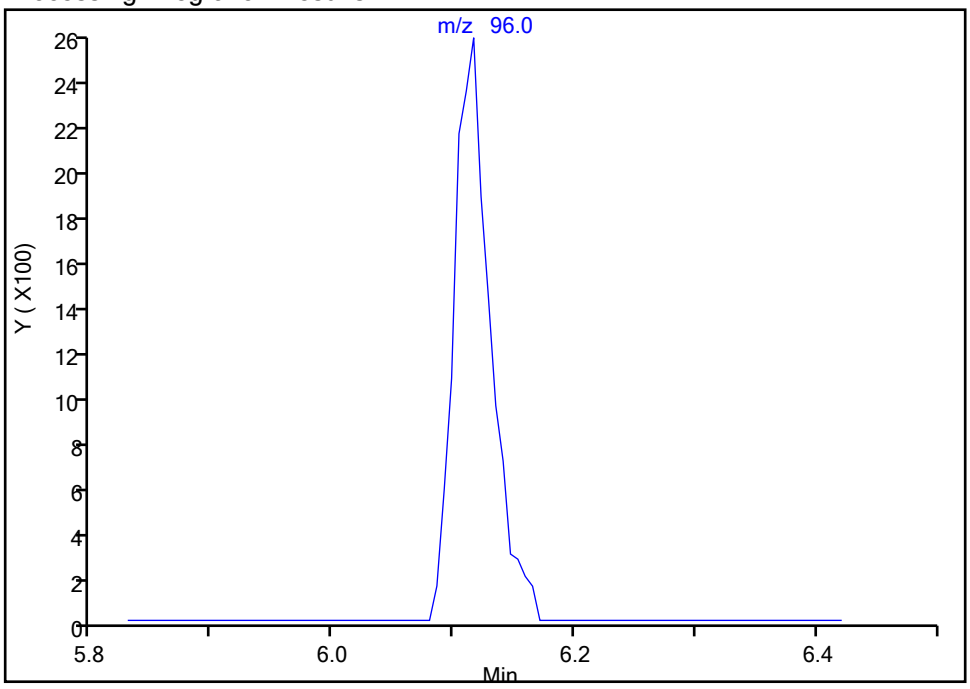
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8304.D				
Injection Date:	19-Nov-2020 11:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-2	Lab Sample ID:	310-140187-2		
Client ID:	GW-110620-BE-020				
Operator ID:	sjn	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

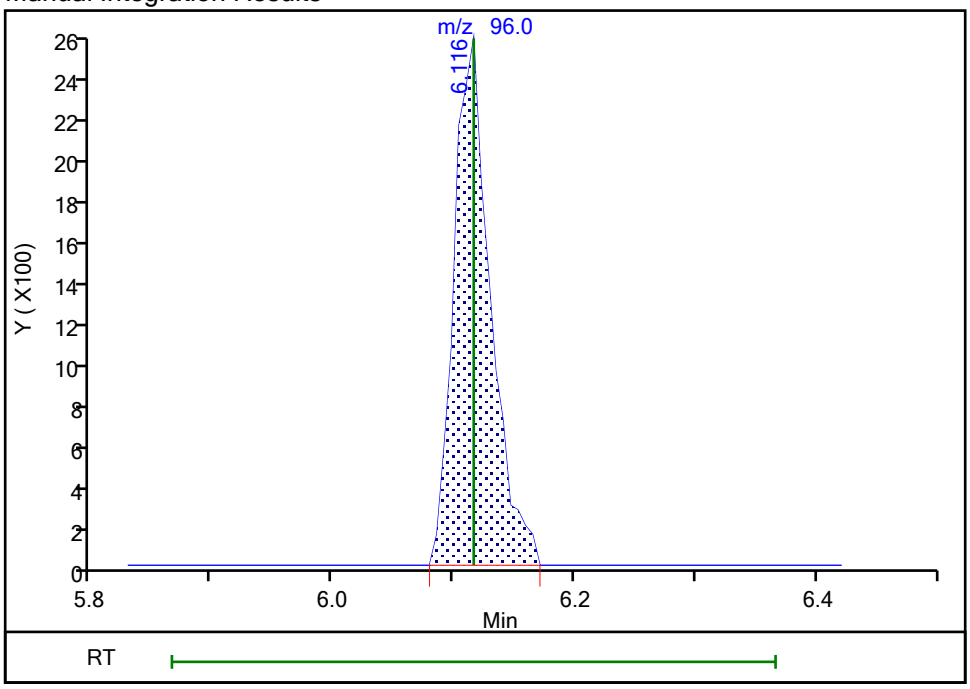
Not Detected
Expected RT: 6.12

Processing Integration Results



RT: 6.12
Area: 5422
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 20-Nov-2020 11:44:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-021 Lab Sample ID: 240-140187-3

Matrix: Water Lab File ID: c8235.D

Analysis Method: 8260D Date Collected: 11/06/2020 11:10

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 08:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	13		1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	28		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	42		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-021 Lab Sample ID: 240-140187-3

Matrix: Water Lab File ID: c8235.D

Analysis Method: 8260D Date Collected: 11/06/2020 11:10

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 08:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D
Lims ID: 240-140187-A-3
Client ID: GW-110620-BE-021
Sample Type: Client
Inject. Date: 18-Nov-2020 08:31:30 ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:00:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.354	3.385	-0.031	0	113	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	178469	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	95	5076	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	125933	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	57125	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	41699	52.1	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	166506	51.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.920	0.006	85	44376	47.5	
$ 8 BFB	95	9.920	9.920	0.000	81	61067	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	137049	41.7	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	95	59424	28.4	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	52	2645	0.5445	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.781	0.006	97	52294	13.3	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	89	753758	314.6	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		342.9	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

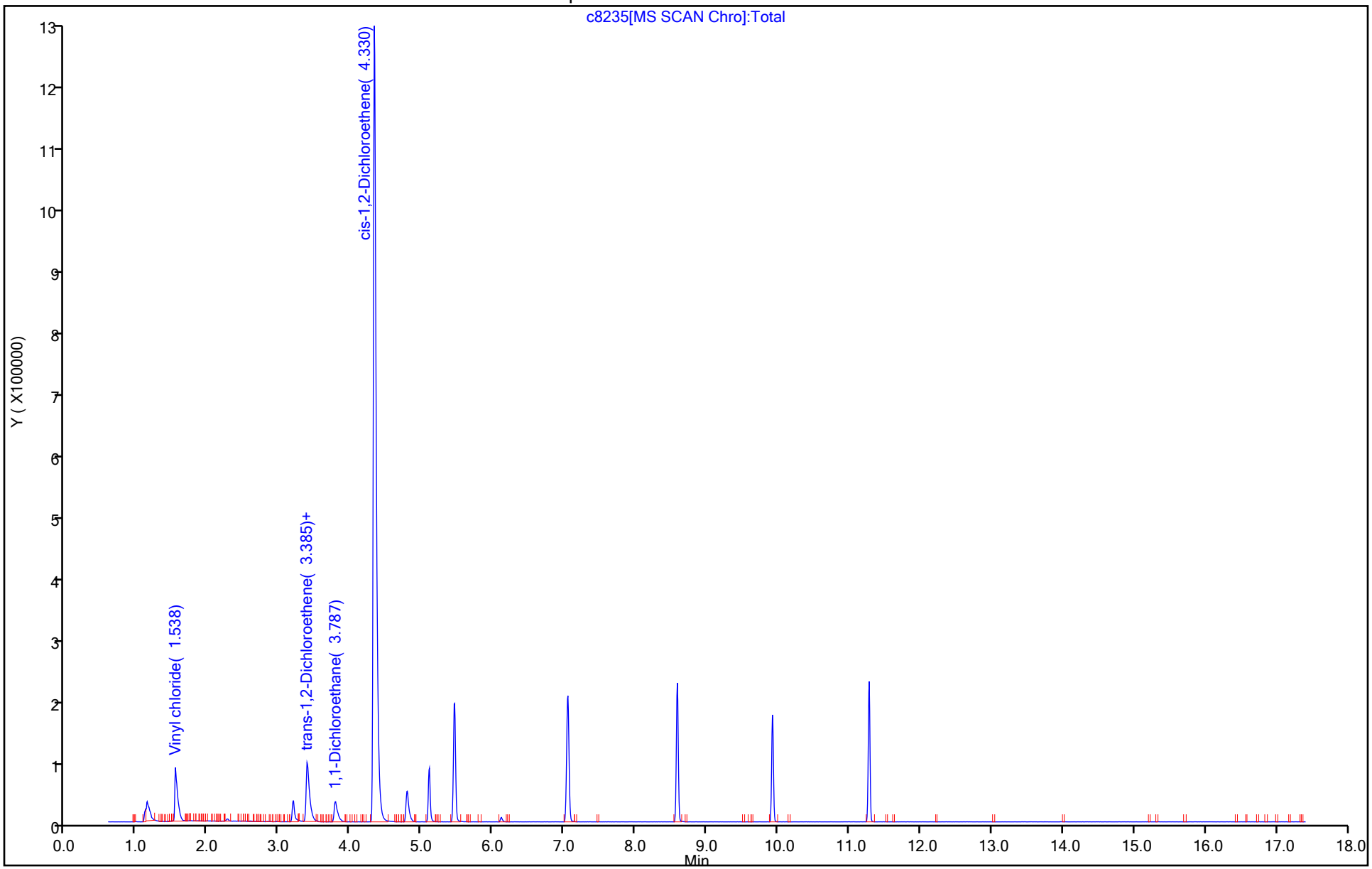
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:34 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D				
Injection Date:	18-Nov-2020 08:31:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-3	Lab Sample ID:	310-140187-3	Worklist Smp#:	11
Client ID:	GW-110620-BE-021				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D
Lims ID: 240-140187-A-3
Client ID: GW-110620-BE-021
Sample Type: Client
Inject. Date: 18-Nov-2020 08:31:30 ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:00:28

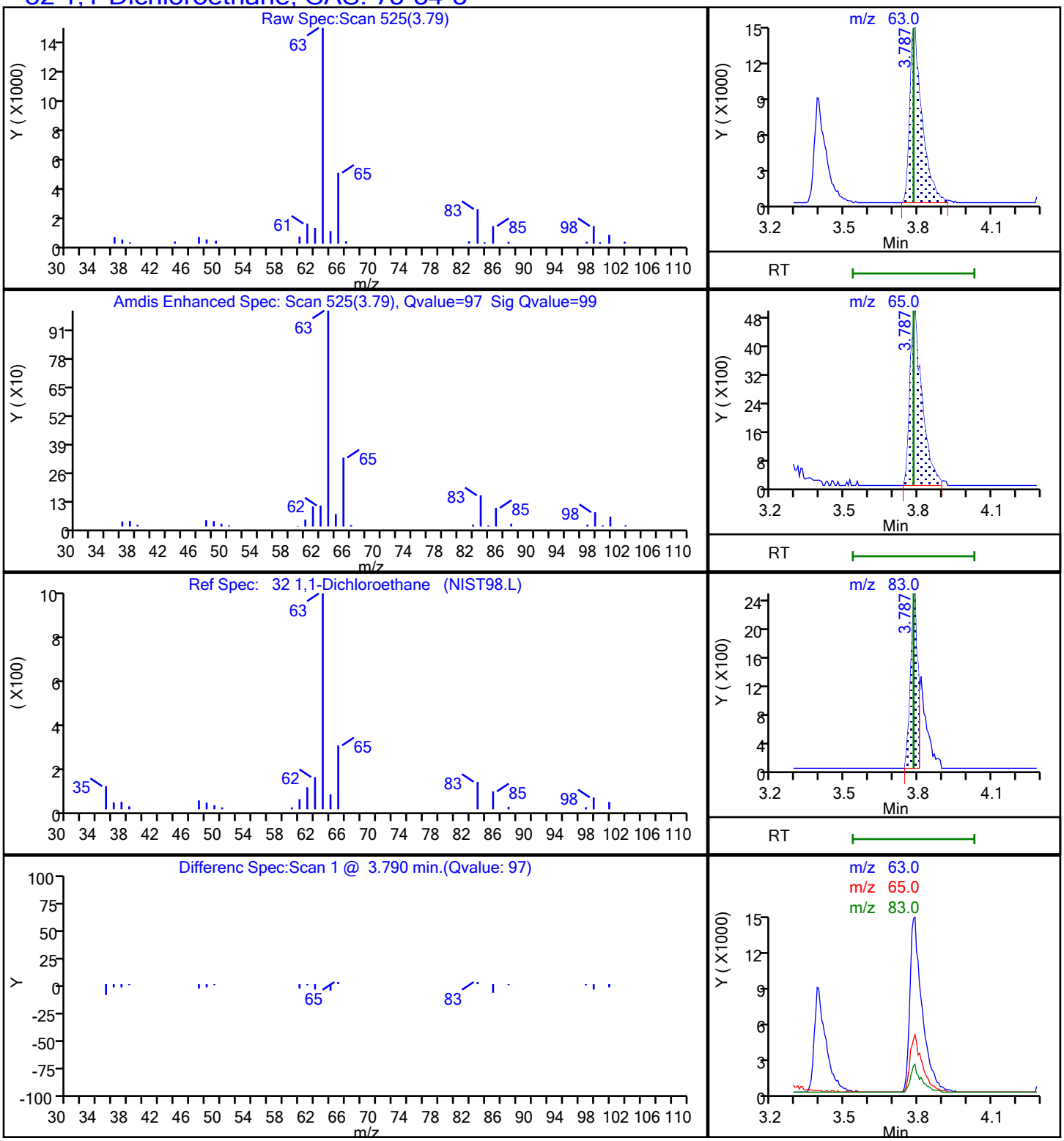
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.1	104.26
$ 6 Toluene-d8 (Surr)	50.0	51.6	103.14
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.5	94.97

Report Date: 19-Nov-2020 06:54:34 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D				
Injection Date:	18-Nov-2020 08:31:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-3	Lab Sample ID:	310-140187-3		
Client ID:	GW-110620-BE-021				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

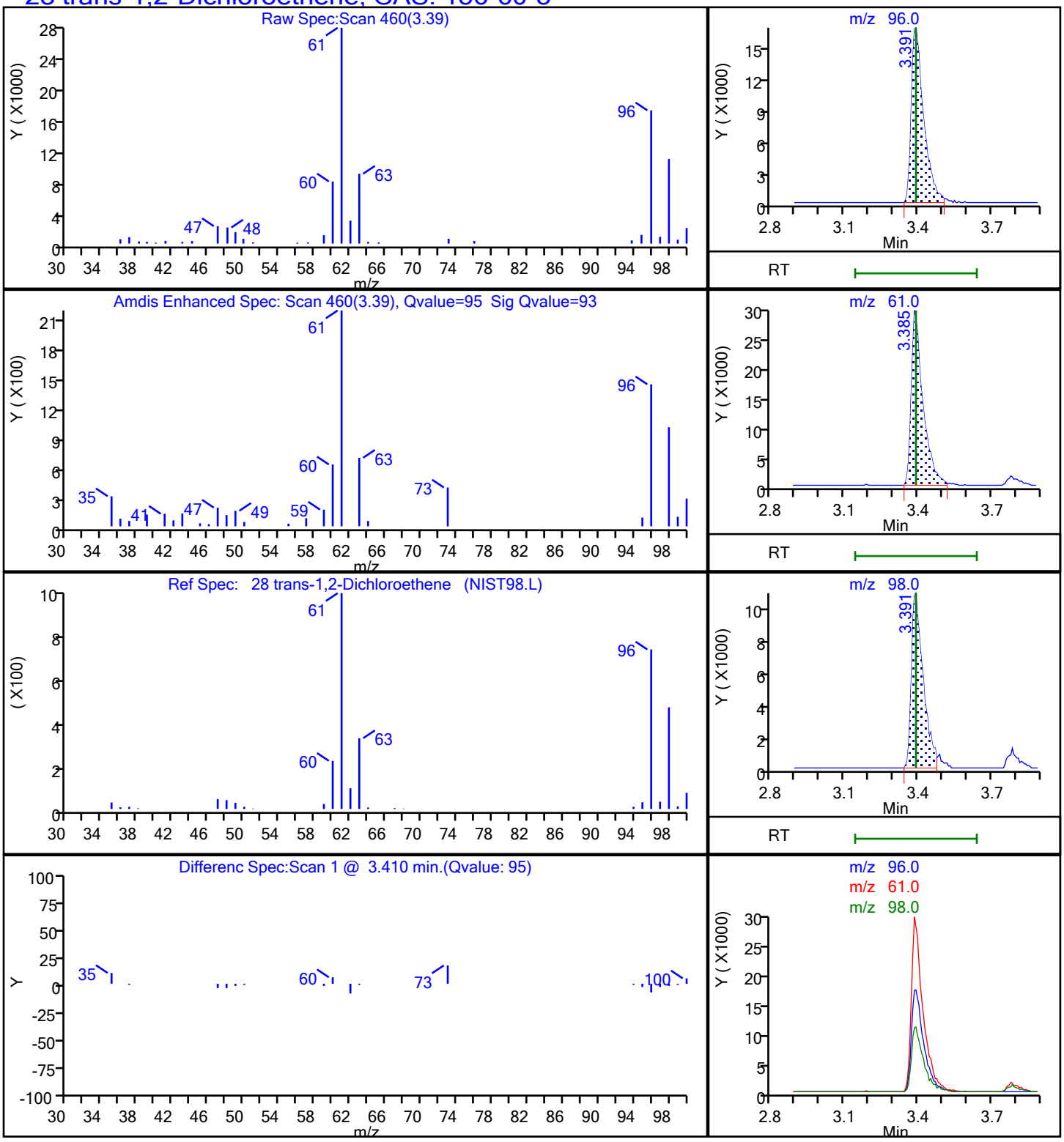


Report Date: 19-Nov-2020 06:54:34 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D				
Injection Date:	18-Nov-2020 08:31:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-3	Lab Sample ID:	310-140187-3		
Client ID:	GW-110620-BE-021				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

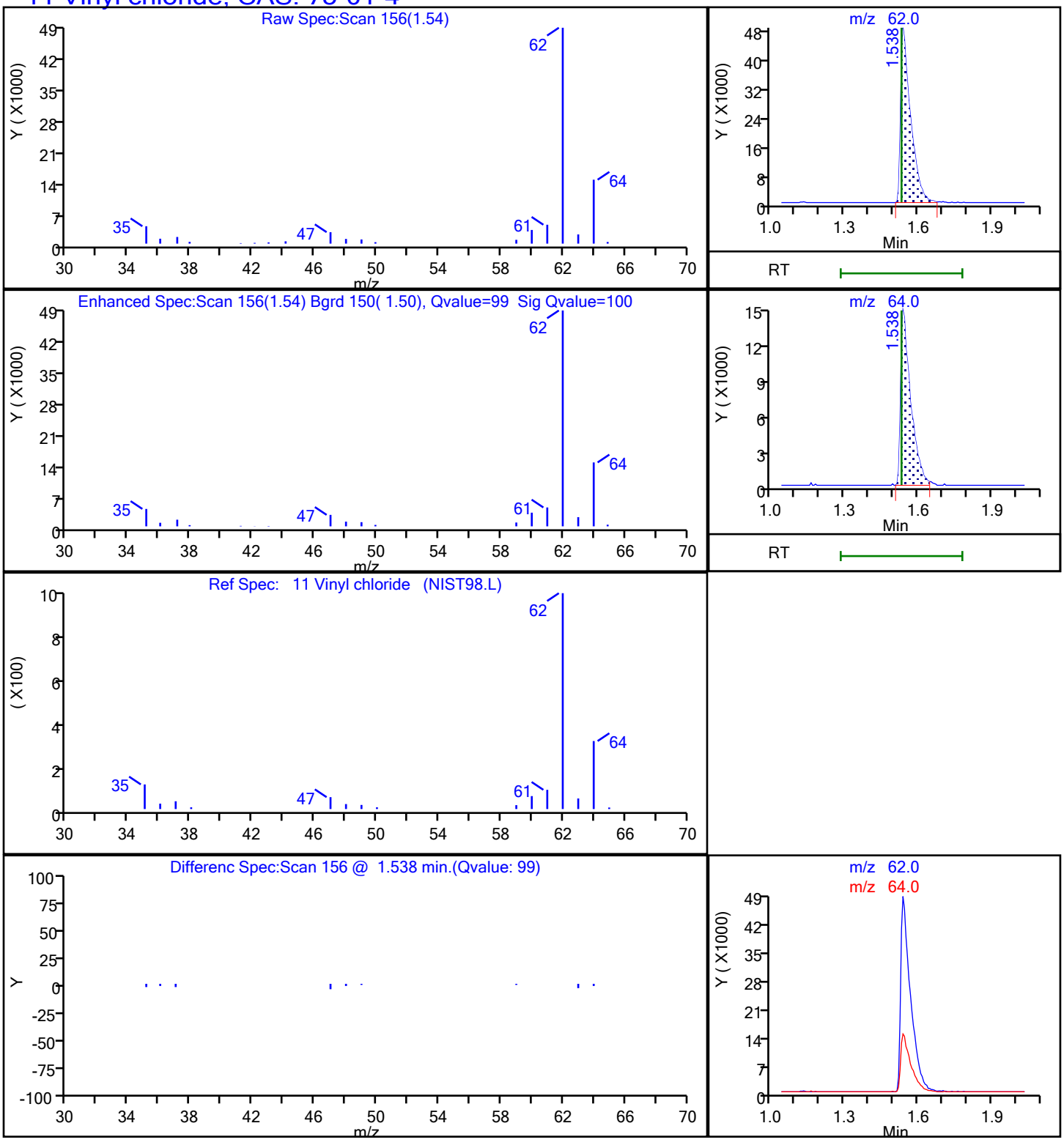


Report Date: 19-Nov-2020 06:54:34 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D				
Injection Date:	18-Nov-2020 08:31:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-3	Lab Sample ID:	310-140187-3		
Client ID:	GW-110620-BE-021				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

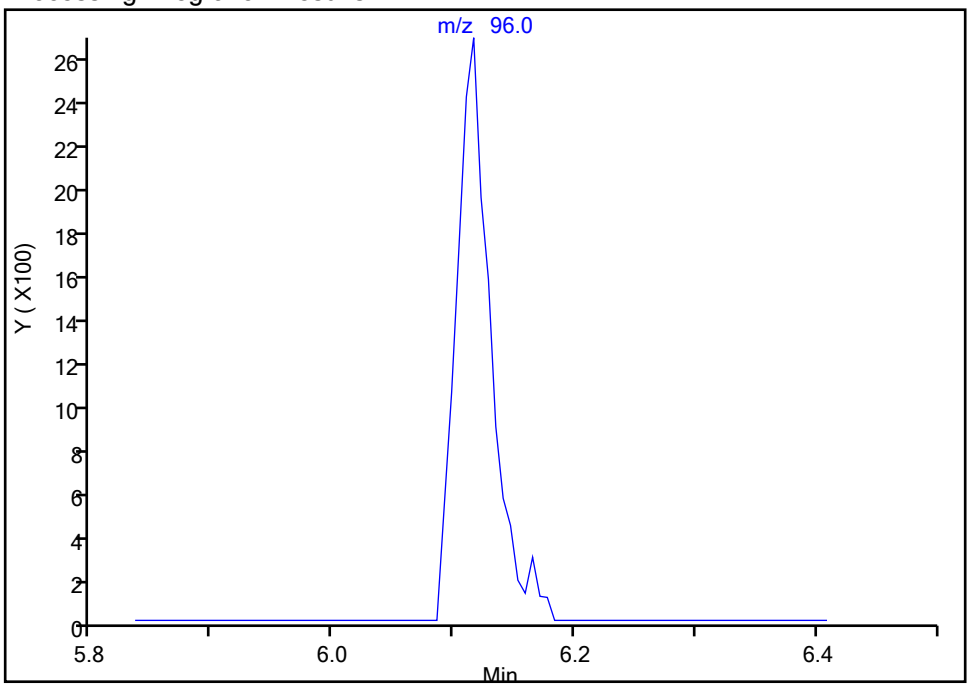
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8235.D				
Injection Date:	18-Nov-2020 08:31:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-3	Lab Sample ID:	310-140187-3		
Client ID:	GW-110620-BE-021				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

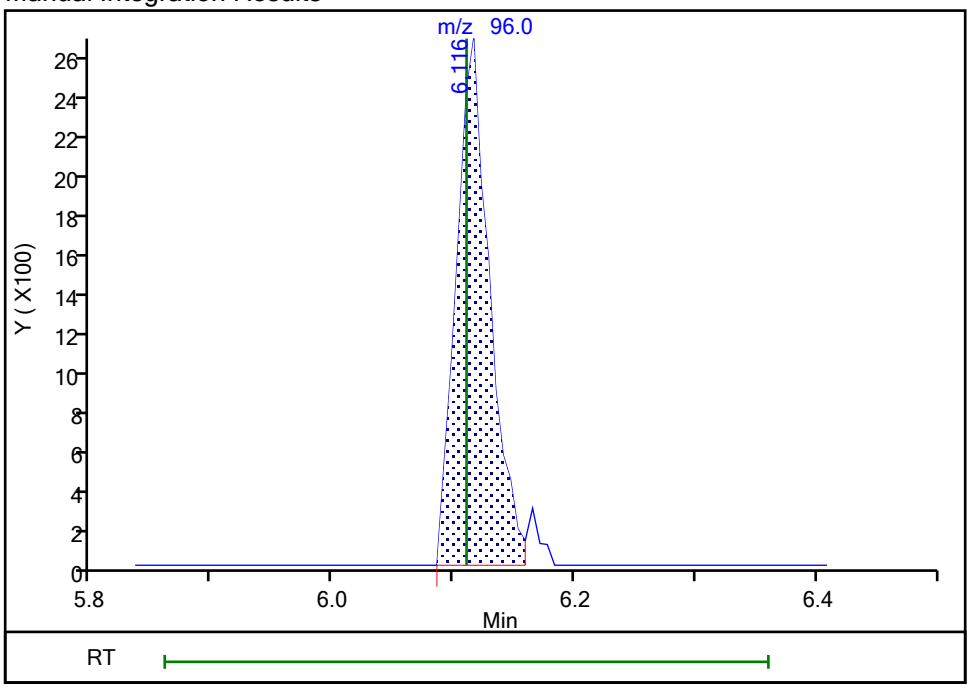
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.12
Area: 5076
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 18-Nov-2020 11:59:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-021 Lab Sample ID: 240-140187-3

Matrix: Water Lab File ID: c8305.D

Analysis Method: 8260D Date Collected: 11/06/2020 11:10

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 11:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	320	B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	109		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8305.D
Lims ID: 240-140187-B-3
Client ID: GW-110620-BE-021
Sample Type: Client
Inject. Date: 19-Nov-2020 11:58:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-020
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:47:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.373	0.006	0	202	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	165961	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	91	5170	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	118400	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	52668	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	40374	54.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	157194	51.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	41295	47.9	
$ 8 BFB	95	9.920	9.920	0.000	81	56277	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	128733	42.1	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	57698	29.6	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	69	2440	0.5402	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	48810	13.4	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	713590	320.2	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.805	5.805	0.000	1	207	0.0944	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		349.9	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

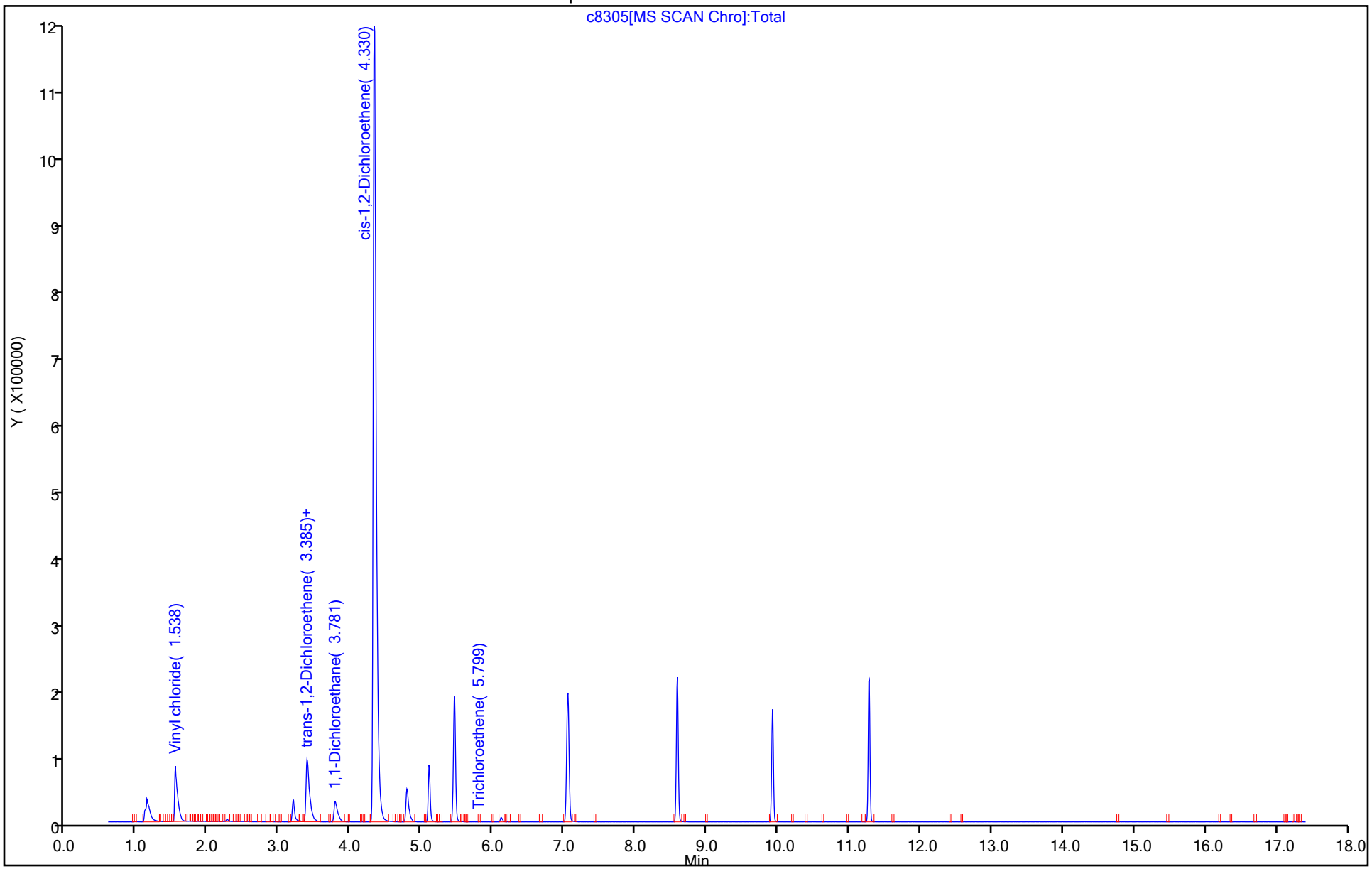
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:01 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8305.D				
Injection Date:	19-Nov-2020 11:58:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-3	Lab Sample ID:	310-140187-3	Worklist Smp#:	20
Client ID:	GW-110620-BE-021				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8305.D
Lims ID: 240-140187-B-3
Client ID: GW-110620-BE-021
Sample Type: Client
Inject. Date: 19-Nov-2020 11:58:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-020
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:47:33

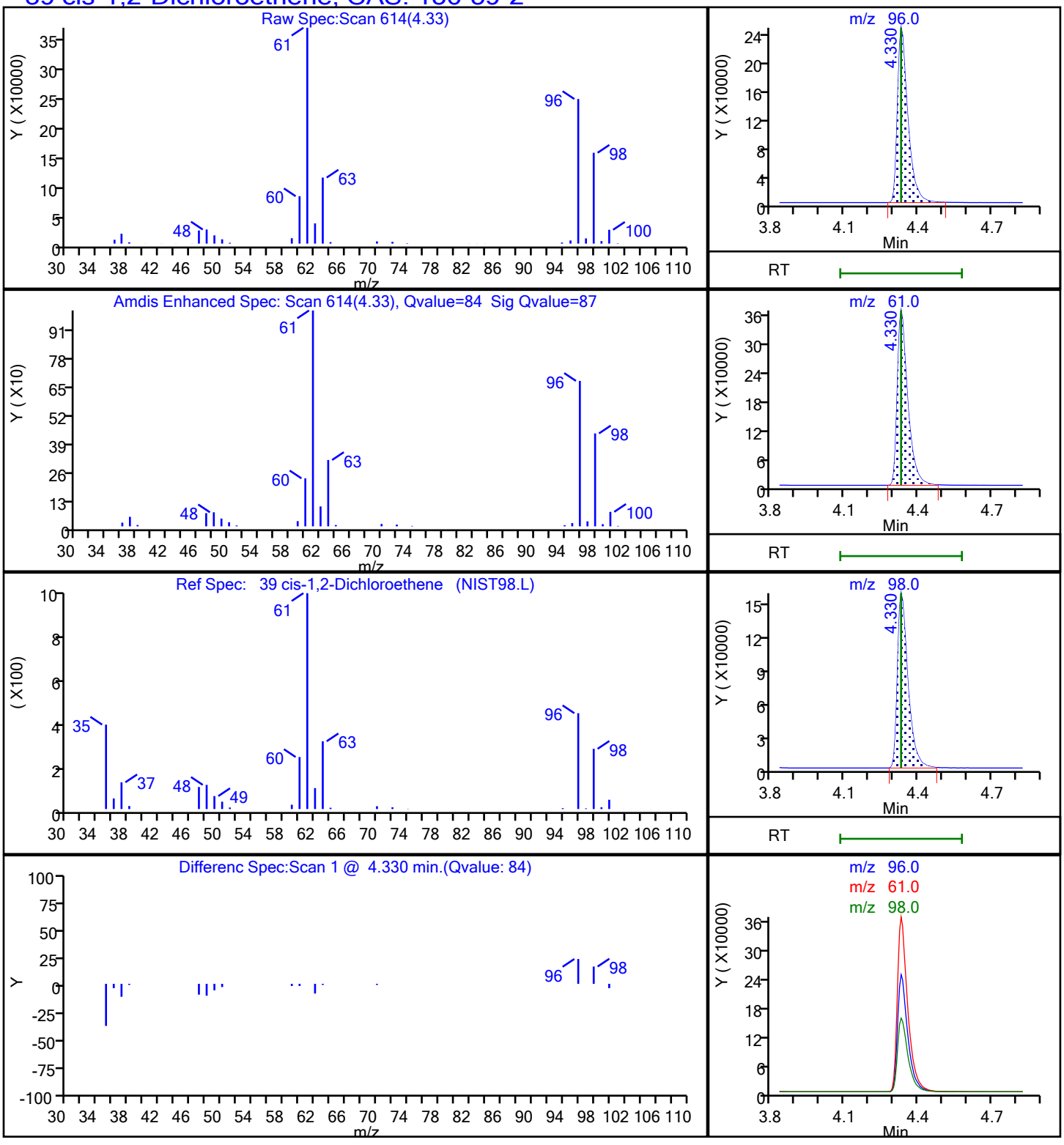
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.3	108.56
$ 6 Toluene-d8 (Surr)	50.0	51.8	103.57
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.85

Report Date: 20-Nov-2020 12:15:01 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8305.D				
Injection Date:	19-Nov-2020 11:58:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-3	Lab Sample ID:	310-140187-3		
Client ID:	GW-110620-BE-021				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

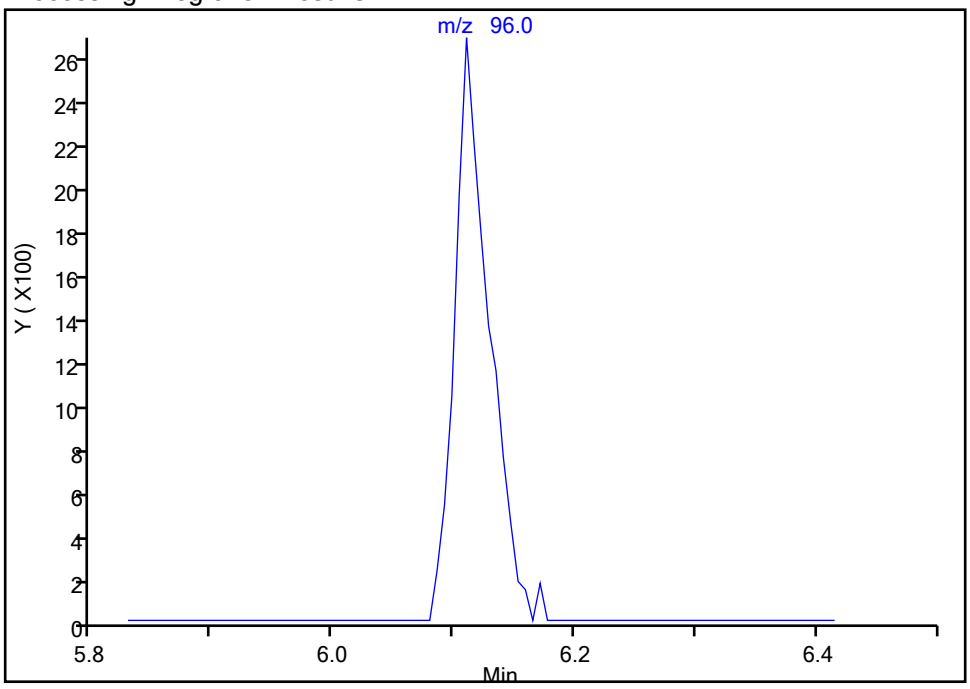
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8305.D				
Injection Date:	19-Nov-2020 11:58:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-3	Lab Sample ID:	310-140187-3		
Client ID:	GW-110620-BE-021				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

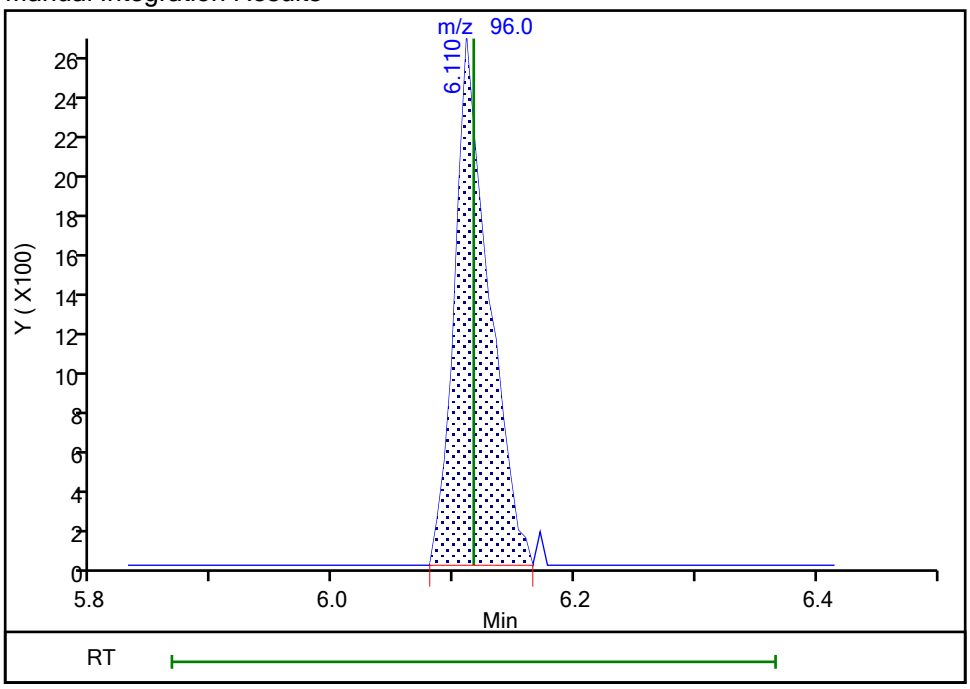
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5170
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:47:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-022 Lab Sample ID: 240-140187-4

Matrix: Water Lab File ID: c8236.D

Analysis Method: 8260D Date Collected: 11/06/2020 12:45

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 08:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	0.64	J	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	63		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-022 Lab Sample ID: 240-140187-4

Matrix: Water Lab File ID: c8236.D

Analysis Method: 8260D Date Collected: 11/06/2020 12:45

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 08:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8236.D
Lims ID: 240-140187-A-4
Client ID: GW-110620-BE-022
Sample Type: Client
Inject. Date: 18-Nov-2020 08:56:30 ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:10:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.385	-0.012	0	245	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	190510	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6023	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	93	136747	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	60045	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	44063	51.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	179930	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	48468	49.3	
$ 8 BFB	95	9.920	9.920	0.000	82	66321	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	98	219718	62.6	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	91	1440	0.6442	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	30124	11.8	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92	7.105	7.116	-0.011	0	0	0	a
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		12.4	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

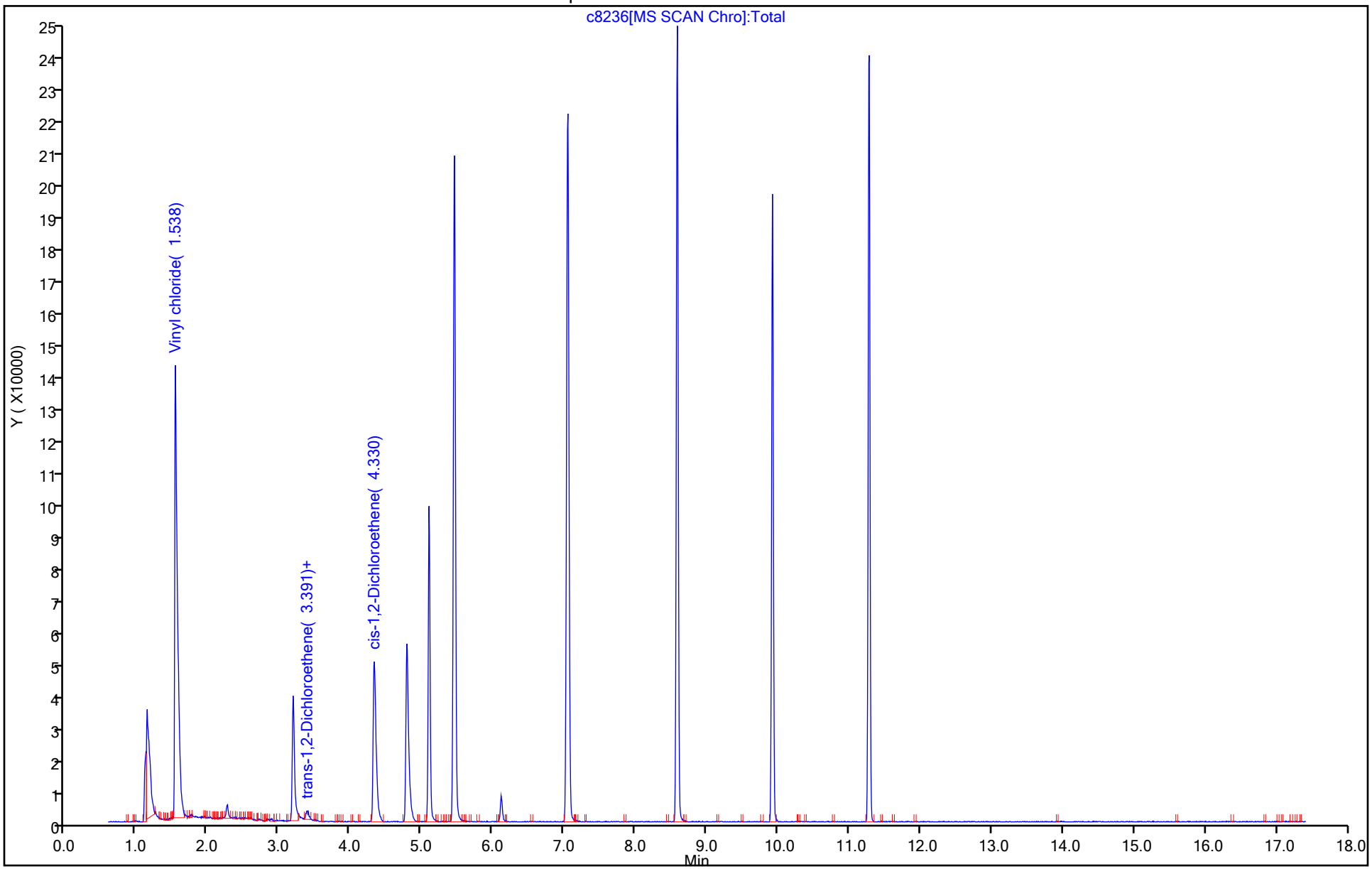
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8236.D				
Injection Date:	18-Nov-2020 08:56:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-4	Lab Sample ID:	310-140187-4	Worklist Smp#:	12
Client ID:	GW-110620-BE-022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8236.D
Lims ID: 240-140187-A-4
Client ID: GW-110620-BE-022
Sample Type: Client
Inject. Date: 18-Nov-2020 08:56:30 ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:10:38

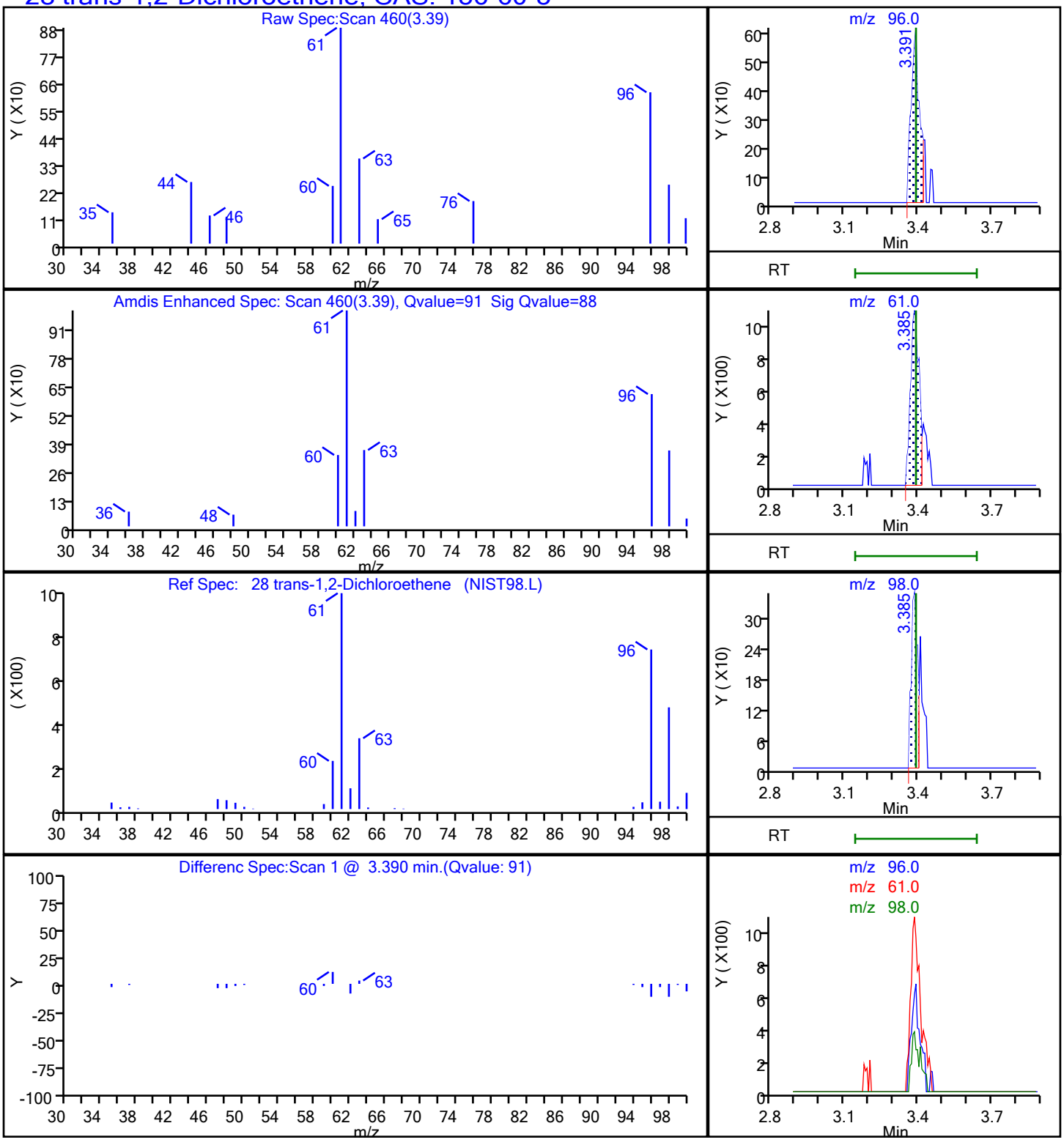
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.6	103.21
$ 6 Toluene-d8 (Surr)	50.0	51.3	102.64
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.3	98.68

Report Date: 19-Nov-2020 06:54:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8236.D				
Injection Date:	18-Nov-2020 08:56:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-4	Lab Sample ID:	310-140187-4		
Client ID:	GW-110620-BE-022				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

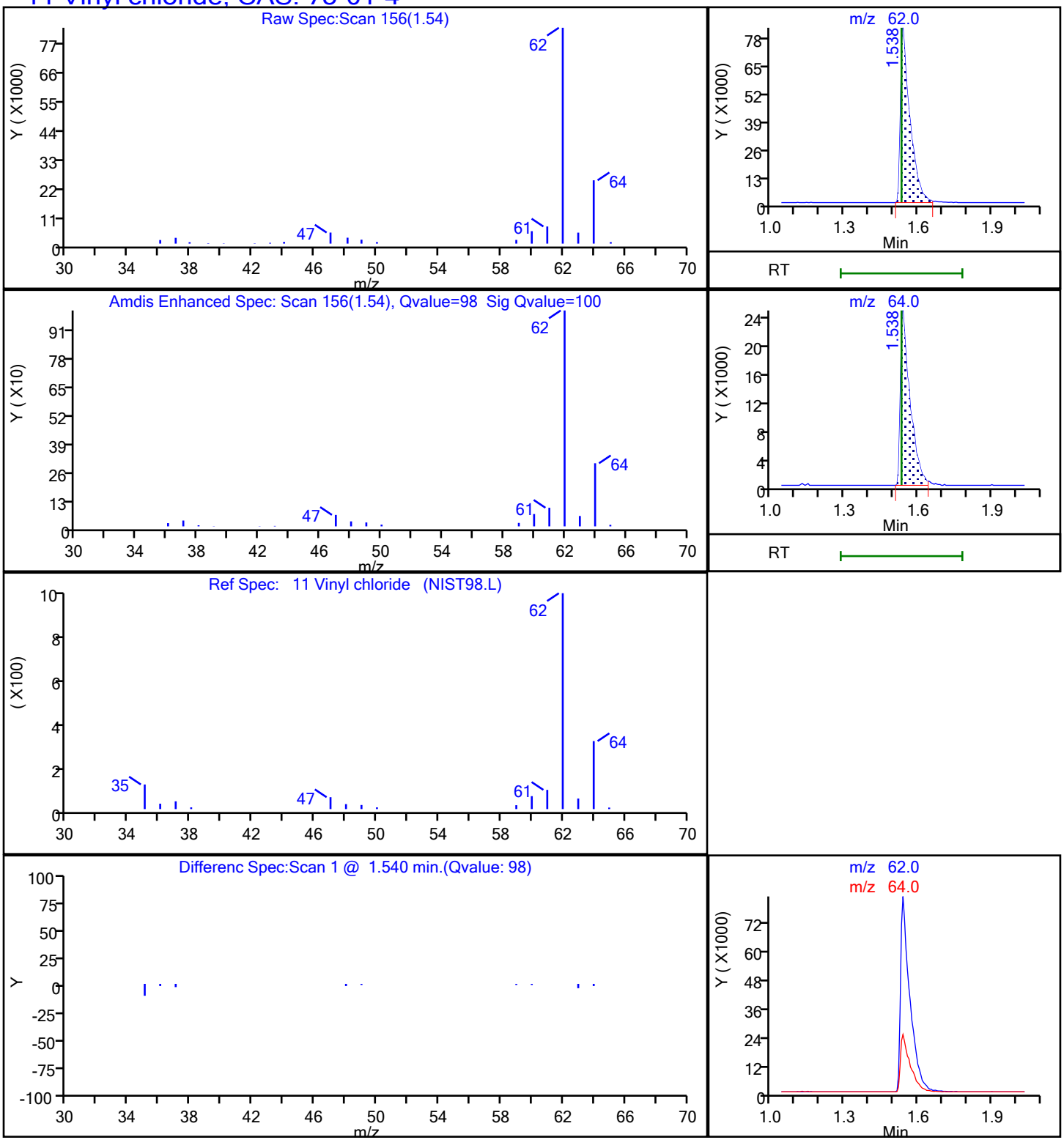


Report Date: 19-Nov-2020 06:54:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8236.D				
Injection Date:	18-Nov-2020 08:56:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-4	Lab Sample ID:	310-140187-4		
Client ID:	GW-110620-BE-022				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

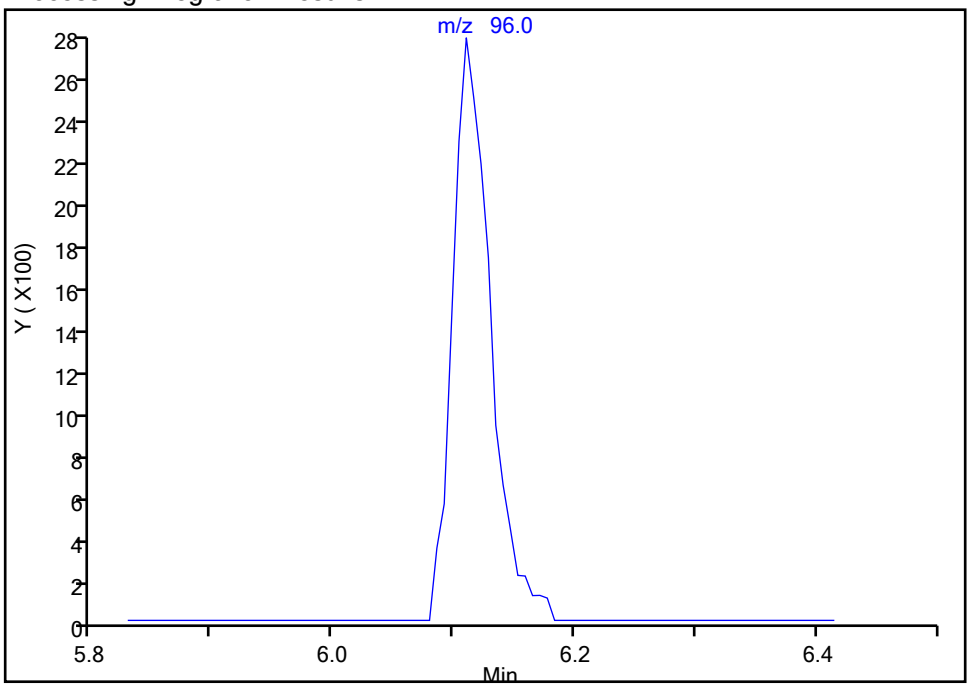
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8236.D				
Injection Date:	18-Nov-2020 08:56:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-4	Lab Sample ID:	310-140187-4		
Client ID:	GW-110620-BE-022				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

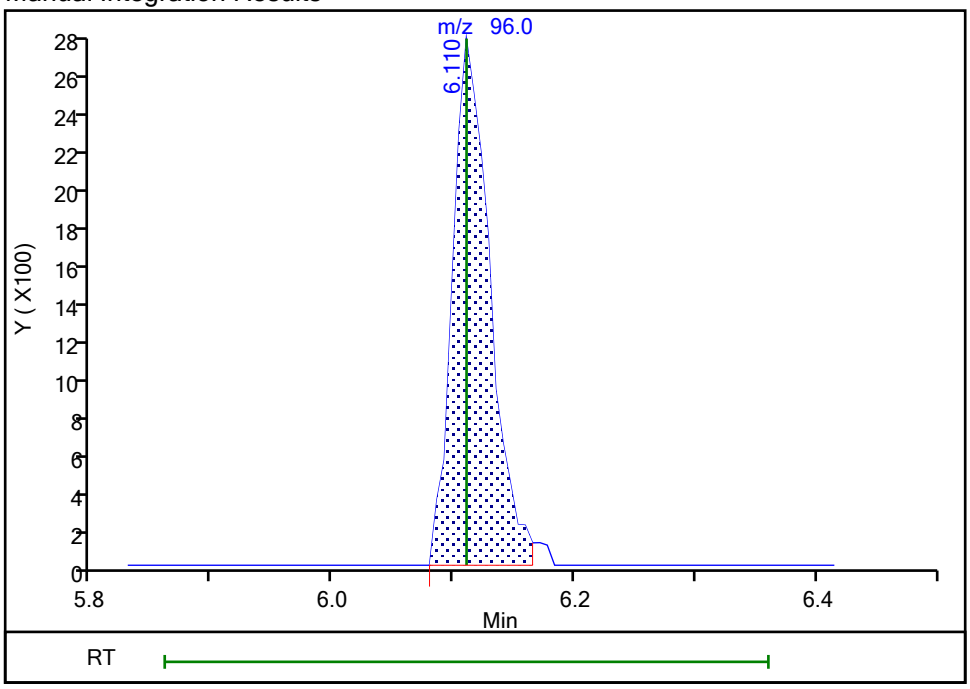
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6023
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:10:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-022 Lab Sample ID: 240-140187-4

Matrix: Water Lab File ID: c8295.D

Analysis Method: 8260D Date Collected: 11/06/2020 12:45

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 07:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	13	B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8295.D
Lims ID: 240-140187-B-4
Client ID: GW-110620-BE-022
Sample Type: Client
Inject. Date: 19-Nov-2020 07:52:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-010
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:28:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.373	0.006	0	267	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	165829	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	95	5296	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	120186	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53039	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	39493	53.1	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	156772	50.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	42236	48.7	
$ 8 BFB	95	9.920	9.920	0.000	81	55848	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	238308	78.0	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.843	2.842	0.001	57	922	0.1826	Ma
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	96	1560	0.8017	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.324	4.330	-0.006	84	28793	12.9	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.335			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.243			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.896			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.310			ND		
110 1,2,3-Trimethylbenzene	105		11.390			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.767			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.694			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.980			ND		
99 1,2,3-Trichlorobenzene	180		14.279			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
138 Dodecane	57		0.000			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
133 Isooctane	57		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		13.7	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

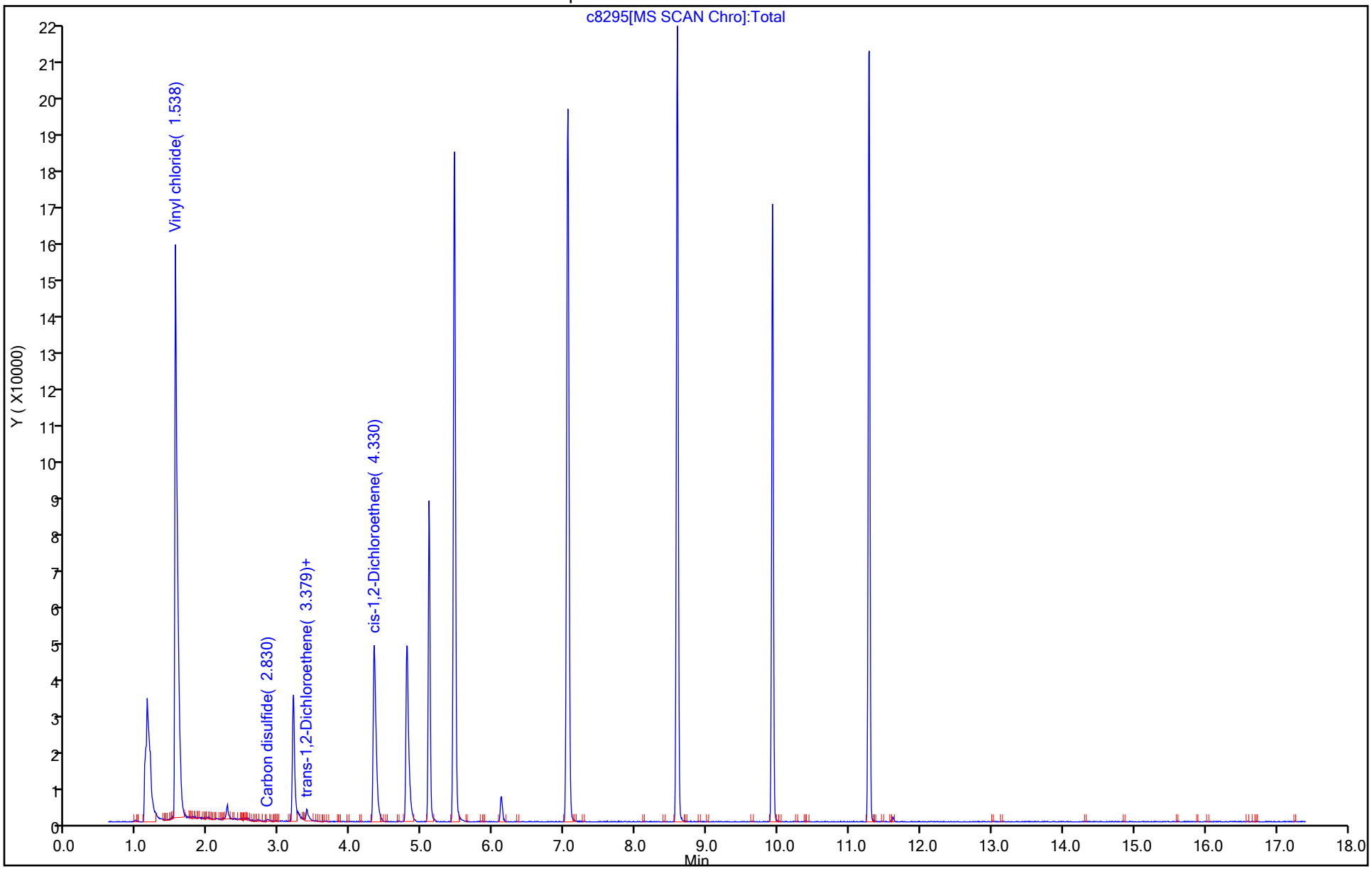
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8295.D				
Injection Date:	19-Nov-2020 07:52:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-4	Lab Sample ID:	310-140187-4	Worklist Smp#:	10
Client ID:	GW-110620-BE-022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8295.D
Lims ID: 240-140187-B-4
Client ID: GW-110620-BE-022
Sample Type: Client
Inject. Date: 19-Nov-2020 07:52:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-010
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:28:35

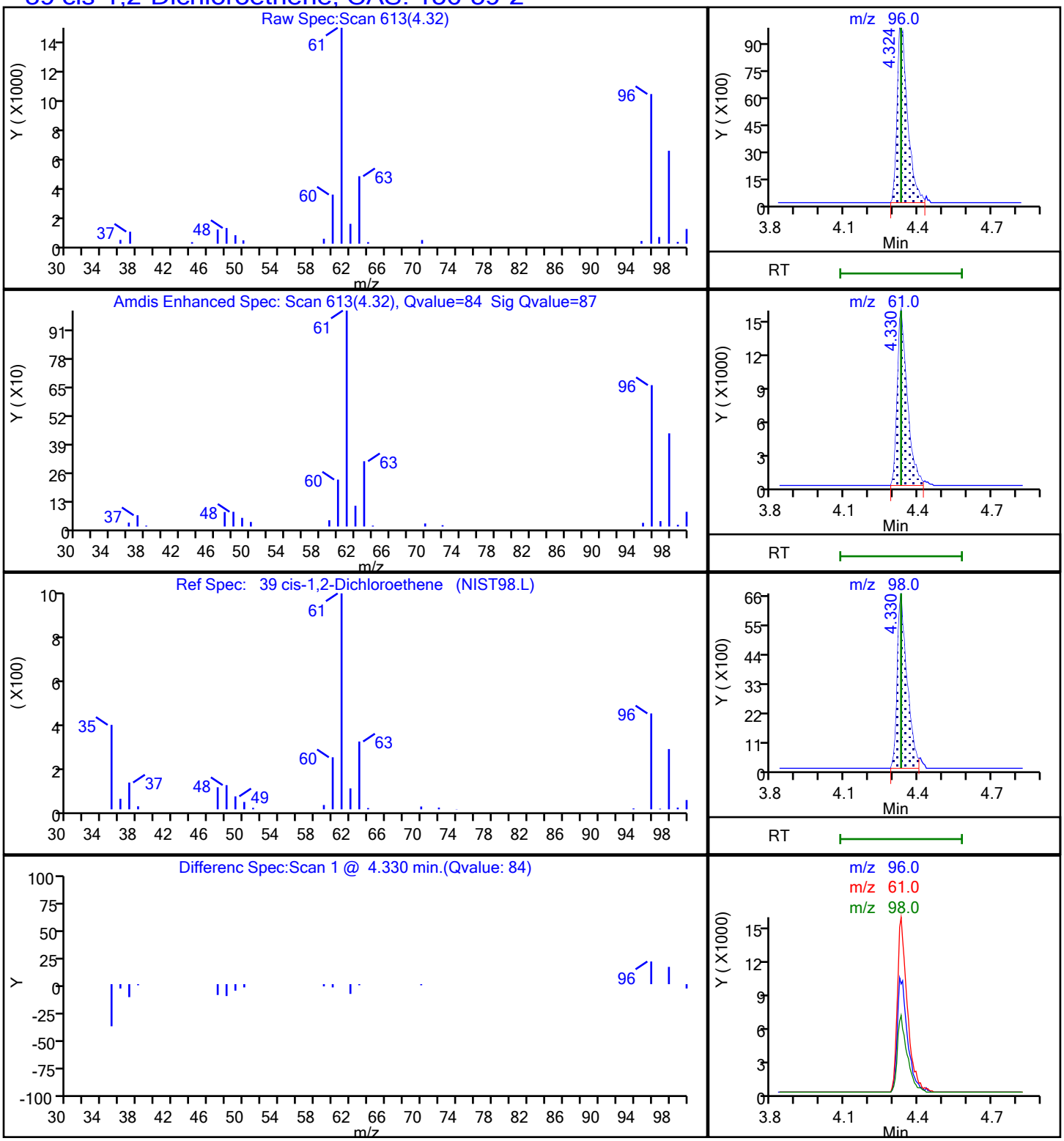
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.1	106.28
$ 6 Toluene-d8 (Surr)	50.0	50.9	101.75
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.7	97.35

Report Date: 20-Nov-2020 12:14:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8295.D				
Injection Date:	19-Nov-2020 07:52:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-4	Lab Sample ID:	310-140187-4		
Client ID:	GW-110620-BE-022				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

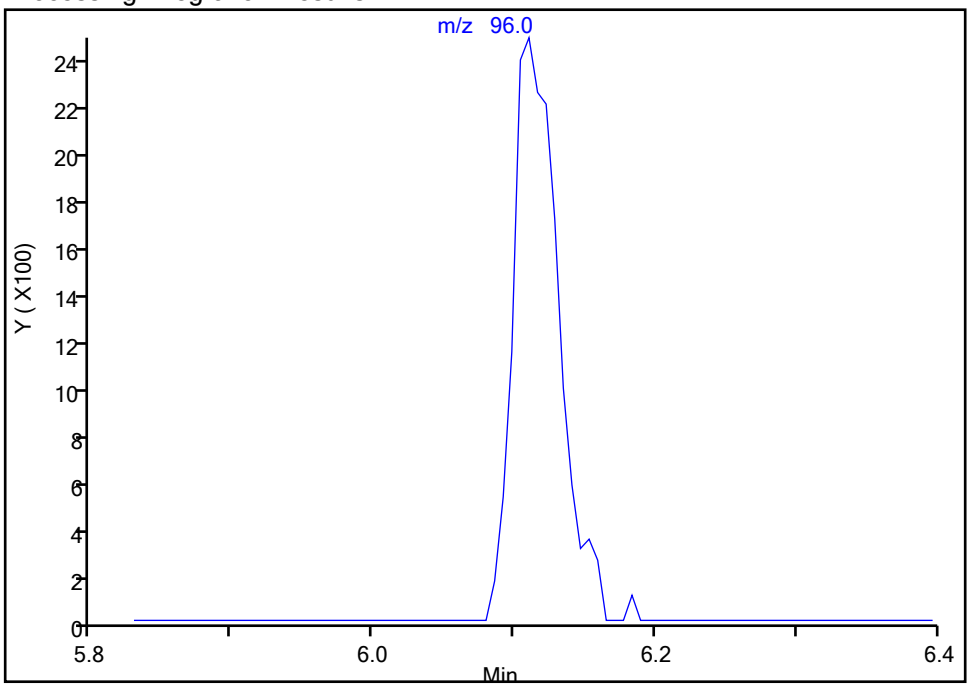
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8295.D				
Injection Date:	19-Nov-2020 07:52:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-4	Lab Sample ID:	310-140187-4		
Client ID:	GW-110620-BE-022				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

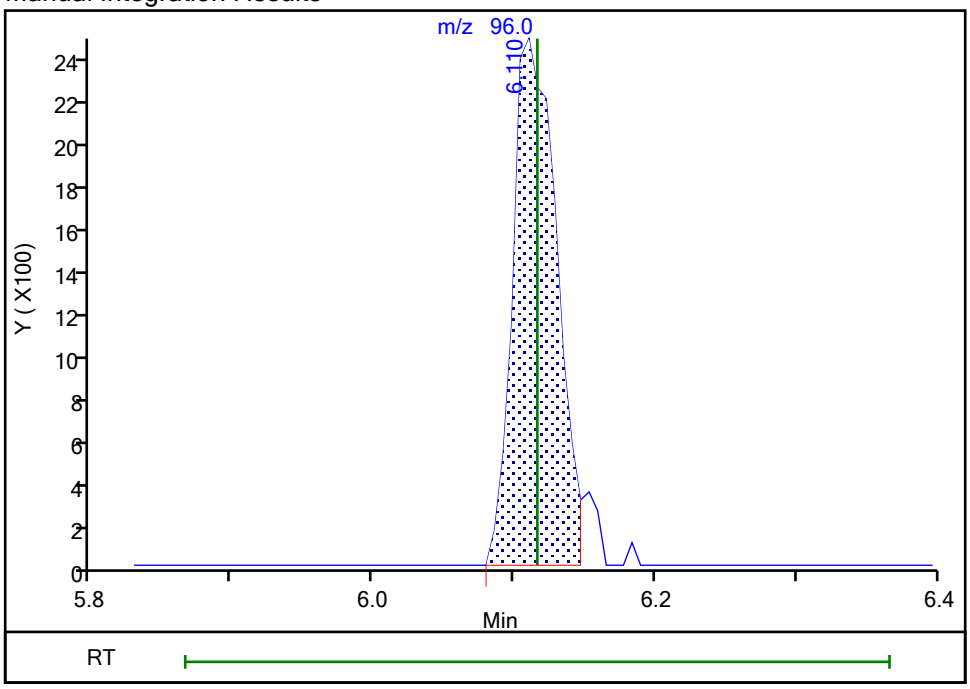
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5296
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:28:29
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-023 Lab Sample ID: 240-140187-5

Matrix: Water Lab File ID: c8237.D

Analysis Method: 8260D Date Collected: 11/06/2020 13:48

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 09:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	0.54	J	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	0.28	J	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	0.49	J	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-023 Lab Sample ID: 240-140187-5

Matrix: Water Lab File ID: c8237.D

Analysis Method: 8260D Date Collected: 11/06/2020 13:48

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 09:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D
Lims ID: 240-140187-A-5
Client ID: GW-110620-BE-023
Sample Type: Client
Inject. Date: 18-Nov-2020 09:20:30 ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:12:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	124	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	175622	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	95	5427	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	125711	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	55955	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	40861	51.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	165099	51.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	82	44153	48.2	
$ 8 BFB	95	9.920	9.920	0.000	81	60060	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	94	1593	0.4922	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43	2.721	2.715	0.007	30	574	-2.10	a
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	90	581	0.2819	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.781	0.006	85	2102	0.5438	a
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	19825	8.41	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.647	4.641	0.006	94	2333	0.5771	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.329			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.237			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.890			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.304			ND		
110 1,2,3-Trimethylbenzene	105		11.384			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.768			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.688			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.975			ND		
99 1,2,3-Trichlorobenzene	180		14.273			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
133 Isooctane	57		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
138 Dodecane	57		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		8.69	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

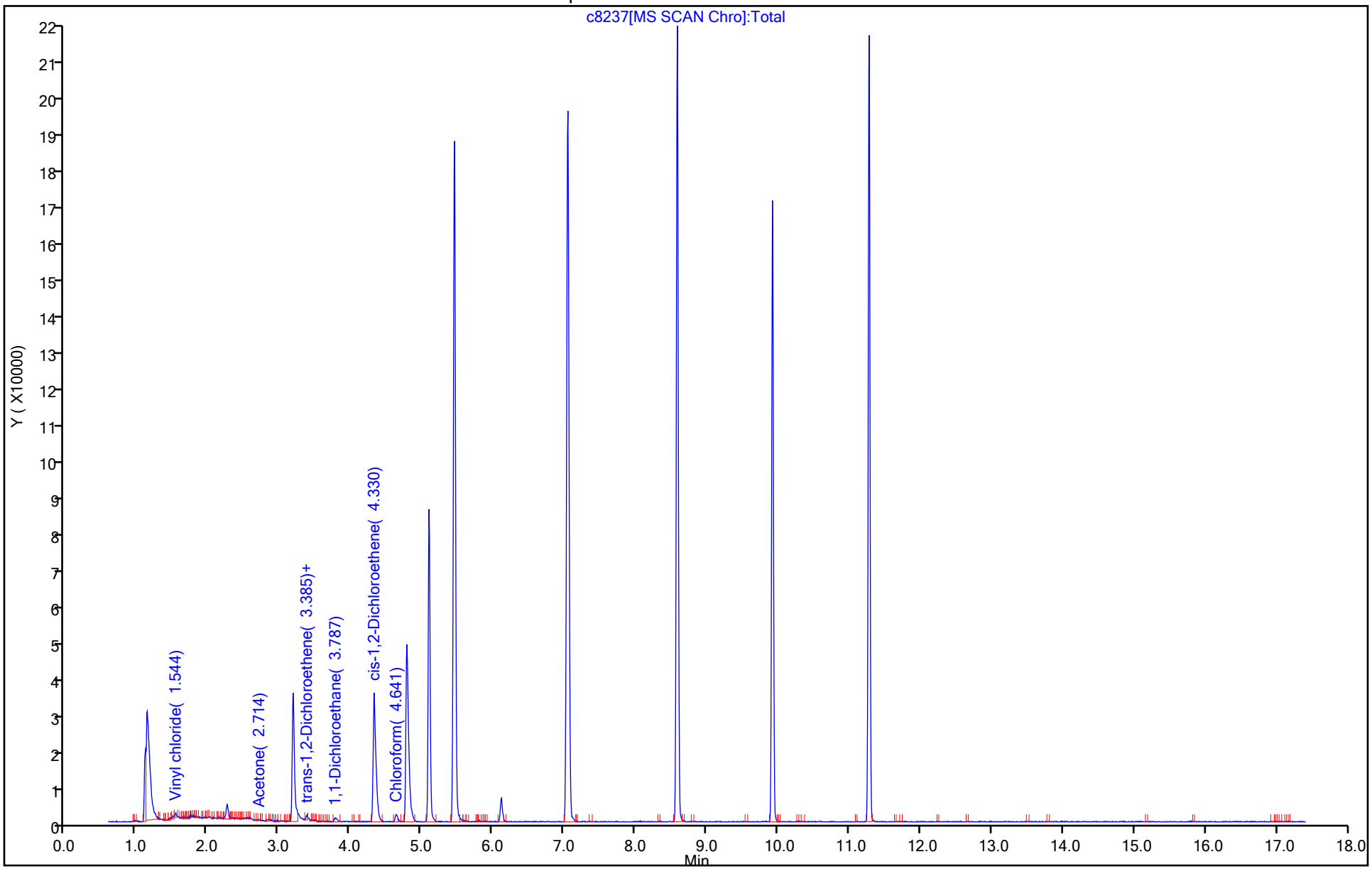
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5	Worklist Smp#:	13
Client ID:	GW-110620-BE-023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D
Lims ID: 240-140187-A-5
Client ID: GW-110620-BE-023
Sample Type: Client
Inject. Date: 18-Nov-2020 09:20:30 ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:12:33

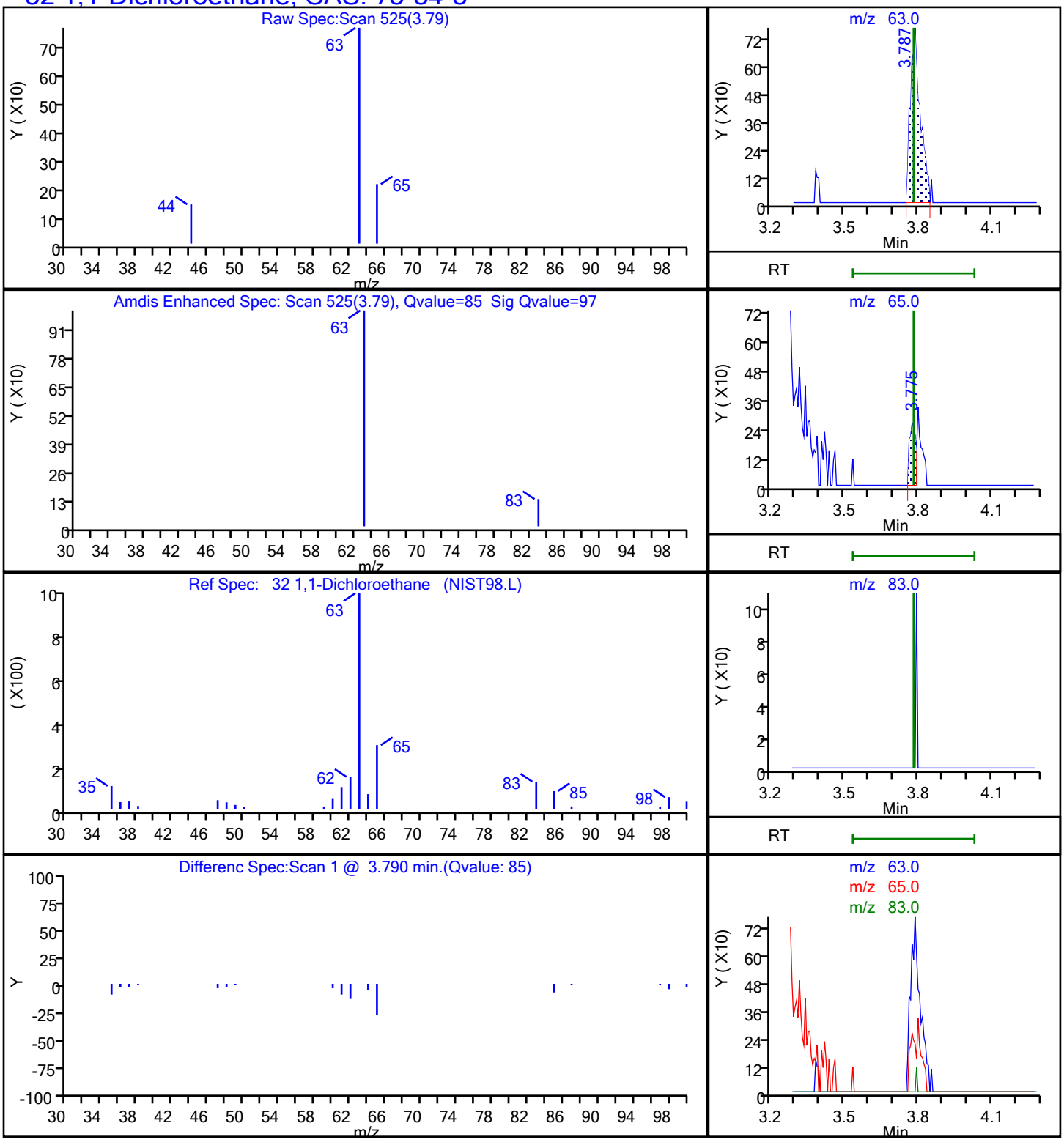
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.9	103.83
$ 6 Toluene-d8 (Surr)	50.0	51.2	102.45
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.2	96.46

Report Date: 19-Nov-2020 06:54:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

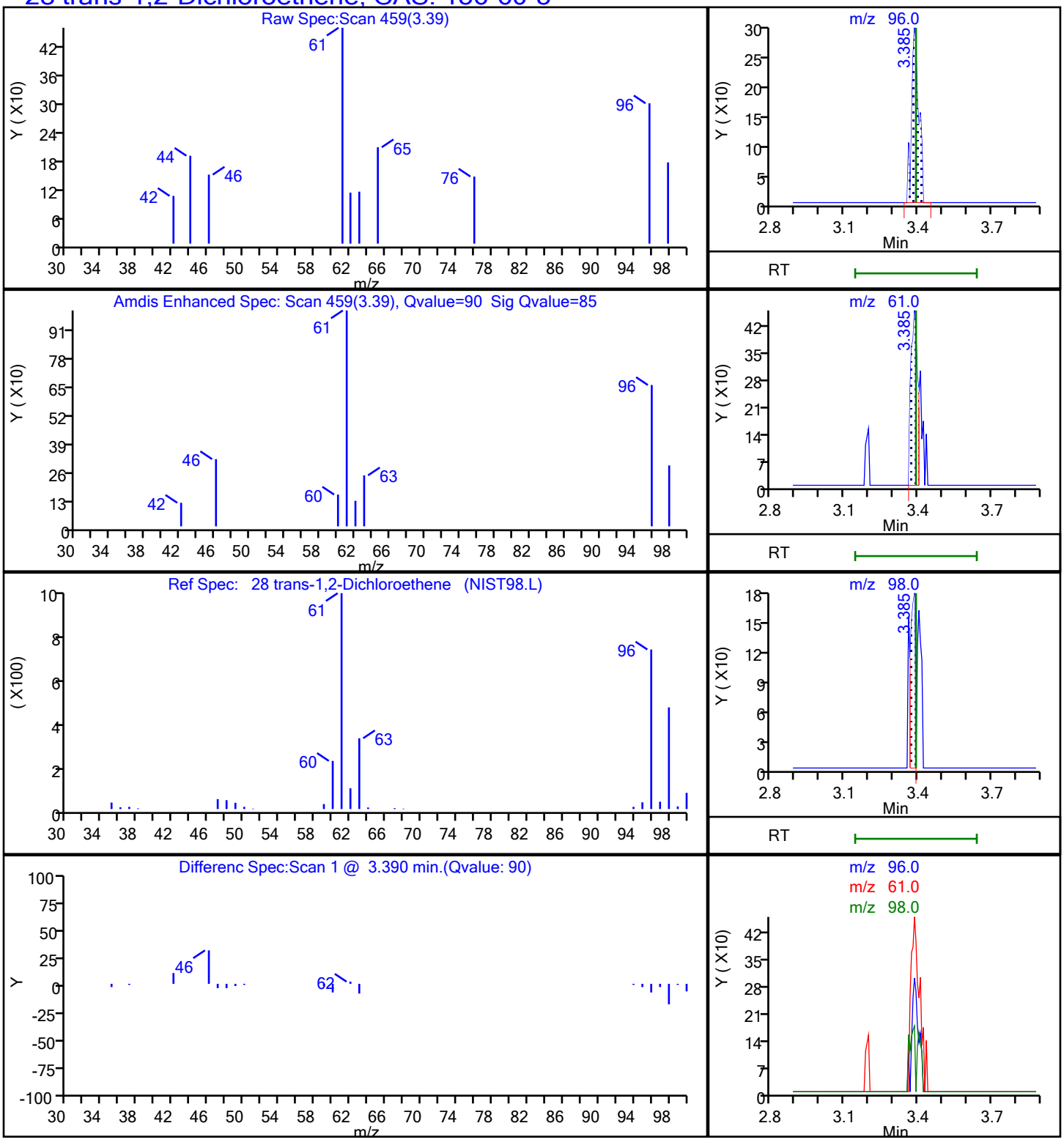


Report Date: 19-Nov-2020 06:54:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



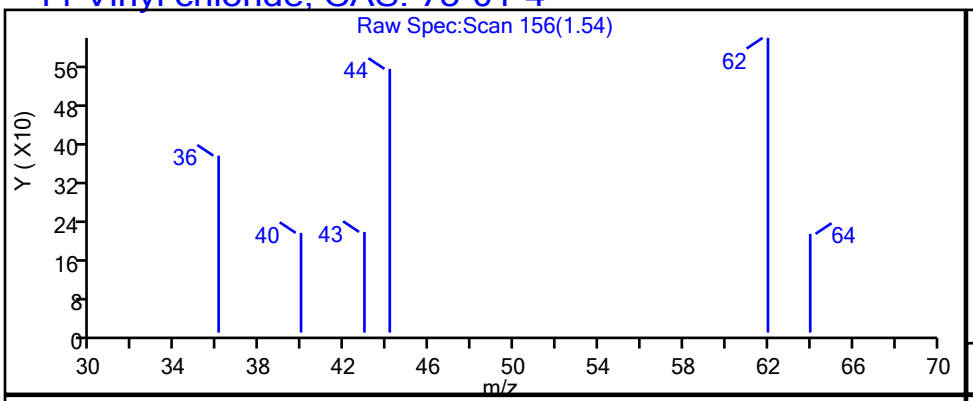
Report Date: 19-Nov-2020 06:54:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

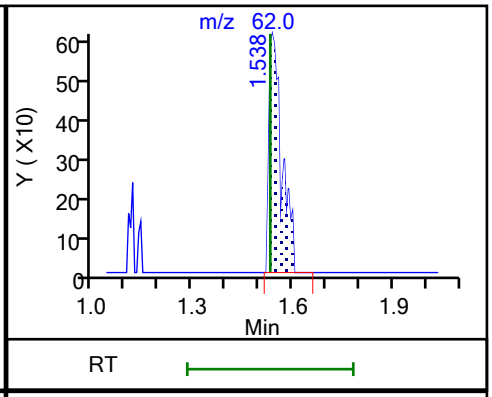
Eurofins TestAmerica, Cedar Falls

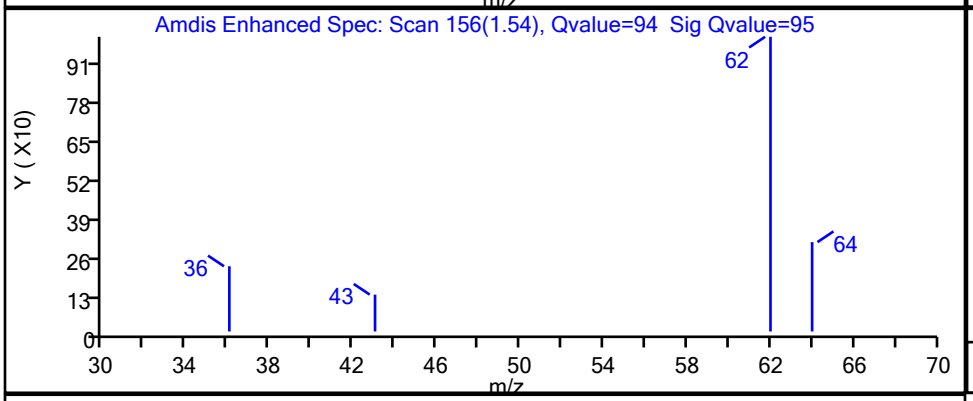
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D

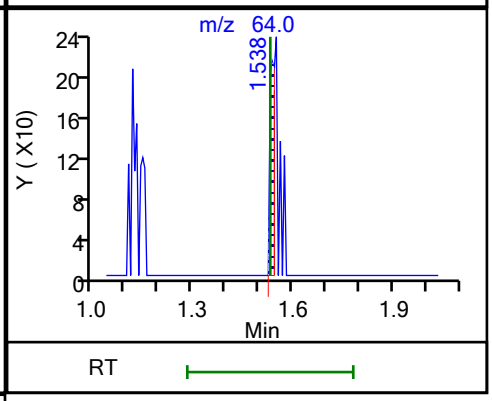
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5
Client ID:	GW-110620-BE-023		
Operator ID:	sjn	ALS Bottle#:	15 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

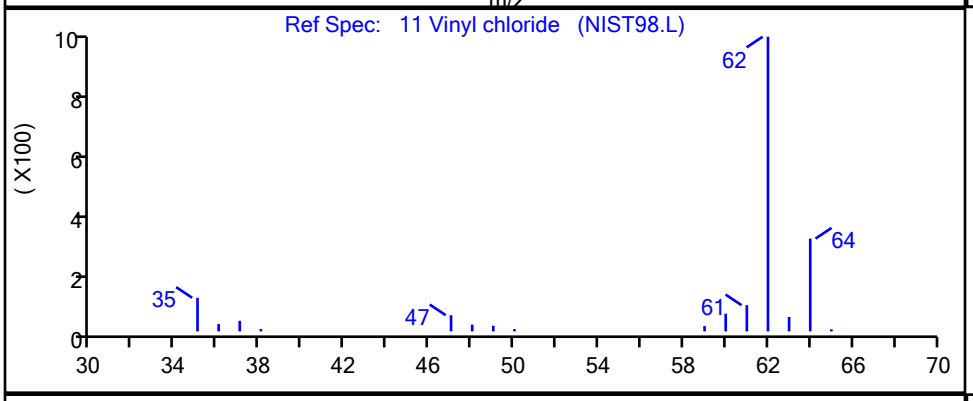
11 Vinyl chloride, CAS: 75-01-4

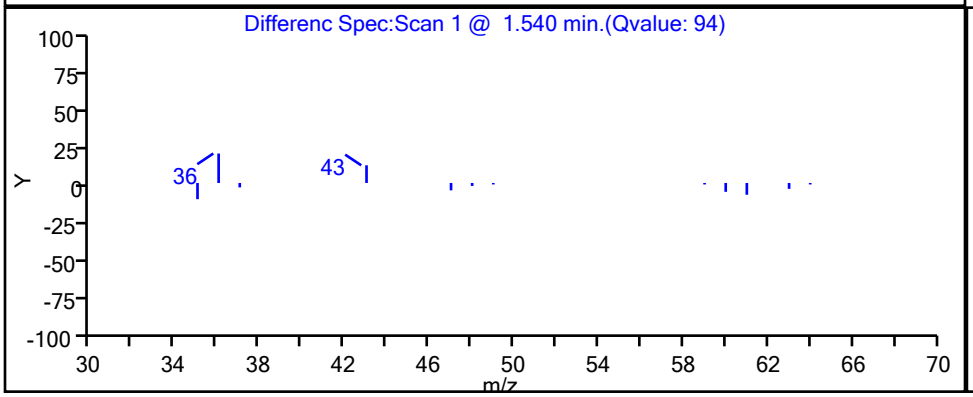


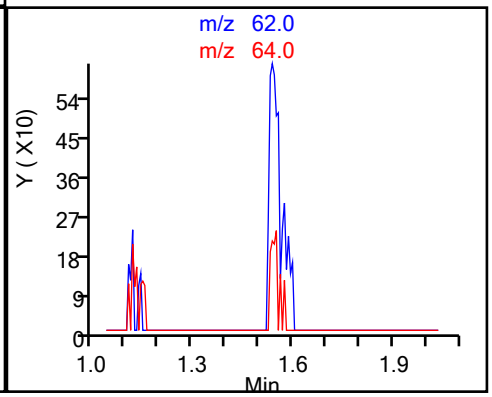












Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

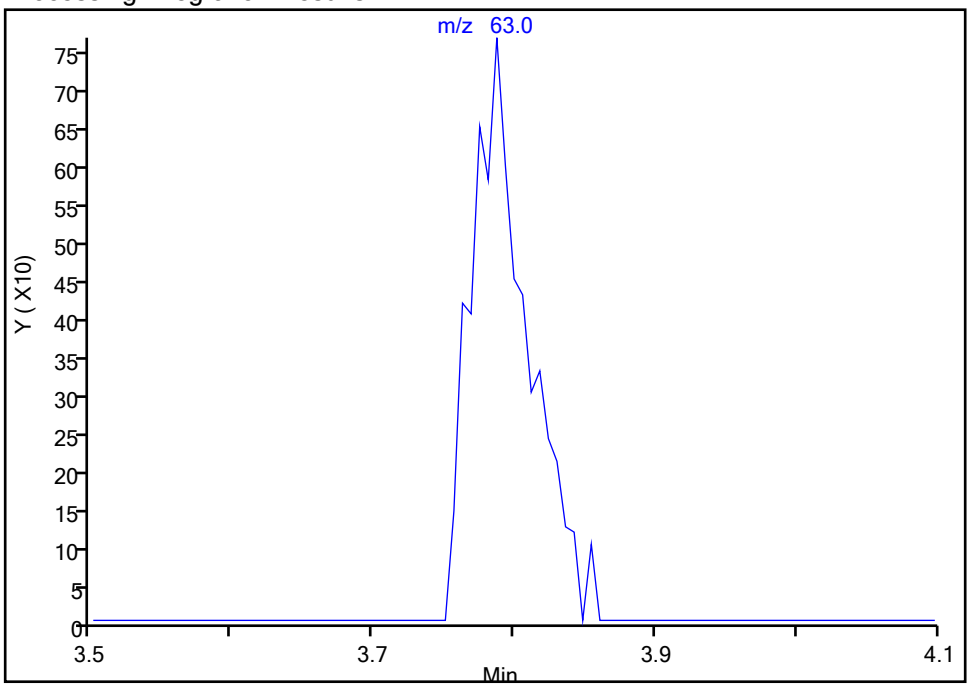
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

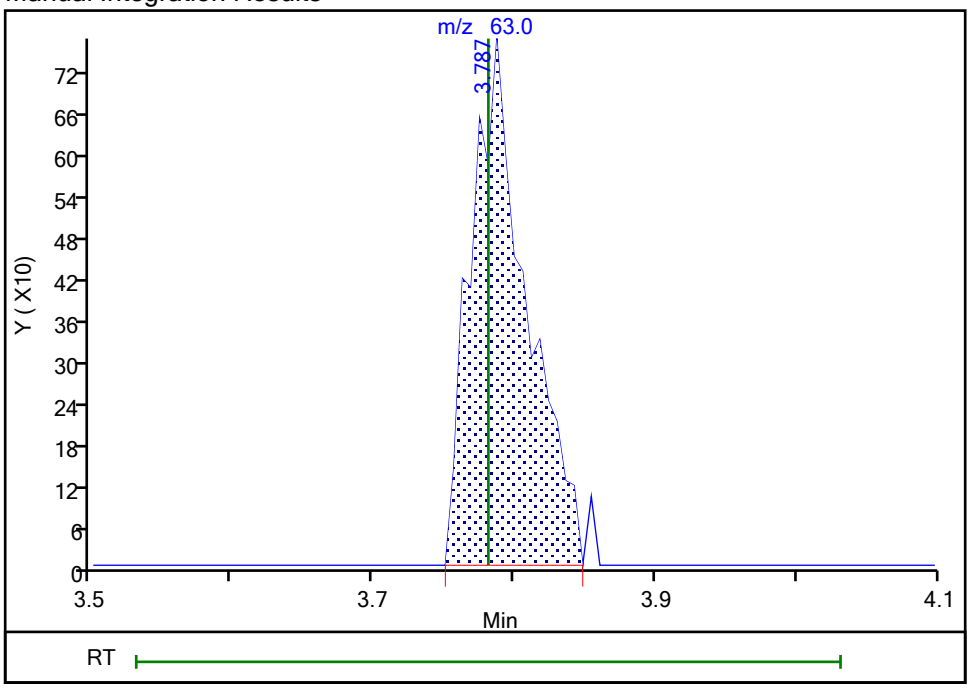
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 2102
Amount: 0.543831
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:11:54
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

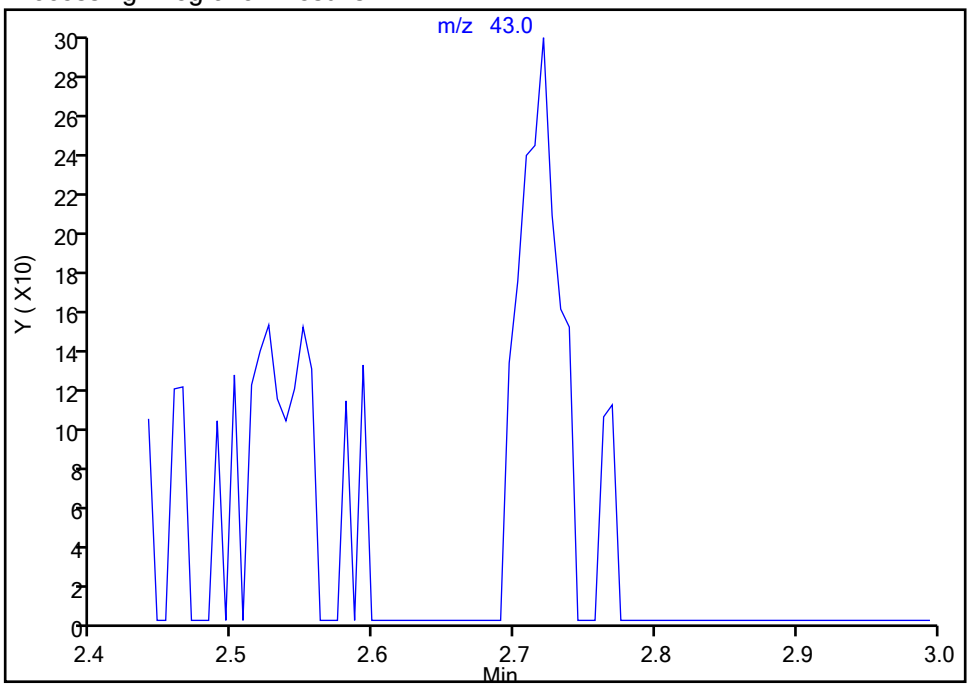
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

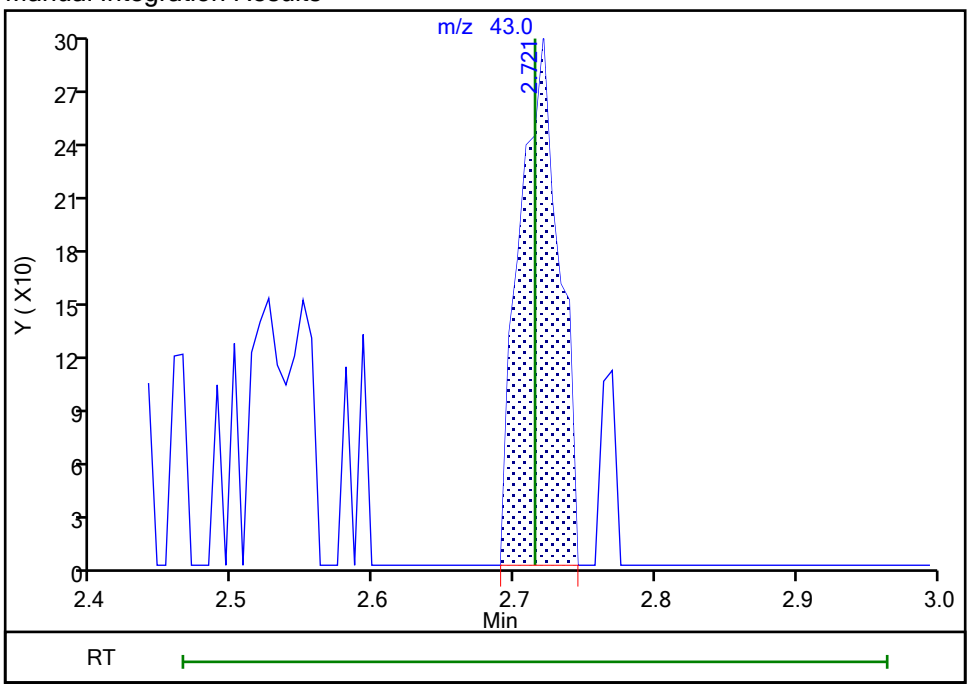
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 574
Amount: -2.102969
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:11:16
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

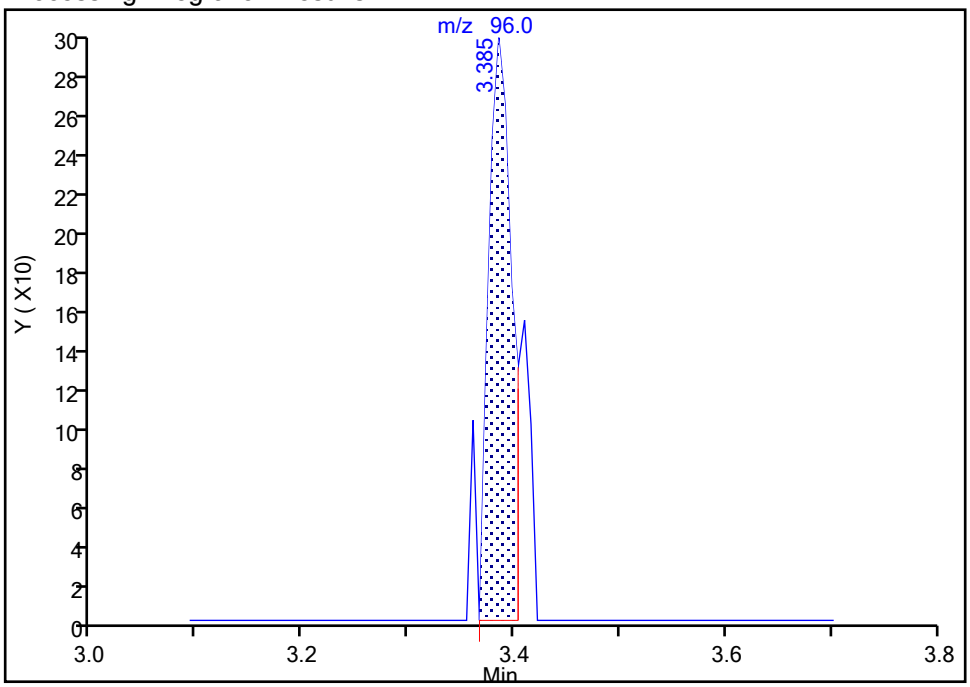
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

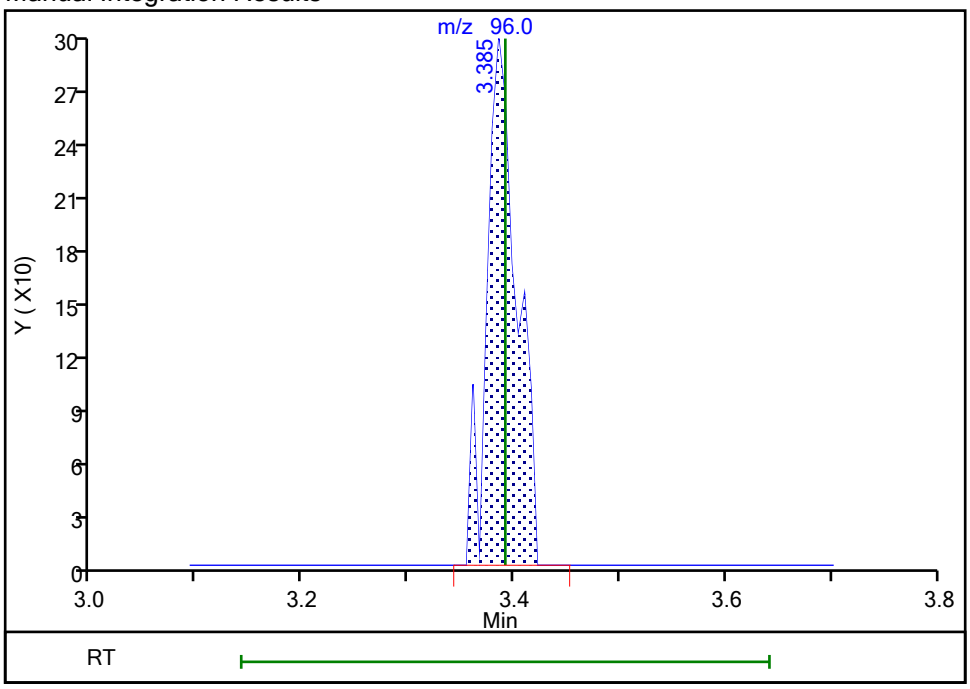
Processing Integration Results

RT: 3.39
Area: 451
Amount: 0.218847
Amount Units: ug/l



Manual Integration Results

RT: 3.39
Area: 581
Amount: 0.281930
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:11:30

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

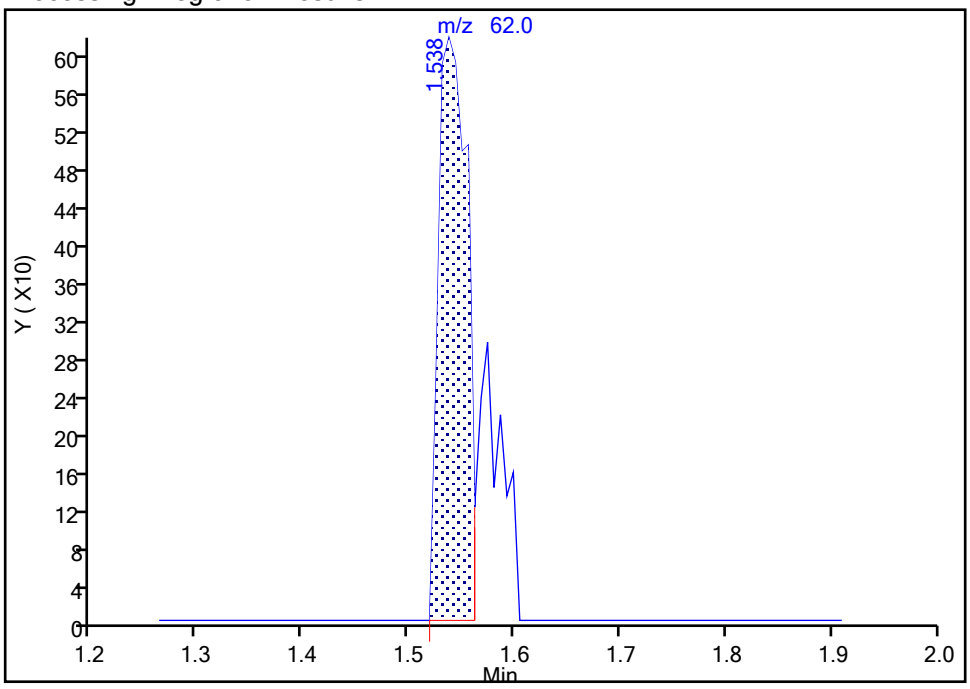
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

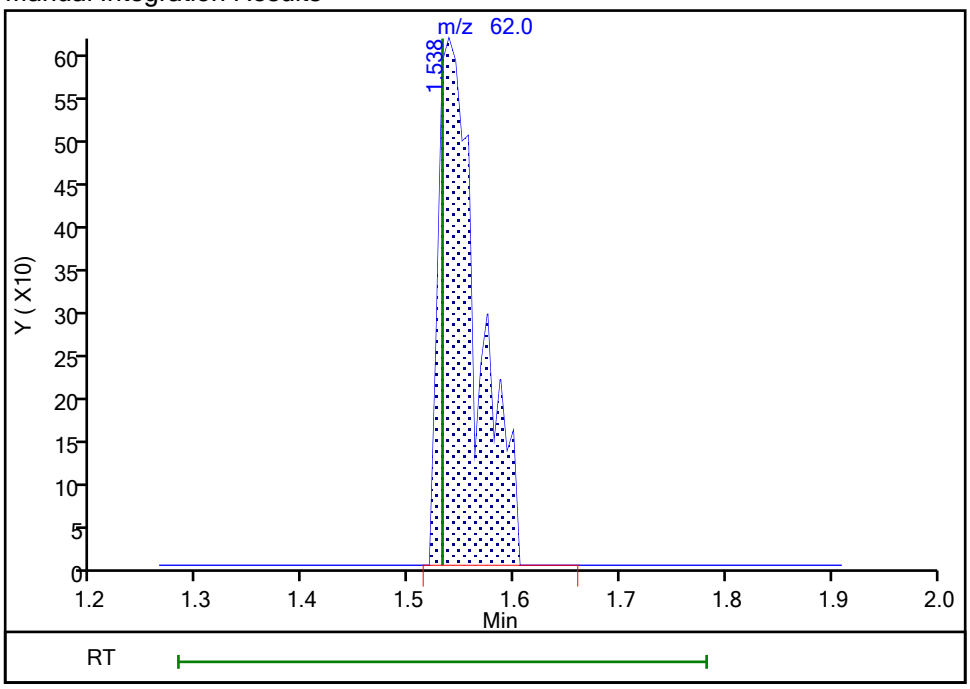
Processing Integration Results

RT: 1.54
Area: 1162
Amount: 0.359056
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 1593
Amount: 0.492235
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:11:03

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

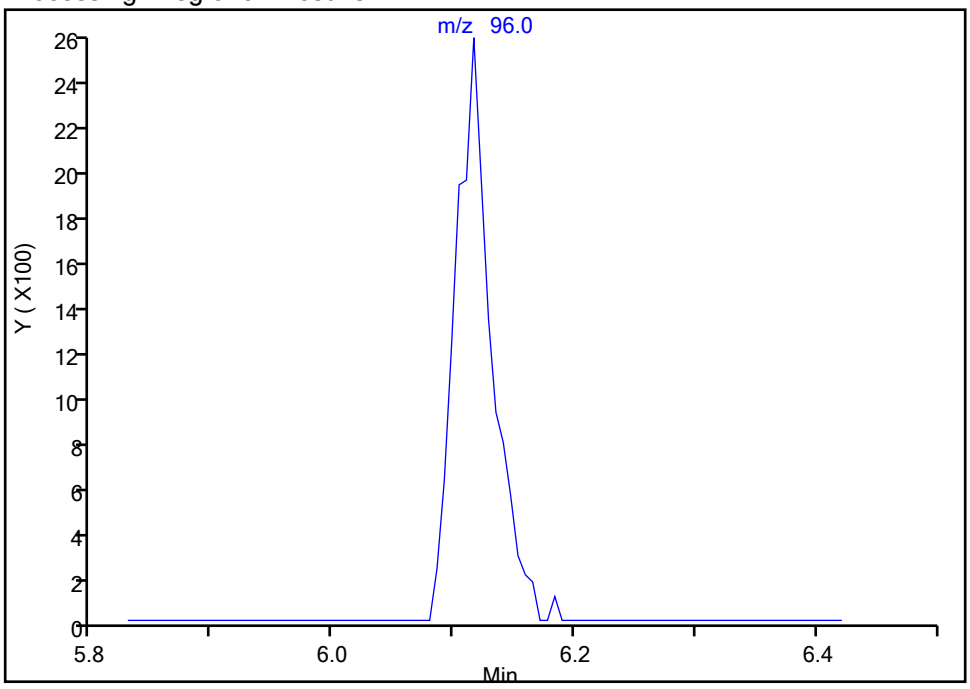
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8237.D				
Injection Date:	18-Nov-2020 09:20:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

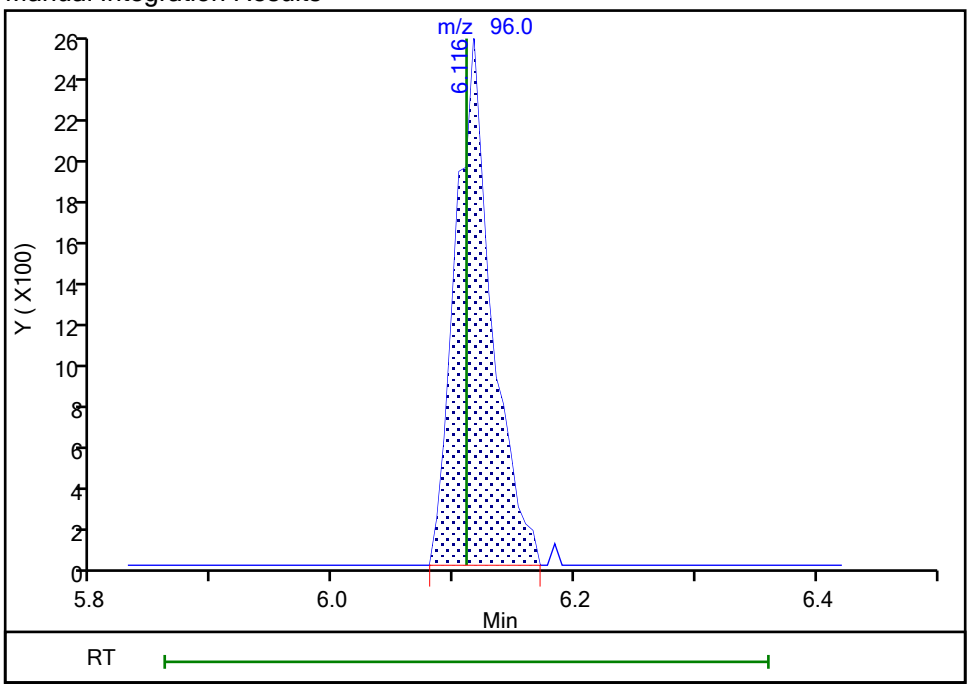
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5427
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:10:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-023 Lab Sample ID: 240-140187-5

Matrix: Water Lab File ID: c8296.D

Analysis Method: 8260D Date Collected: 11/06/2020 13:48

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 08:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	8.2	B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8296.D
Lims ID: 240-140187-B-5
Client ID: GW-110620-BE-023
Sample Type: Client
Inject. Date: 19-Nov-2020 08:17:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:30:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	420	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	181669	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	95	5516	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	129116	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	57695	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	42263	51.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	172021	52.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	45551	48.3	
$ 8 BFB	95	9.920	9.920	0.000	82	61778	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	95	1325	0.3958	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.379	3.391	-0.012	94	639	0.2998	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	89	2065	0.5165	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	20028	8.21	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.641	4.641	0.000	93	2176	0.5204	M
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.805	5.805	0.000	20	233	0.0971	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.335			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.243			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.896			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.310			ND		
110 1,2,3-Trimethylbenzene	105		11.390			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.767			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.694			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.980			ND		
99 1,2,3-Trichlorobenzene	180		14.279			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
138 Dodecane	57		0.000			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
133 Isooctane	57		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		8.51	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

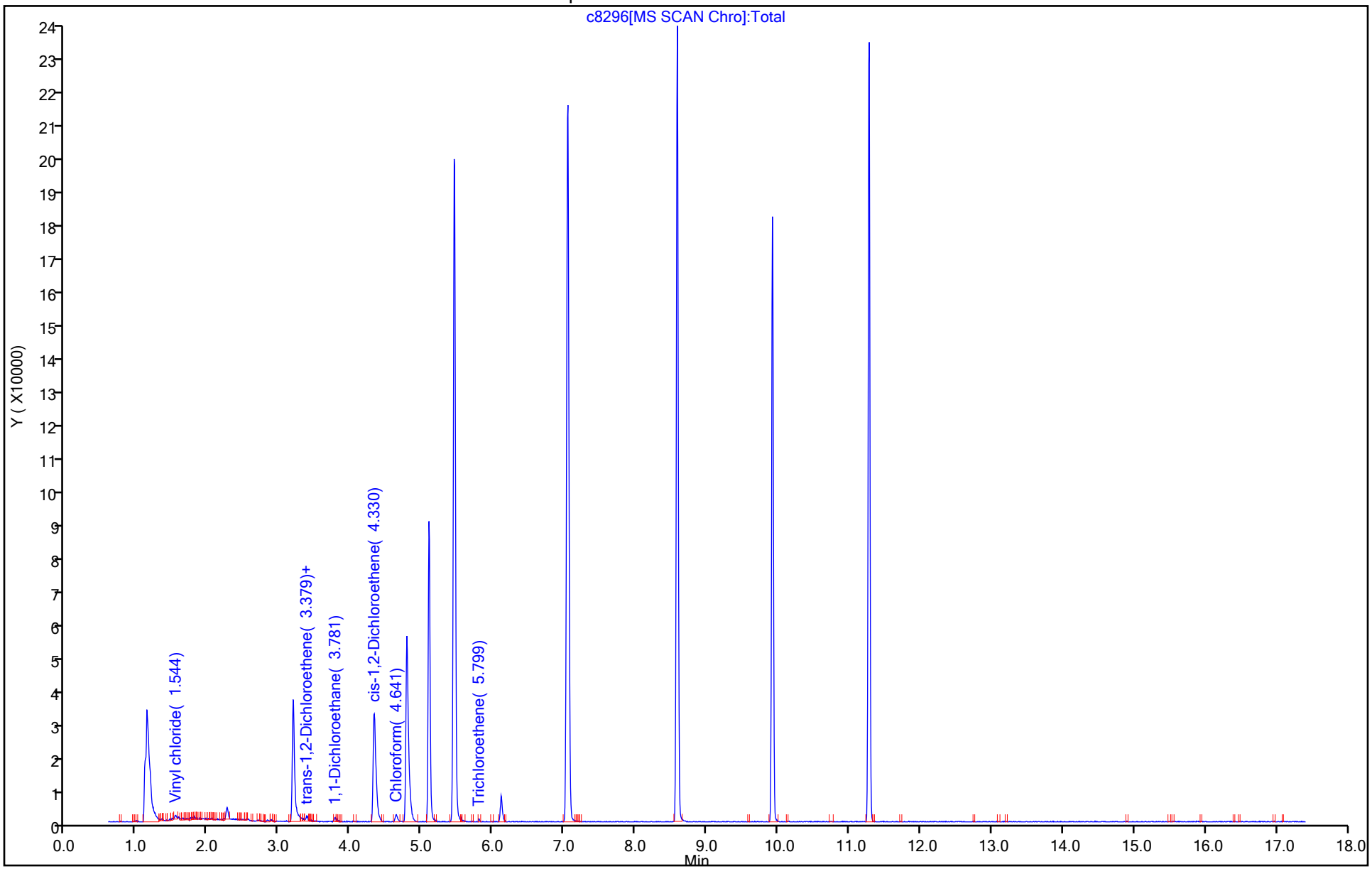
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8296.D				
Injection Date:	19-Nov-2020 08:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-5	Lab Sample ID:	310-140187-5	Worklist Smp#:	11
Client ID:	GW-110620-BE-023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8296.D
Lims ID: 240-140187-B-5
Client ID: GW-110620-BE-023
Sample Type: Client
Inject. Date: 19-Nov-2020 08:17:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:30:05

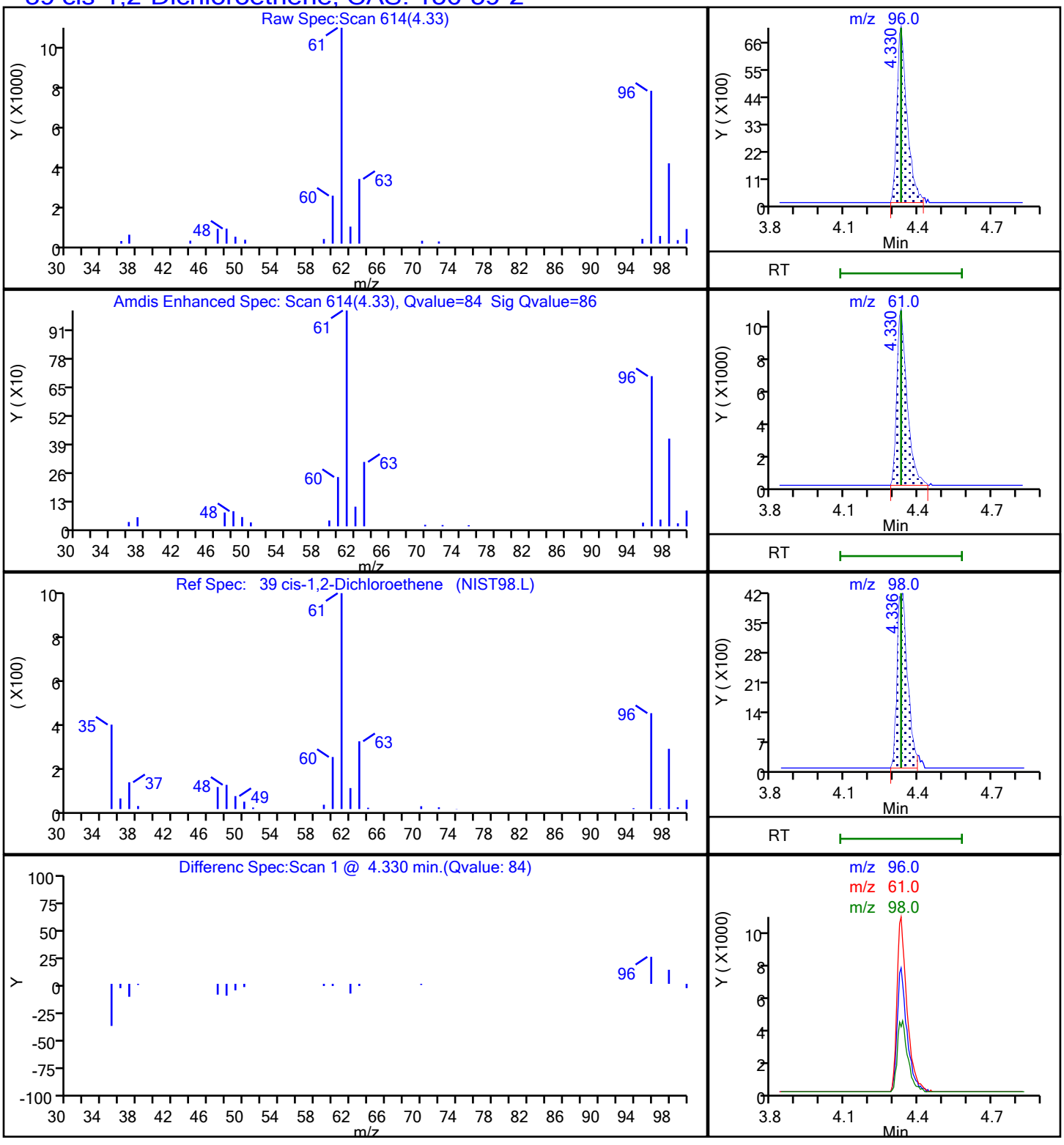
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.9	103.81
$ 6 Toluene-d8 (Surr)	50.0	52.0	103.93
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.3	96.52

Report Date: 20-Nov-2020 12:14:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8296.D				
Injection Date:	19-Nov-2020 08:17:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

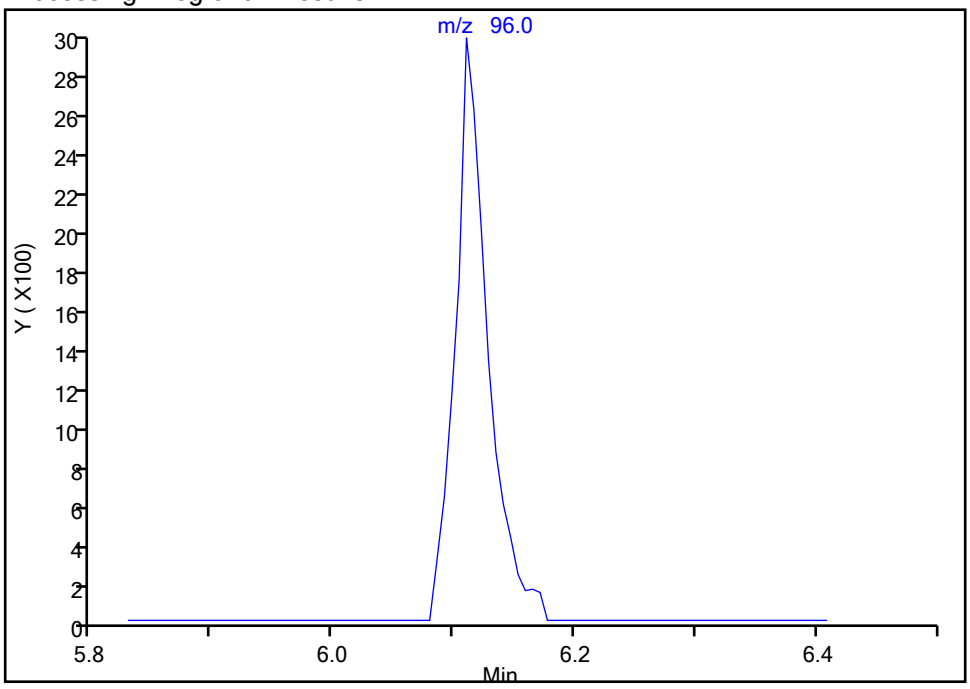
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8296.D				
Injection Date:	19-Nov-2020 08:17:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-5	Lab Sample ID:	310-140187-5		
Client ID:	GW-110620-BE-023				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

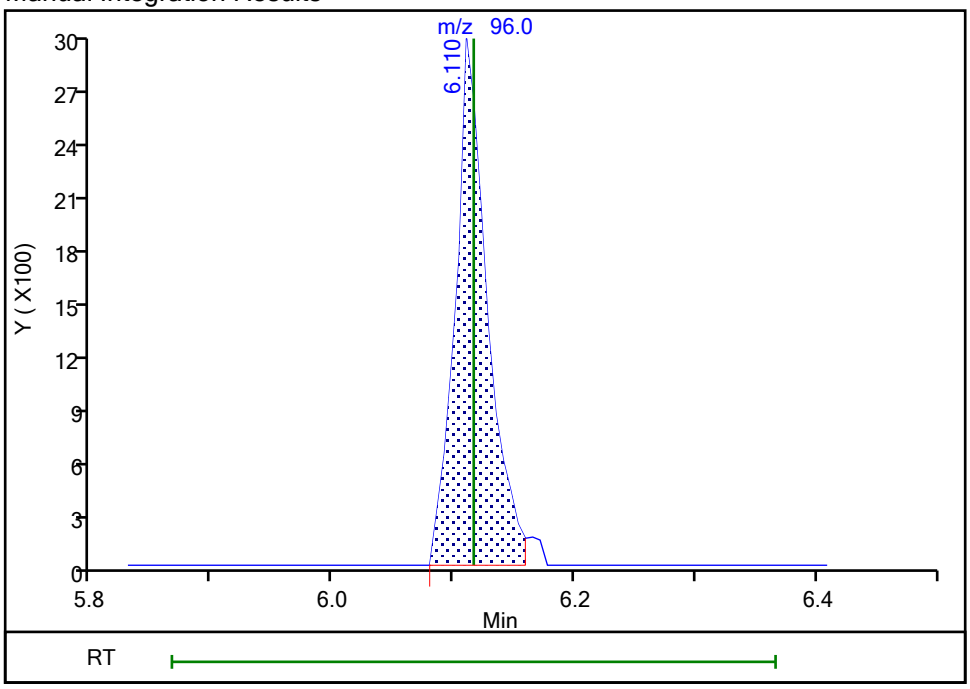
Not Detected
Expected RT: 6.12

Processing Integration Results



RT: 6.11
Area: 5516
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 20-Nov-2020 11:28:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-024 Lab Sample ID: 240-140187-6

Matrix: Water Lab File ID: c8238.D

Analysis Method: 8260D Date Collected: 11/06/2020 14:53

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 09:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.3		1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
156-59-2	cis-1,2-Dichloroethene	57		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	0.31	J	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	37		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110620-BE-024 Lab Sample ID: 240-140187-6

Matrix: Water Lab File ID: c8238.D

Analysis Method: 8260D Date Collected: 11/06/2020 14:53

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 09:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D
Lims ID: 240-140187-A-6
Client ID: GW-110620-BE-024
Sample Type: Client
Inject. Date: 18-Nov-2020 09:44:30 ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:17:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.385	-0.012	0	265	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	175986	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5424	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	123819	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	55510	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	40702	51.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	162033	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.920	0.007	84	43417	47.8	
$ 8 BFB	95	9.920	9.920	0.000	81	60258	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	98	118577	36.6	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	22	638	0.3089	M
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	93	554	0.1157	M
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.788	3.781	0.007	95	4887	1.26	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	92	135815	57.5	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.329			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.237			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.890			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.304			ND		
110 1,2,3-Trimethylbenzene	105		11.384			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.768			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.688			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.975			ND		
99 1,2,3-Trichlorobenzene	180		14.273			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
133 Isooctane	57		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
138 Dodecane	57		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		57.8	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

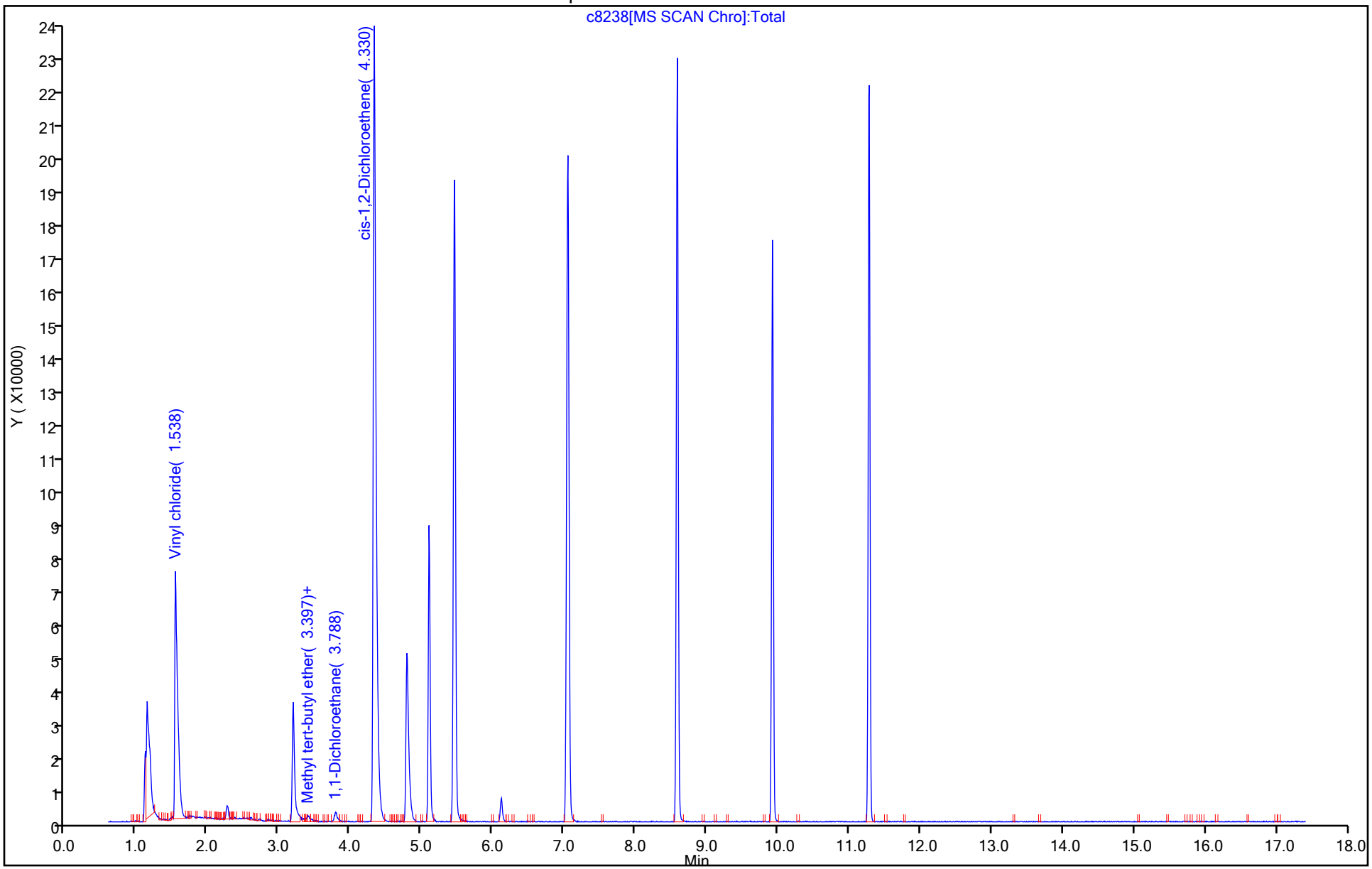
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:39 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D				
Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6	Worklist Smp#:	14
Client ID:	GW-110620-BE-024				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D
Lims ID: 240-140187-A-6
Client ID: GW-110620-BE-024
Sample Type: Client
Inject. Date: 18-Nov-2020 09:44:30 ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:17:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.6	103.21
$ 6 Toluene-d8 (Surr)	50.0	51.0	102.08
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.8	95.62

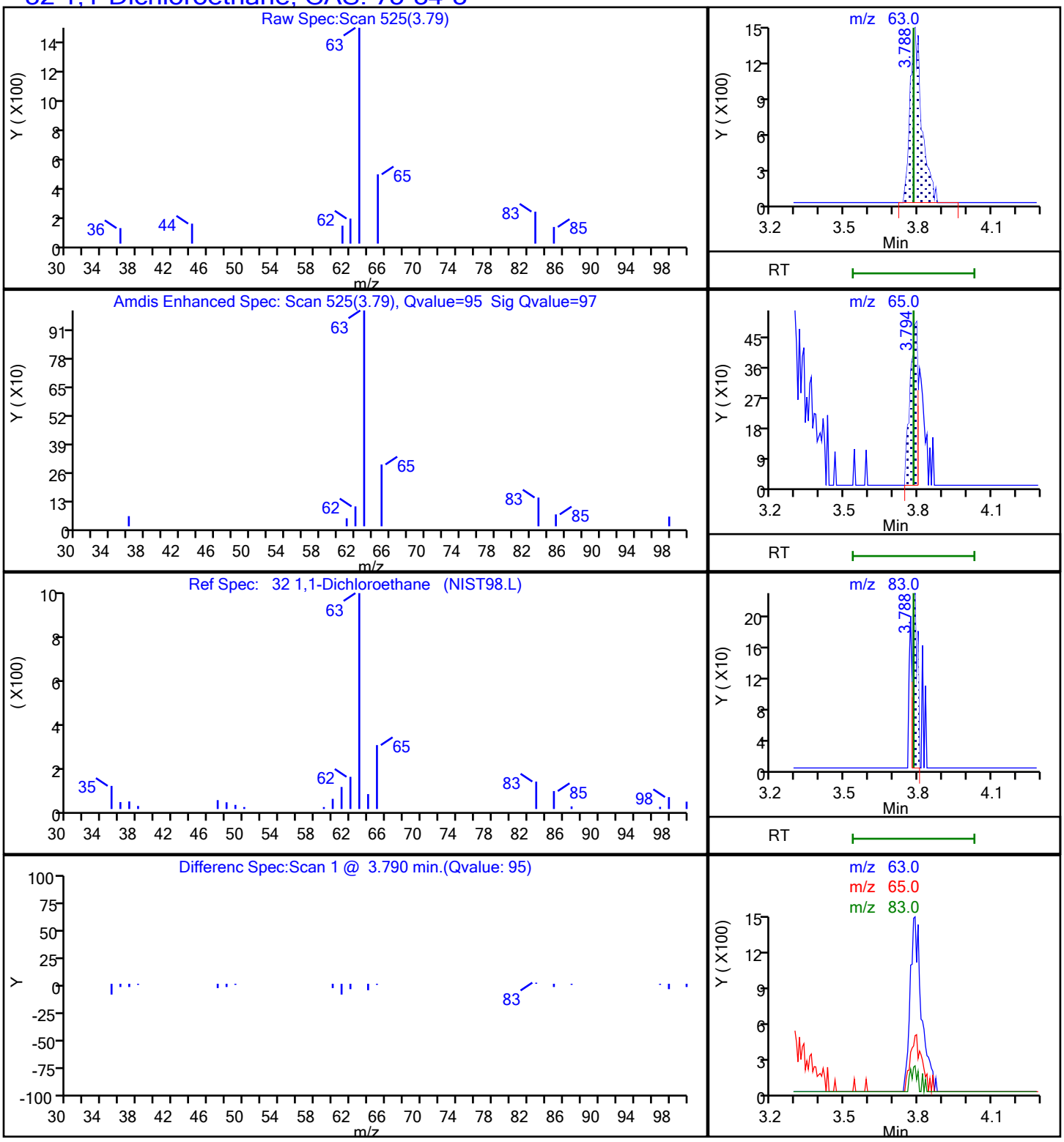
Report Date: 19-Nov-2020 06:54:39 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D

Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6		
Client ID:	GW-110620-BE-024				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

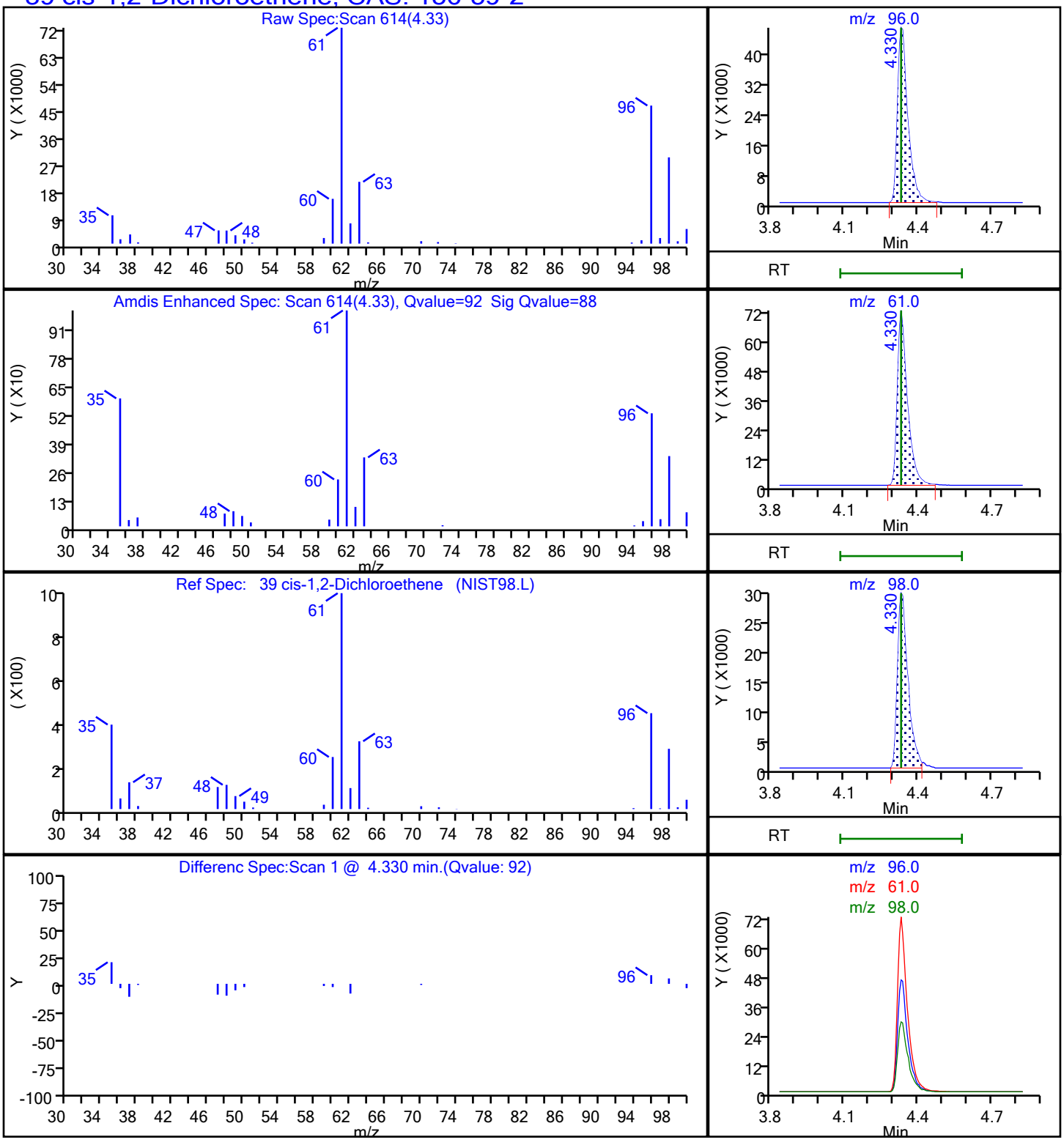


Report Date: 19-Nov-2020 06:54:39 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D				
Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6		
Client ID:	GW-110620-BE-024				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

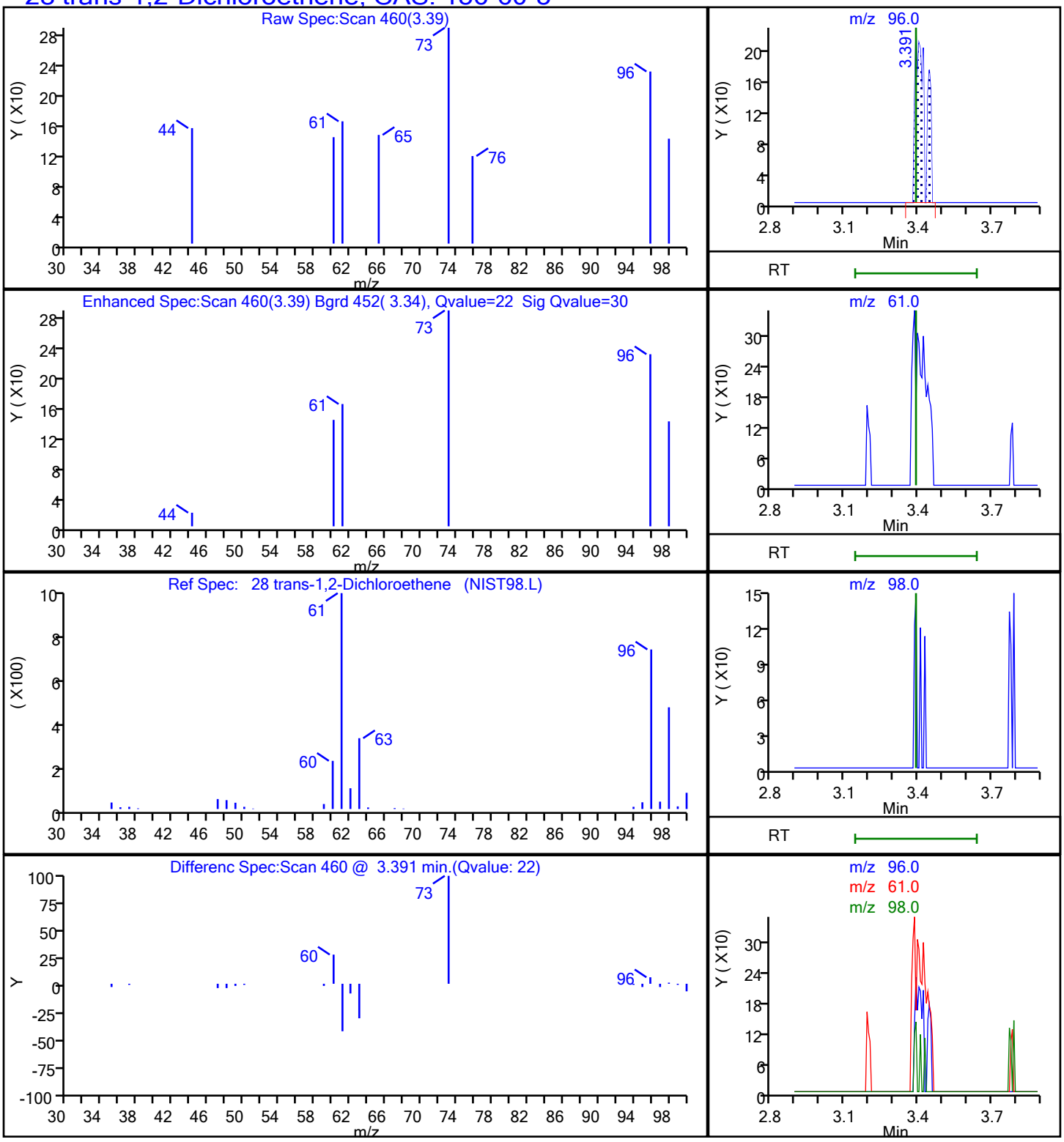


Report Date: 19-Nov-2020 06:54:39 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D				
Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6		
Client ID:	GW-110620-BE-024				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



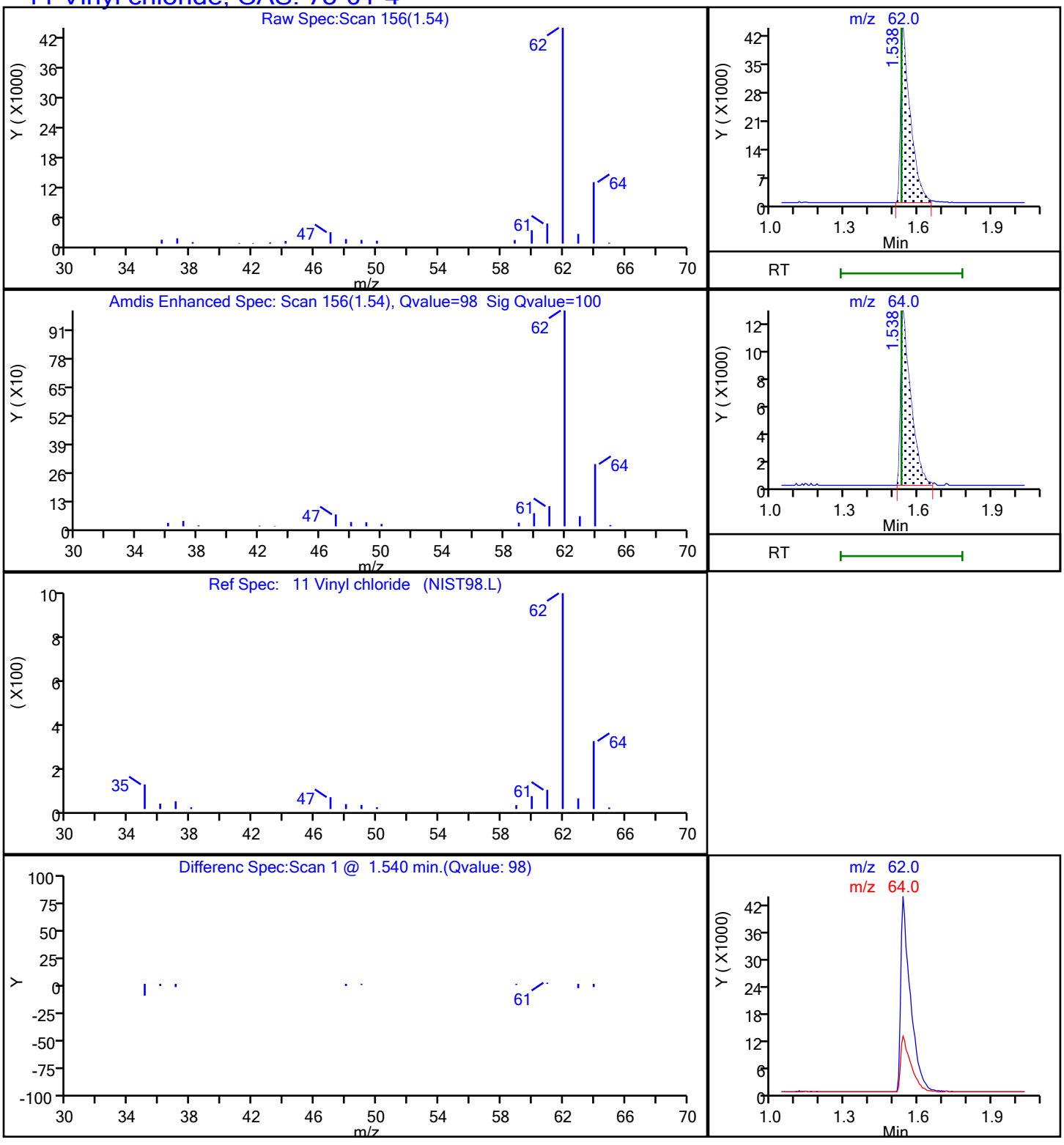
Report Date: 19-Nov-2020 06:54:39 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D

Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6		
Client ID:	GW-110620-BE-024				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

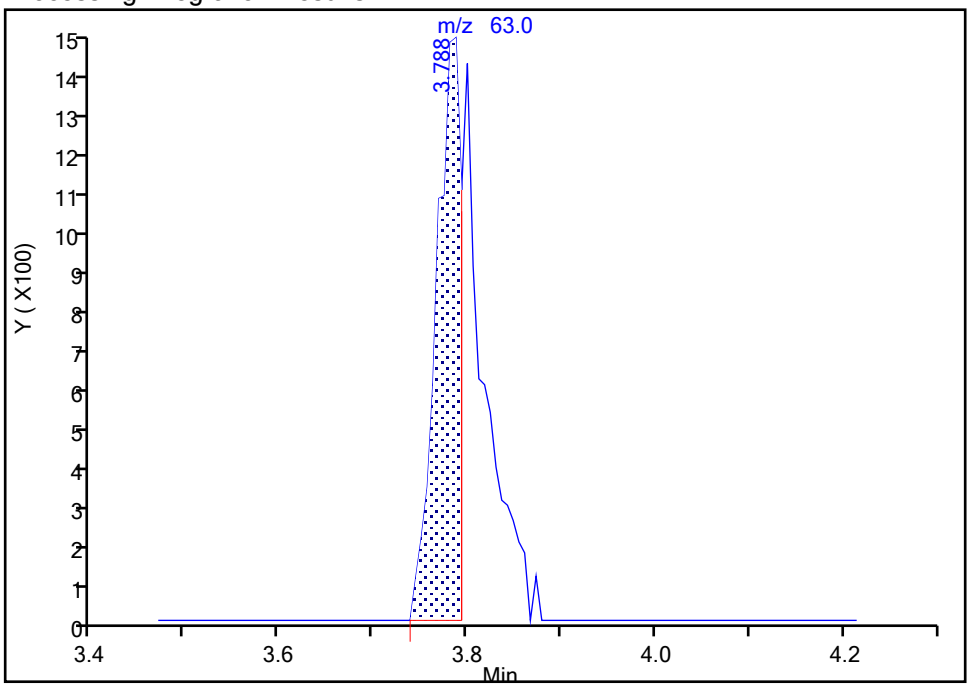
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D		
Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6
Client ID:	GW-110620-BE-024		
Operator ID:	sjn	ALS Bottle#:	16 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

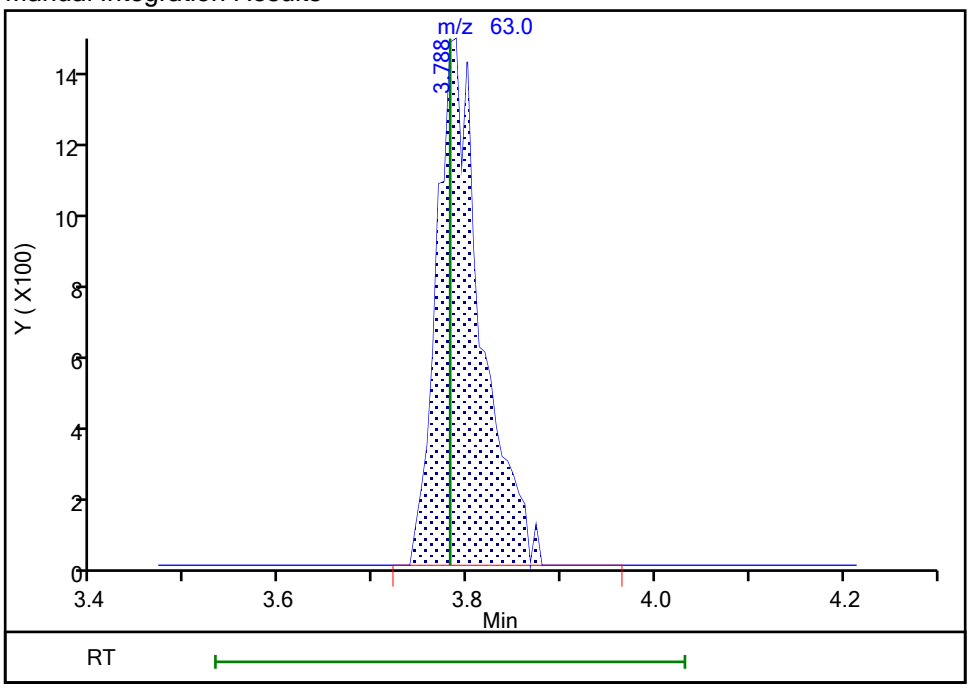
Processing Integration Results

RT: 3.79
Area: 2754
Amount: 0.711043
Amount Units: ug/l



Manual Integration Results

RT: 3.79
Area: 4887
Amount: 1.261753
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:16:18

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

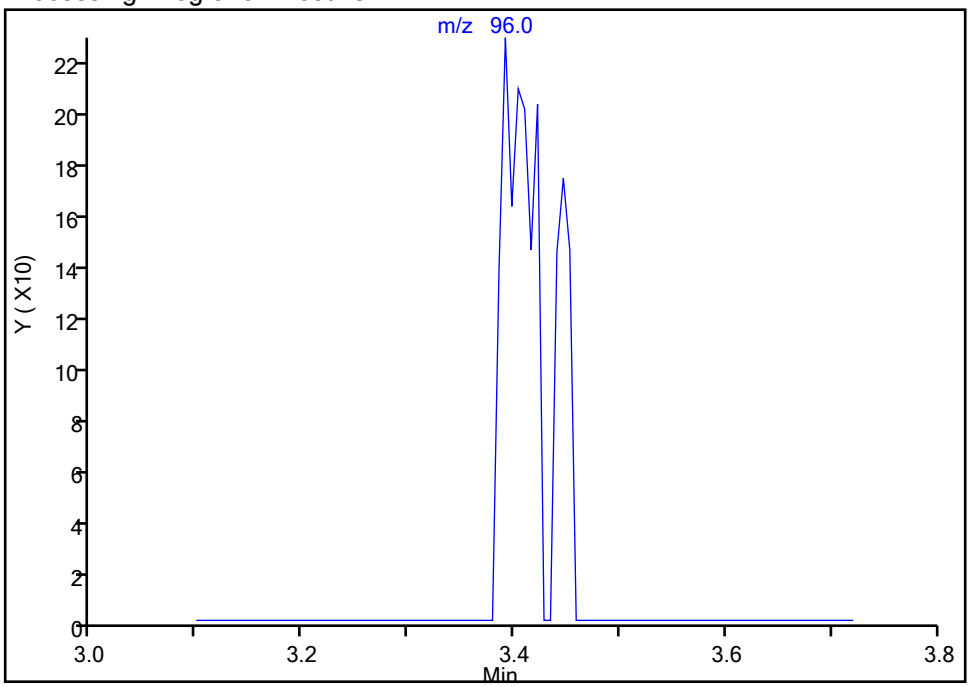
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D				
Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6		
Client ID:	GW-110620-BE-024				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

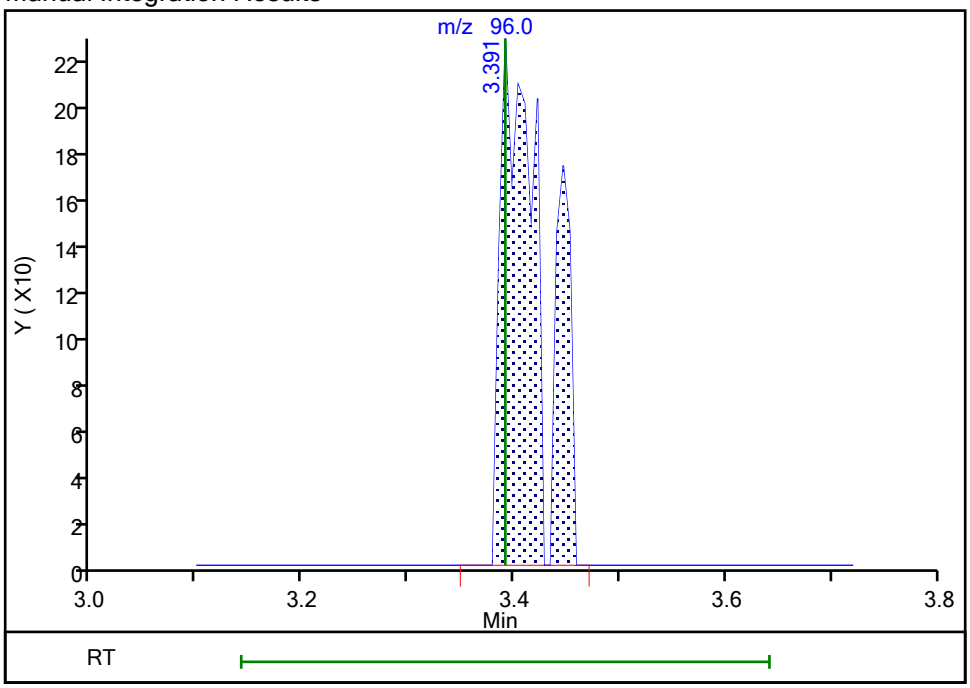
Not Detected
Expected RT: 3.39

Processing Integration Results



RT: 3.39
Area: 638
Amount: 0.308948
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 18-Nov-2020 12:16:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

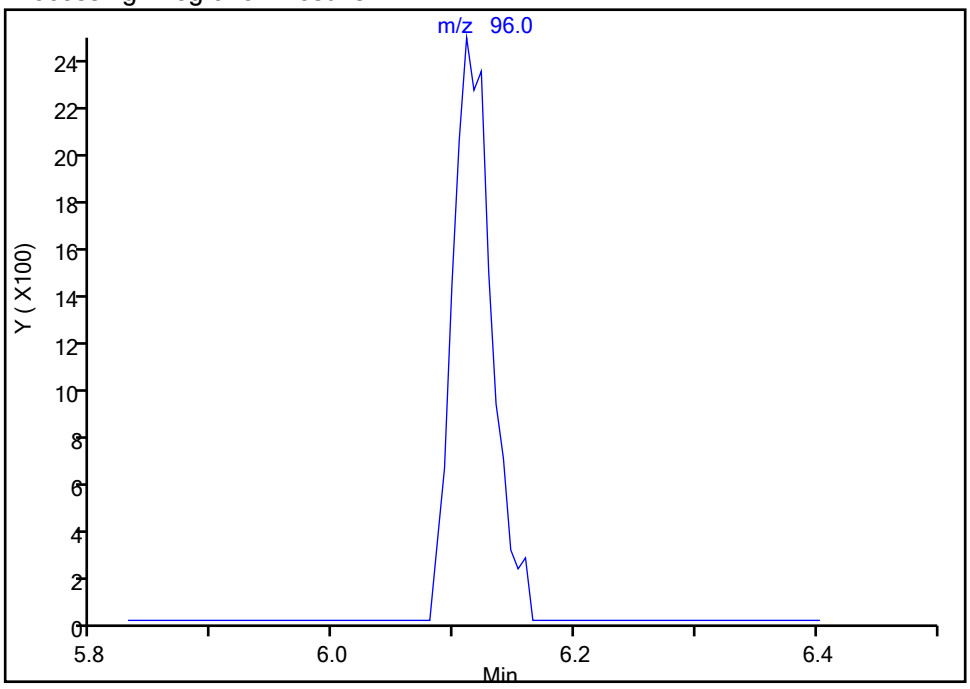
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8238.D				
Injection Date:	18-Nov-2020 09:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-6	Lab Sample ID:	310-140187-6		
Client ID:	GW-110620-BE-024				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

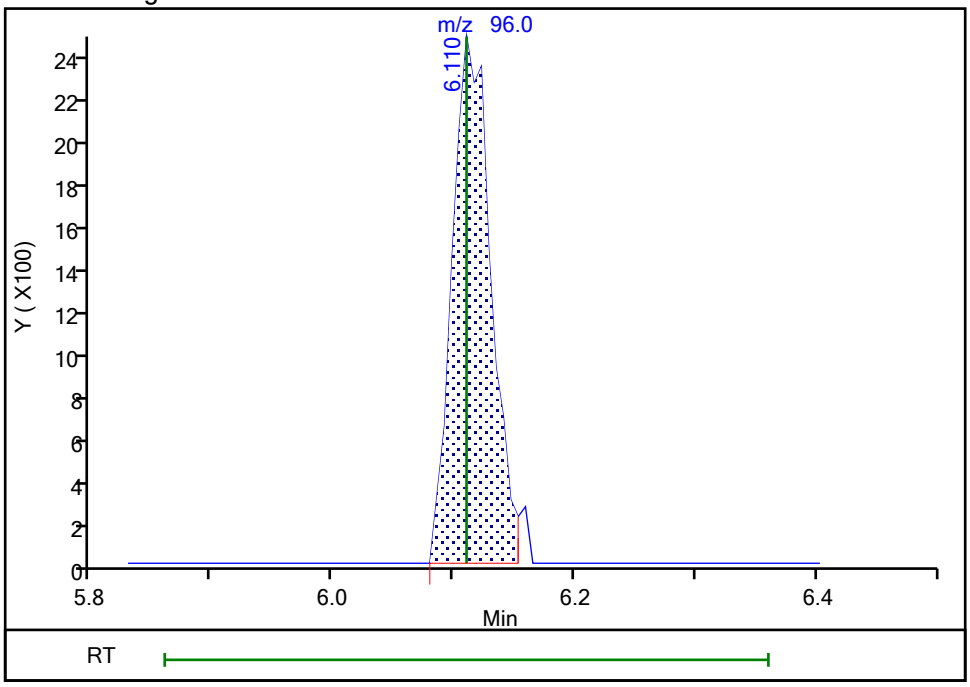
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5424
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:17:17
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-025 Lab Sample ID: 240-140187-7

Matrix: Water Lab File ID: c8239.D

Analysis Method: 8260D Date Collected: 11/09/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	3.3		1.0	0.22
75-35-4	1,1-Dichloroethene	4.7		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	4.1		3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	65		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	440		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-025 Lab Sample ID: 240-140187-7

Matrix: Water Lab File ID: c8239.D

Analysis Method: 8260D Date Collected: 11/09/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D
Lims ID: 240-140187-A-7
Client ID: GW-110920-BE-025
Sample Type: Client
Inject. Date: 18-Nov-2020 10:09:30 ALS Bottle#: 17 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-015
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:40:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.397	3.385	0.012	0	239	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	173900	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	92	5053	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	123942	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54392	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	42045	53.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	162744	51.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	44477	50.0	
$ 8 BFB	95	9.920	9.920	0.000	82	60830	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50	1.538	1.526	0.012	32	10721	4.09	
11 Vinyl chloride	62	1.538	1.532	0.006	99	1402719	437.7	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	94	8371	4.68	M
21 112TCTFE	101		2.678				ND	
22 Acetone	43	2.708	2.715	-0.006	20	482	-2.30	Ma
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.836	2.843	-0.007	62	831	0.1569	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	133334	65.3	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	96	12551	3.28	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	86	4145578	1775.5	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95	5.799	5.805	-0.006	12	423	0.1842	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		1840.8	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

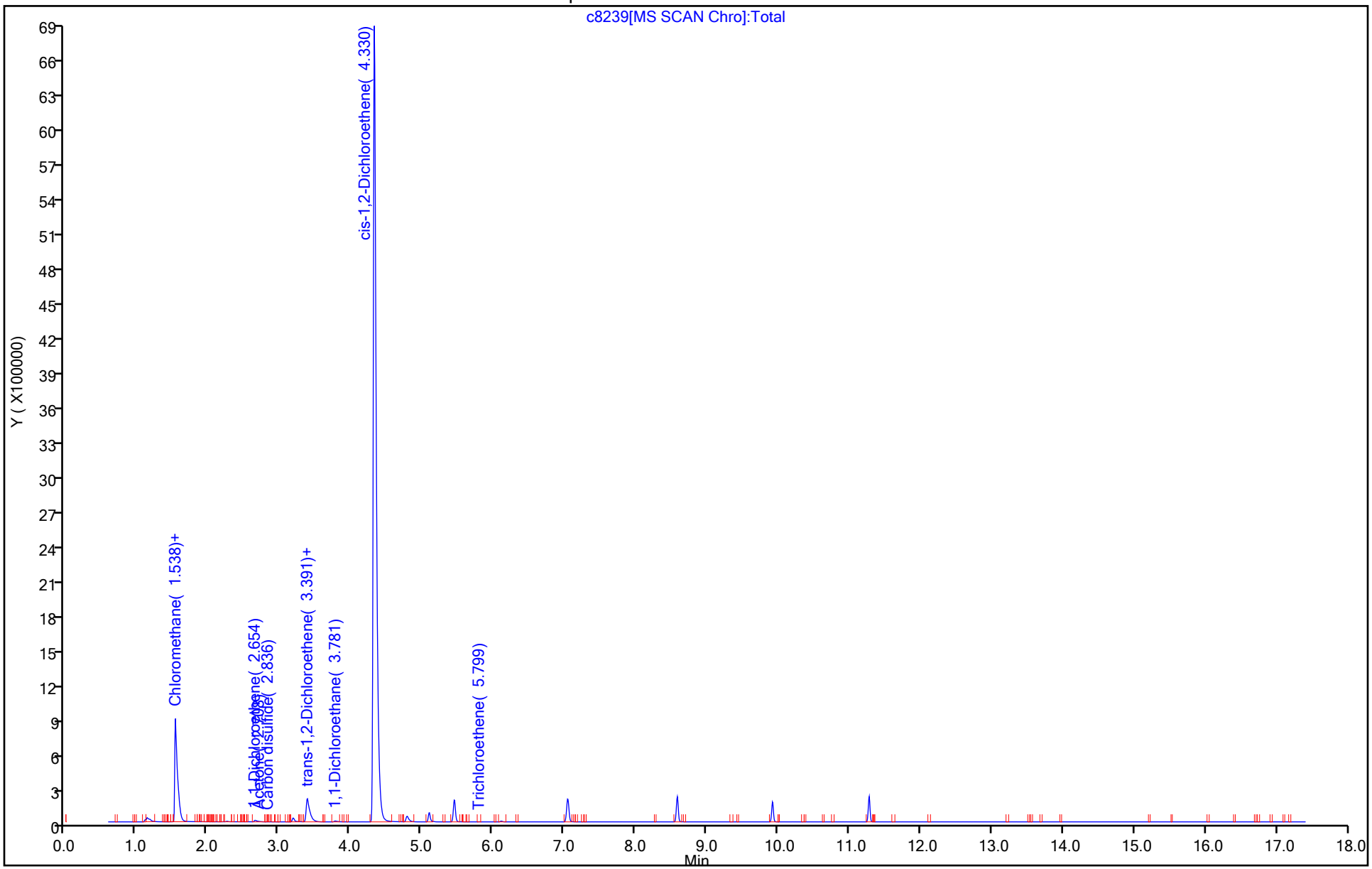
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7	Worklist Smp#:	15
Client ID:	GW-110920-BE-025				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D
Lims ID: 240-140187-A-7
Client ID: GW-110920-BE-025
Sample Type: Client
Inject. Date: 18-Nov-2020 10:09:30 ALS Bottle#: 17 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-015
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:40:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.9	107.89
$ 6 Toluene-d8 (Surr)	50.0	51.2	102.43
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.0	99.96

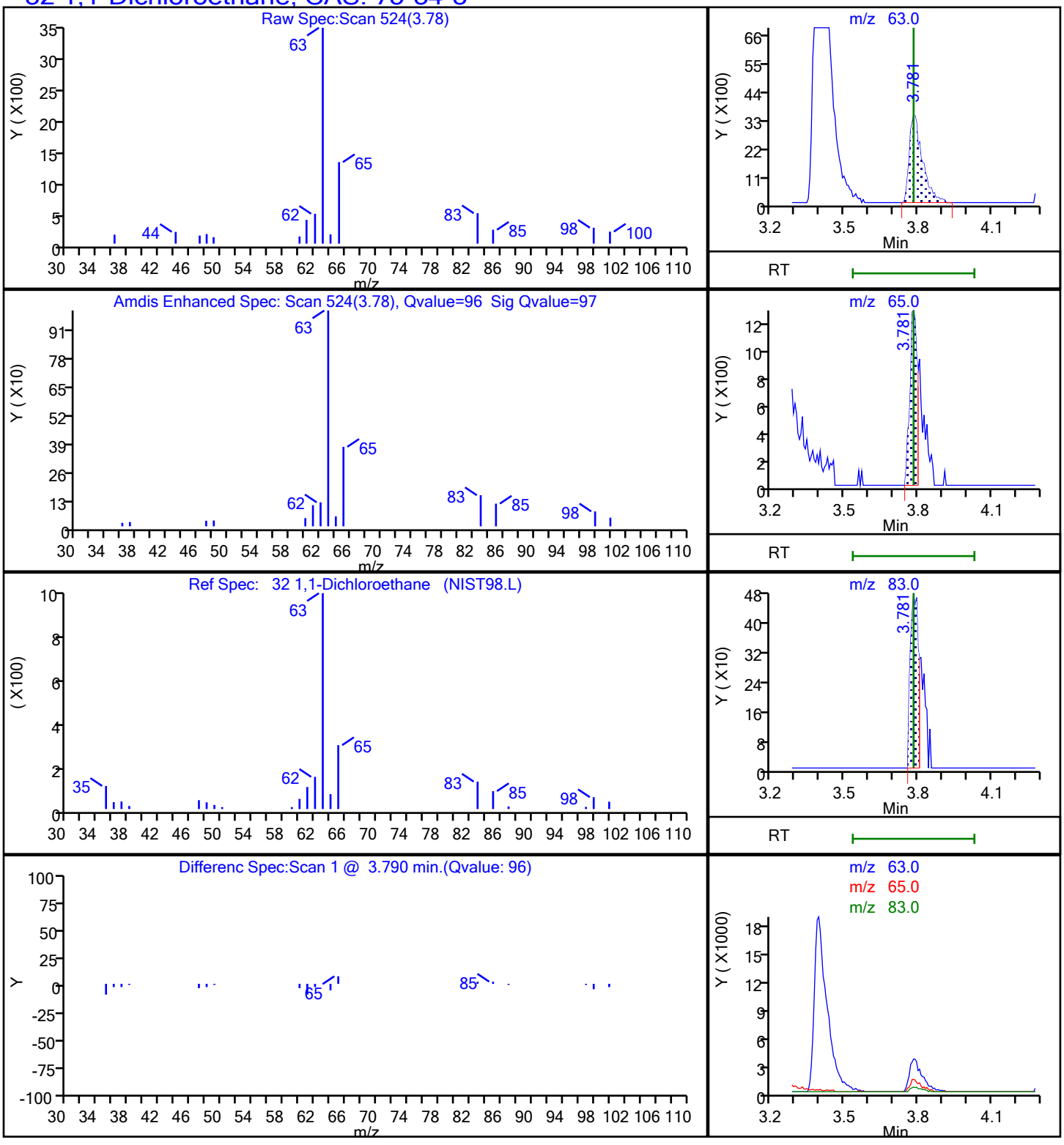
Report Date: 19-Nov-2020 06:54:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D

Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3



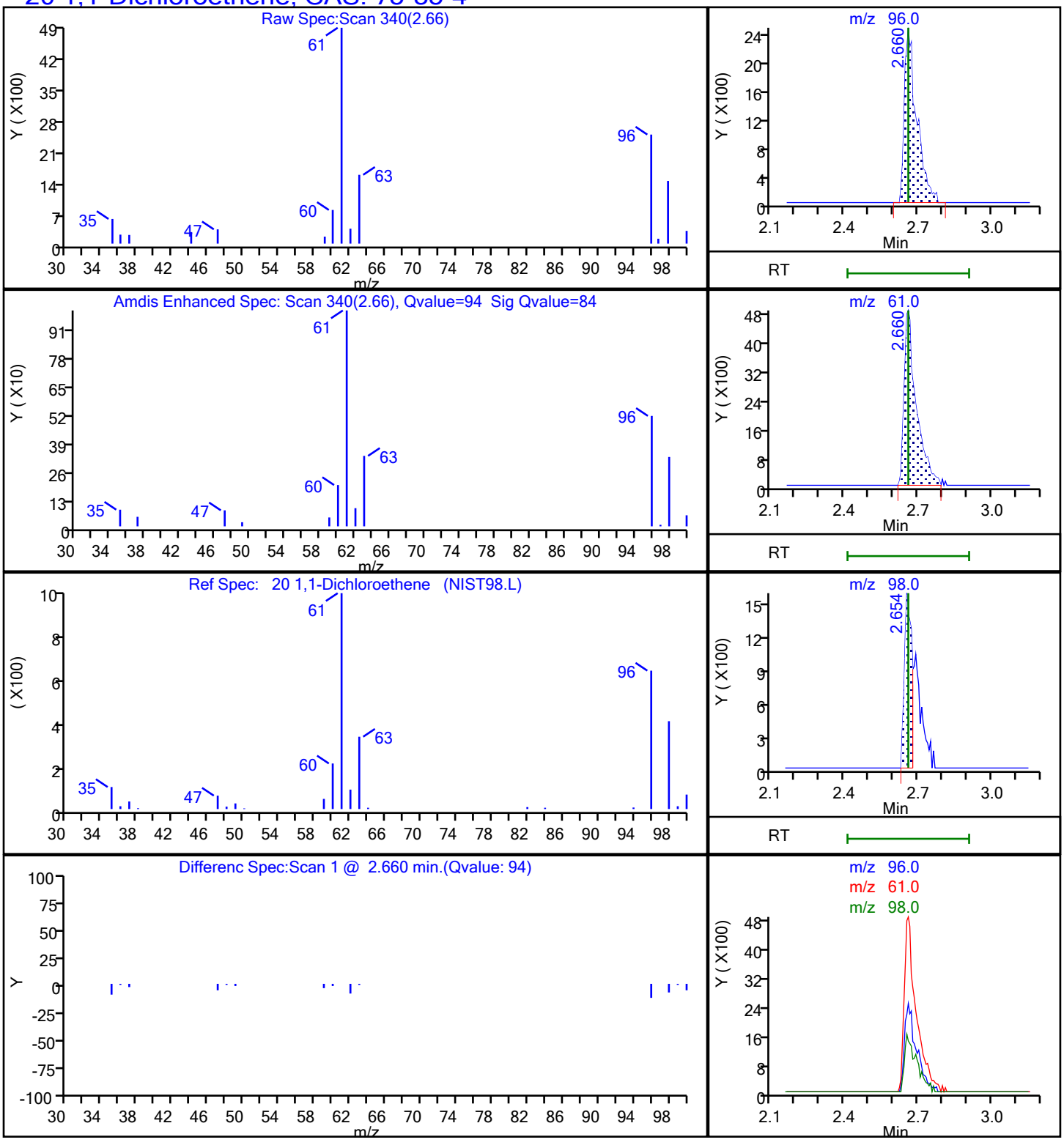
Report Date: 19-Nov-2020 06:54:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D

Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7
Client ID:	GW-110920-BE-025		
Operator ID:	sjn	ALS Bottle#:	17 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4



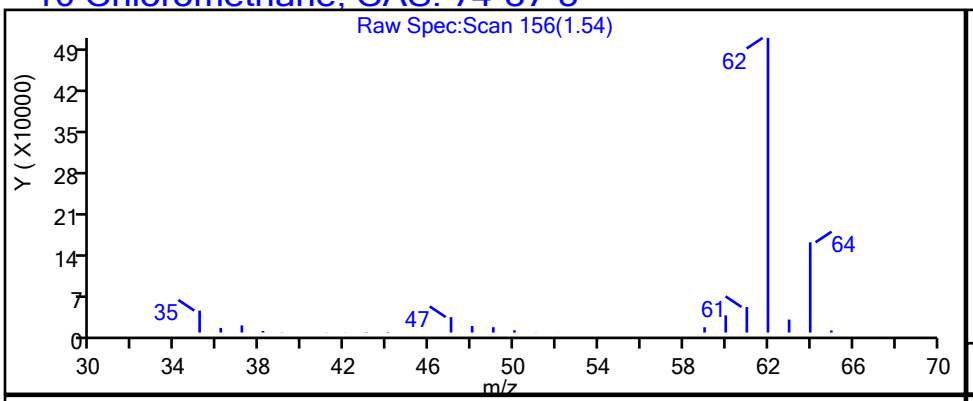
Report Date: 19-Nov-2020 06:54:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

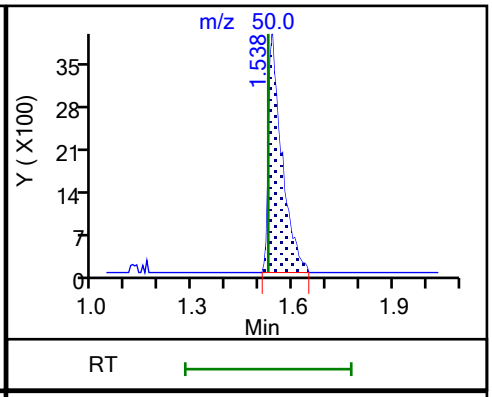
Eurofins TestAmerica, Cedar Falls

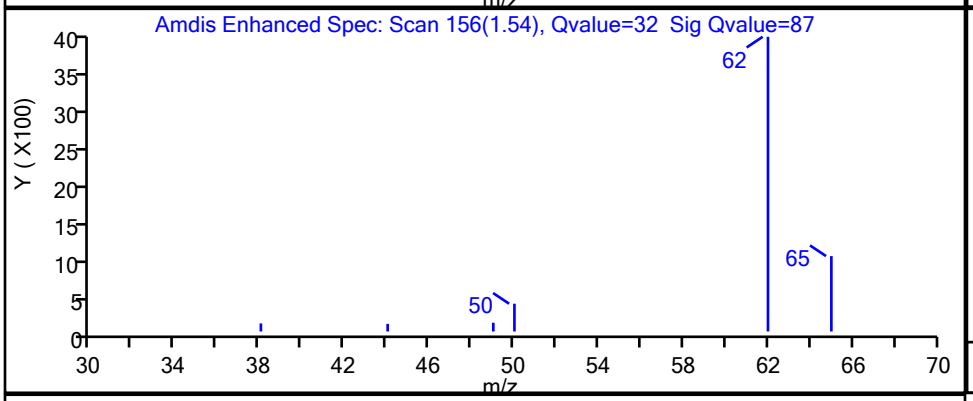
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D

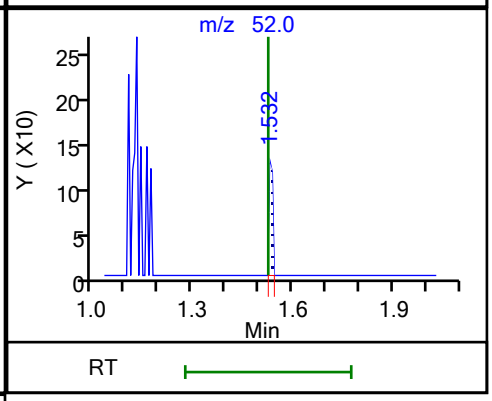
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

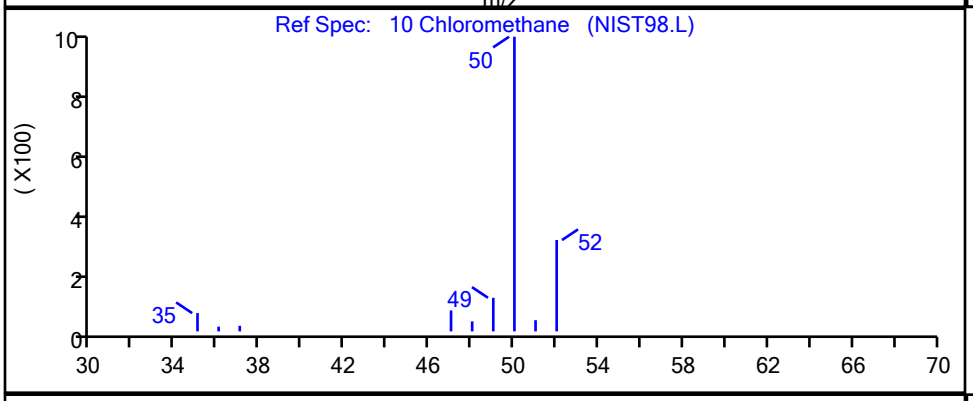
10 Chloromethane, CAS: 74-87-3

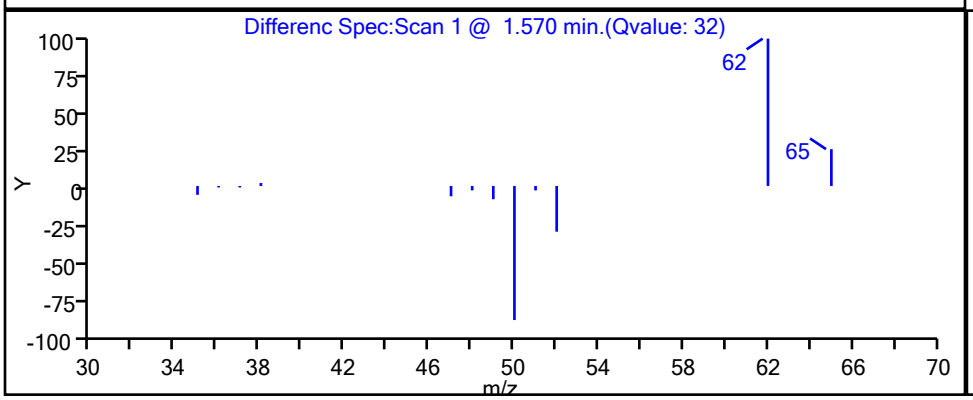


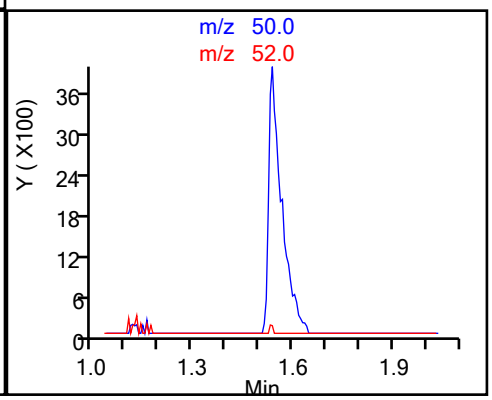












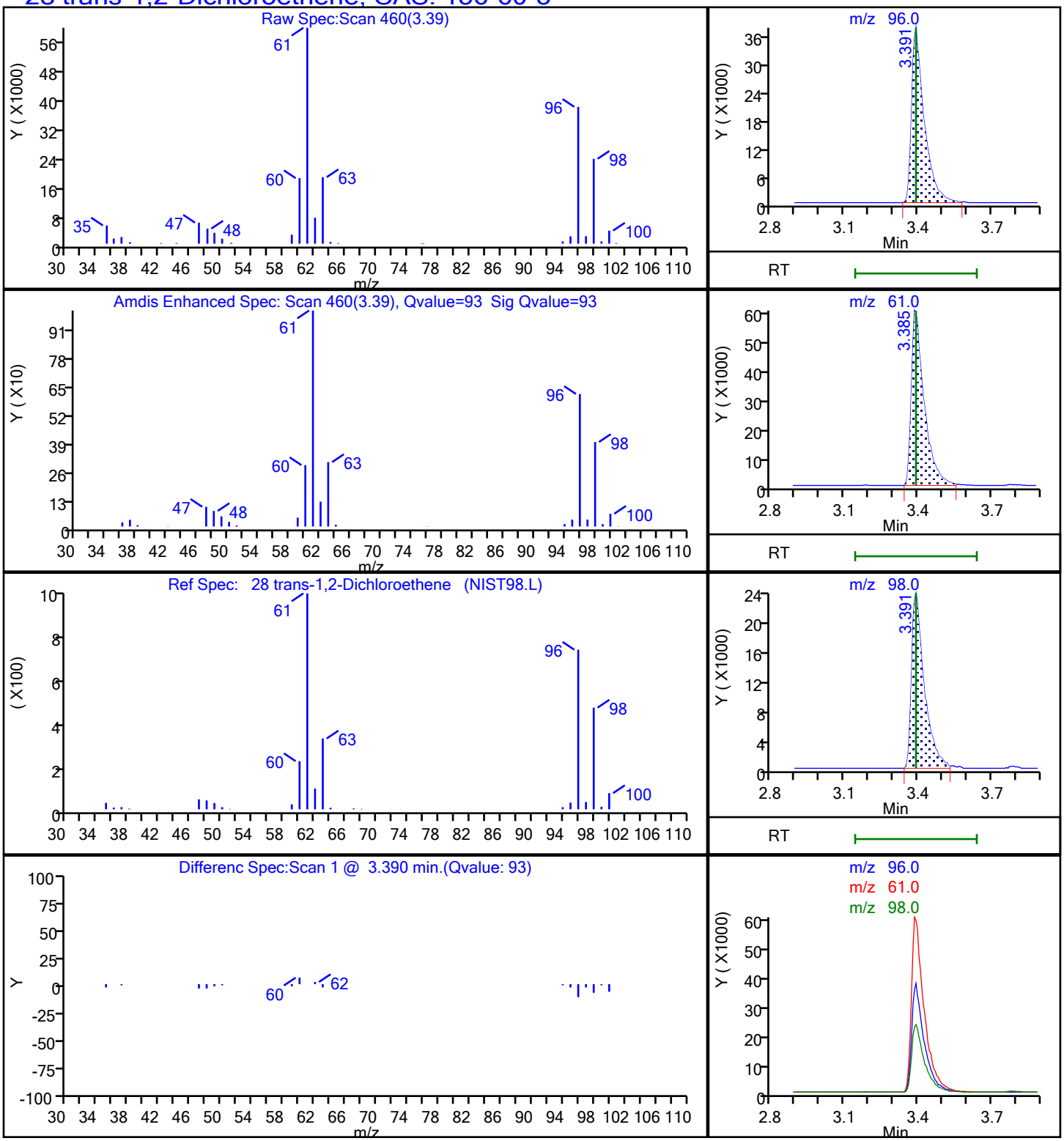
Report Date: 19-Nov-2020 06:54:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D

Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

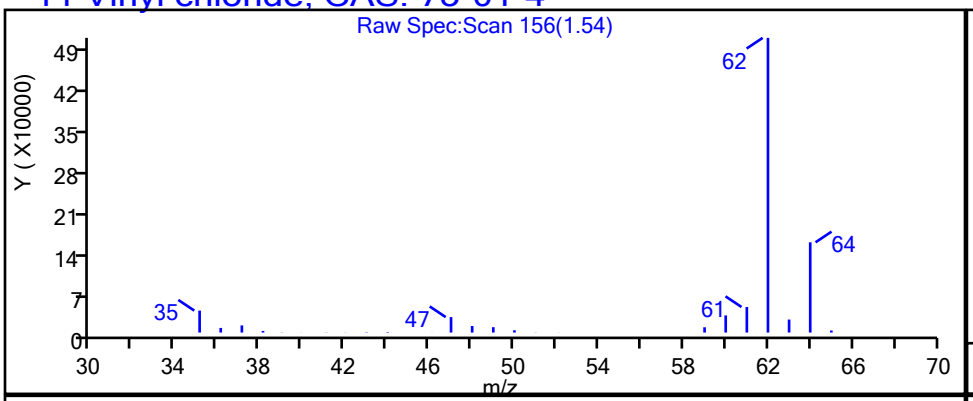


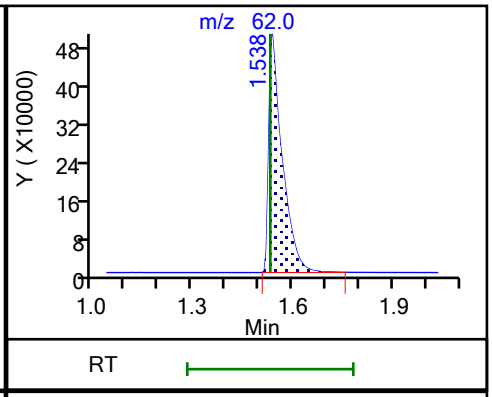
Report Date: 19-Nov-2020 06:54:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

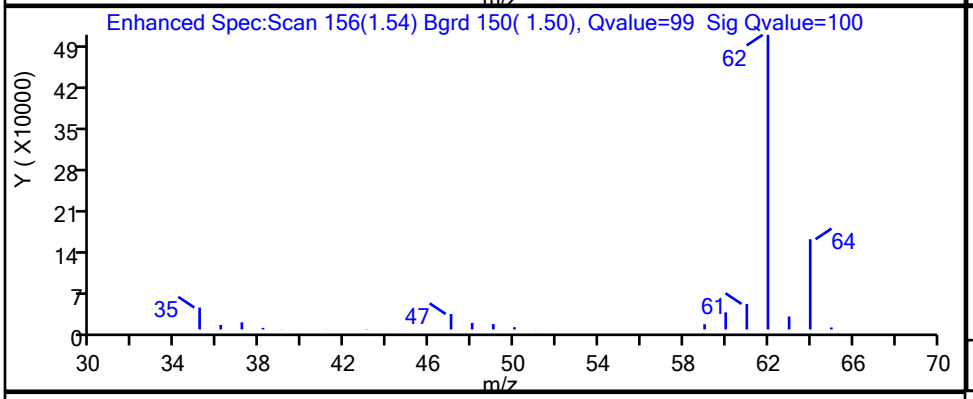
Eurofins TestAmerica, Cedar Falls

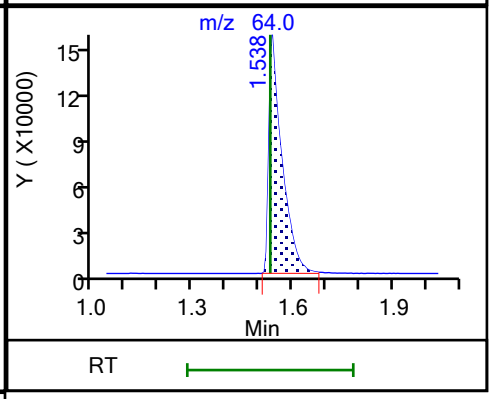
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

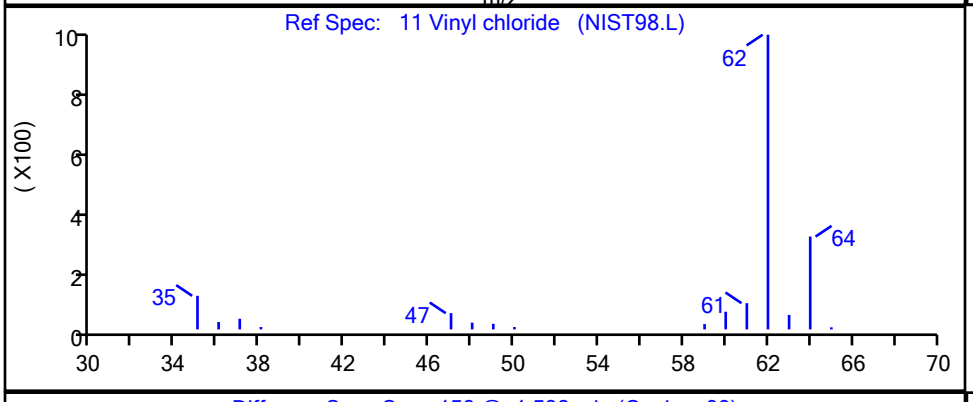
11 Vinyl chloride, CAS: 75-01-4

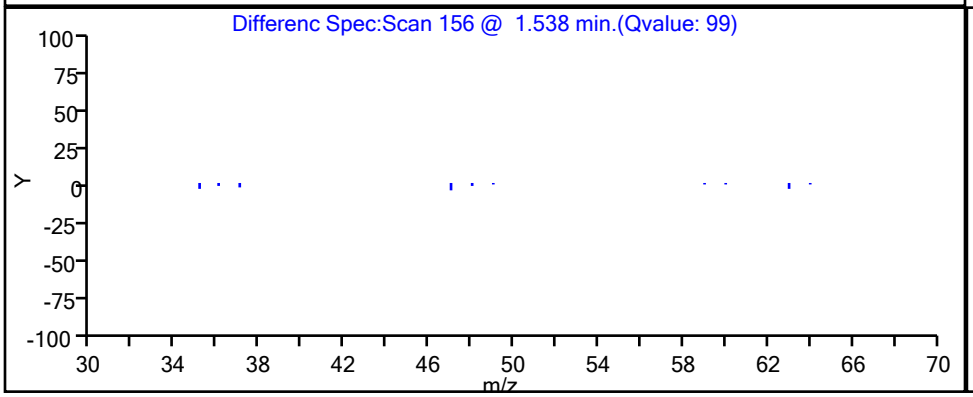


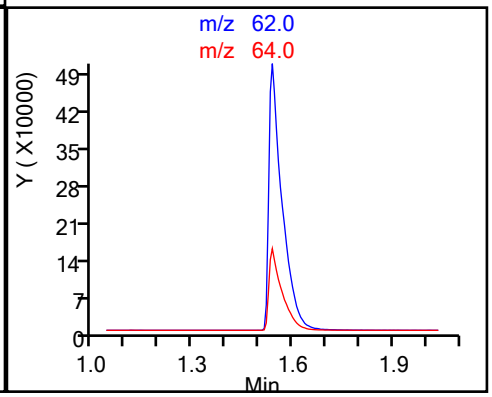












Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

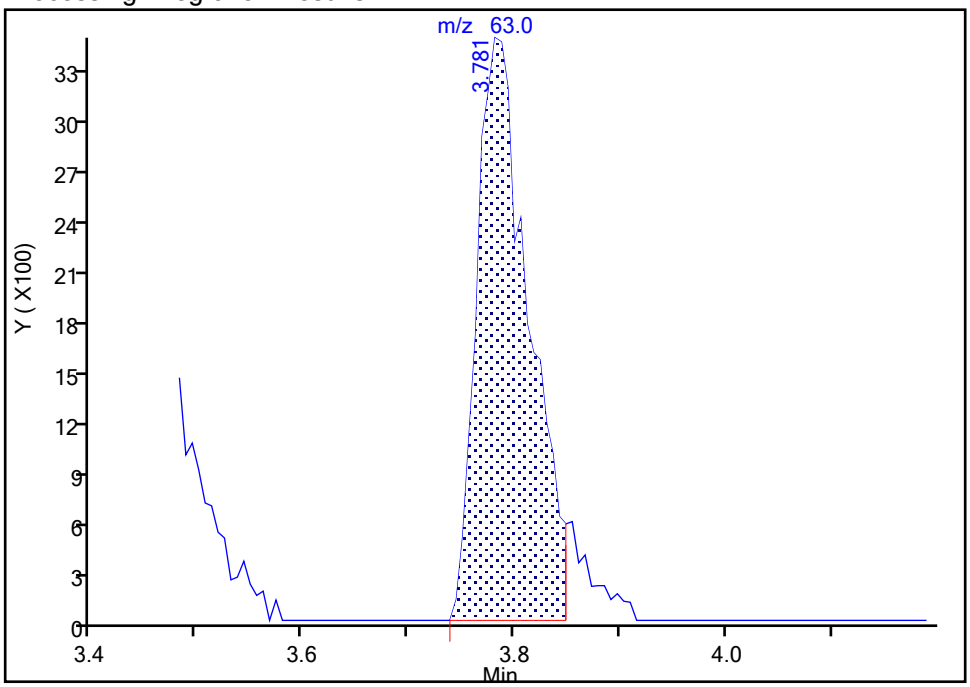
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

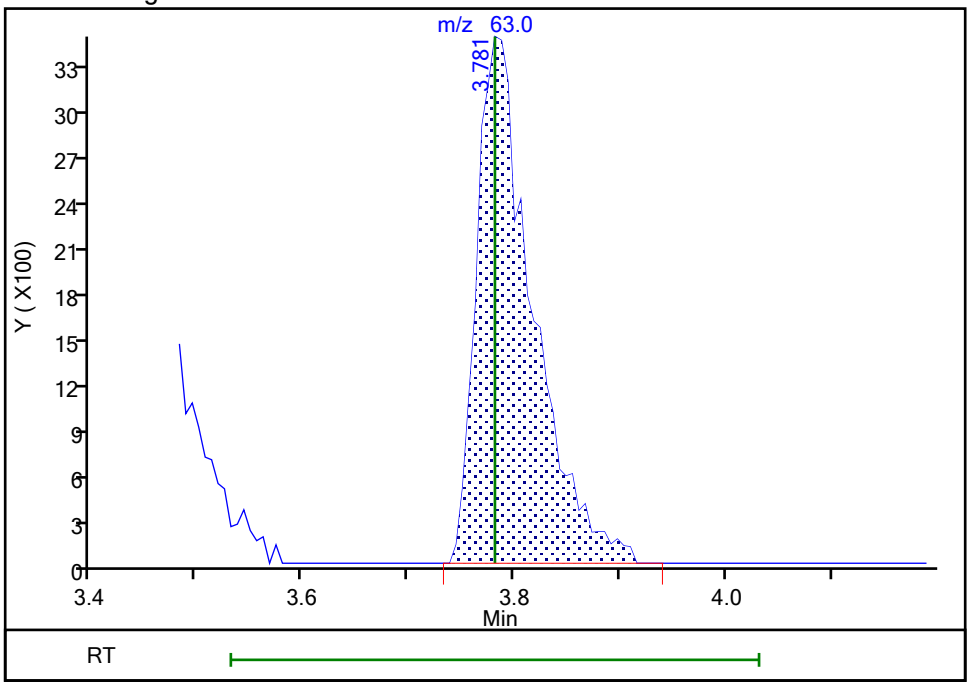
Processing Integration Results

RT: 3.78
Area: 11673
Amount: 3.049951
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 12551
Amount: 3.279357
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:39:32

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

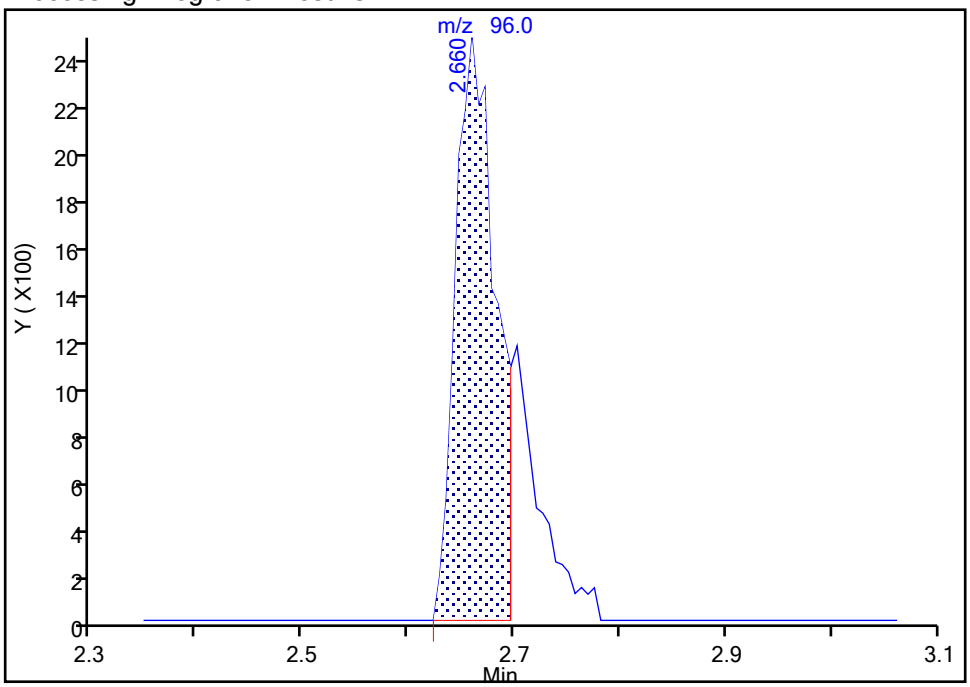
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

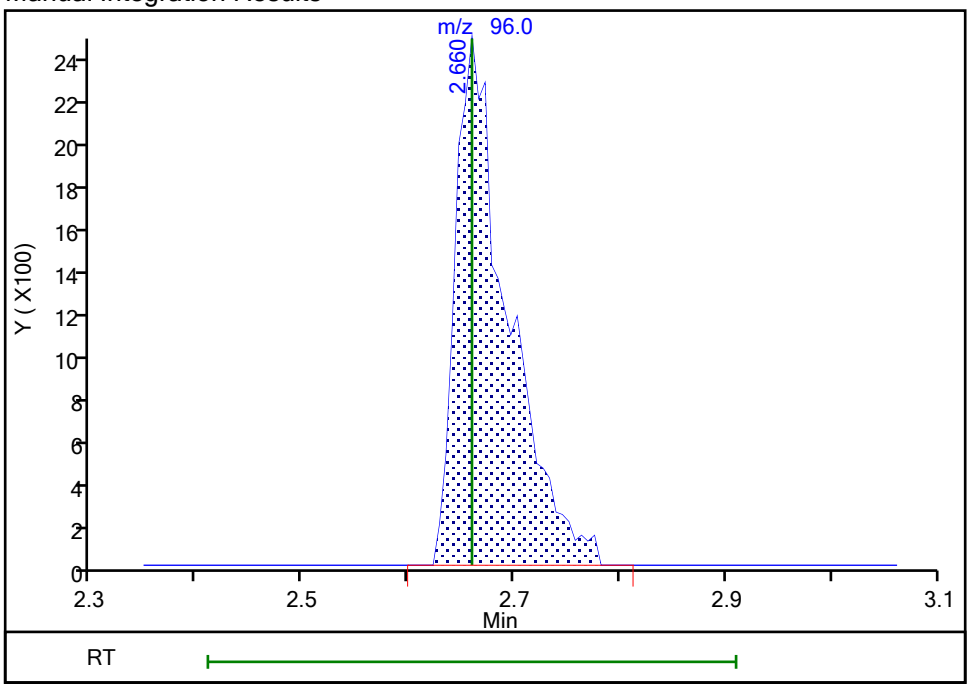
Processing Integration Results

RT: 2.66
Area: 6450
Amount: 3.605699
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 8371
Amount: 4.679583
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:38:38

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

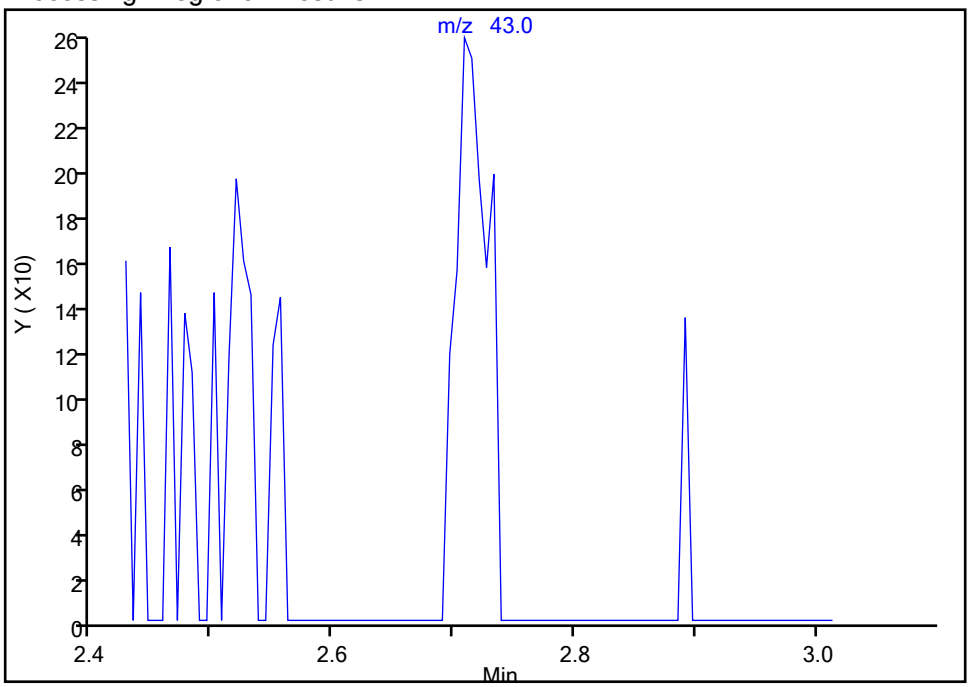
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

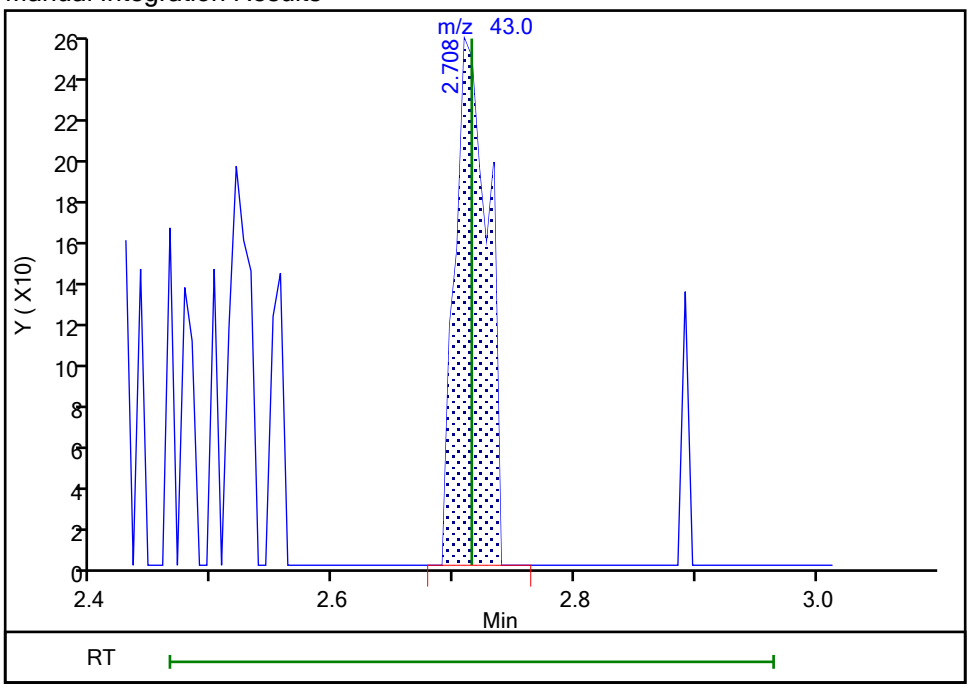
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 482
Amount: -2.299060
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:38:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

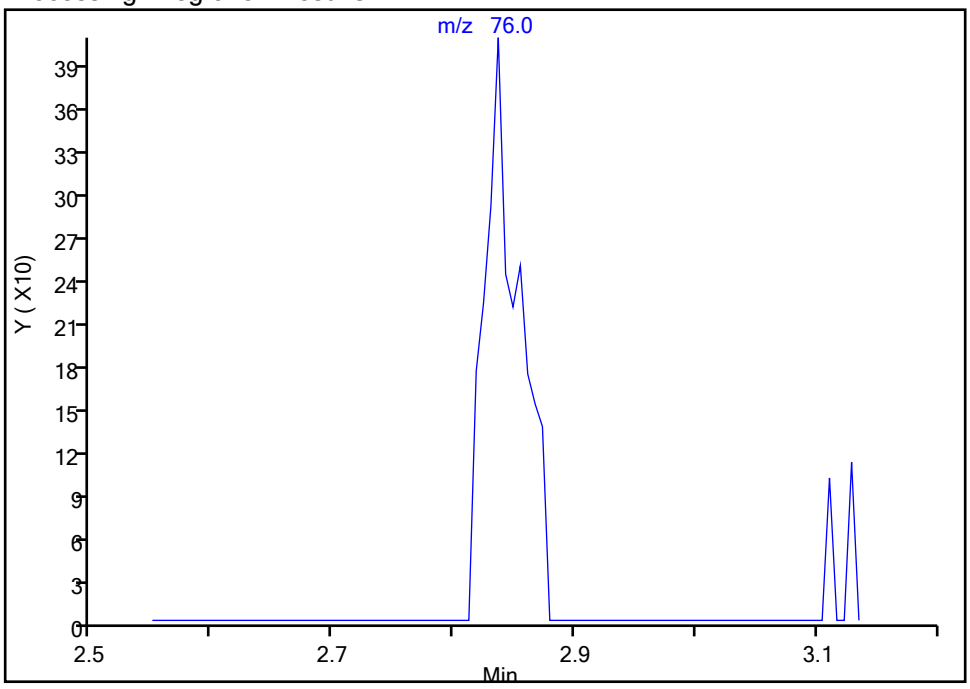
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

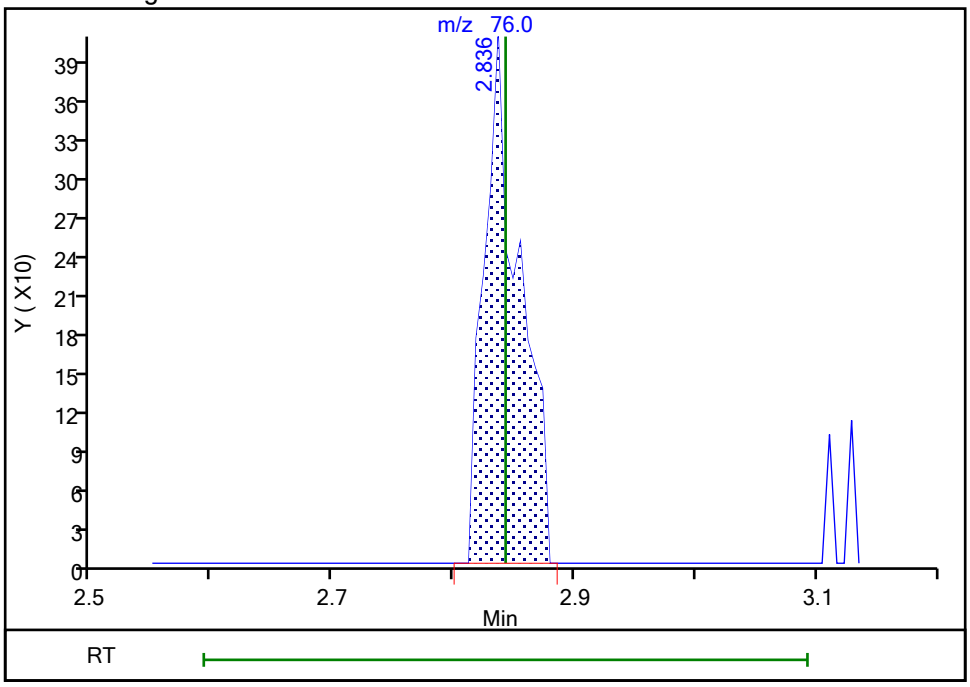
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 831
Amount: 0.156913
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:39:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

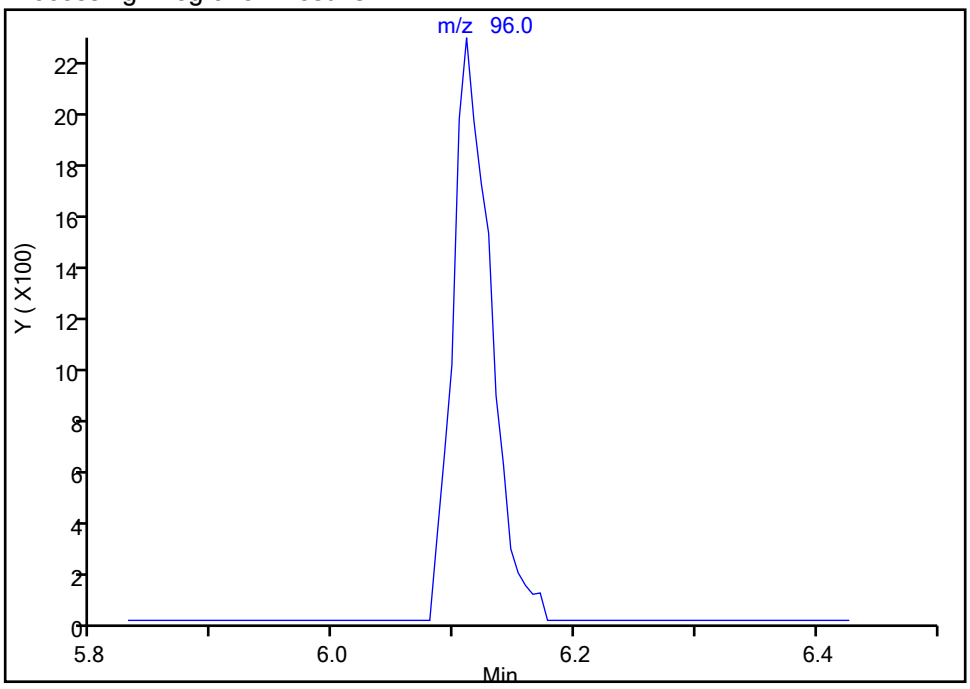
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8239.D				
Injection Date:	18-Nov-2020 10:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

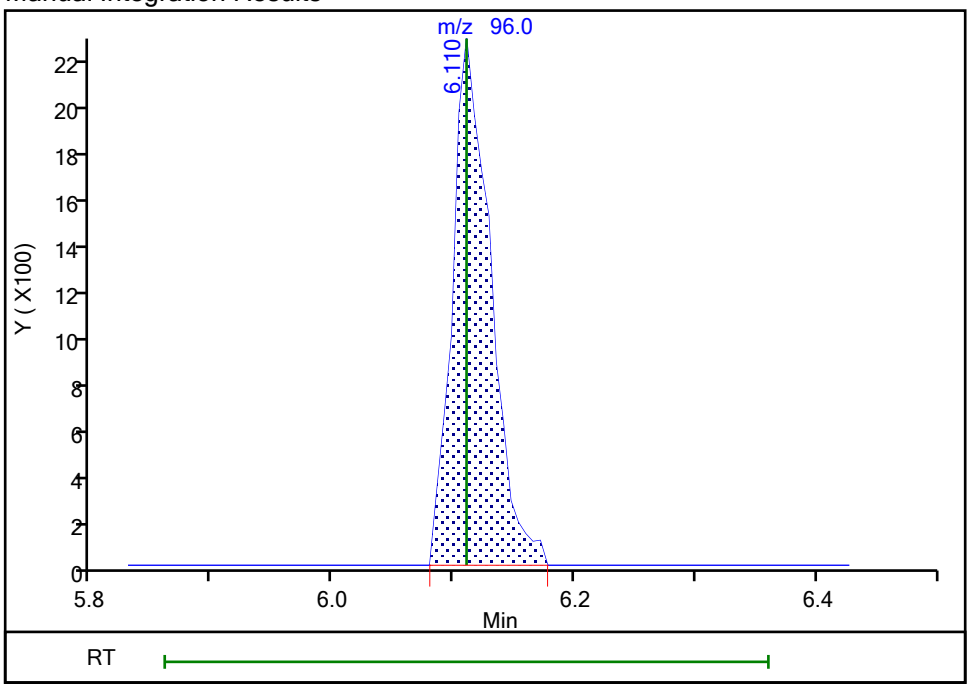
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.11
Area: 5053
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 18-Nov-2020 12:36:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-025 Lab Sample ID: 240-140187-7

Matrix: Water Lab File ID: c8308.D

Analysis Method: 8260D Date Collected: 11/09/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 13:11

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1500	B	20	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8308.D
Lims ID: 240-140187-B-7
Client ID: GW-110920-BE-025
Sample Type: Client
Inject. Date: 19-Nov-2020 13:11:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062729-023
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:01:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.367	3.373	-0.006	0	295	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	164183	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	96	4999	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	117324	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	51741	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	39103	53.1	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	96	155774	51.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	82	41666	49.2	
$ 8 BFB	95	9.920	9.920	0.000	81	55924	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50	1.538	1.526	0.012	27	670	0.2707	a
11 Vinyl chloride	62	1.538	1.532	0.006	98	53432	17.7	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.843	2.842	0.000	61	893	0.1786	a
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	16	354	0.1771	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	5561	2.89	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	86	166200	75.4	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.641	4.641	0.000	91	1210	0.3202	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83	6.287	6.293	-0.006	1	386	0.1543	a
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92	7.110	7.116	-0.006	27	739	0.1281	M
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	94	1272	0.1235	
74 m-Xylene & p-Xylene	106	8.878	8.890	-0.012	96	1645	0.4104	
75 o-Xylene	106	9.329	9.335	-0.006	90	438	0.1148	a
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91	10.237	10.243	-0.006	1	335	0.0293	a
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	1	358	0.0452	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	94	1708	0.2094	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.974	13.980	-0.006	91	1155	0.2685	a
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		78.3	
S 100 Xylenes, Total	1				0		0.5252	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

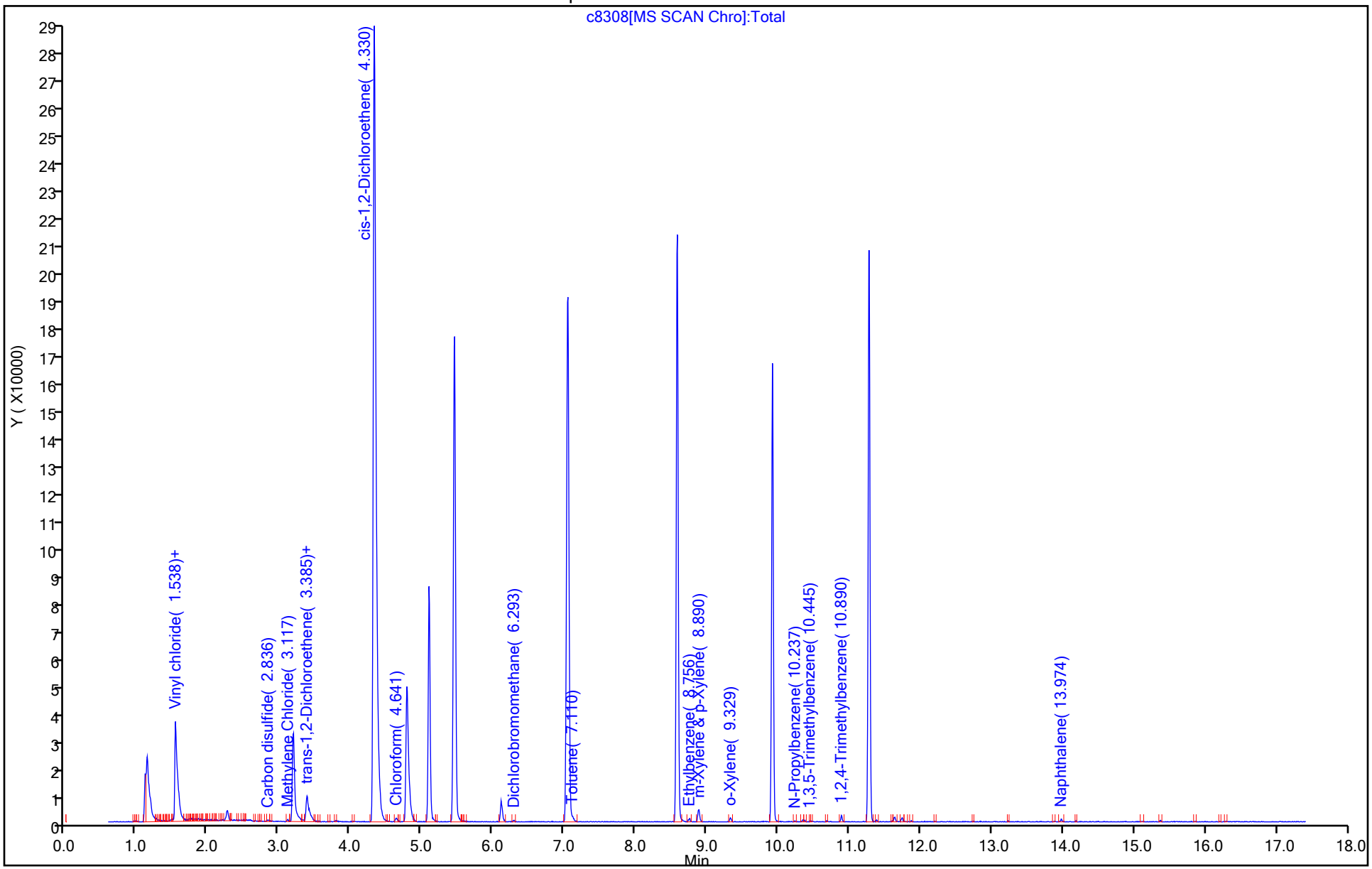
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:08 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8308.D				
Injection Date:	19-Nov-2020 13:11:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-7	Lab Sample ID:	310-140187-7	Worklist Smp#:	23
Client ID:	GW-110920-BE-025				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	23
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8308.D
Lims ID: 240-140187-B-7
Client ID: GW-110920-BE-025
Sample Type: Client
Inject. Date: 19-Nov-2020 13:11:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062729-023
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:01:20

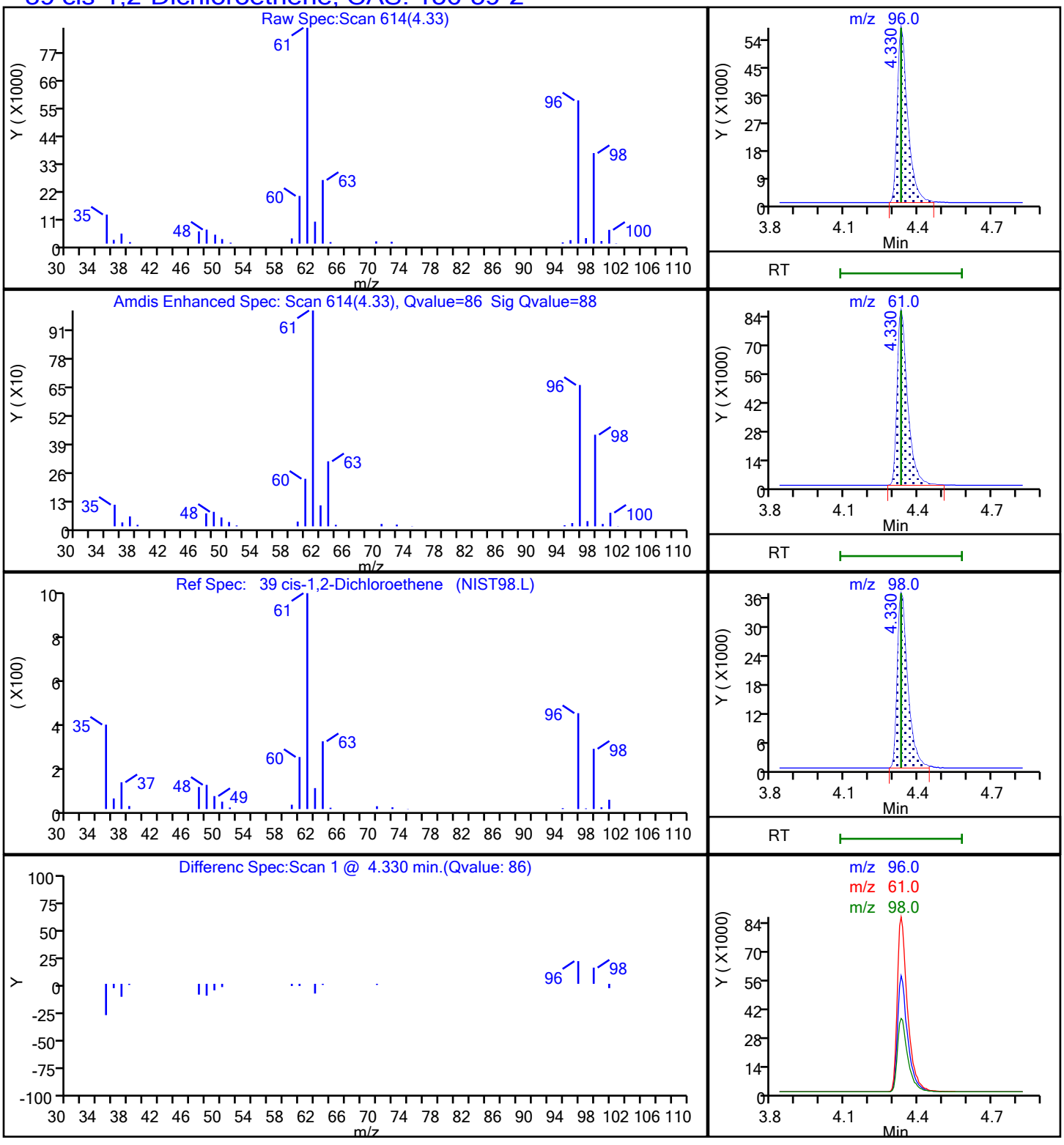
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.1	2125.63
$ 6 Toluene-d8 (Surr)	50.0	51.8	2071.43
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.2	1968.89

Report Date: 20-Nov-2020 12:15:08 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8308.D				
Injection Date:	19-Nov-2020 13:11:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

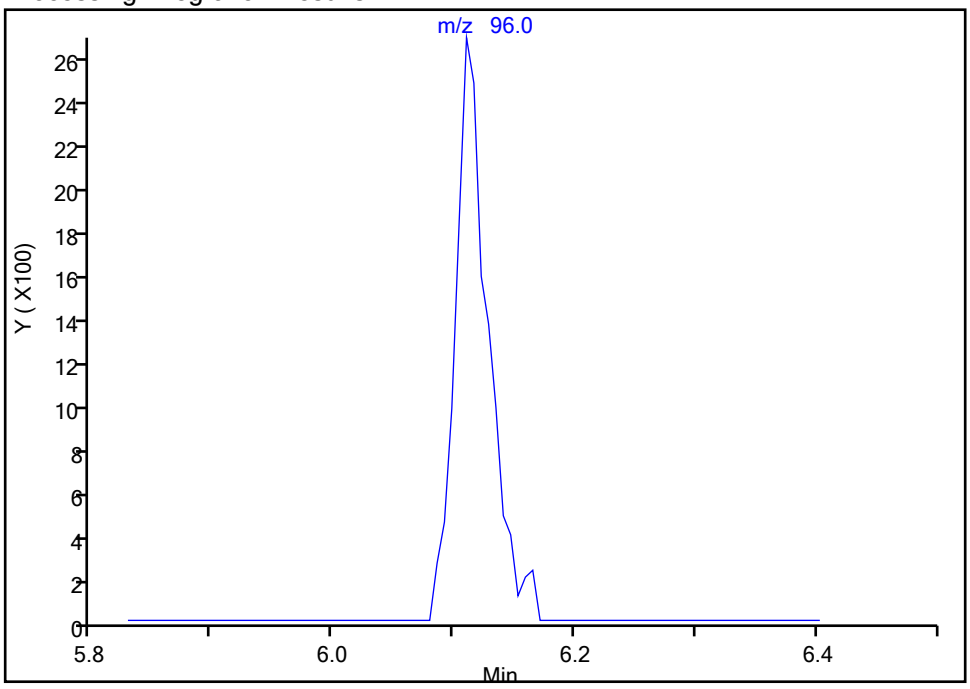
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8308.D				
Injection Date:	19-Nov-2020 13:11:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-7	Lab Sample ID:	310-140187-7		
Client ID:	GW-110920-BE-025				
Operator ID:	sjn	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

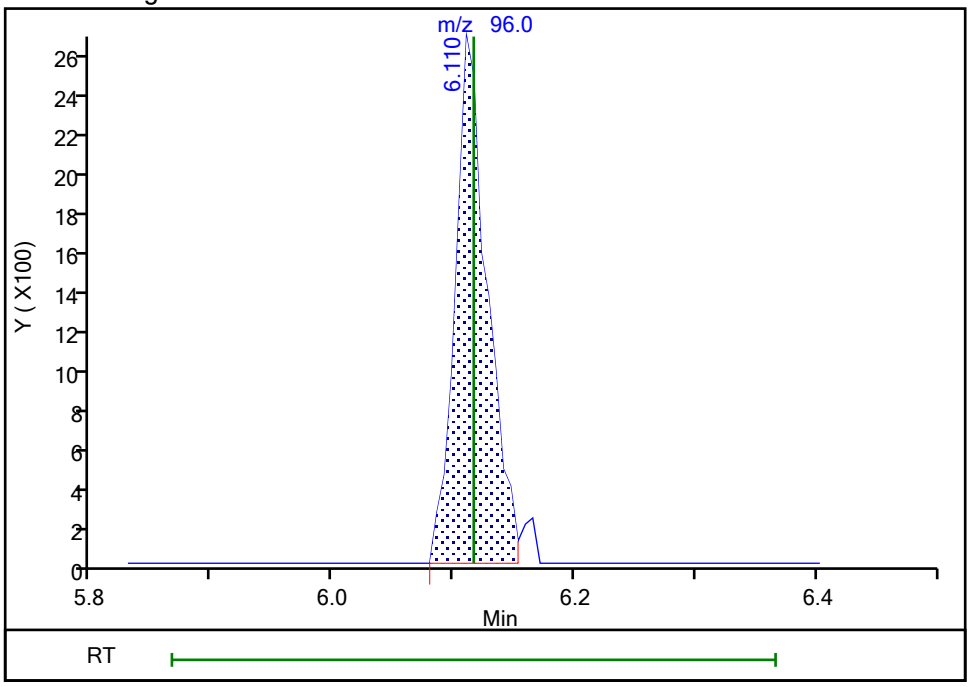
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 4999
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:59:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-026 Lab Sample ID: 240-140187-8

Matrix: Water Lab File ID: c8240.D

Analysis Method: 8260D Date Collected: 11/09/2020 10:07

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	14		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	28		1.0	0.22
75-35-4	1,1-Dichloroethene	31		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.94		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	24		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	130		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-026 Lab Sample ID: 240-140187-8

Matrix: Water Lab File ID: c8240.D

Analysis Method: 8260D Date Collected: 11/09/2020 10:07

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D
Lims ID: 240-140187-A-8
Client ID: GW-110920-BE-026
Sample Type: Client
Inject. Date: 18-Nov-2020 10:33:30 ALS Bottle#: 18 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-016
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:57:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.403	3.385	0.018	0	210	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	175507	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	94	5242	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	123329	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	55114	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	42639	54.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	95	163112	51.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	43476	48.2	
$ 8 BFB	95	9.920	9.920	0.000	82	59834	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	98	418671	129.5	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.653	2.660	-0.007	94	56302	31.2	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	49946	24.3	Ma
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	107563	27.8	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	8540959	3624.4	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	96	45418	13.7	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.171	5.177	-0.006	99	8545	0.9422	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95	5.805	5.805	0.000	85	452	0.1950	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		3648.7	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

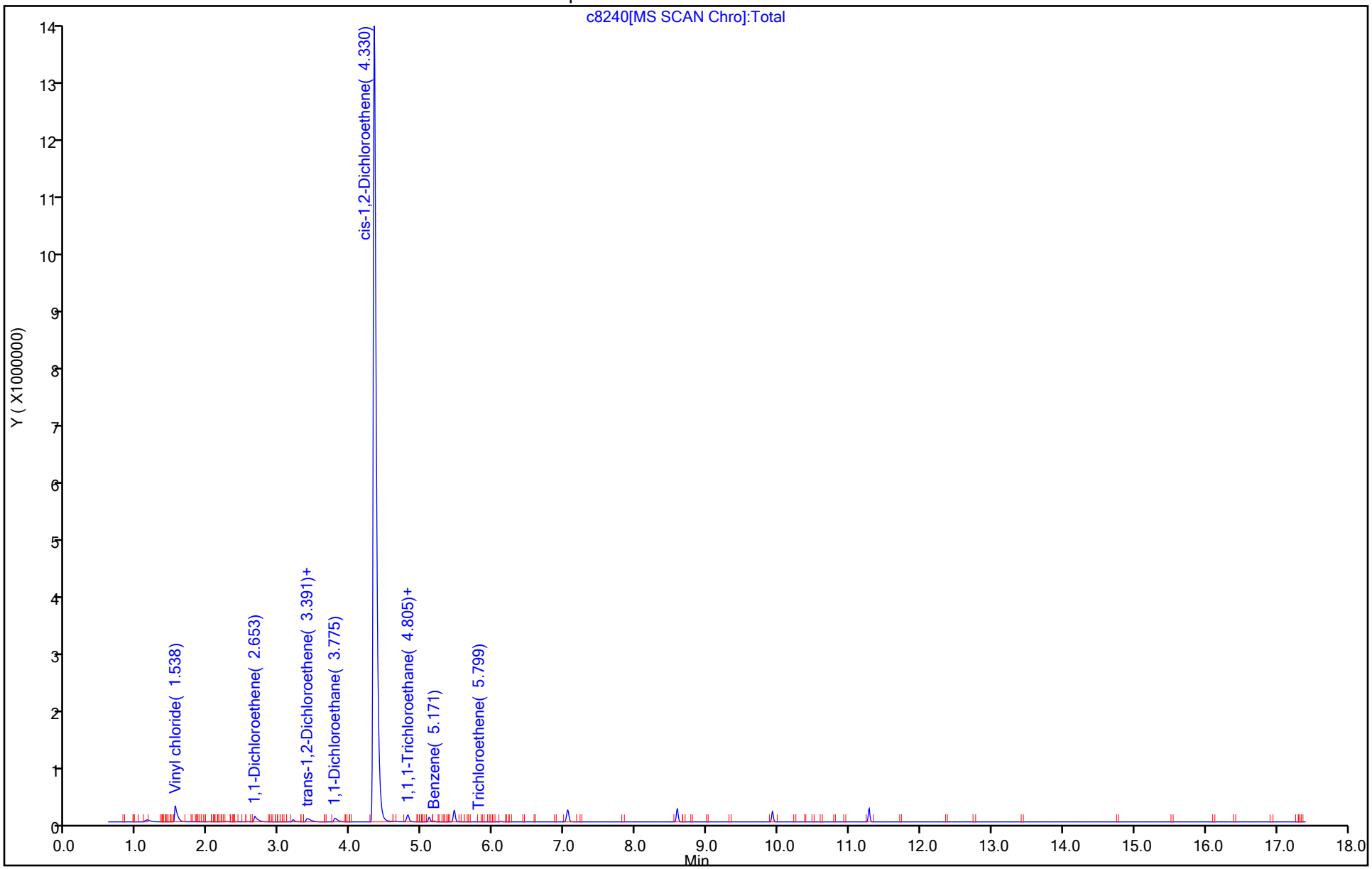
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8	Worklist Smp#:	16
Client ID:	GW-110920-BE-026				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D
Lims ID: 240-140187-A-8
Client ID: GW-110920-BE-026
Sample Type: Client
Inject. Date: 18-Nov-2020 10:33:30 ALS Bottle#: 18 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-016
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 12:57:16

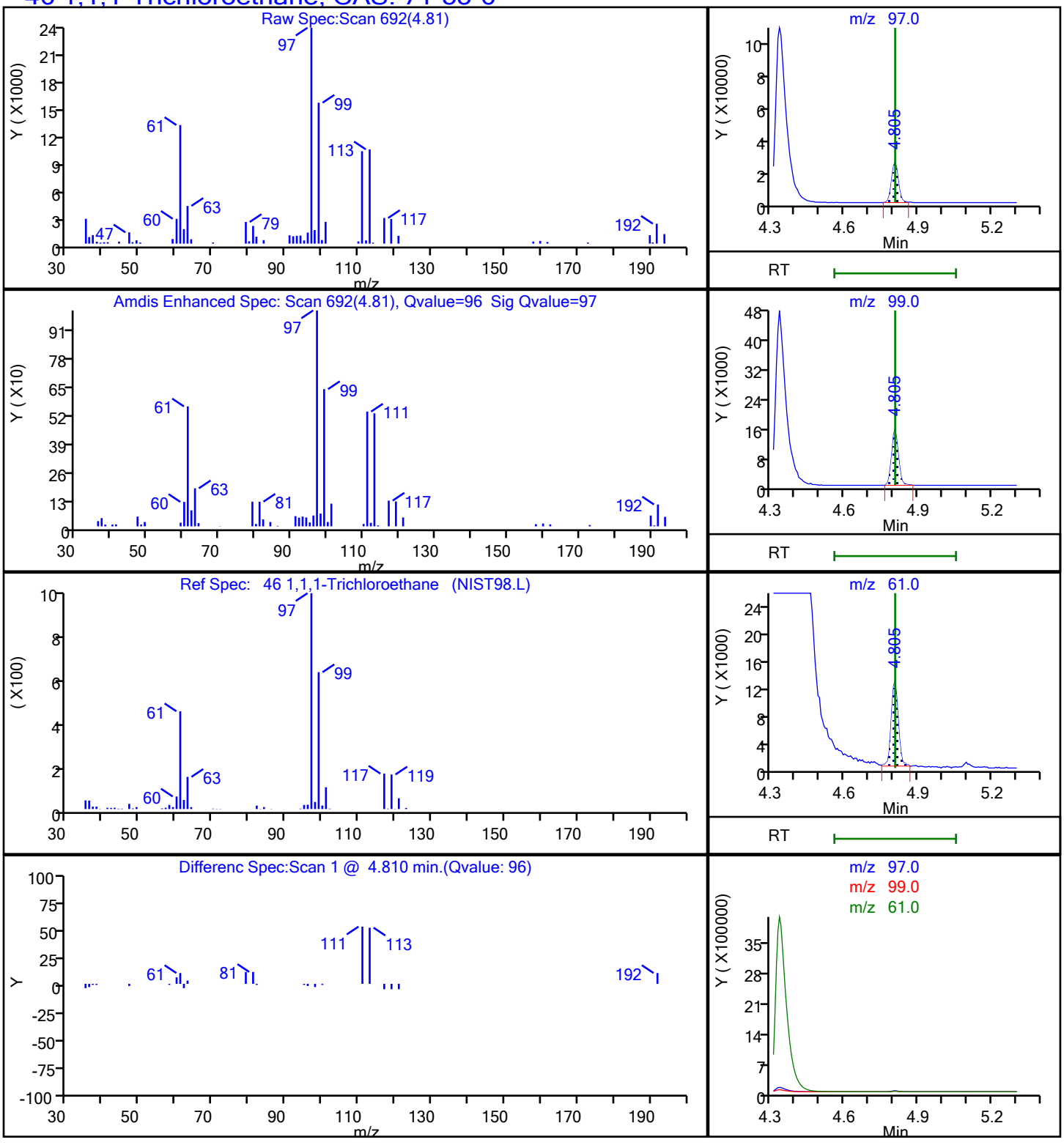
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.2	108.41
$ 6 Toluene-d8 (Surr)	50.0	51.6	103.17
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.2	96.43

Report Date: 19-Nov-2020 06:54:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

46 1,1,1-Trichloroethane, CAS: 71-55-6

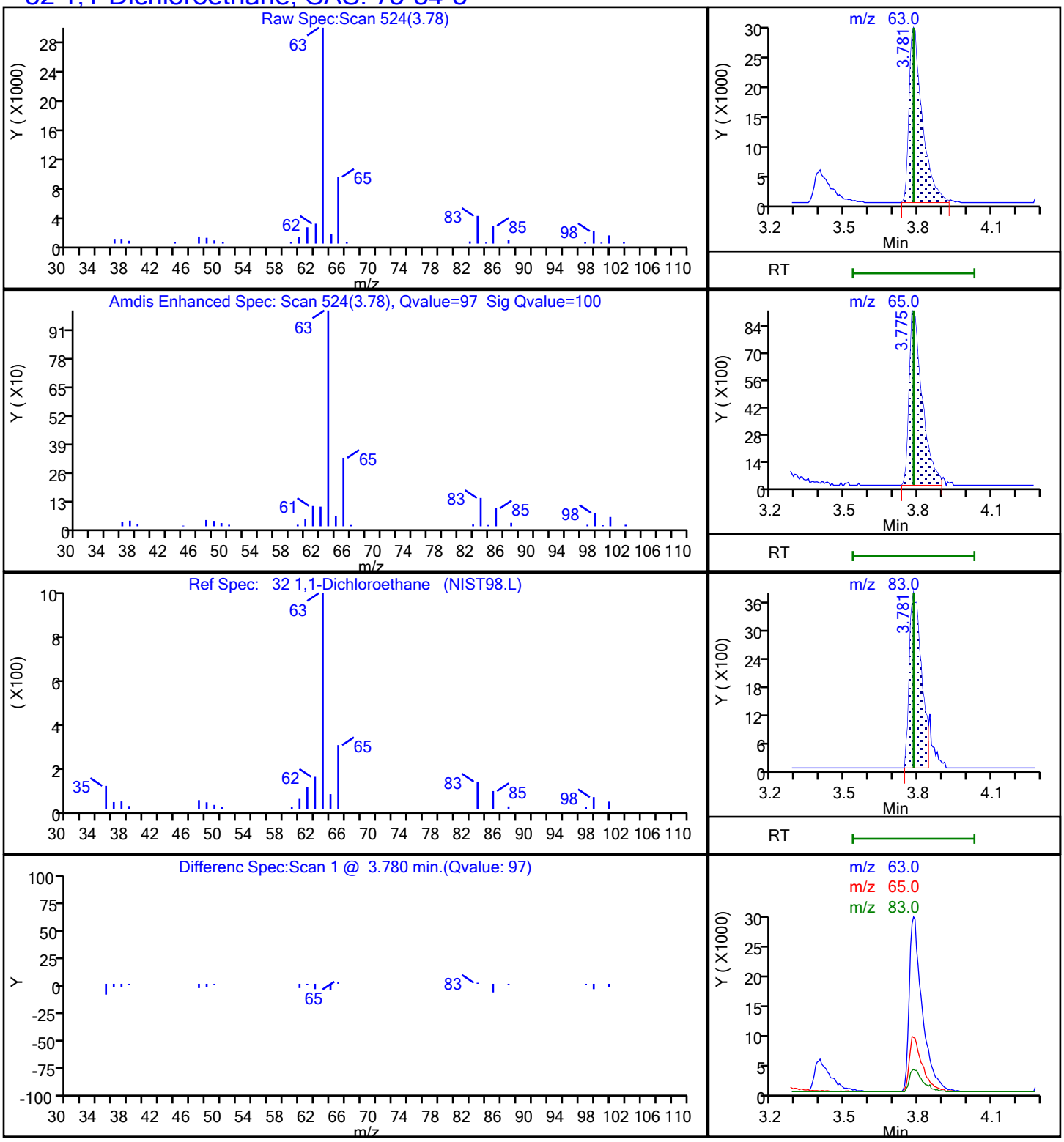


Report Date: 19-Nov-2020 06:54:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

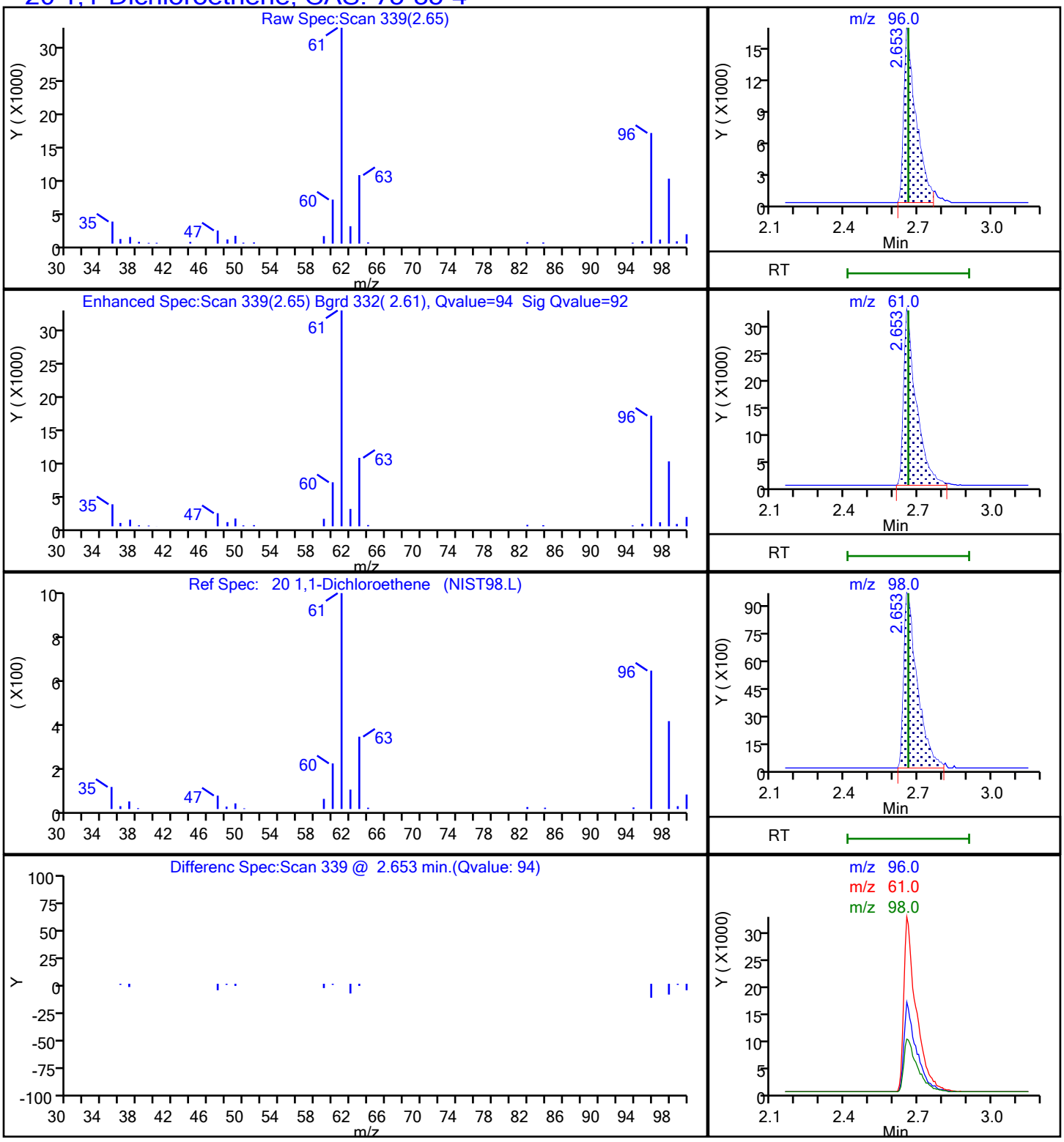


Report Date: 19-Nov-2020 06:54:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4



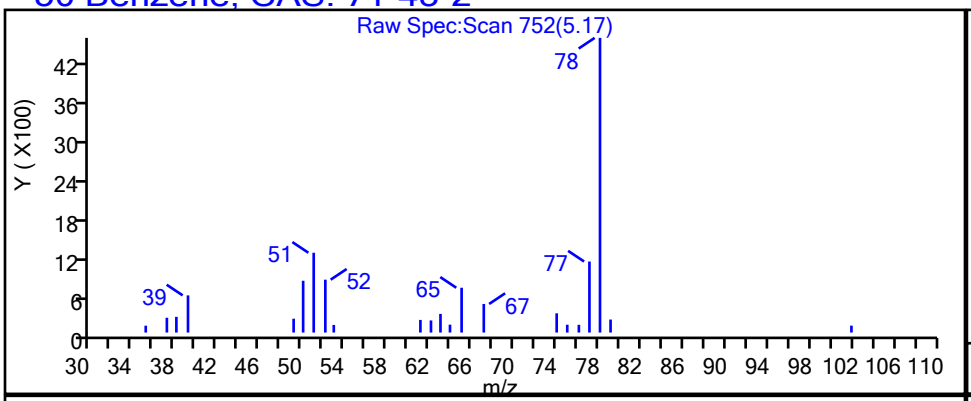
Report Date: 19-Nov-2020 06:54:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

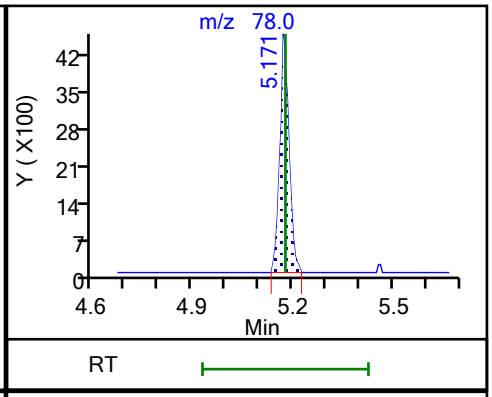
Eurofins TestAmerica, Cedar Falls

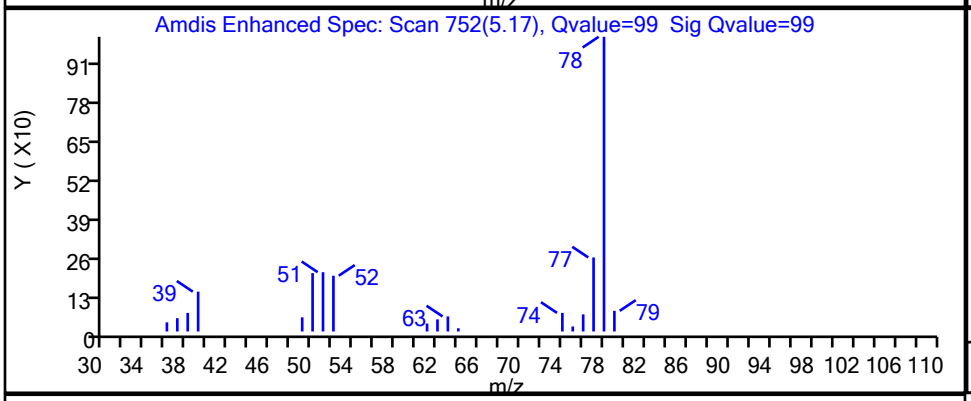
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D

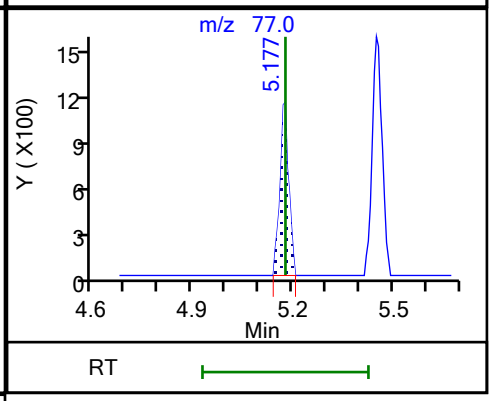
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8
Client ID:	GW-110920-BE-026		
Operator ID:	sjn	ALS Bottle#:	18 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

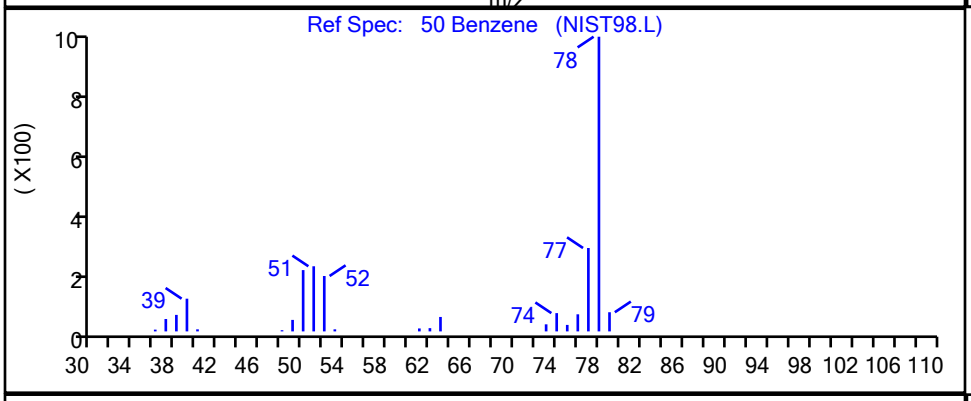
50 Benzene, CAS: 71-43-2

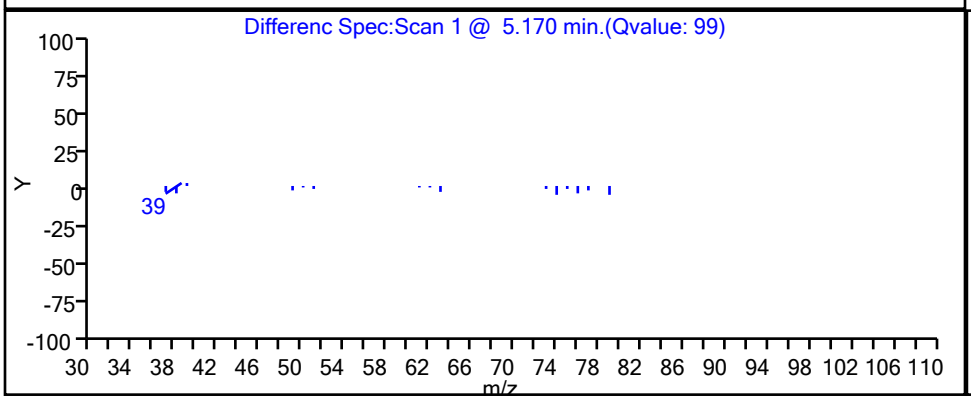


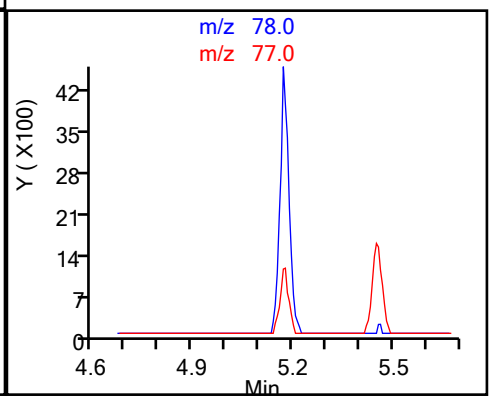










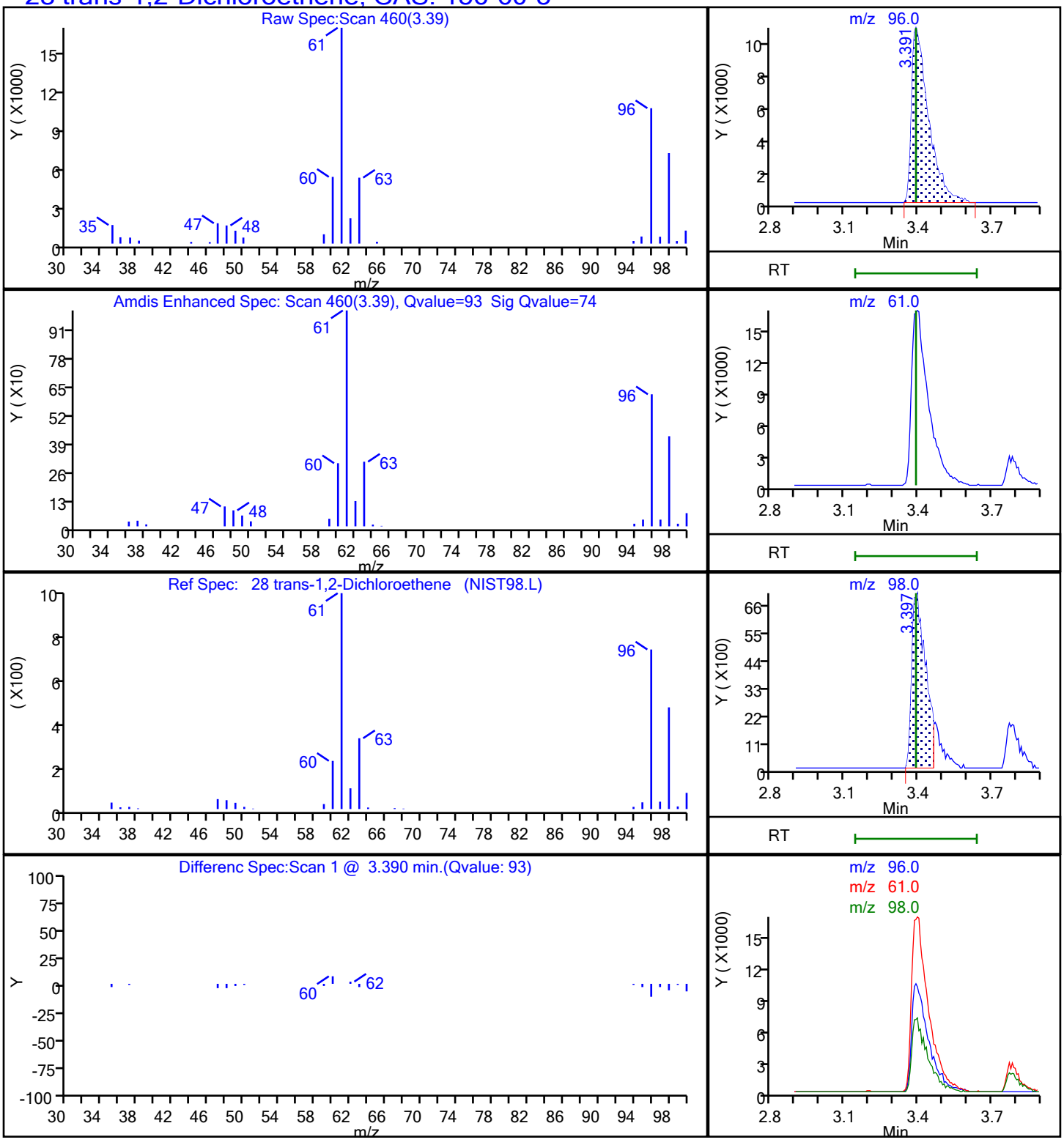


Report Date: 19-Nov-2020 06:54:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



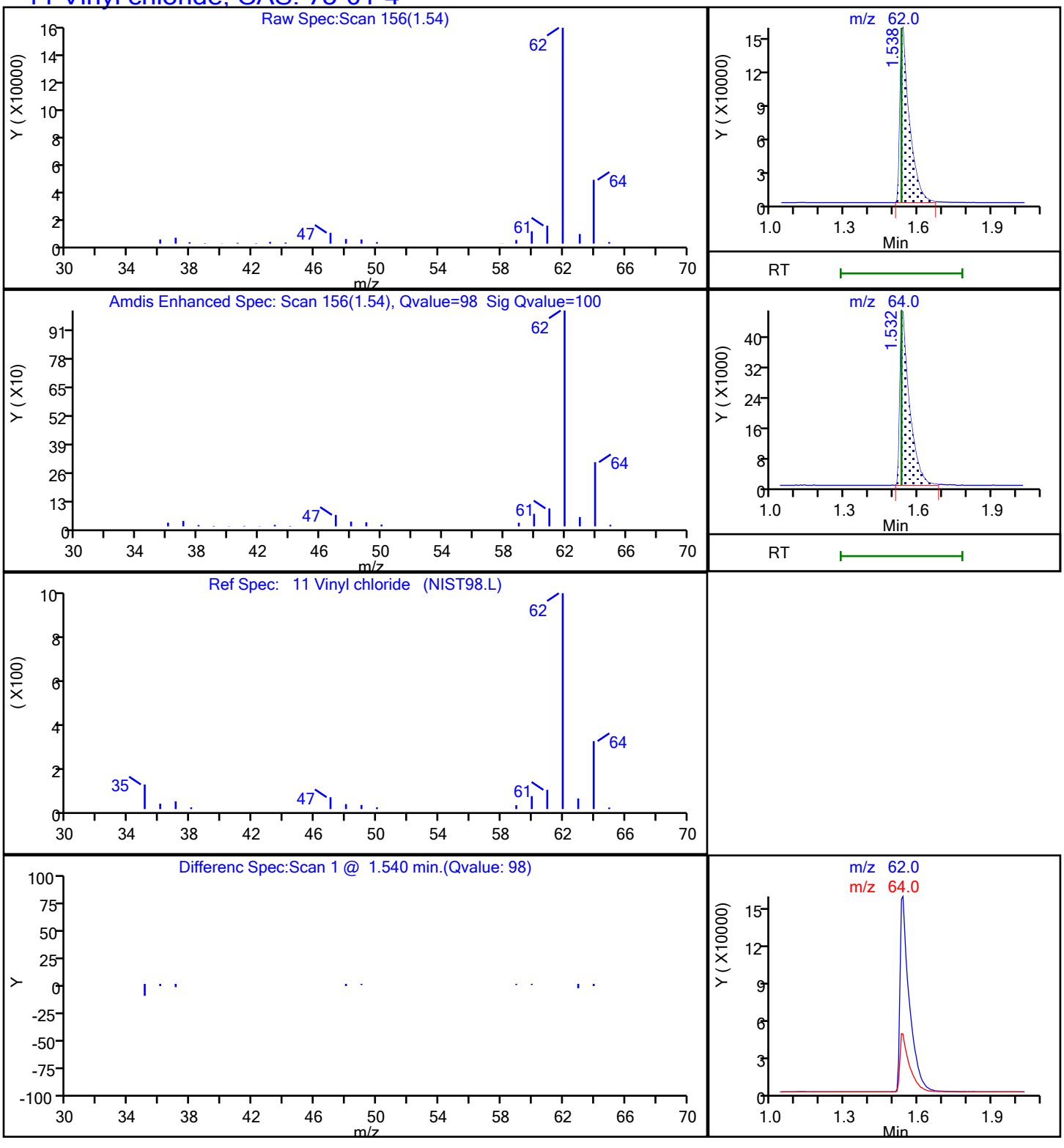
Report Date: 19-Nov-2020 06:54:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D

Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

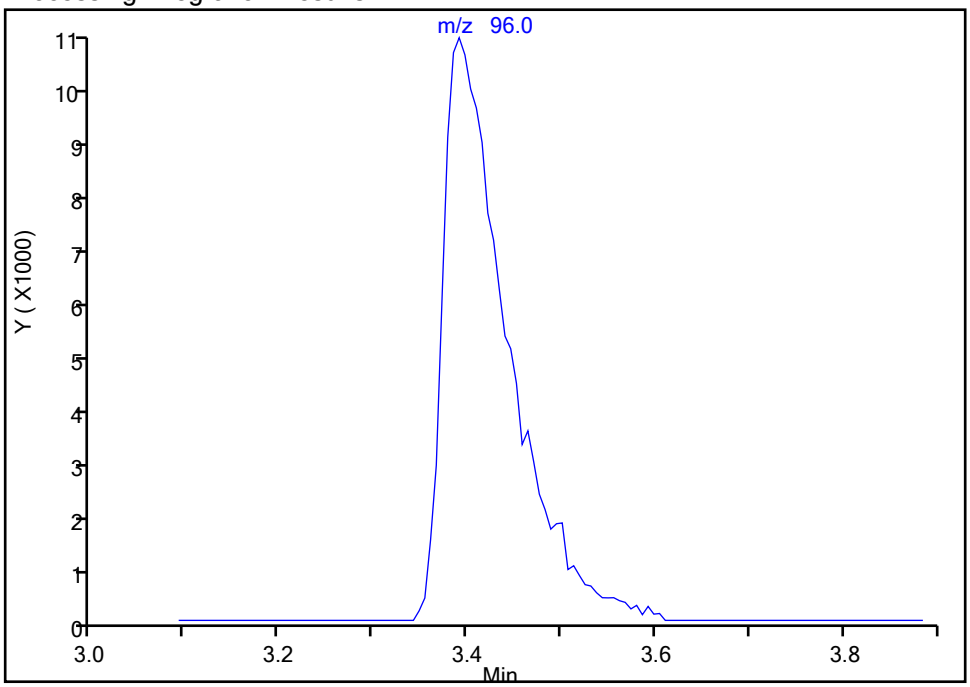
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

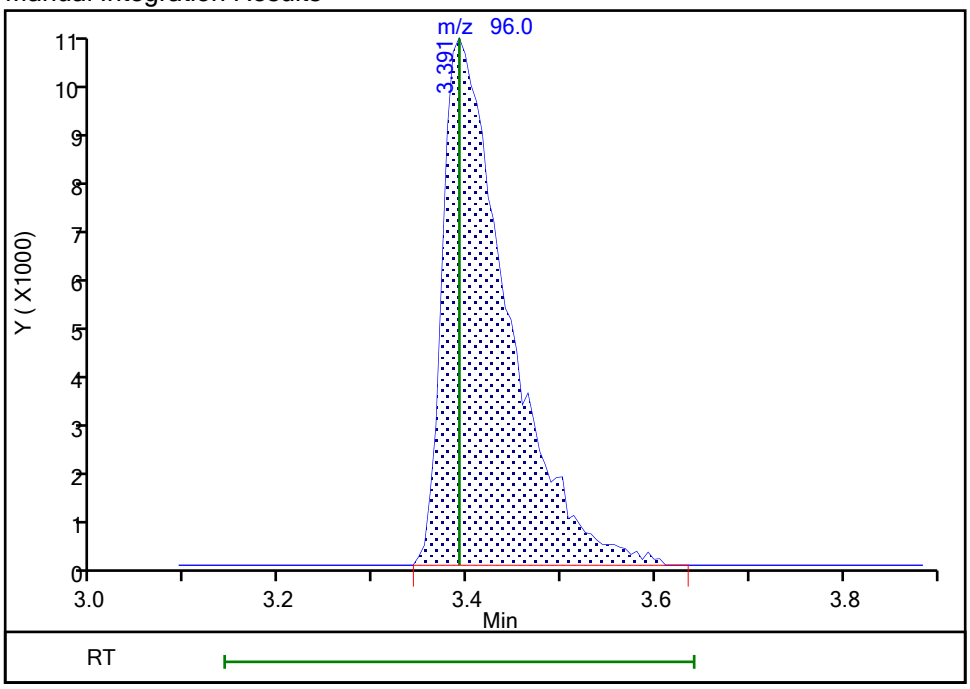
Not Detected
Expected RT: 3.39

Processing Integration Results



Manual Integration Results

RT: 3.39
Area: 49946
Amount: 24.252117
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 12:47:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

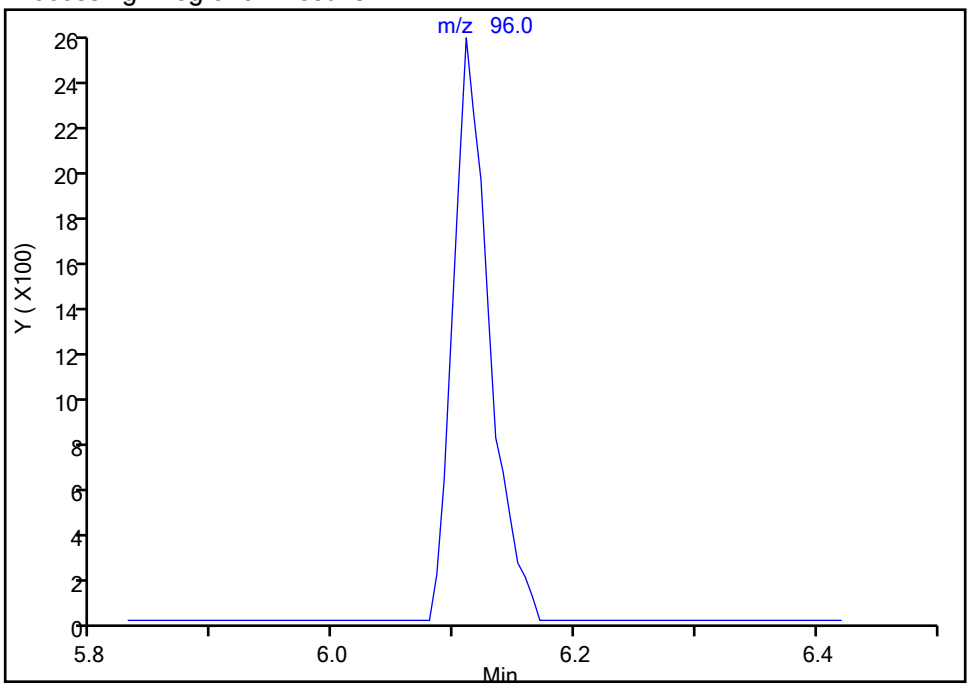
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8240.D				
Injection Date:	18-Nov-2020 10:33:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

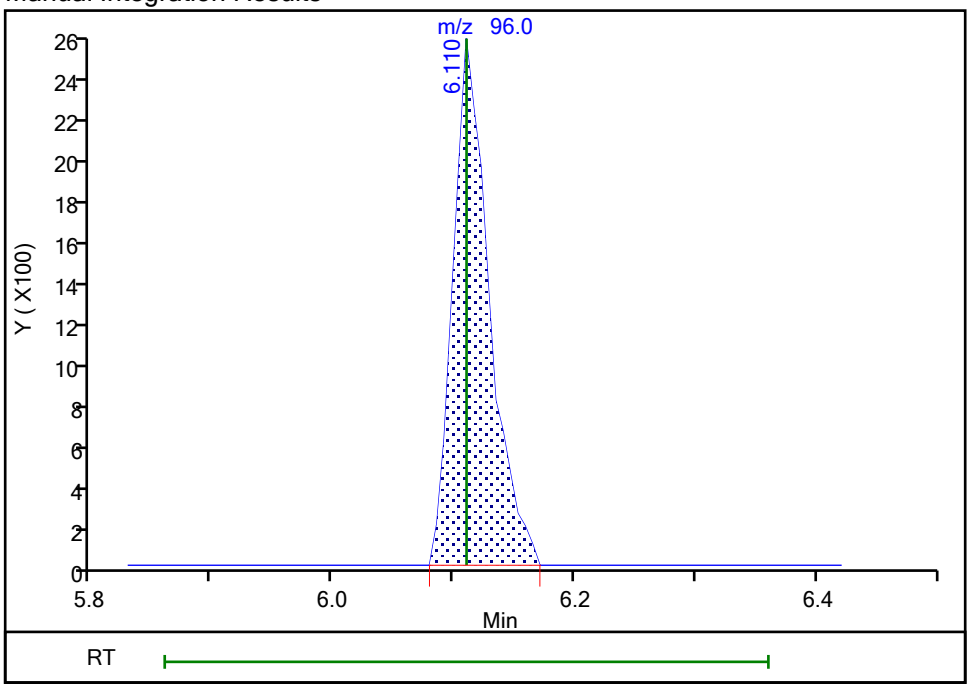
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.11
Area: 5242
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 18-Nov-2020 12:48:11
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-026 Lab Sample ID: 240-140187-8

Matrix: Water Lab File ID: c8310.D

Analysis Method: 8260D Date Collected: 11/09/2020 10:07

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 14:00

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	3000	B	50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	107		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8310.D
Lims ID: 240-140187-B-8
Client ID: GW-110920-BE-026
Sample Type: Client
Inject. Date: 19-Nov-2020 14:00:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-025
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:05:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.367	3.373	-0.006	0	351	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	165554	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	95	5498	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	117109	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	51828	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	39788	53.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	155778	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	40783	48.1	
$ 8 BFB	95	9.920	9.920	0.000	82	56565	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	97	6428	2.11	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.653	2.659	-0.006	87	752	0.4416	M
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.830	2.842	-0.012	62	834	0.1654	a
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	30	318	0.1577	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.409	3.391	0.018	21	917	0.4720	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.793	3.781	0.012	1	1632	0.4479	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	135540	61.0	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.629	4.641	-0.012	19	1503	0.3944	M
46 1,1,1-Trichloroethane	97	4.799	4.805	-0.006	35	535	0.1713	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83	6.287	6.293	-0.006	1	356	0.1411	M
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.335			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.243			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.896			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.310			ND		
110 1,2,3-Trimethylbenzene	105		11.390			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.767			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.694			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.980			ND		
99 1,2,3-Trichlorobenzene	180		14.279			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
138 Dodecane	57		0.000			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
133 Isooctane	57		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		61.4	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

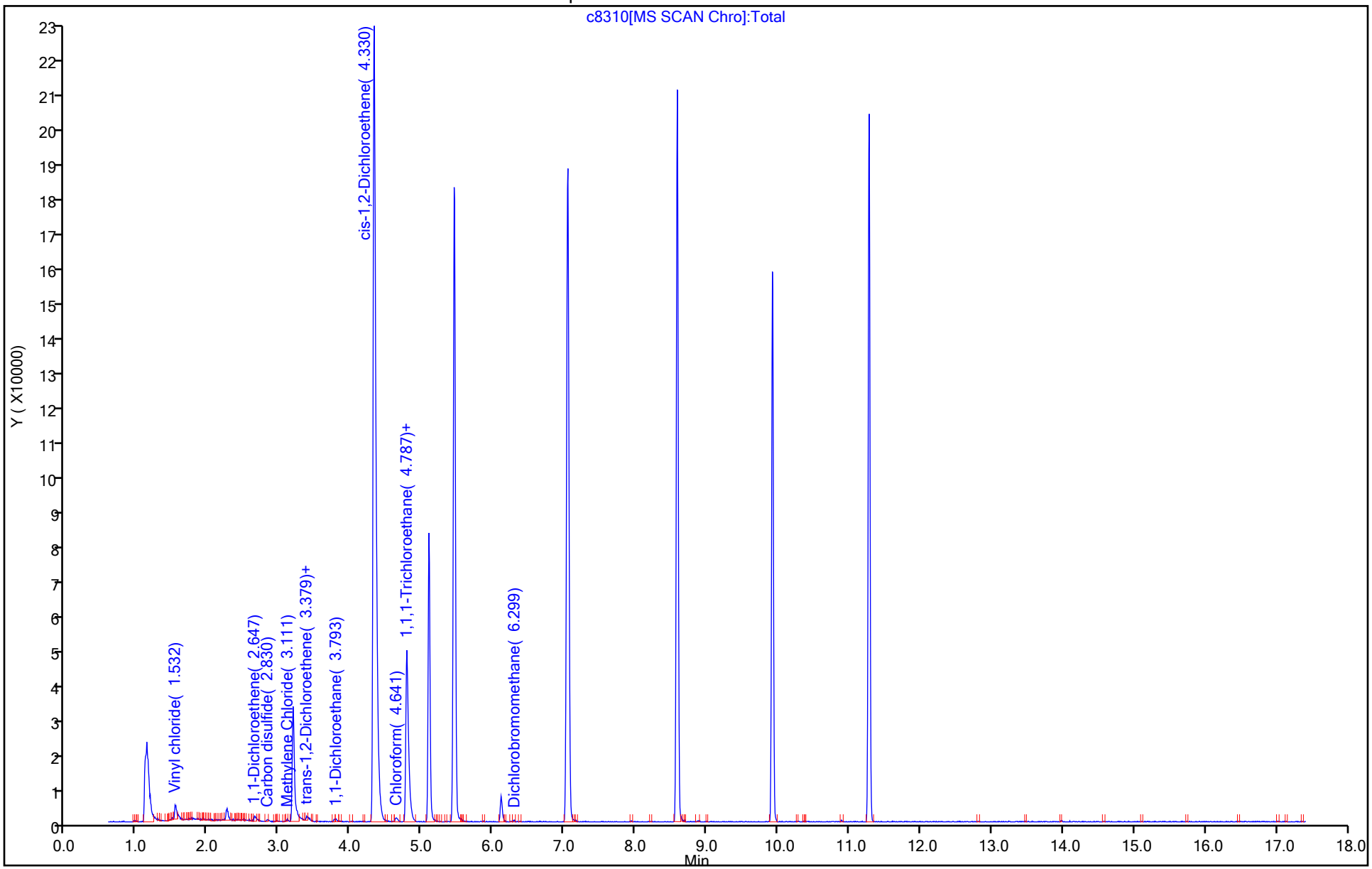
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8310.D				
Injection Date:	19-Nov-2020 14:00:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-8	Lab Sample ID:	310-140187-8	Worklist Smp#:	25
Client ID:	GW-110920-BE-026				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	25
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8310.D
Lims ID: 240-140187-B-8
Client ID: GW-110920-BE-026
Sample Type: Client
Inject. Date: 19-Nov-2020 14:00:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-025
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:05:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.6	5362.38
$ 6 Toluene-d8 (Surr)	50.0	51.9	5188.22
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.1	4809.82

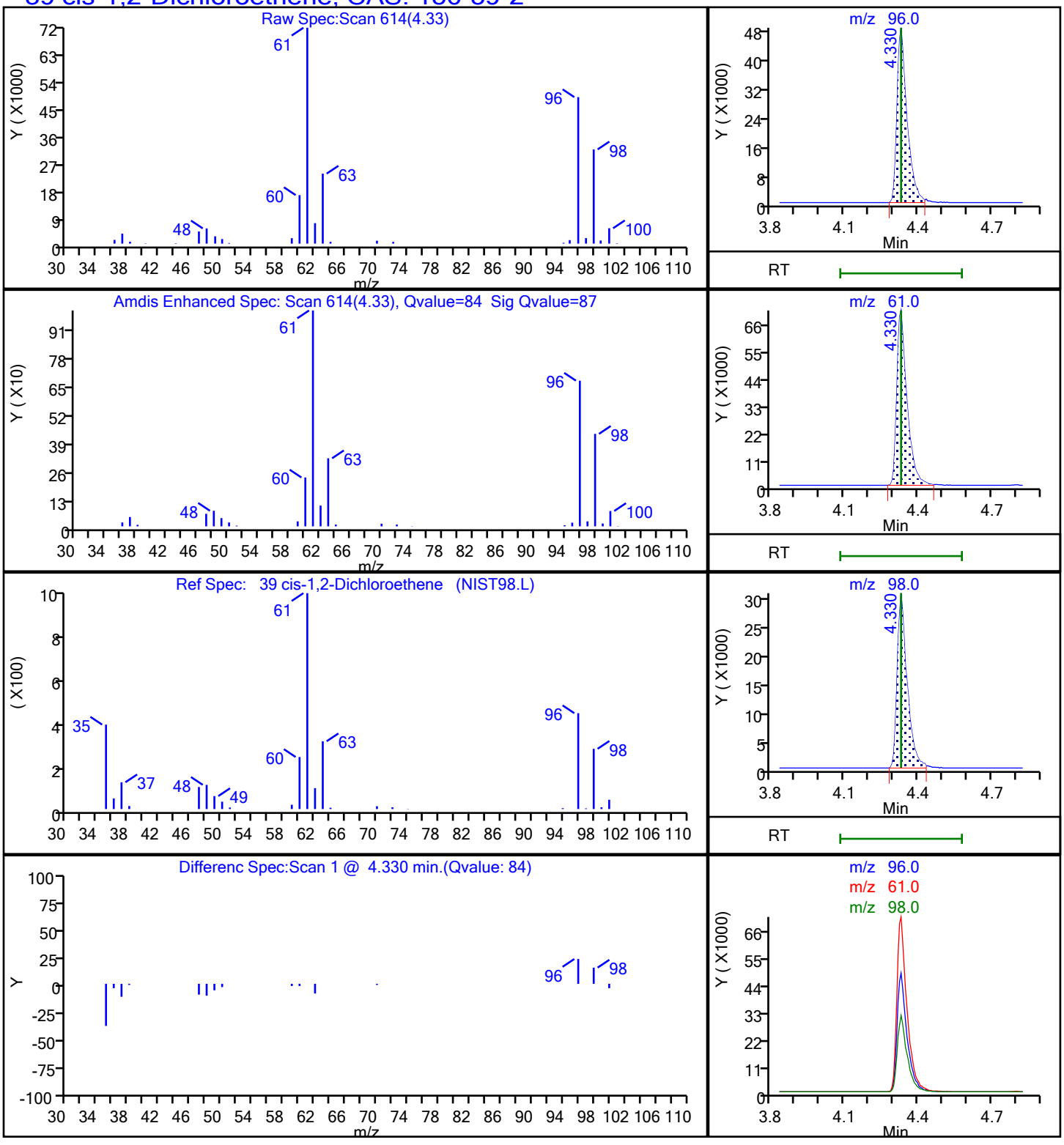
Report Date: 20-Nov-2020 12:15:15 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8310.D

Injection Date:	19-Nov-2020 14:00:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

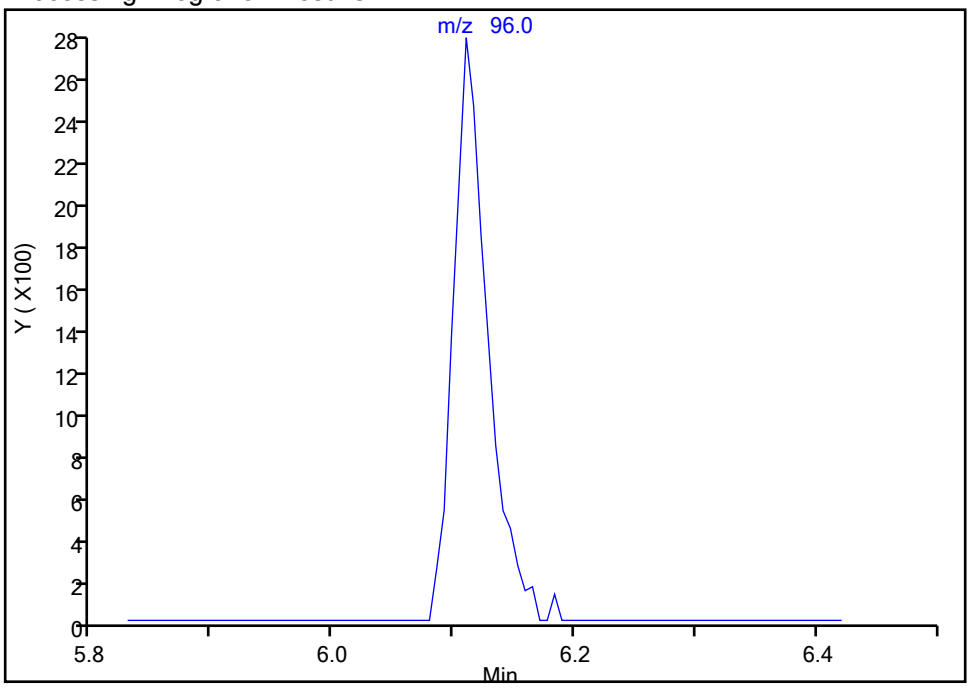
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8310.D				
Injection Date:	19-Nov-2020 14:00:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-8	Lab Sample ID:	310-140187-8		
Client ID:	GW-110920-BE-026				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

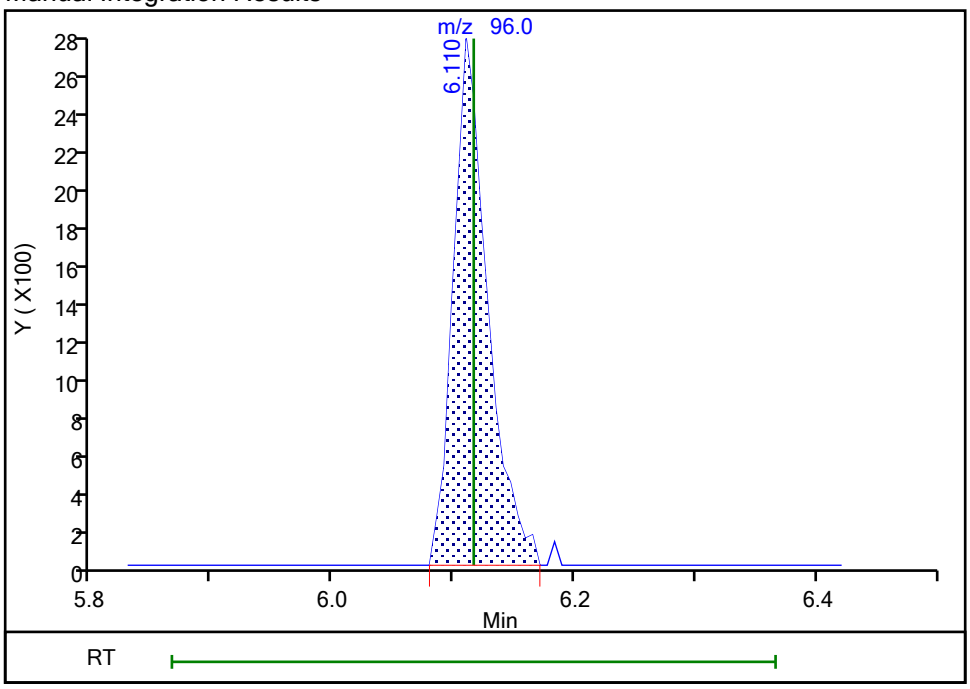
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5498
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 12:03:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-027 Lab Sample ID: 240-140187-9

Matrix: Water Lab File ID: c8241.D

Analysis Method: 8260D Date Collected: 11/09/2020 11:59

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-027 Lab Sample ID: 240-140187-9

Matrix: Water Lab File ID: c8241.D

Analysis Method: 8260D Date Collected: 11/09/2020 11:59

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 10:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8241.D
Lims ID: 240-140187-A-9
Client ID: GW-110920-BE-027
Sample Type: Client
Inject. Date: 18-Nov-2020 10:58:30 ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-017
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:06:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	184	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	170745	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5315	1000.0	Ma
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	123530	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54695	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	40051	52.3	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	95	160204	50.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	43759	48.9	
$ 8 BFB	95	9.920	9.920	0.000	82	59931	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.836	2.843	-0.007	59	457	0.0879	a
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.324	4.330	-0.006	84	10665	4.65	M
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		4.65	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

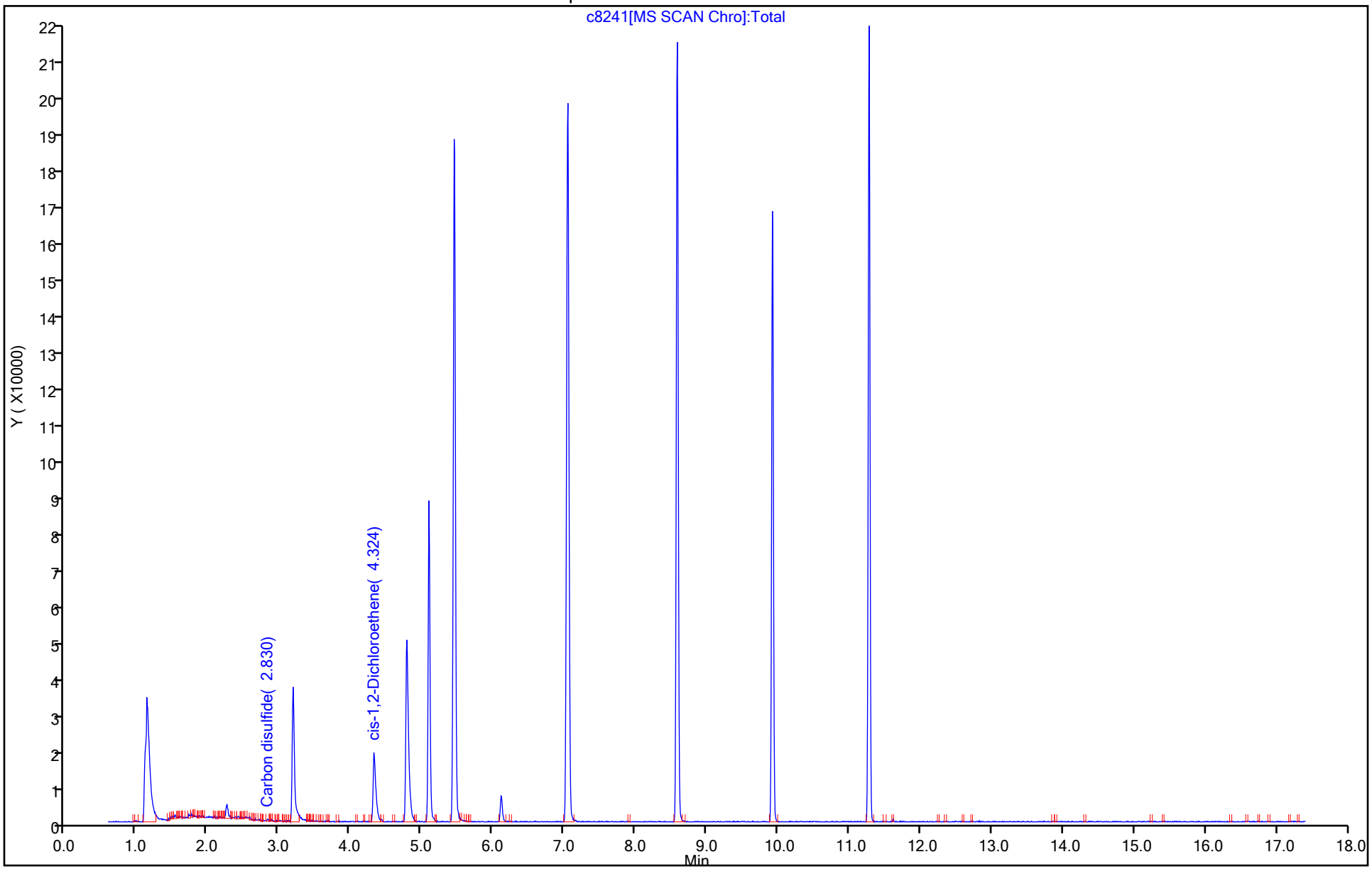
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:44 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8241.D				
Injection Date:	18-Nov-2020 10:58:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-9	Lab Sample ID:	310-140187-9	Worklist Smp#:	17
Client ID:	GW-110920-BE-027				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8241.D
Lims ID: 240-140187-A-9
Client ID: GW-110920-BE-027
Sample Type: Client
Inject. Date: 18-Nov-2020 10:58:30 ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-017
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:06:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.3	104.67
$ 6 Toluene-d8 (Surr)	50.0	50.6	101.17
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.9	97.81

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

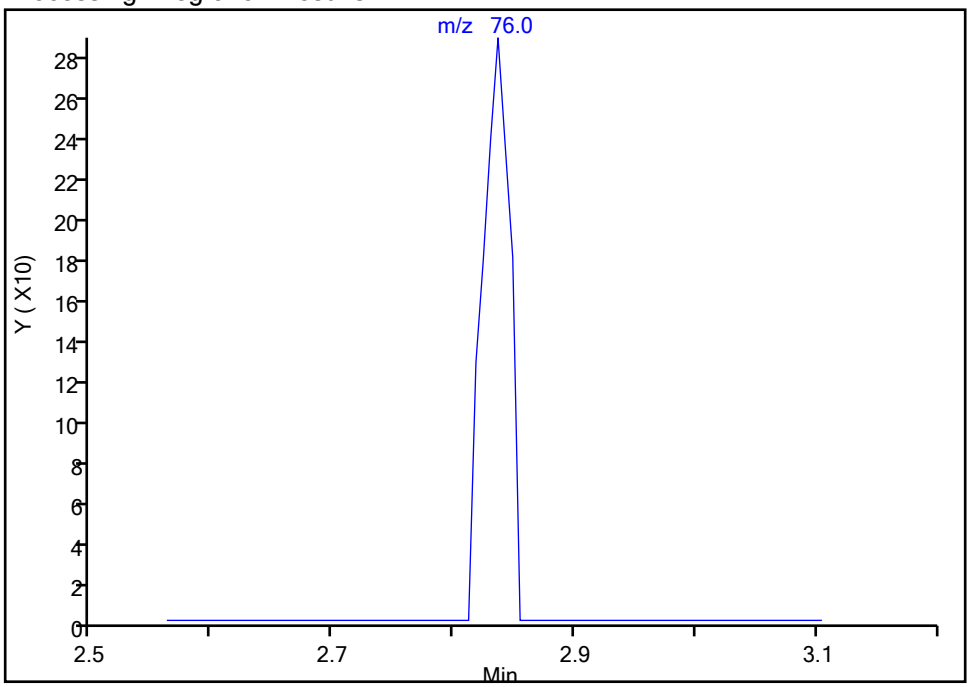
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8241.D				
Injection Date:	18-Nov-2020 10:58:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-9	Lab Sample ID:	310-140187-9		
Client ID:	GW-110920-BE-027				
Operator ID:	sjn	ALS Bottle#:	19	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

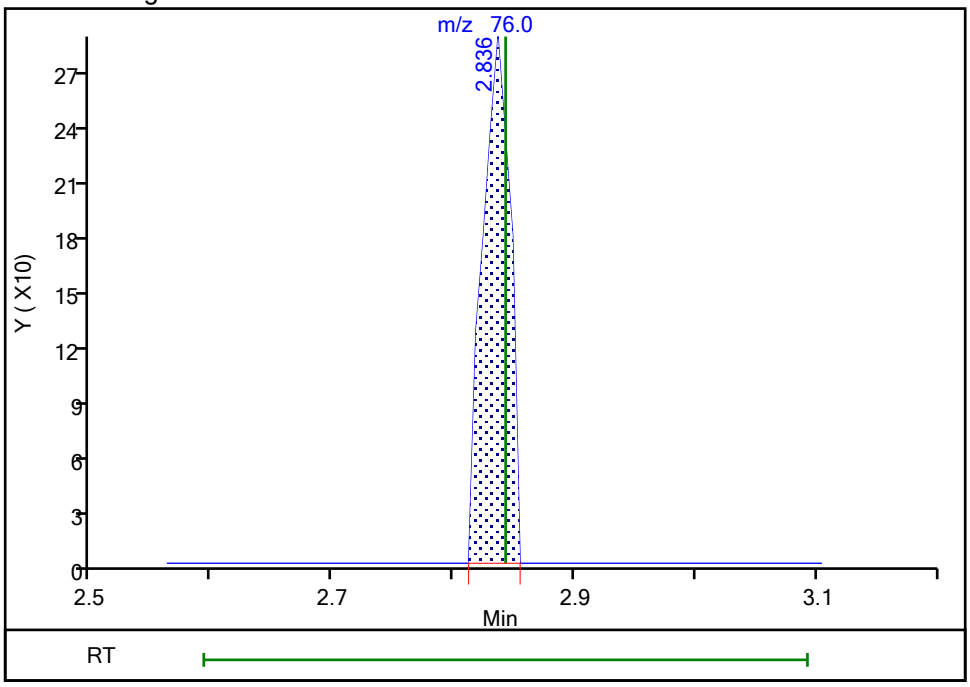
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 457
Amount: 0.087887
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:05:28
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

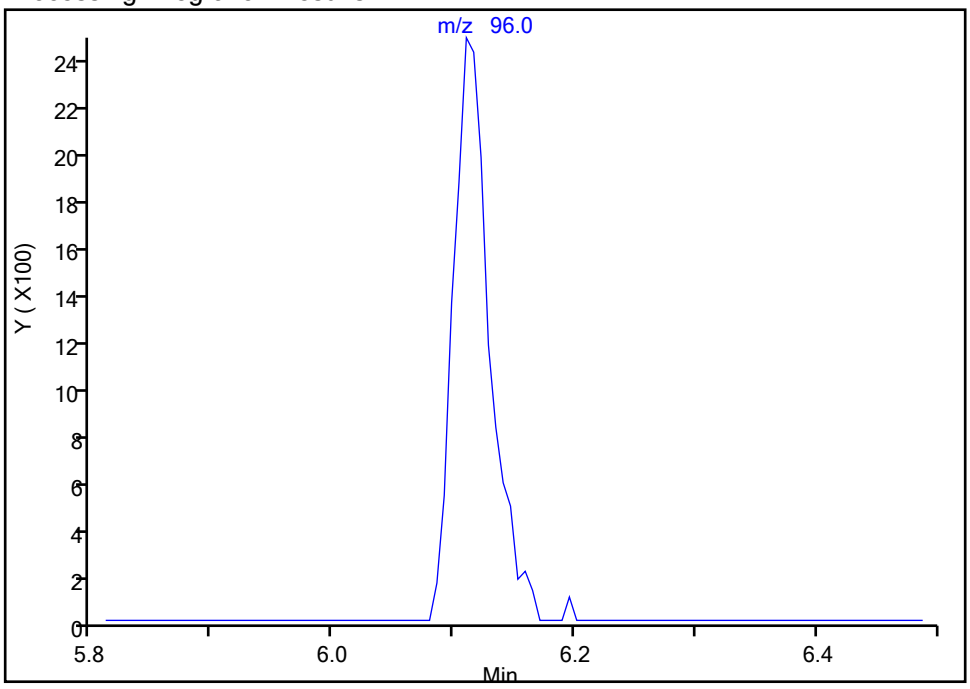
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8241.D				
Injection Date:	18-Nov-2020 10:58:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-9	Lab Sample ID:	310-140187-9		
Client ID:	GW-110920-BE-027				
Operator ID:	sjn	ALS Bottle#:	19	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

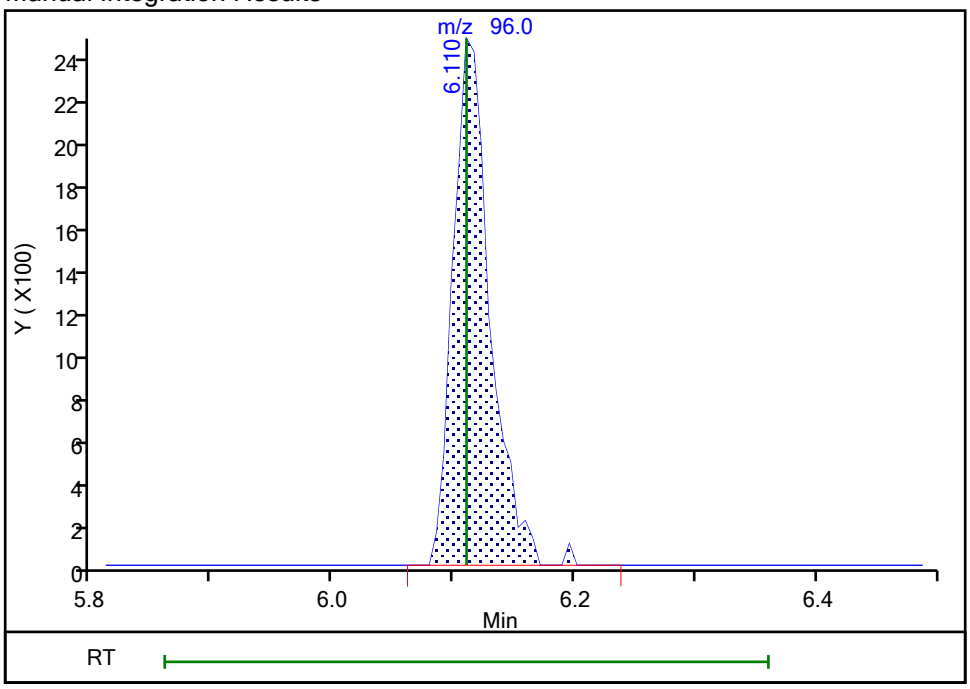
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5315
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:05:14
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-027 Lab Sample ID: 240-140187-9

Matrix: Water Lab File ID: c8297.D

Analysis Method: 8260D Date Collected: 11/09/2020 11:59

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 08:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.68	J B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8297.D
Lims ID: 240-140187-B-9
Client ID: GW-110920-BE-027
Sample Type: Client
Inject. Date: 19-Nov-2020 08:41:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:31:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.367	3.373	-0.006	0	195	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	163901	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	90	5474	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	120701	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53735	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	38871	52.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	157864	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	42296	48.1	
$ 8 BFB	95	9.920	9.920	0.000	81	56659	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	84	1488	0.6762	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		0.6762	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

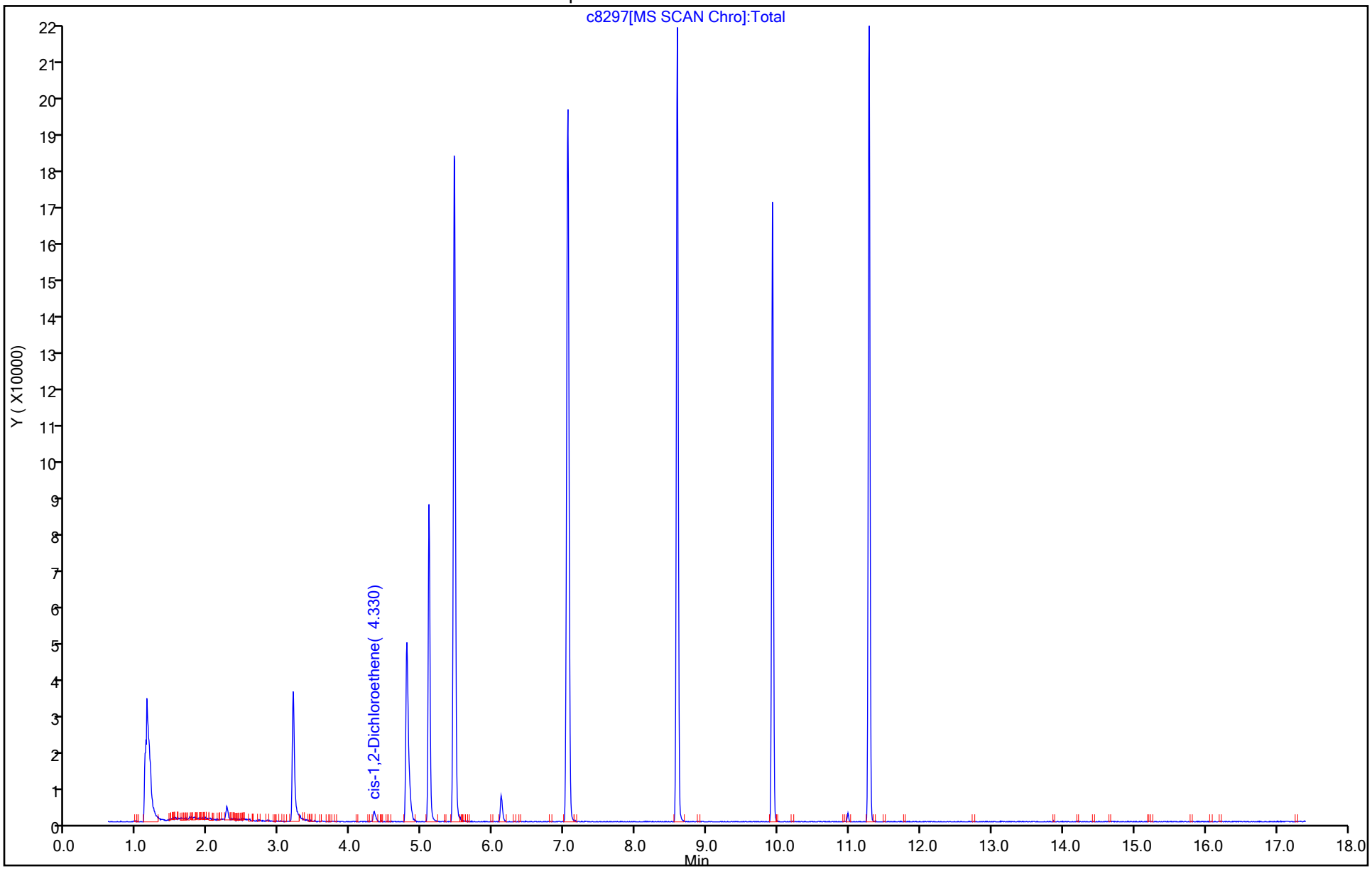
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8297.D				
Injection Date:	19-Nov-2020 08:41:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-9	Lab Sample ID:	310-140187-9	Worklist Smp#:	12
Client ID:	GW-110920-BE-027				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8297.D
Lims ID: 240-140187-B-9
Client ID: GW-110920-BE-027
Sample Type: Client
Inject. Date: 19-Nov-2020 08:41:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:31:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.9	105.83
$ 6 Toluene-d8 (Surr)	50.0	51.0	102.02
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.1	96.22

Report Date: 20-Nov-2020 12:14:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8297.D

Injection Date: 19-Nov-2020 08:41:30 Instrument ID: Calvin

Lims ID: 240-140187-B-9 Lab Sample ID: 310-140187-9

Client ID: GW-110920-BE-027

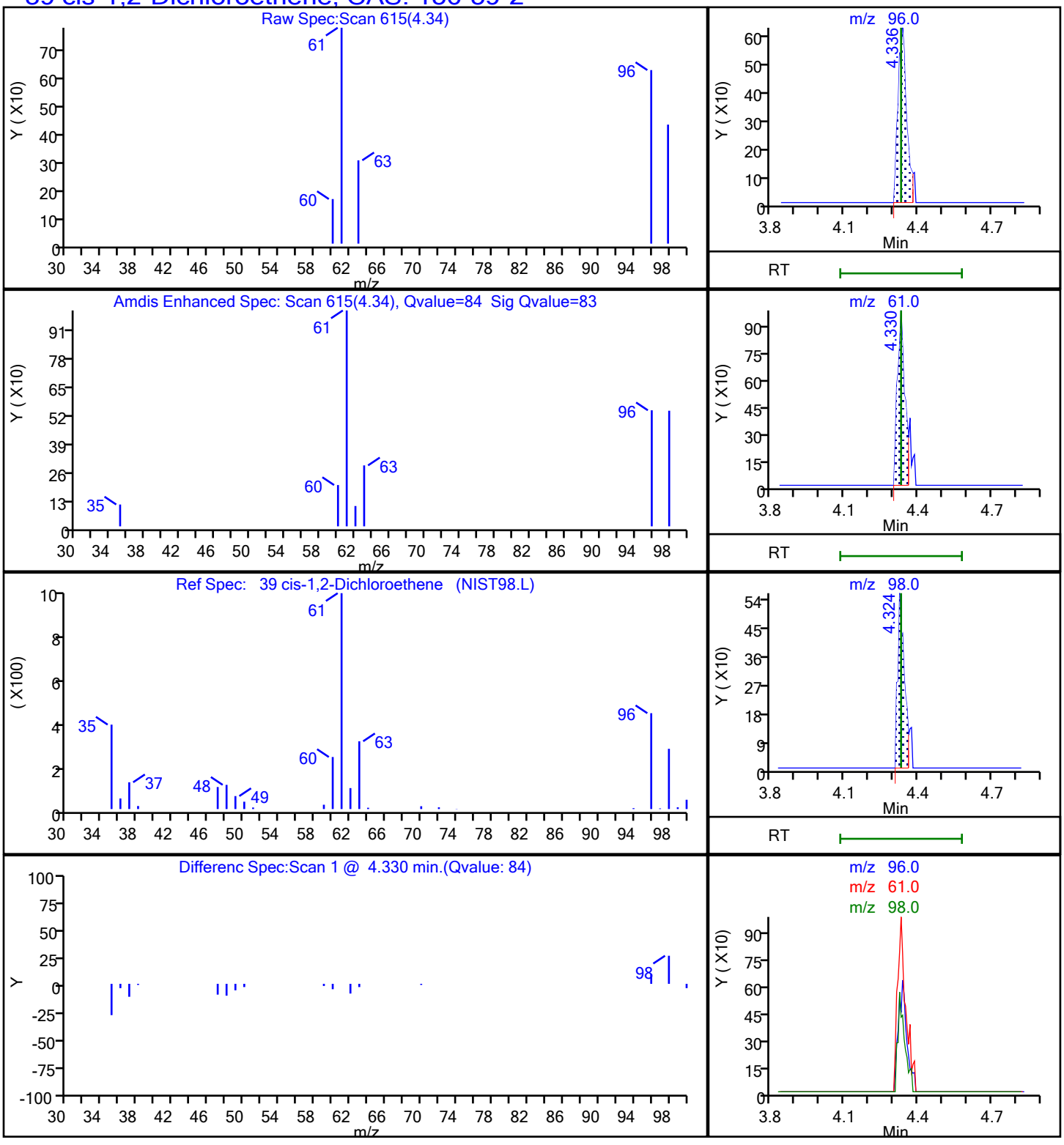
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

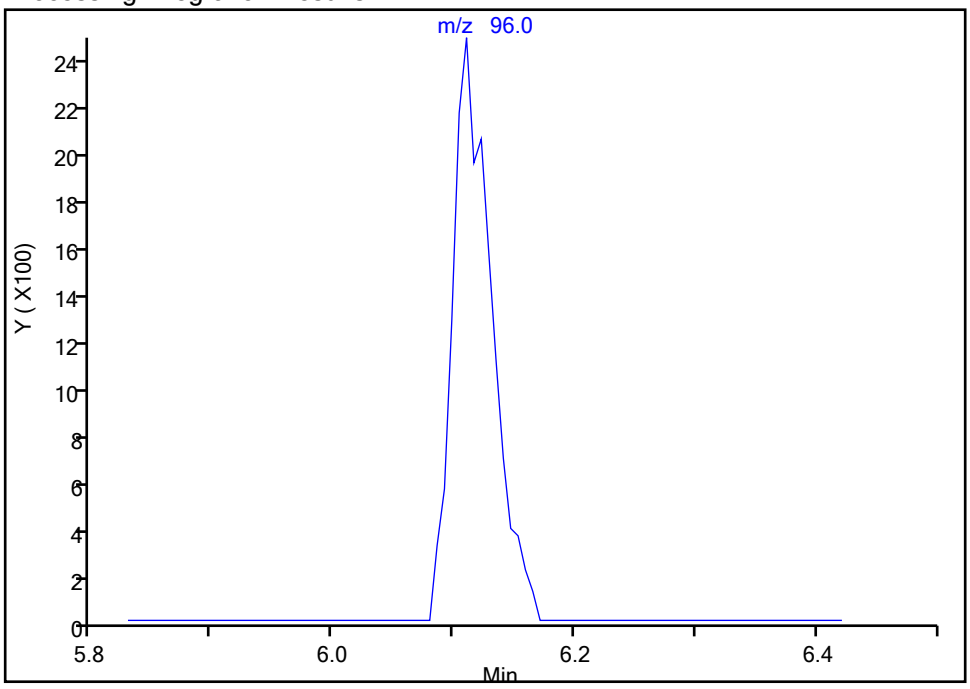
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8297.D				
Injection Date:	19-Nov-2020 08:41:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-9	Lab Sample ID:	310-140187-9		
Client ID:	GW-110920-BE-027				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

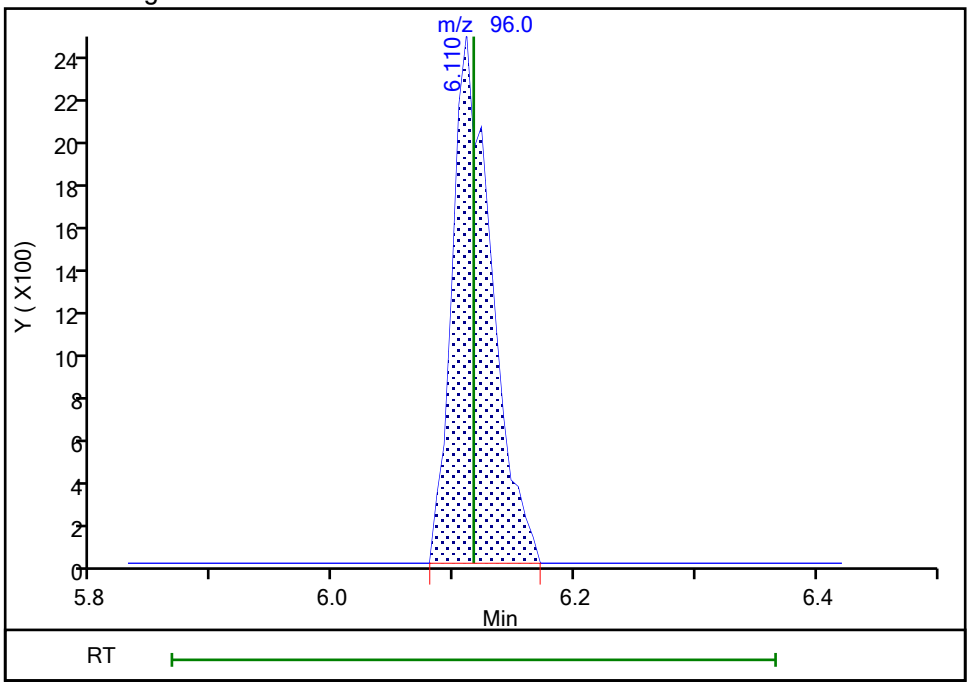
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5474
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:30:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 Lab Sample ID: 240-140187-10

Matrix: Water Lab File ID: c8242.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 11:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	4.6		1.0	0.22
75-35-4	1,1-Dichloroethene	20	F1	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.67		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	64		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	240		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 Lab Sample ID: 240-140187-10

Matrix: Water Lab File ID: c8242.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 11:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D
Lims ID: 240-140187-A-10
Client ID: GW-110920-BE-028
Sample Type: Client
Inject. Date: 18-Nov-2020 11:22:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-018
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:08:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.397	3.385	0.012	0	73	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	192936	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	6222	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	134081	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	59952	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	46679	54.0	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	95	179169	52.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	48454	49.4	
$ 8 BFB	95	9.920	9.920	0.000	81	67193	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.532	1.532	0.000	99	853143	240.0	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.654	2.660	-0.006	94	39573	19.9	
21 112TCTFE	101		2.678				ND	
22 Acetone	43	2.715	2.715	0.001	24	795	-1.77	a
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	144839	64.0	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	19340	4.55	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	10897100	4206.5	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.171	5.177	-0.006	98	6688	0.6708	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		4270.5	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

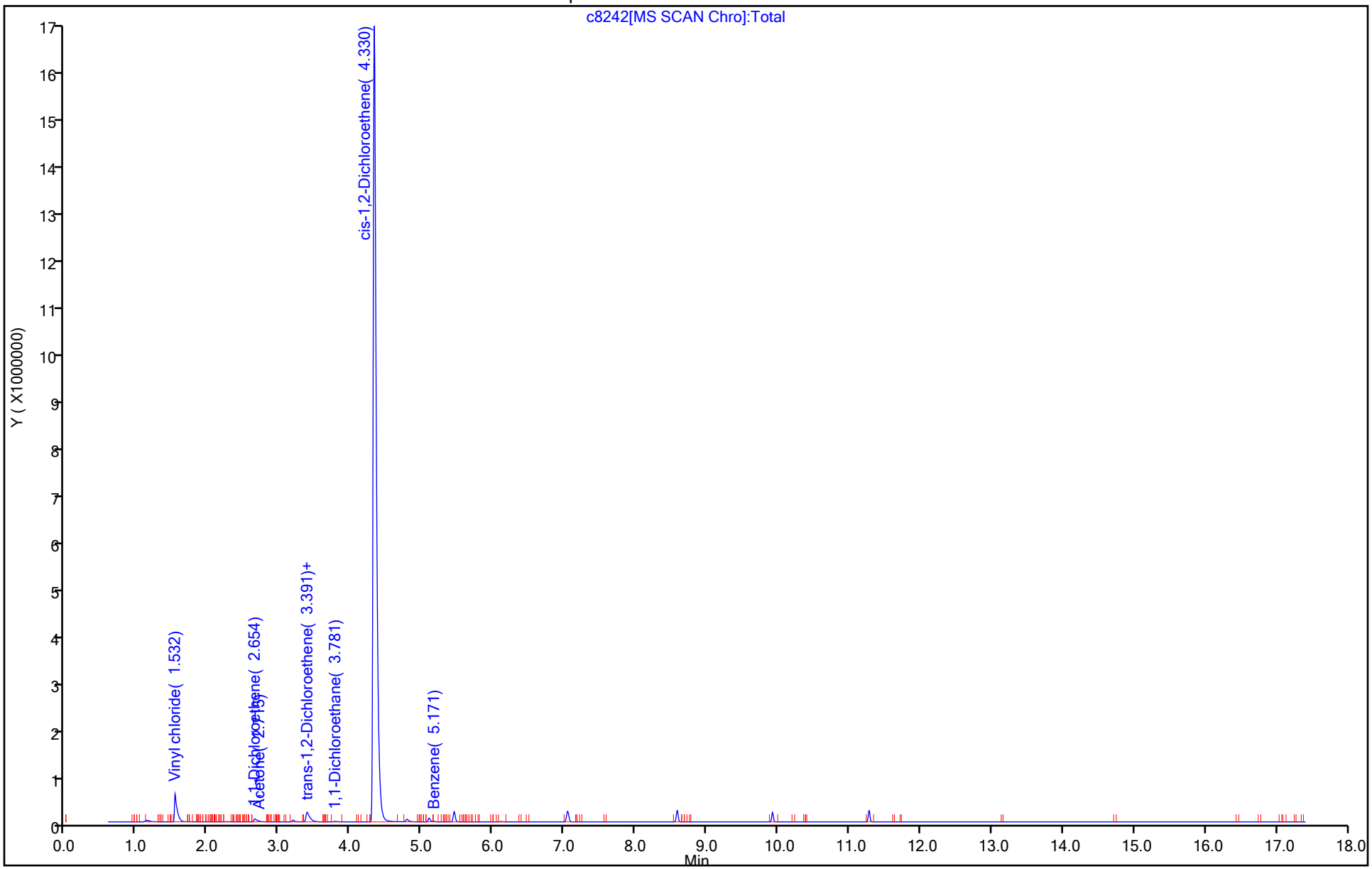
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D				
Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10	Worklist Smp#:	18
Client ID:	GW-110920-BE-028				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D
Lims ID: 240-140187-A-10
Client ID: GW-110920-BE-028
Sample Type: Client
Inject. Date: 18-Nov-2020 11:22:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-018
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:08:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.0	107.97
$ 6 Toluene-d8 (Surr)	50.0	52.1	104.24
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.4	98.80

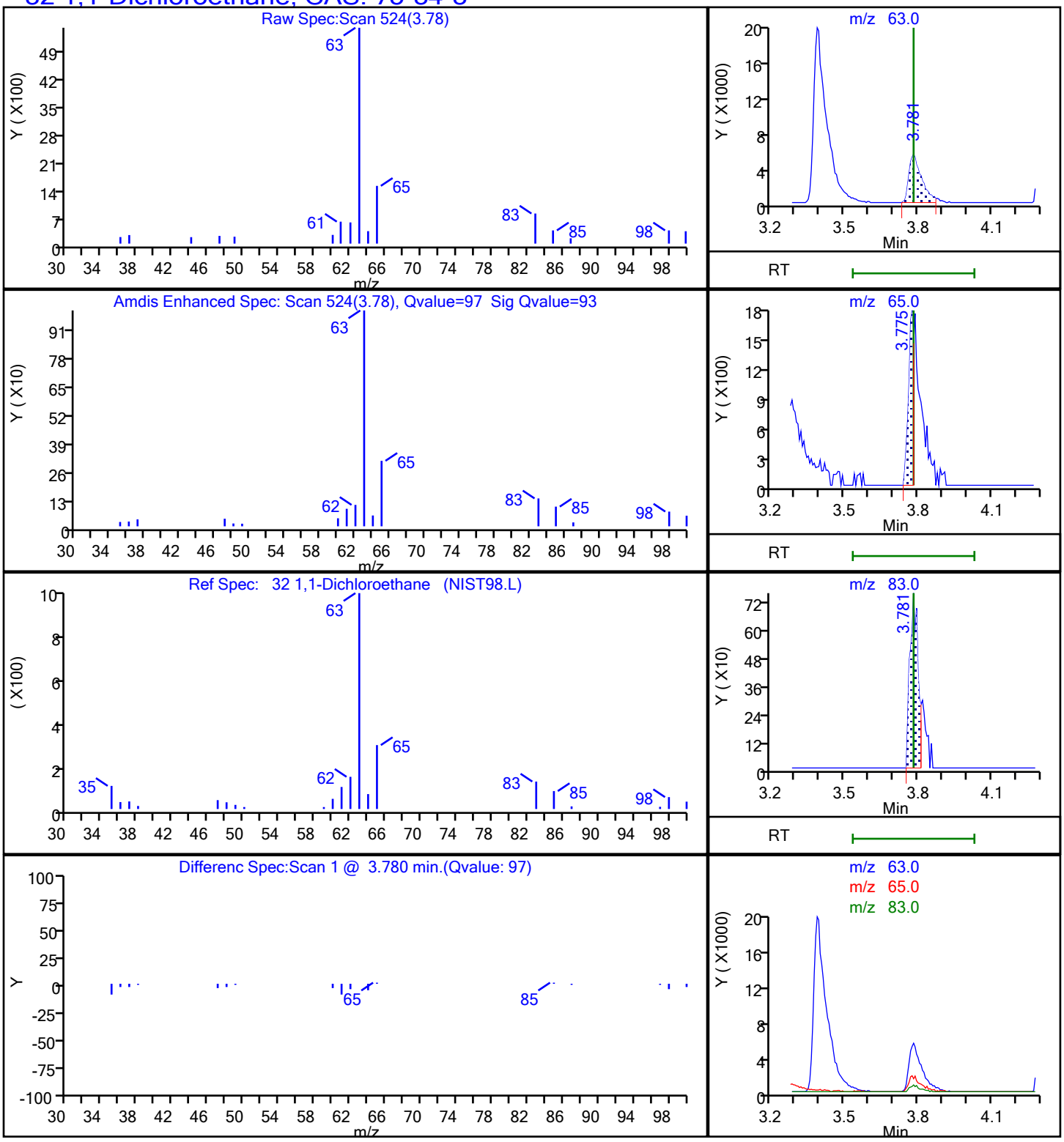
Report Date: 19-Nov-2020 06:54:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D

Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10
Client ID:	GW-110920-BE-028		
Operator ID:	sjn	ALS Bottle#:	20 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3



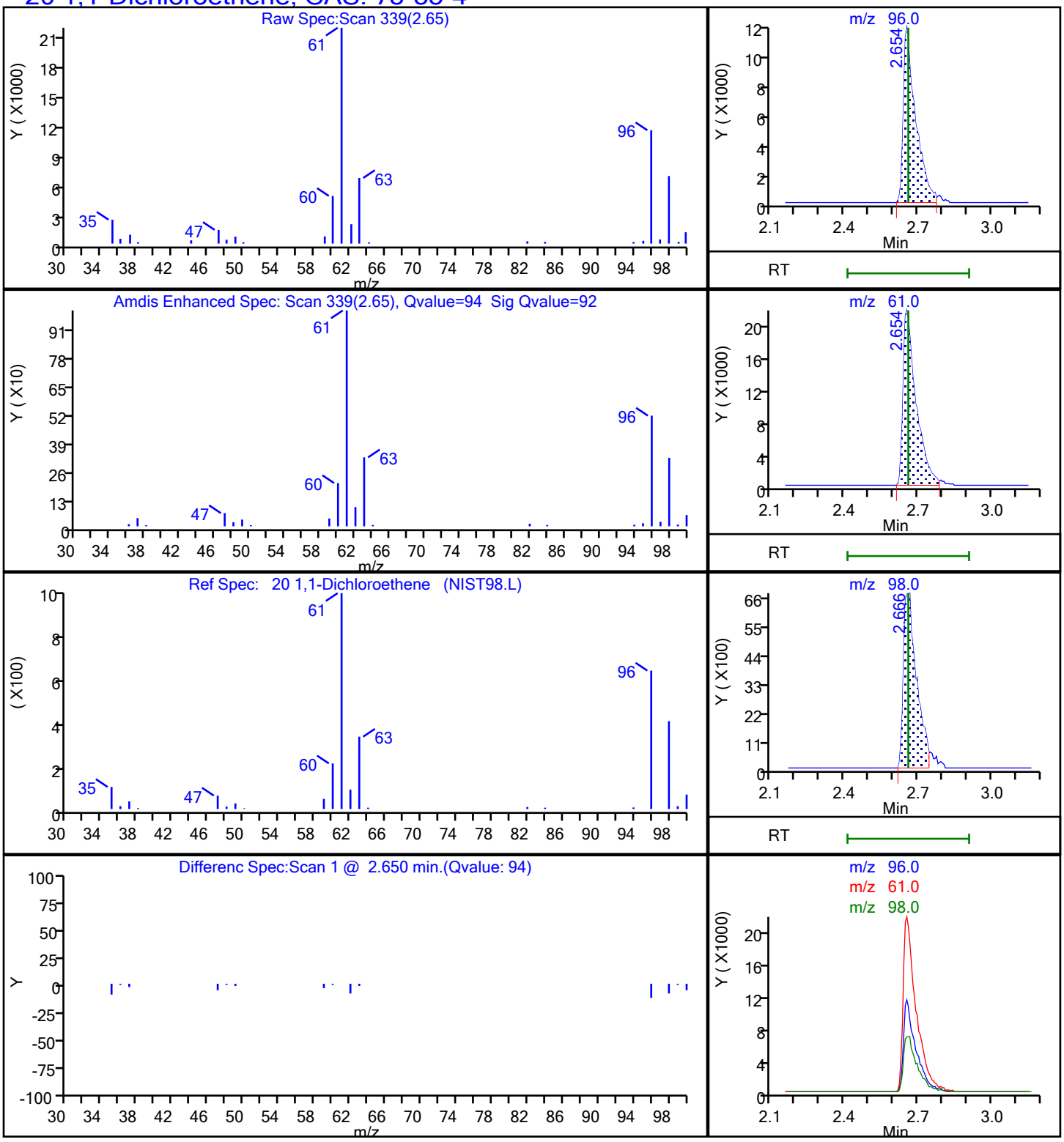
Report Date: 19-Nov-2020 06:54:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D

Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10
Client ID:	GW-110920-BE-028		
Operator ID:	sjn	ALS Bottle#:	20 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

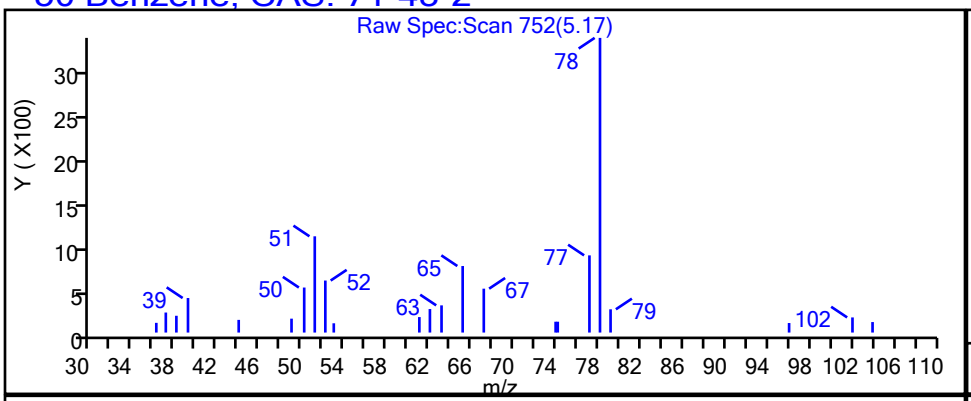


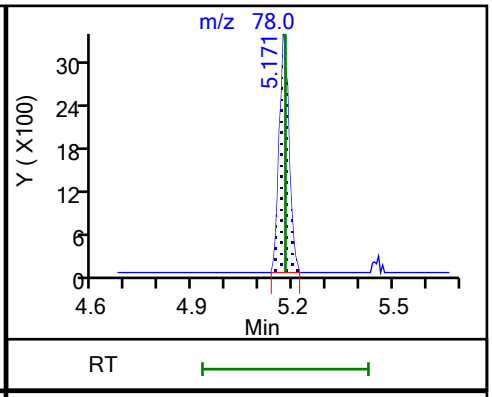
Report Date: 19-Nov-2020 06:54:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

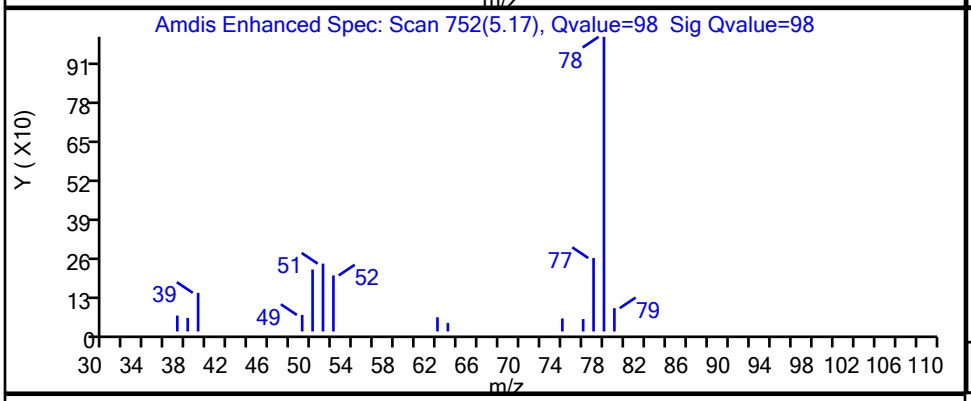
Eurofins TestAmerica, Cedar Falls

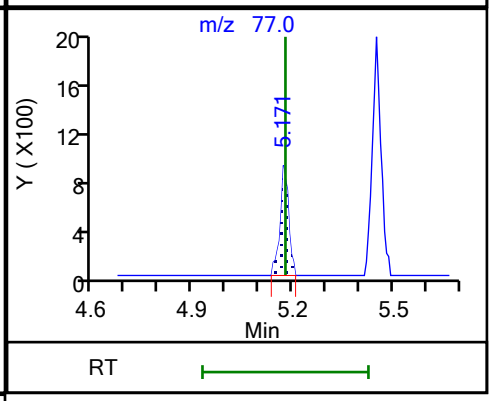
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D				
Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

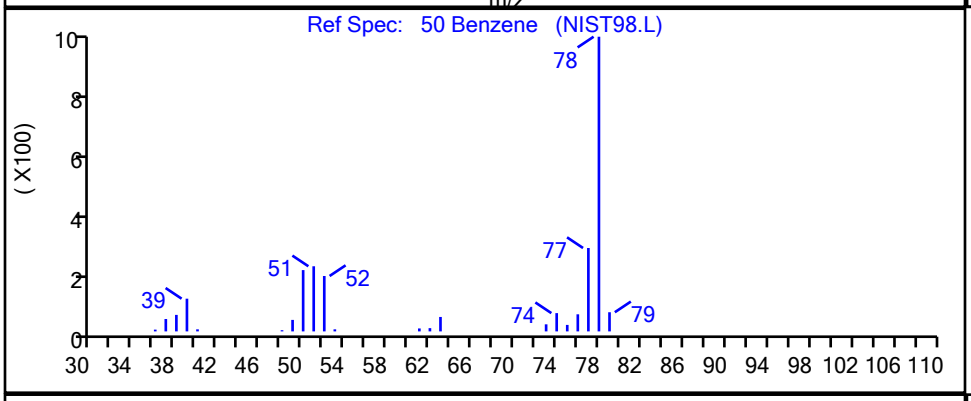
50 Benzene, CAS: 71-43-2

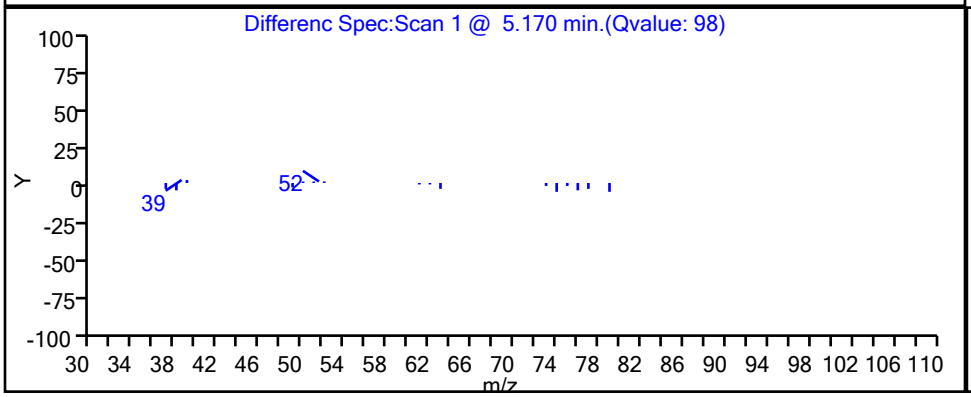


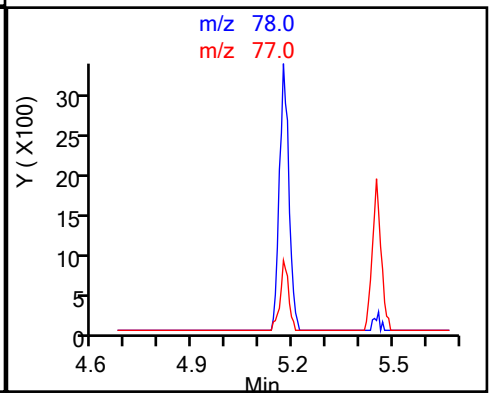










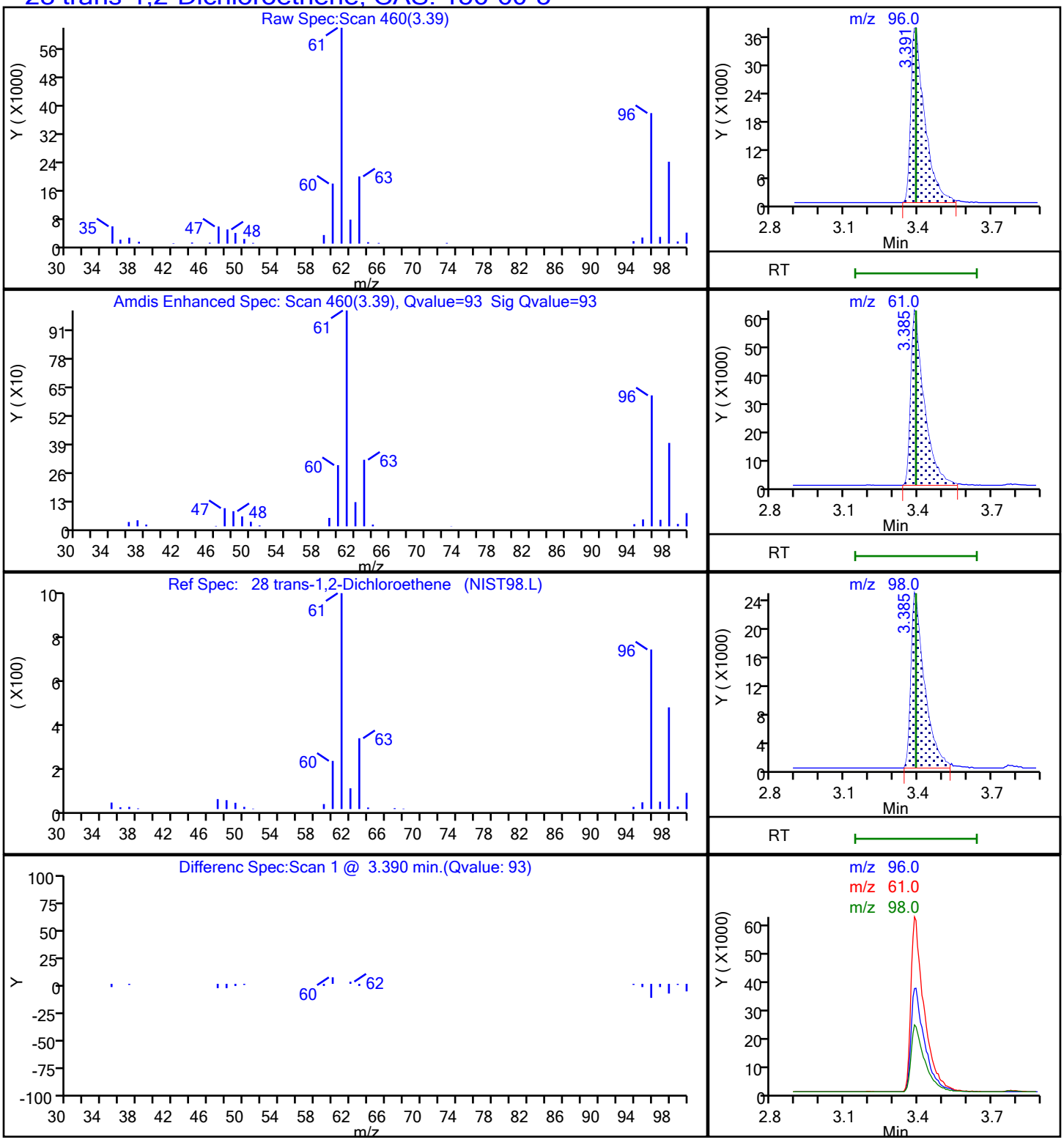


Report Date: 19-Nov-2020 06:54:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D				
Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

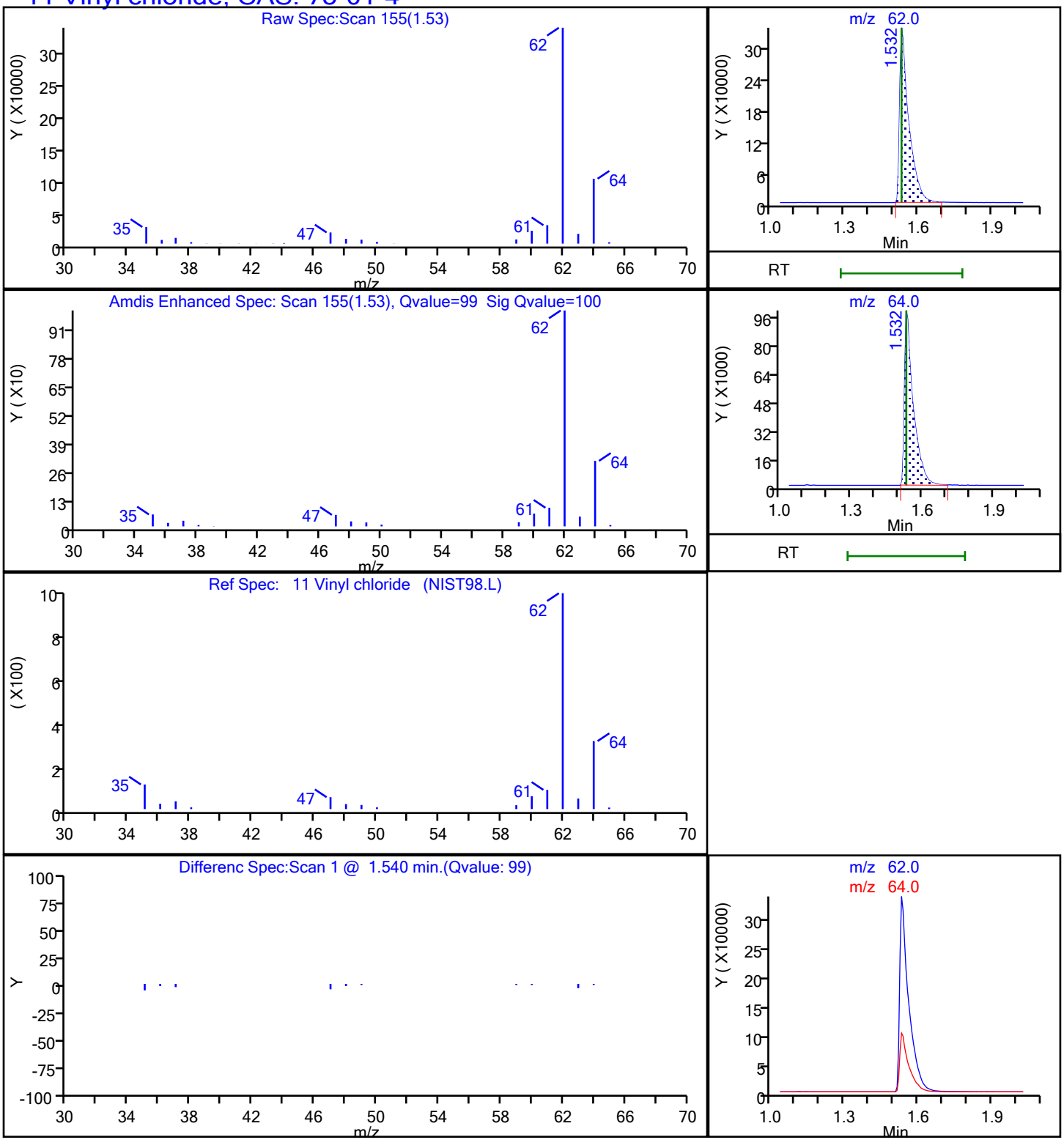


Report Date: 19-Nov-2020 06:54:45 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D				
Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

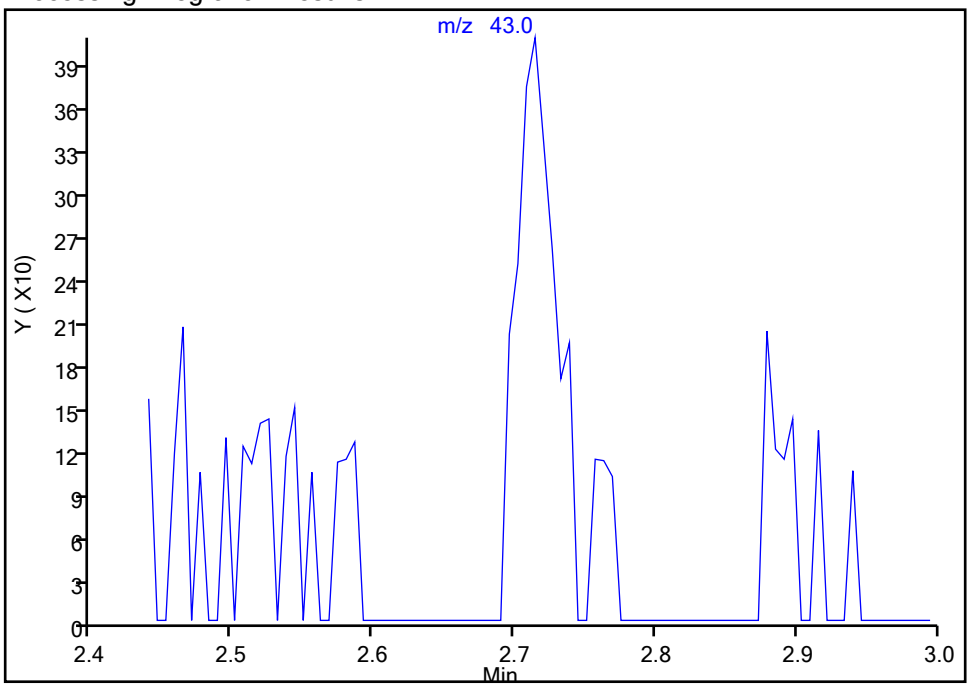
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D				
Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

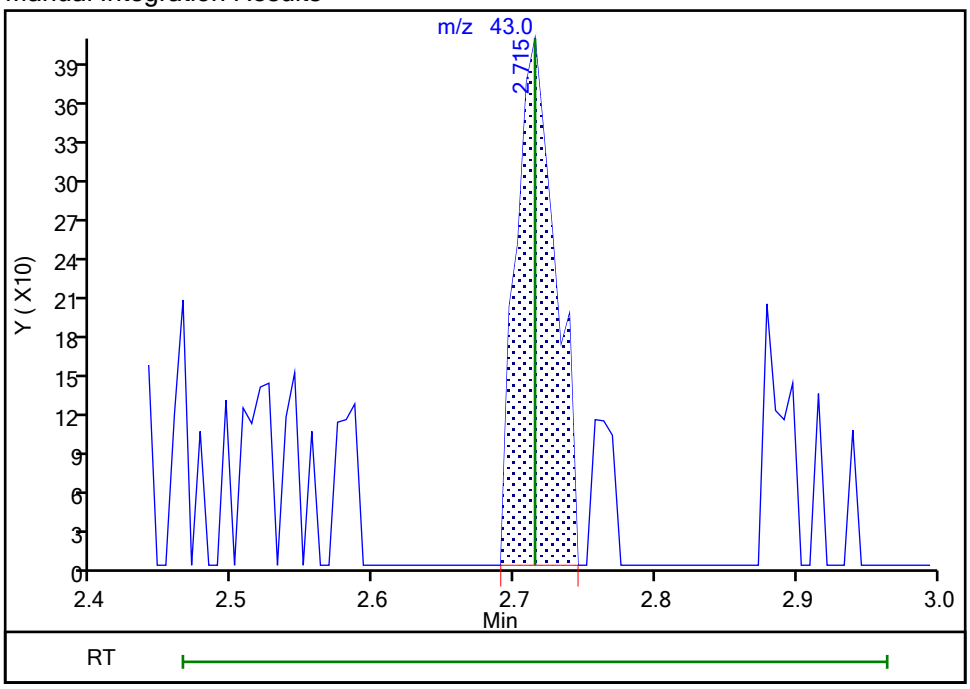
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 795
Amount: -1.766533
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:08:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

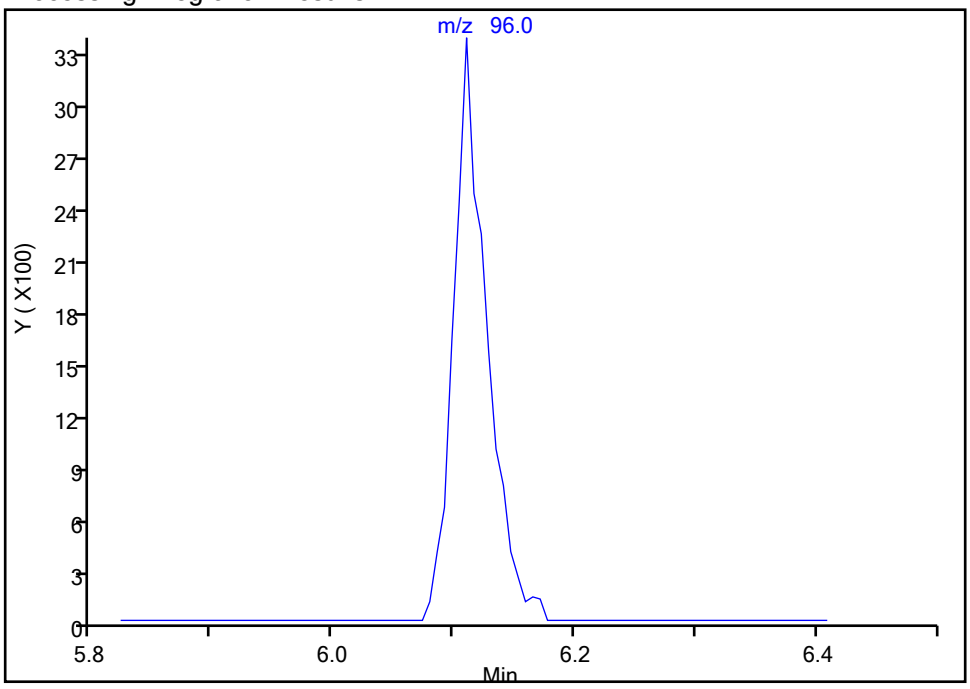
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8242.D				
Injection Date:	18-Nov-2020 11:22:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	20	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

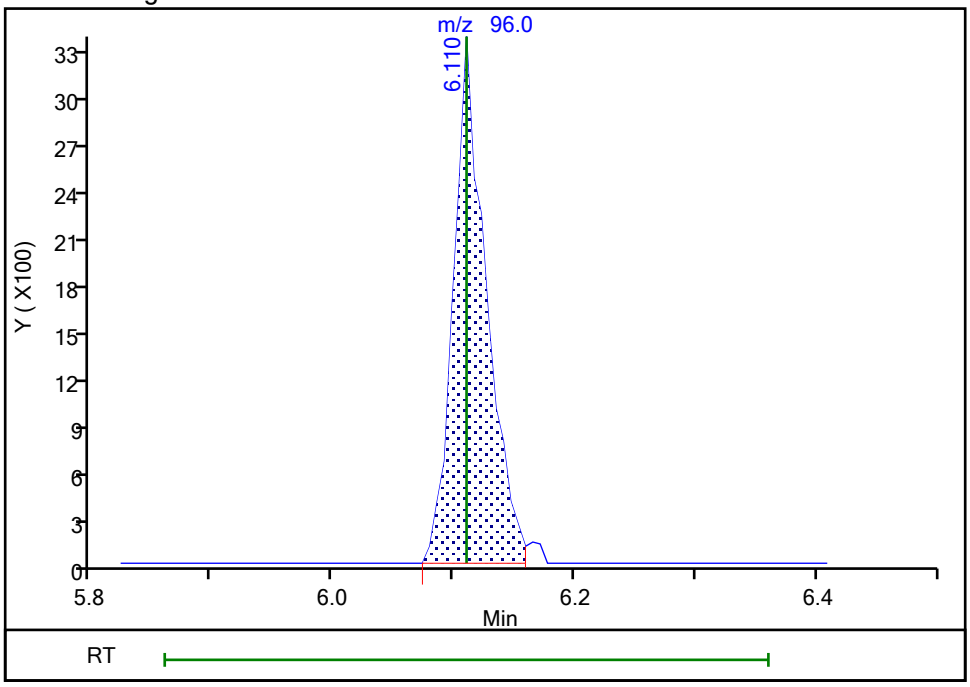
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6222
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:08:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 Lab Sample ID: 240-140187-10

Matrix: Water Lab File ID: c8311.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 14:25

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	4200	B	50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8311.D
Lims ID: 240-140187-B-10
Client ID: GW-110920-BE-028
Sample Type: Client
Inject. Date: 19-Nov-2020 14:25:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-026
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:06:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	269	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	165545	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	95	5502	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	116947	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	52393	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	39449	53.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	155028	51.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	41581	48.5	
$ 8 BFB	95	9.920	9.920	0.000	81	56218	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	13146	4.31	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.666	2.659	0.007	10	483	0.2836	M
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.824	2.842	-0.018	60	845	0.1676	Ma
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.105	3.111	-0.006	90	472	0.2341	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.379	3.391	-0.012	95	2729	1.40	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	184559	83.0	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.635	4.641	-0.006	0	566	0.1485	M
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.968	13.980	-0.012	1	351	0.0806	a
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		84.4	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

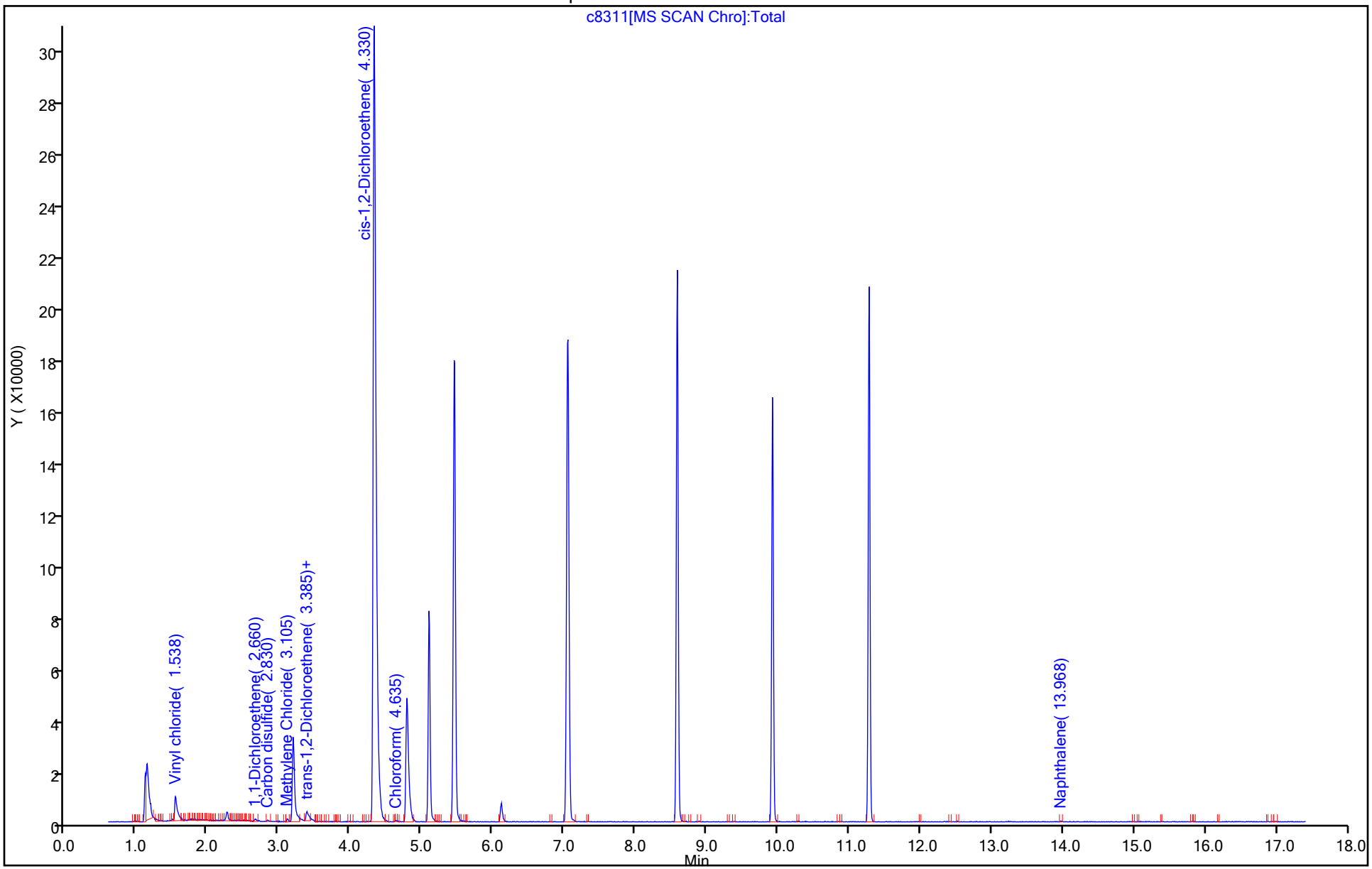
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8311.D				
Injection Date:	19-Nov-2020 14:25:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-10	Lab Sample ID:	310-140187-10	Worklist Smp#:	26
Client ID:	GW-110920-BE-028				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	26
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8311.D
Lims ID: 240-140187-B-10
Client ID: GW-110920-BE-028
Sample Type: Client
Inject. Date: 19-Nov-2020 14:25:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-026
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:06:53

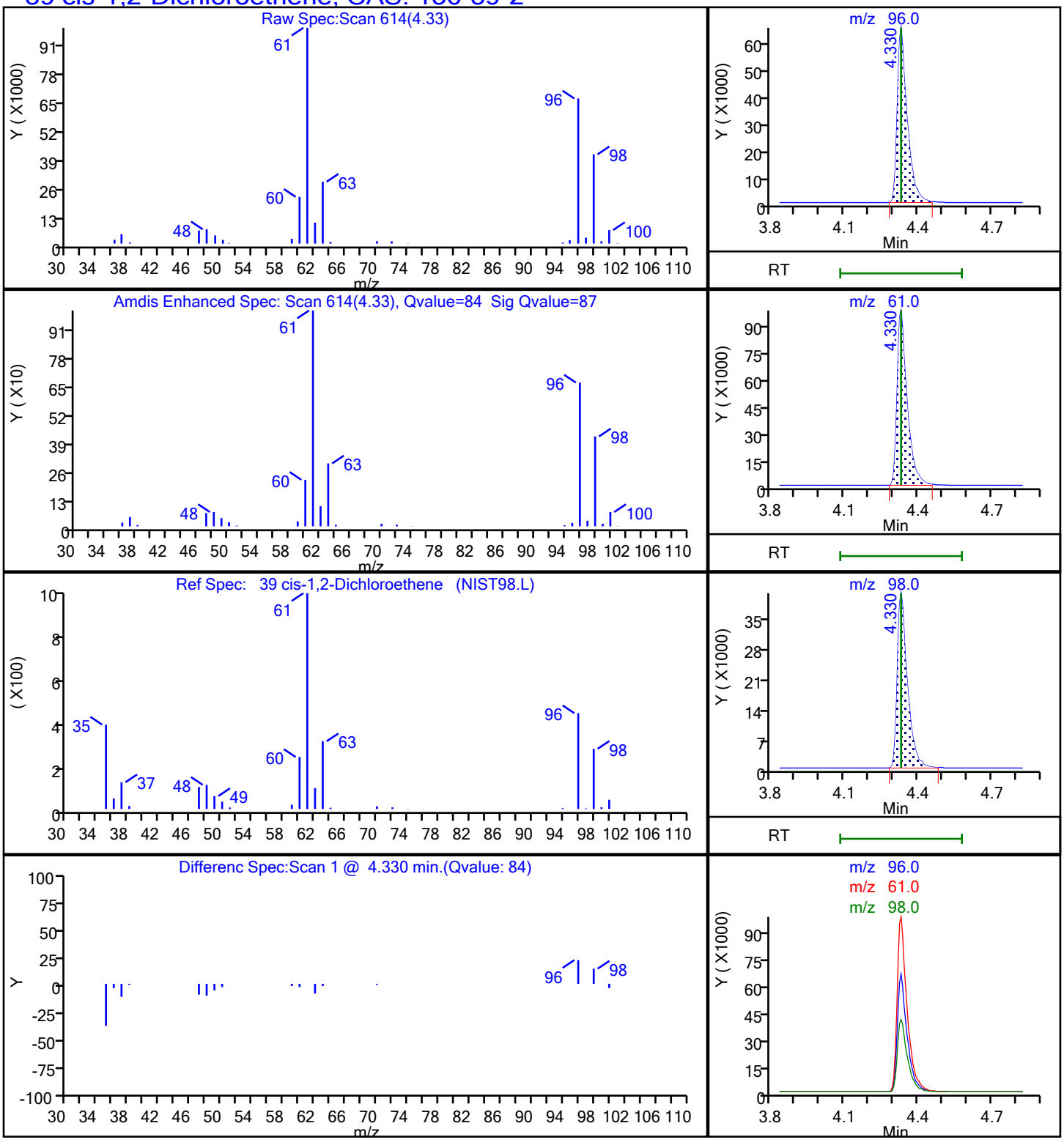
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.2	5316.98
$ 6 Toluene-d8 (Surr)	50.0	51.7	5170.39
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.5	4851.05

Report Date: 20-Nov-2020 12:15:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8311.D				
Injection Date:	19-Nov-2020 14:25:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

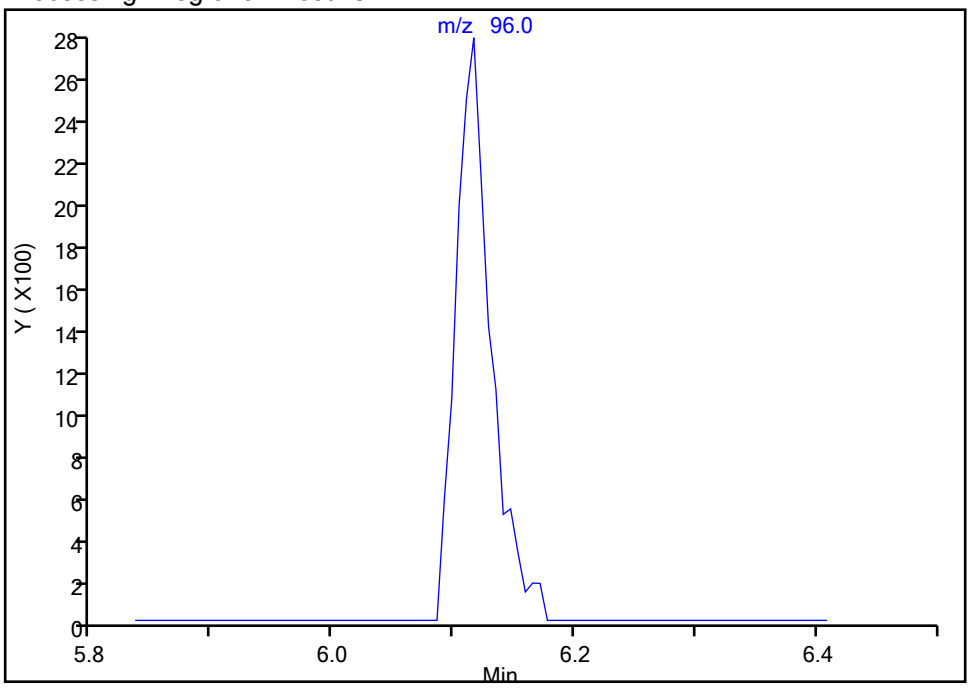
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8311.D				
Injection Date:	19-Nov-2020 14:25:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-10	Lab Sample ID:	310-140187-10		
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

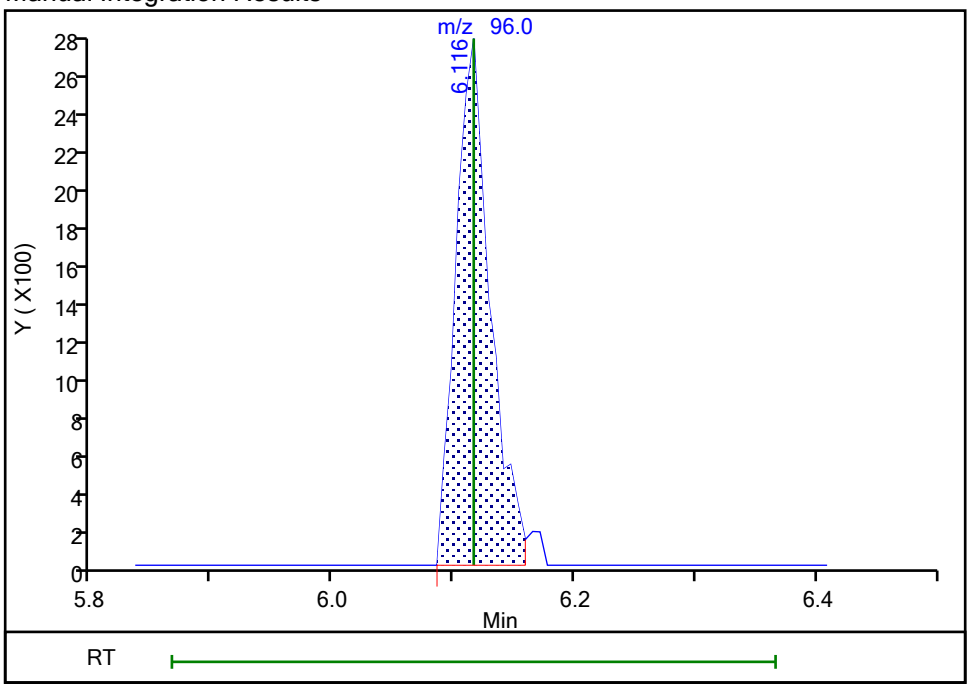
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5502
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 12:06:48
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-029 Lab Sample ID: 240-140187-11

Matrix: Water Lab File ID: c8243.D

Analysis Method: 8260D Date Collected: 11/09/2020 14:28

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 11:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	15		1.0	0.22
75-35-4	1,1-Dichloroethene	23		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.61		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	130		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	7.2		1.0	0.43
75-01-4	Vinyl chloride	220		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-029 Lab Sample ID: 240-140187-11

Matrix: Water Lab File ID: c8243.D

Analysis Method: 8260D Date Collected: 11/09/2020 14:28

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 11:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D
Lims ID: 240-140187-A-11
Client ID: GW-110920-BE-029
Sample Type: Client
Inject. Date: 18-Nov-2020 11:47:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-019
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:10:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	253	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	189794	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6292	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	136177	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	61671	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	44984	52.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	181469	52.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	48418	48.0	
$ 8 BFB	95	9.920	9.920	0.000	82	66804	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	Ua
11 Vinyl chloride	62	1.532	1.532	0.000	98	778648	222.6	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.653	2.660	-0.007	93	44865	23.0	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	299179	134.3	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	61648	14.8	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	8041335	3155.5	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.171	5.177	-0.006	96	6030	0.6149	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95	5.805	5.805	0.000	96	18109	7.22	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		3289.9	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

U - Marked Undetected

a - User Assigned ID

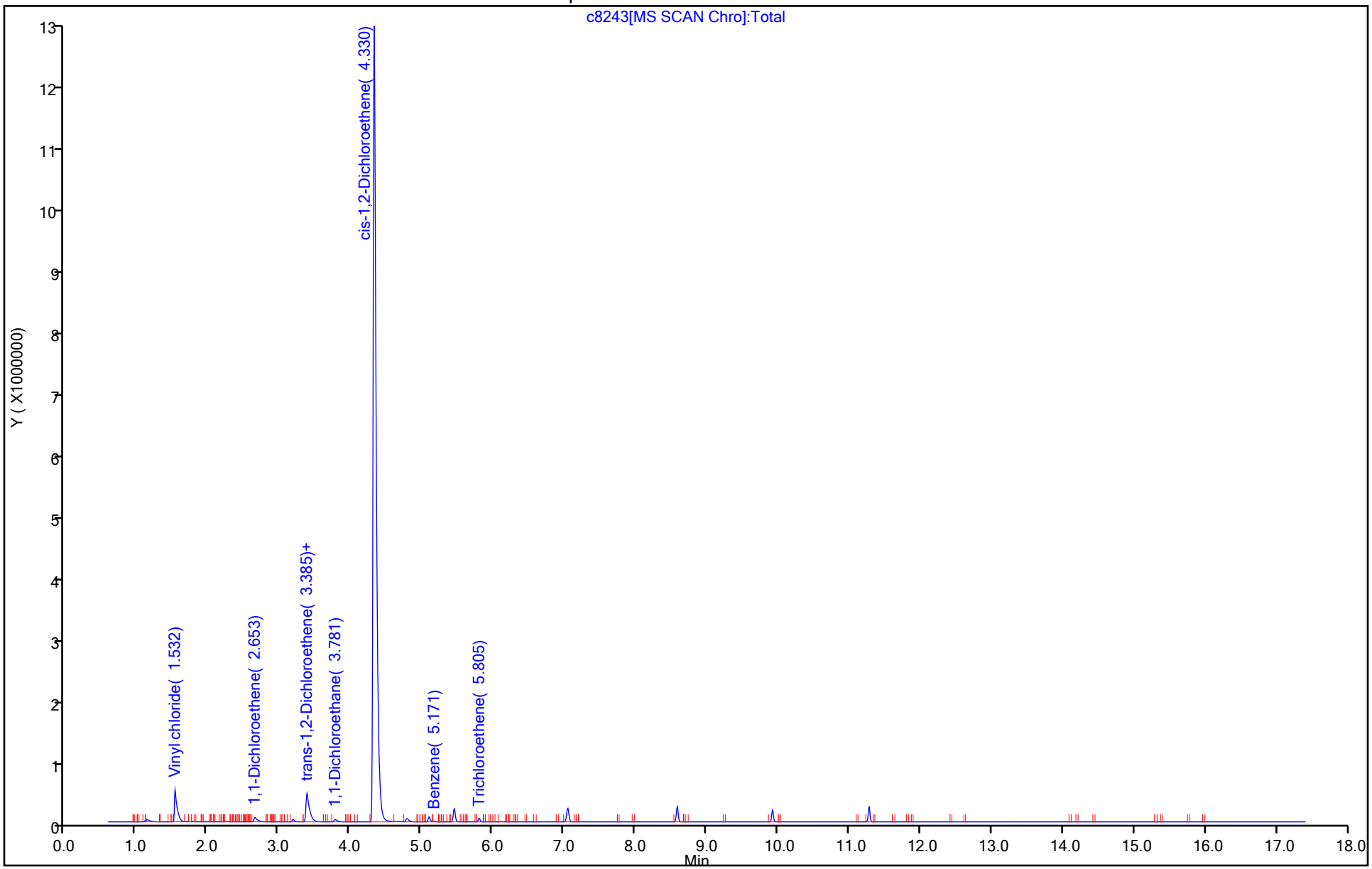
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D				
Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11	Worklist Smp#:	19
Client ID:	GW-110920-BE-029				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D
Lims ID: 240-140187-A-11
Client ID: GW-110920-BE-029
Sample Type: Client
Inject. Date: 18-Nov-2020 11:47:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-019
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:10:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.9	105.77
$ 6 Toluene-d8 (Surr)	50.0	52.0	103.95
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.0	95.98

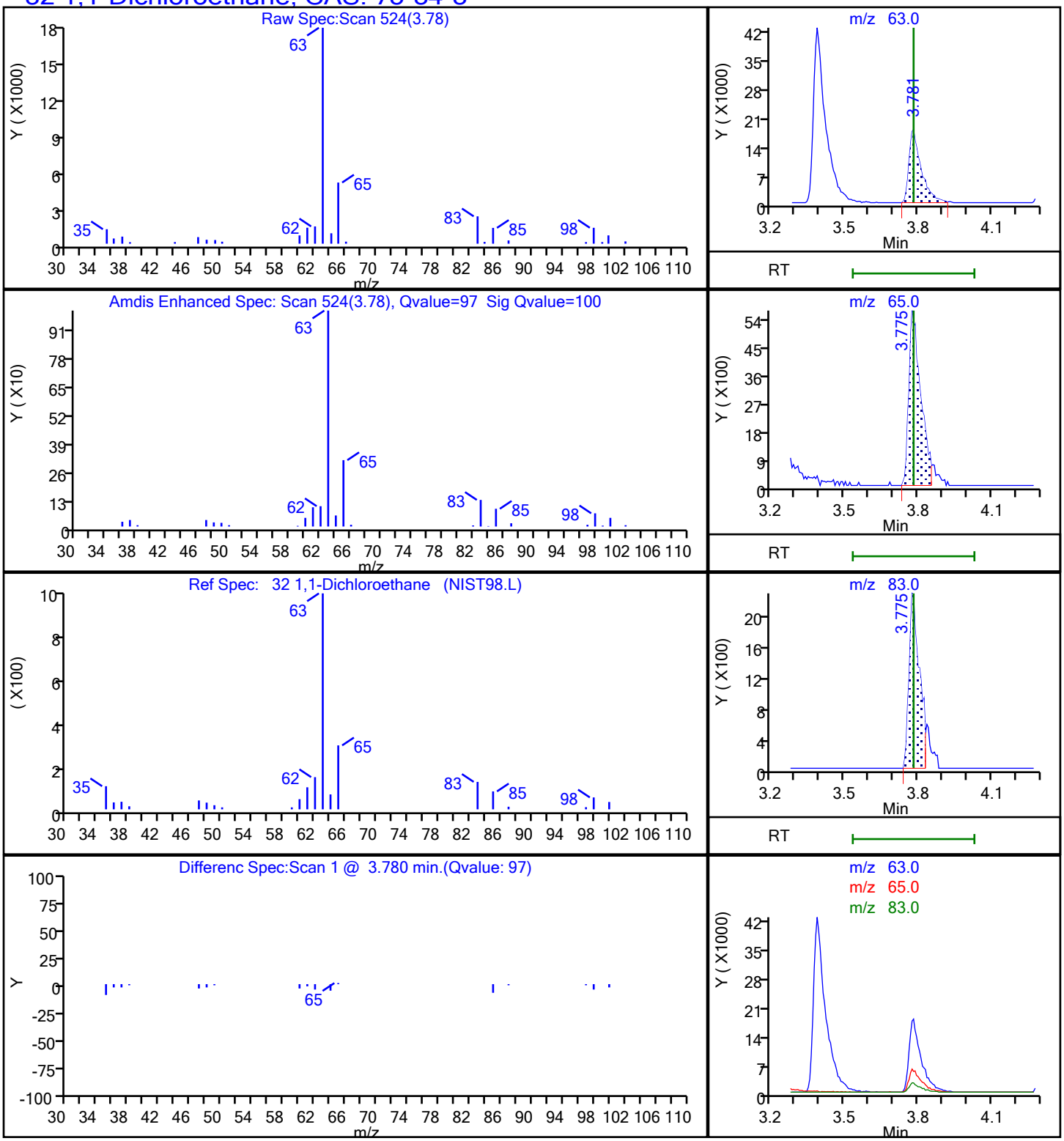
Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D

Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3



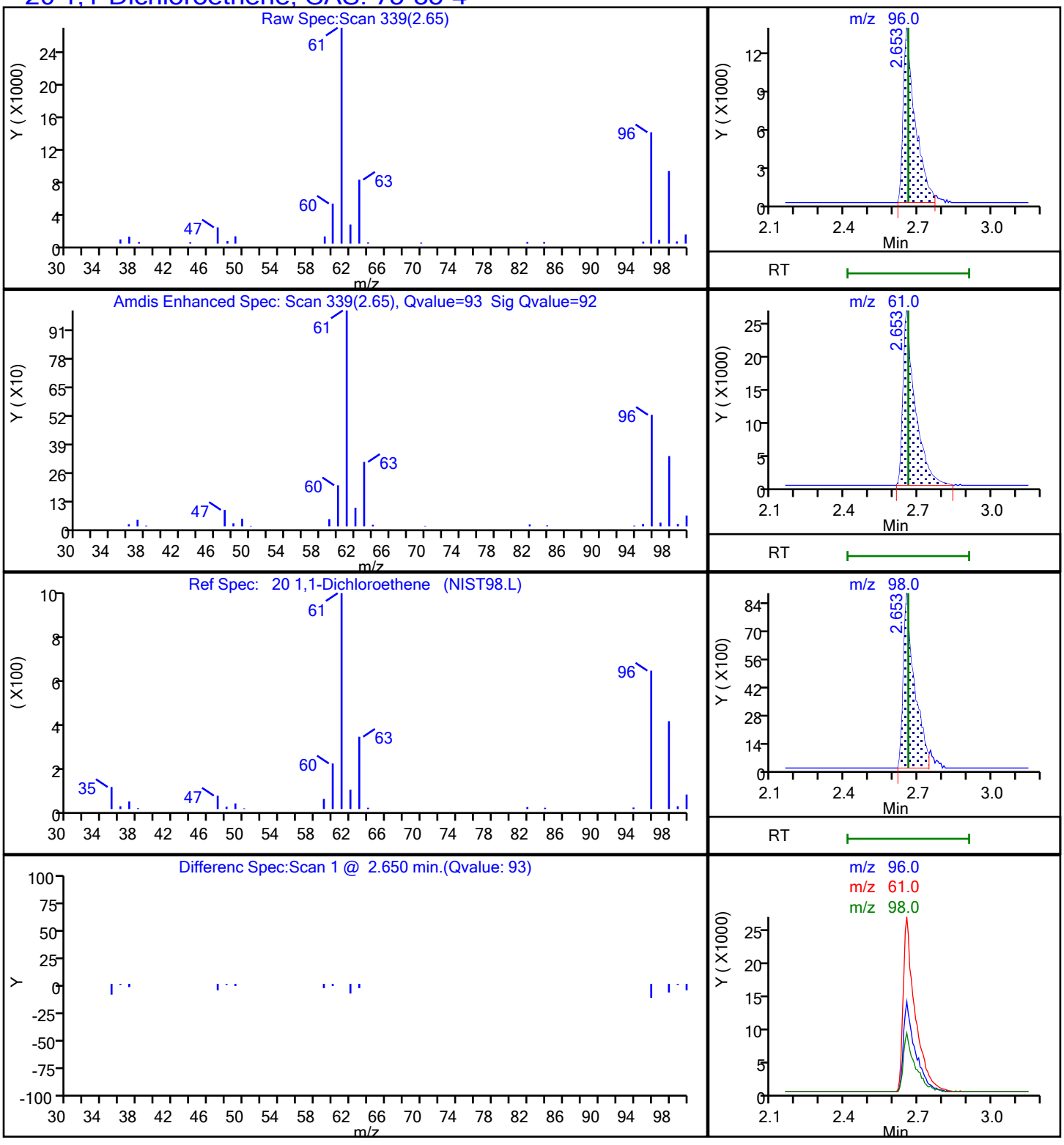
Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D

Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

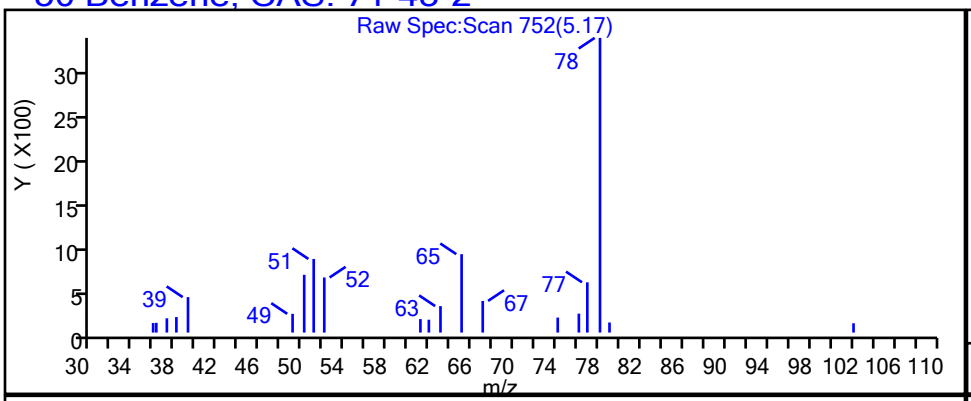


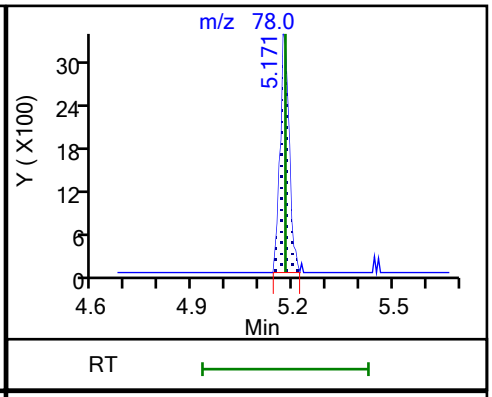
Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

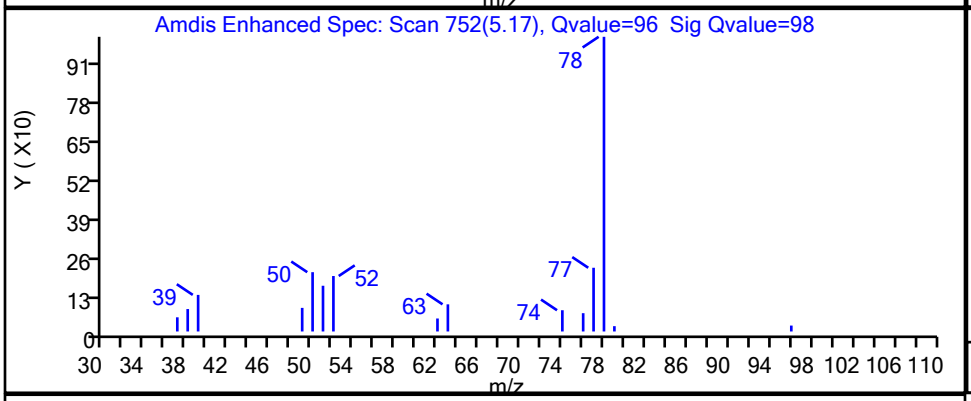
Eurofins TestAmerica, Cedar Falls

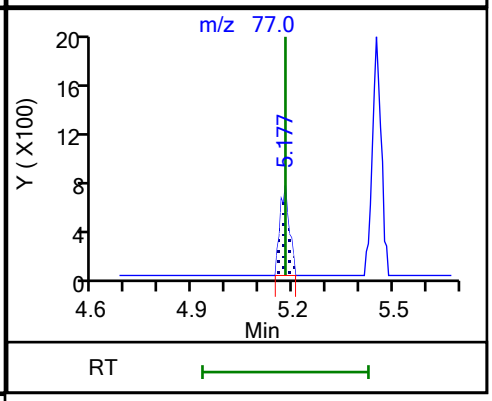
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D				
Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

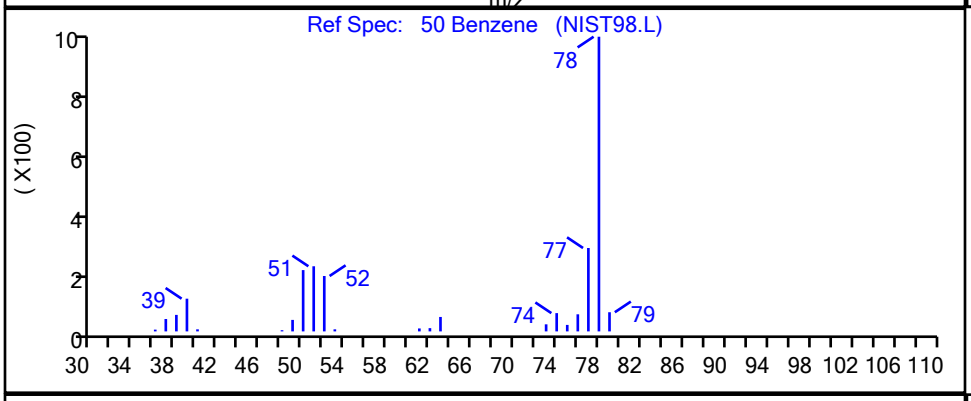
50 Benzene, CAS: 71-43-2

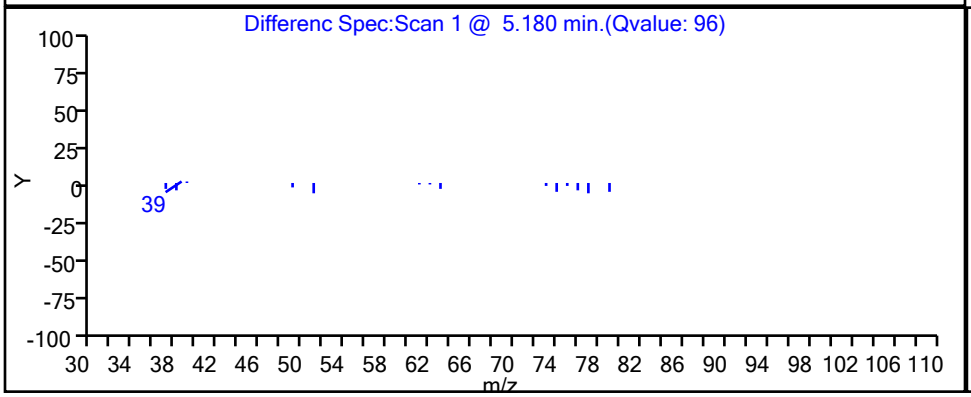


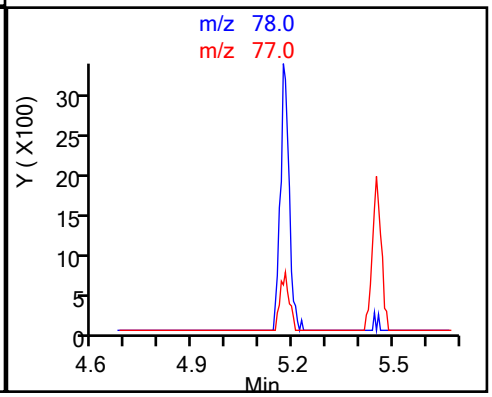










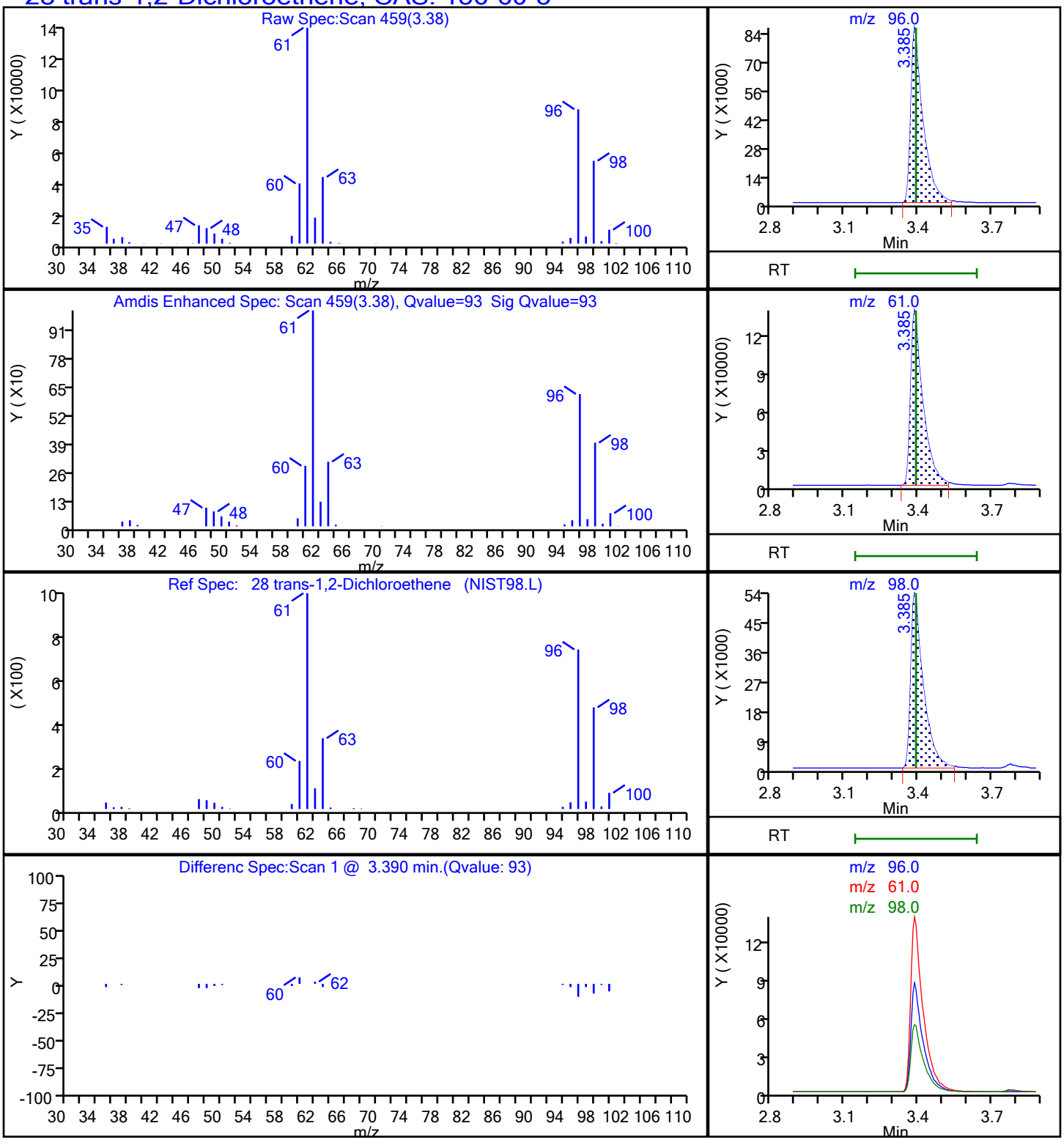


Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D				
Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

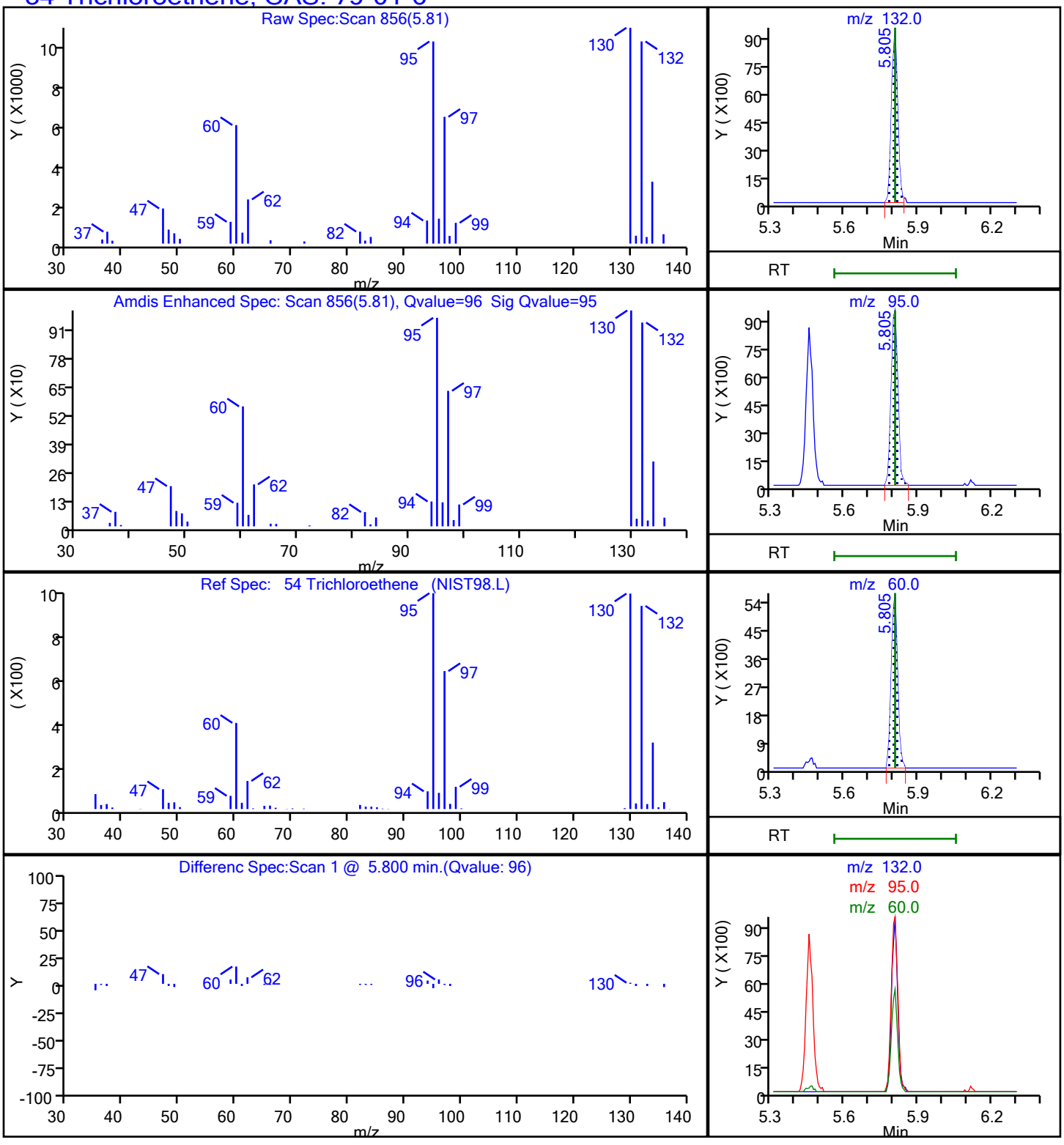


Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D				
Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

54 Trichloroethene, CAS: 79-01-6

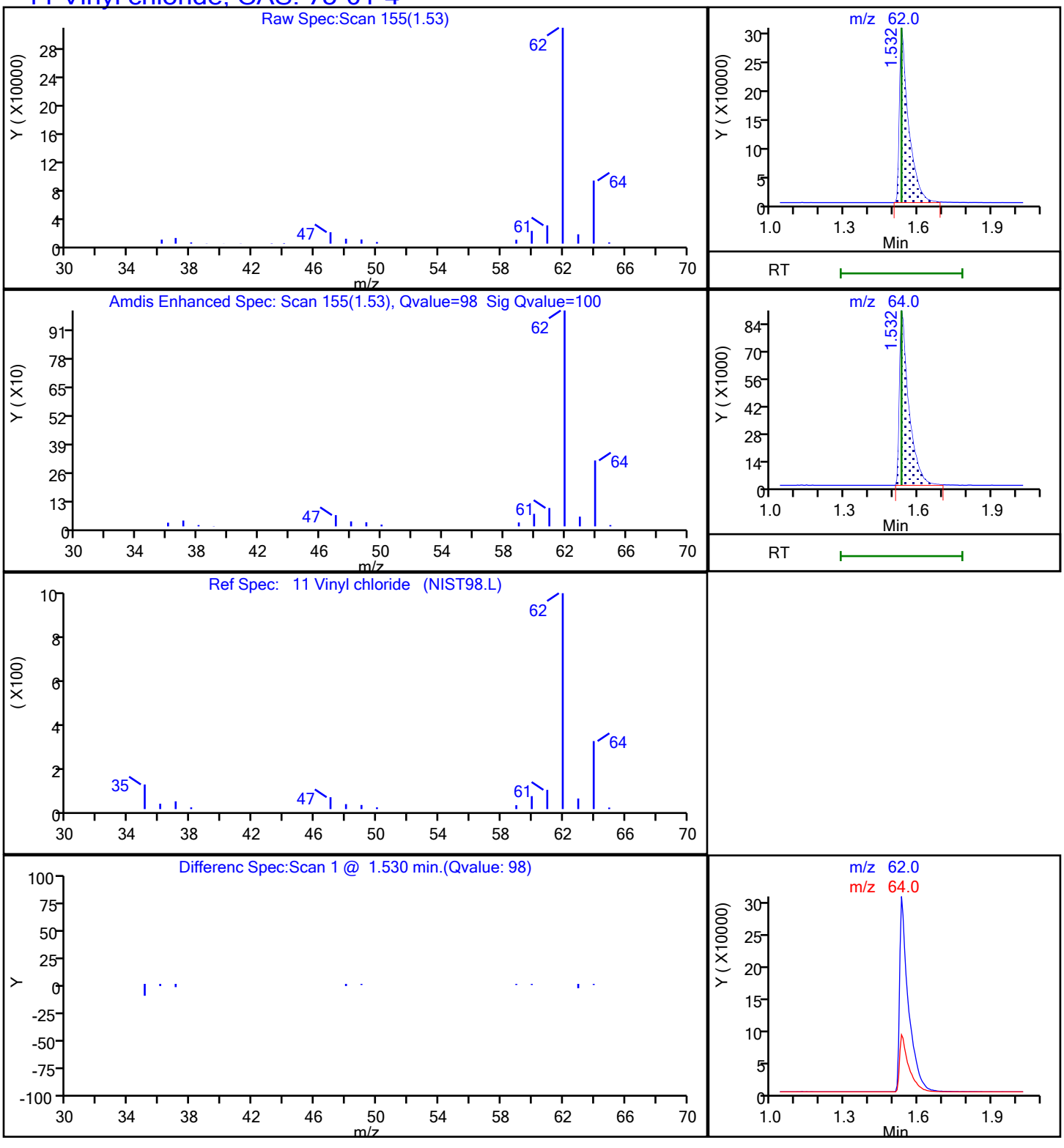


Report Date: 19-Nov-2020 06:54:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D				
Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

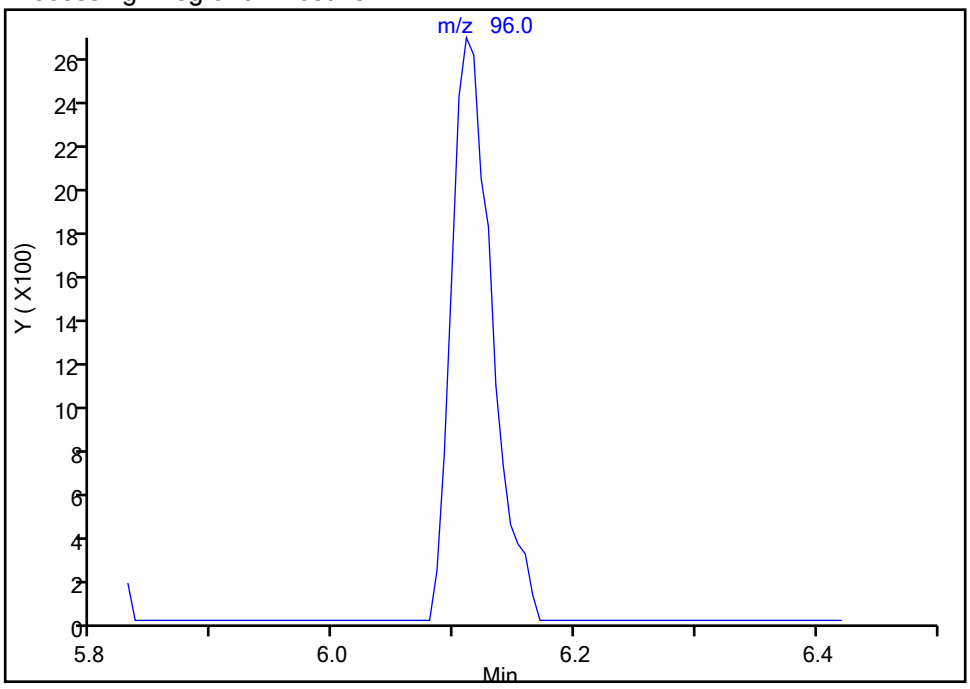
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8243.D				
Injection Date:	18-Nov-2020 11:47:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	21	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

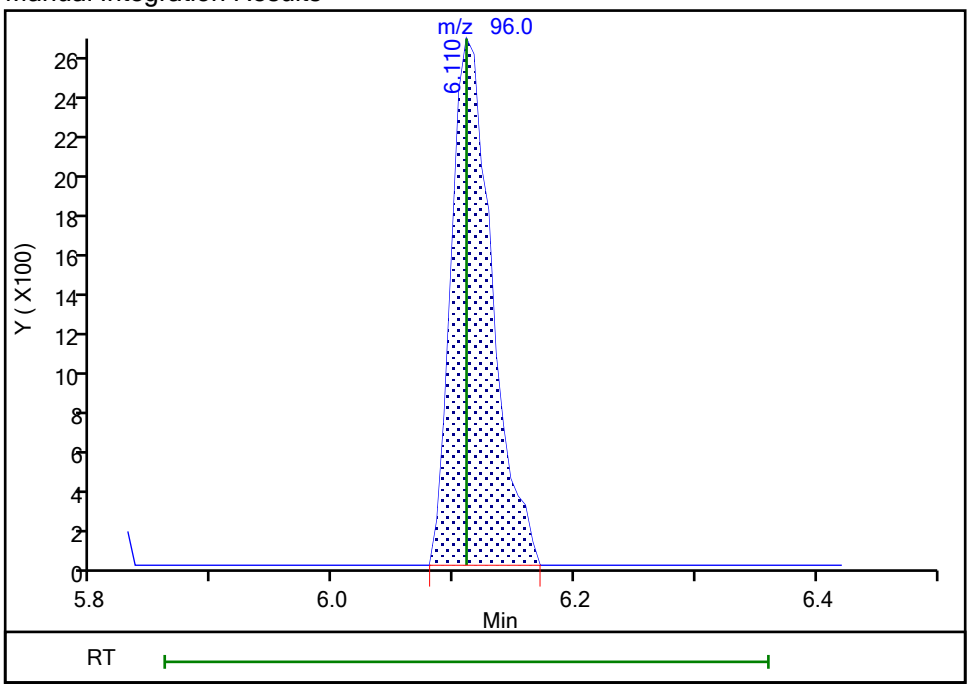
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6292
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:08:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-029 Lab Sample ID: 240-140187-11

Matrix: Water Lab File ID: c8312.D

Analysis Method: 8260D Date Collected: 11/09/2020 14:28

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 14:49

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2900	B	50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8312.D
Lims ID: 240-140187-B-11
Client ID: GW-110920-BE-029
Sample Type: Client
Inject. Date: 19-Nov-2020 14:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-027
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:08:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.361	3.373	-0.012	0	342	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	165682	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	96	5109	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	118535	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	52013	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	39536	53.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	96	156371	51.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.001	85	41028	48.2	
$ 8 BFB	95	9.920	9.920	0.000	80	56545	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.544	1.532	0.012	98	11177	3.66	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.654	2.659	-0.005	92	623	0.3655	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.830	2.842	-0.012	94	775	0.1536	Ma
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	4819	2.48	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	1	992	0.2720	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	130083	58.5	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.629	4.641	-0.012	11	842	0.2208	M
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.805	5.805	0.000	31	242	0.1106	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		61.0	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

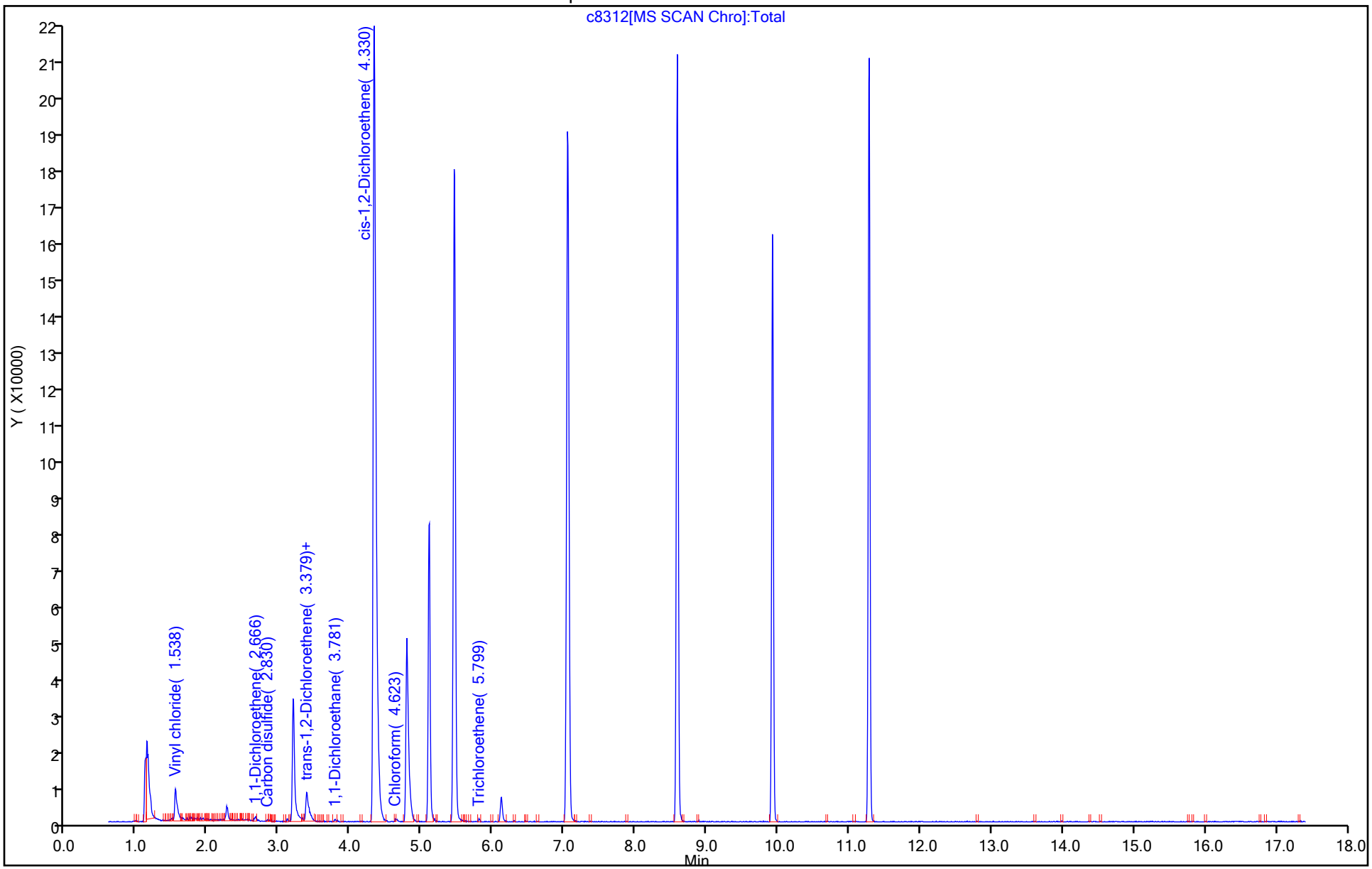
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8312.D				
Injection Date:	19-Nov-2020 14:49:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-11	Lab Sample ID:	310-140187-11	Worklist Smp#:	27
Client ID:	GW-110920-BE-029				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	27
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8312.D
Lims ID: 240-140187-B-11
Client ID: GW-110920-BE-029
Sample Type: Client
Inject. Date: 19-Nov-2020 14:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-027
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:08:45

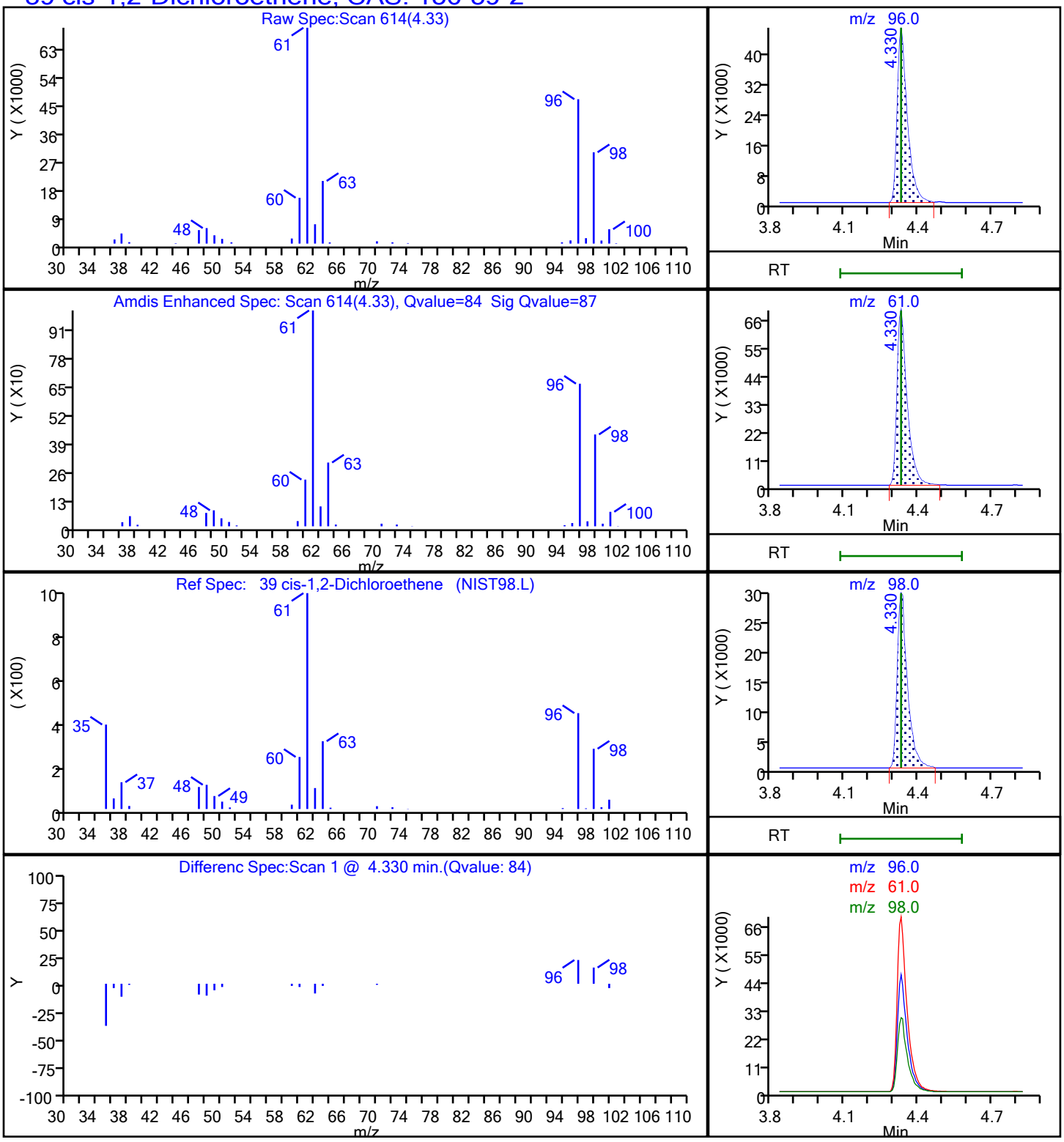
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.2	5324.30
$ 6 Toluene-d8 (Surr)	50.0	51.5	5145.31
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.2	4821.50

Report Date: 20-Nov-2020 12:15:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8312.D				
Injection Date:	19-Nov-2020 14:49:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

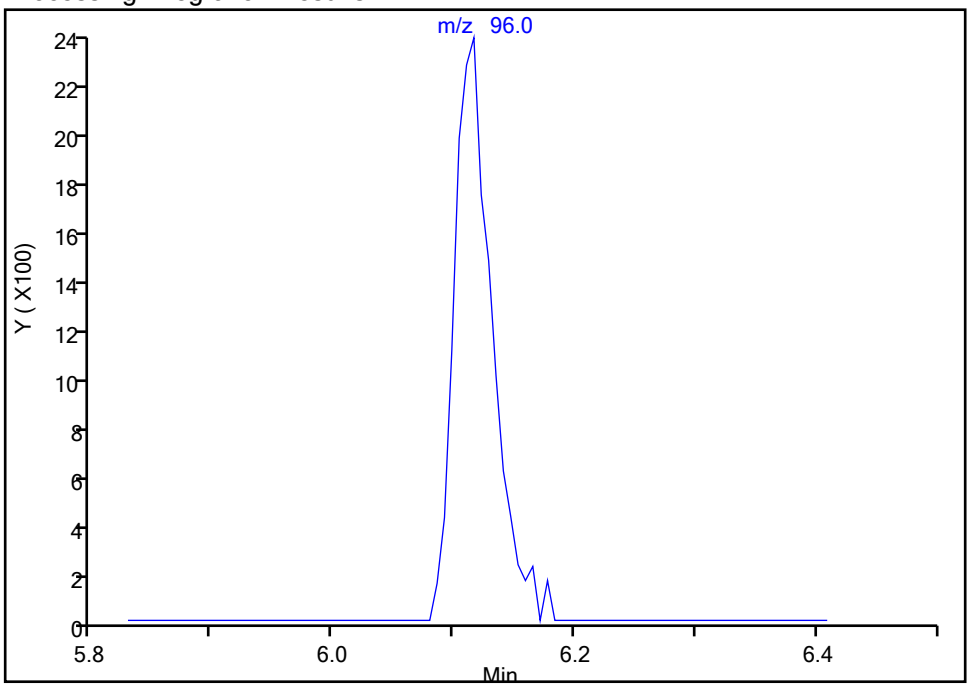
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8312.D				
Injection Date:	19-Nov-2020 14:49:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-11	Lab Sample ID:	310-140187-11		
Client ID:	GW-110920-BE-029				
Operator ID:	sjn	ALS Bottle#:	27	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

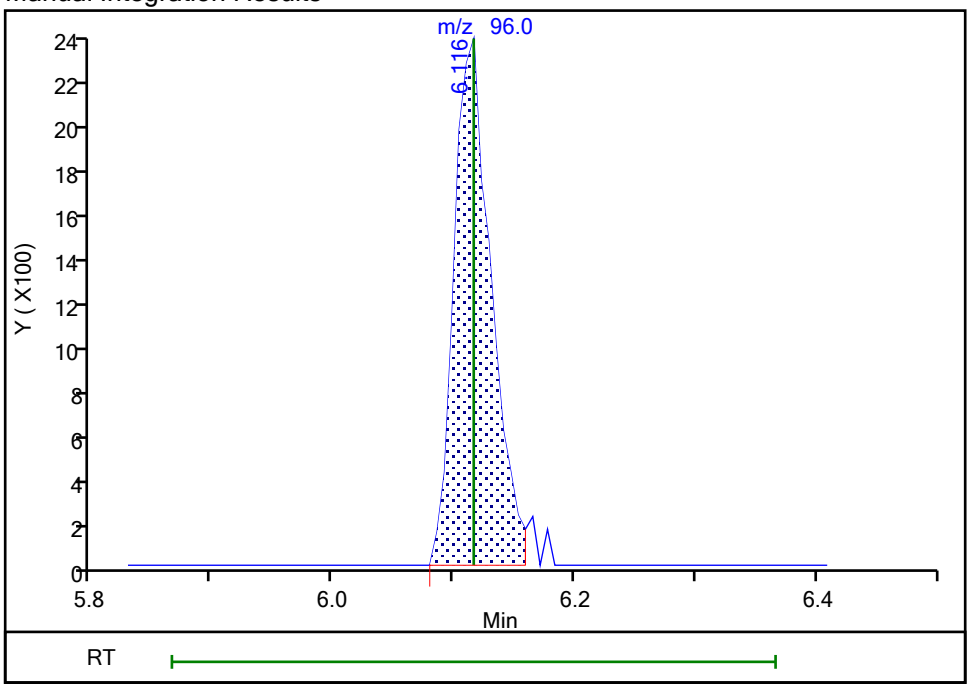
Not Detected
Expected RT: 6.12

Processing Integration Results



RT: 6.12
Area: 5109
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 20-Nov-2020 12:07:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-030 Lab Sample ID: 240-140187-12

Matrix: Water Lab File ID: c8244.D

Analysis Method: 8260D Date Collected: 11/09/2020 15:36

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	0.77	J	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-030 Lab Sample ID: 240-140187-12

Matrix: Water Lab File ID: c8244.D

Analysis Method: 8260D Date Collected: 11/09/2020 15:36

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		79-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8244.D
Lims ID: 240-140187-A-12
Client ID: GW-110920-BE-030
Sample Type: Client
Inject. Date: 18-Nov-2020 12:12:30 ALS Bottle#: 22 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-020
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:11:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.367	3.385	-0.018	0	464	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	187460	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	93	5618	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	135184	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	60130	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	43338	51.6	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	96	175020	50.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	47568	48.4	
$ 8 BFB	95	9.920	9.920	0.000	82	64684	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.532	1.532	0.000	95	2665	0.7715	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.324	4.330	-0.006	84	12395	4.92	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		4.92	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

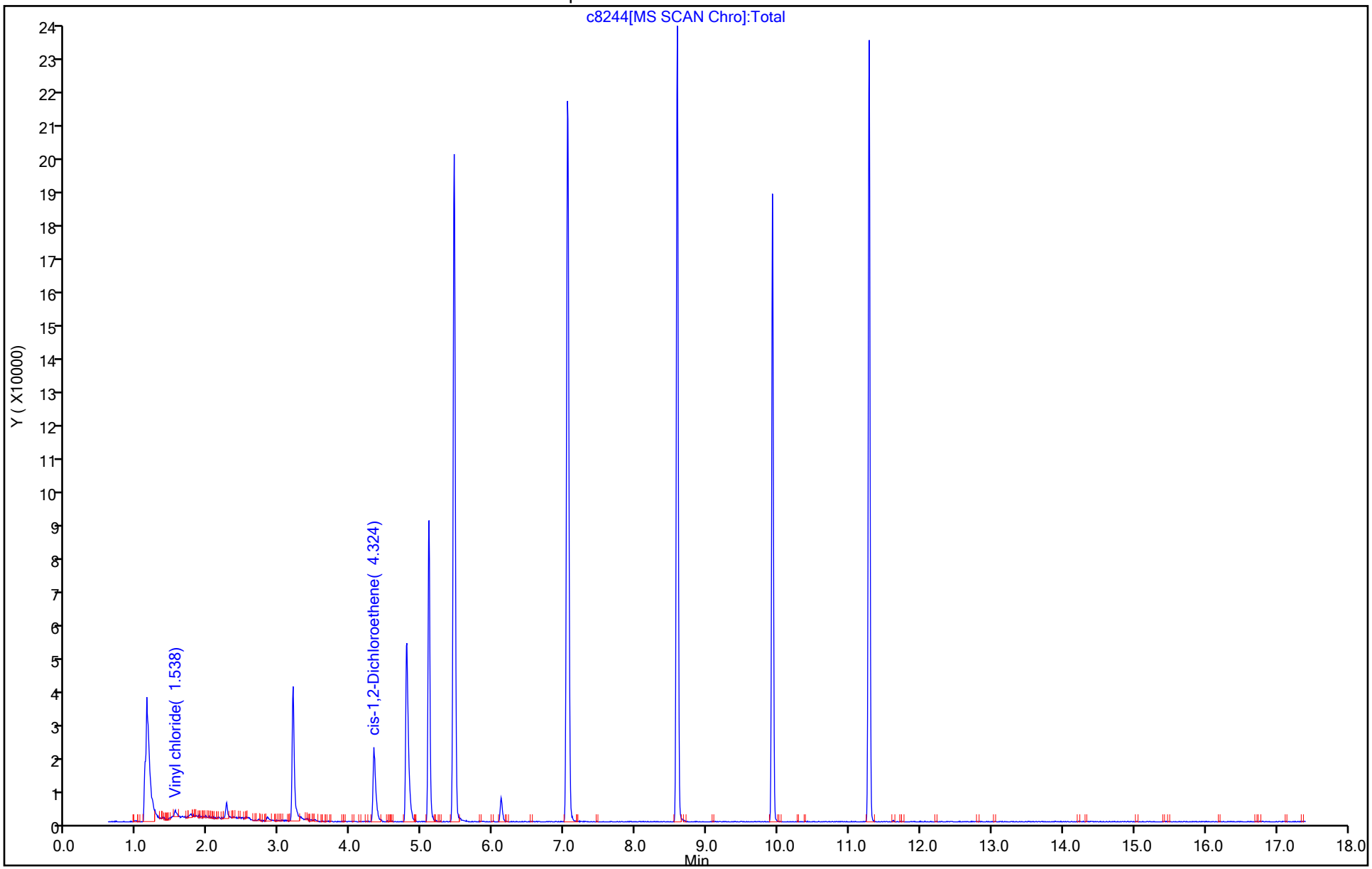
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:48 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8244.D				
Injection Date:	18-Nov-2020 12:12:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-12	Lab Sample ID:	310-140187-12	Worklist Smp#:	20
Client ID:	GW-110920-BE-030				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8244.D
Lims ID: 240-140187-A-12
Client ID: GW-110920-BE-030
Sample Type: Client
Inject. Date: 18-Nov-2020 12:12:30 ALS Bottle#: 22 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-020
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:11:19

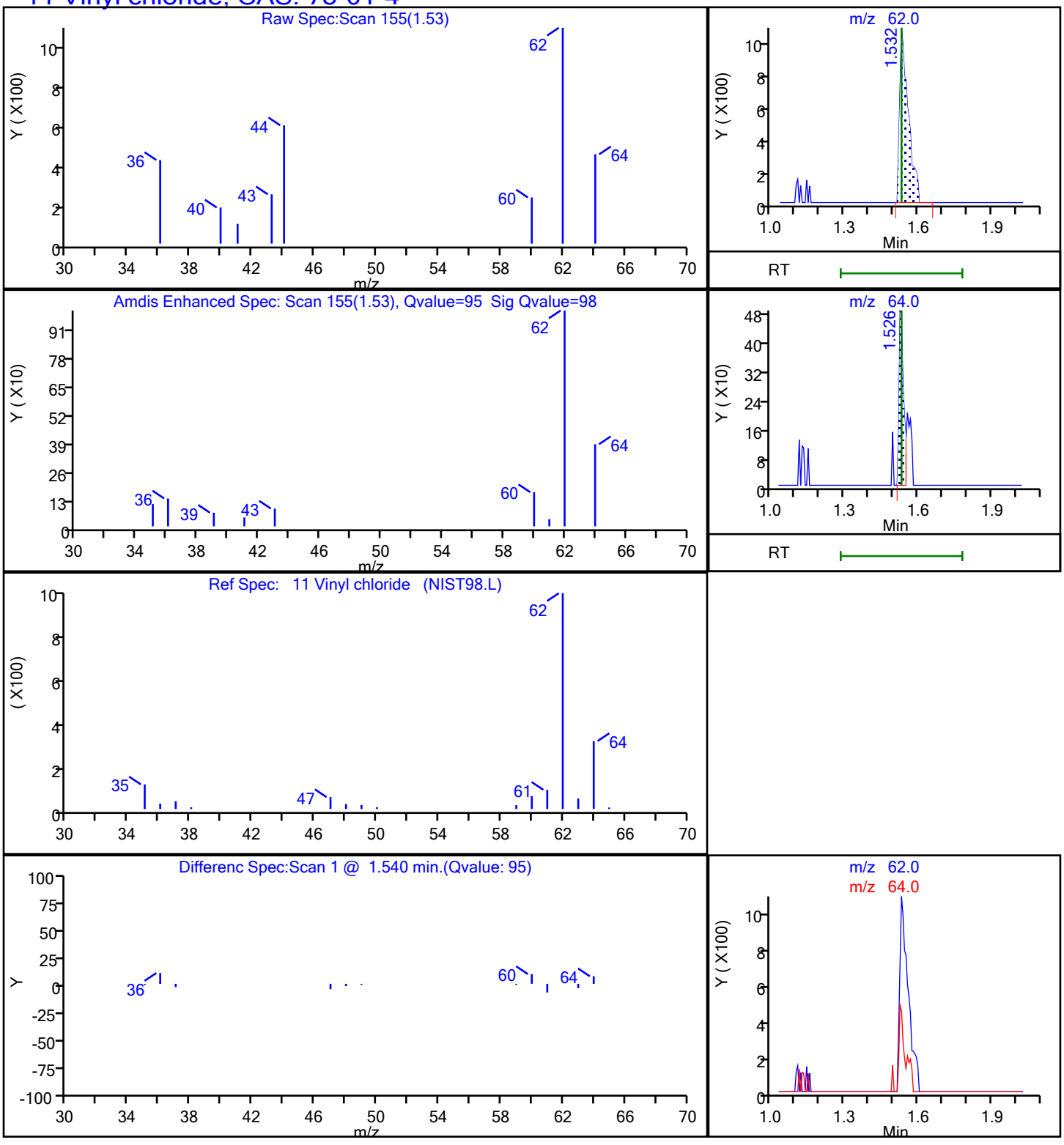
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.6	103.17
$ 6 Toluene-d8 (Surr)	50.0	50.5	100.99
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.4	96.71

Report Date: 19-Nov-2020 06:54:48 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8244.D				
Injection Date:	18-Nov-2020 12:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-12	Lab Sample ID:	310-140187-12		
Client ID:	GW-110920-BE-030				
Operator ID:	sjn	ALS Bottle#:	22	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

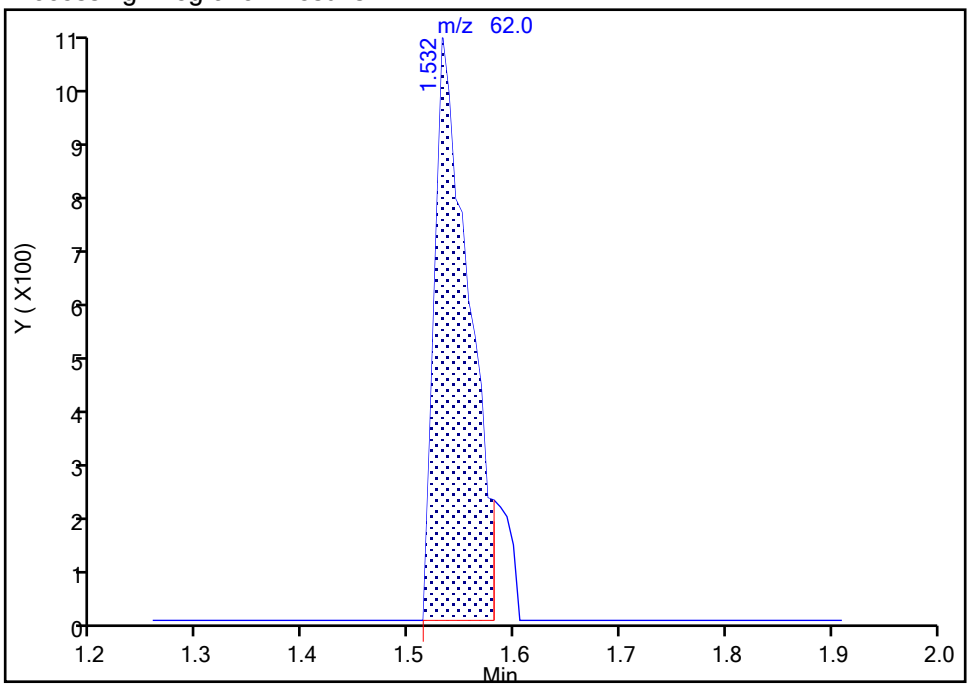
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8244.D		
Injection Date:	18-Nov-2020 12:12:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-12	Lab Sample ID:	310-140187-12
Client ID:	GW-110920-BE-030		
Operator ID:	sjn	ALS Bottle#:	22 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

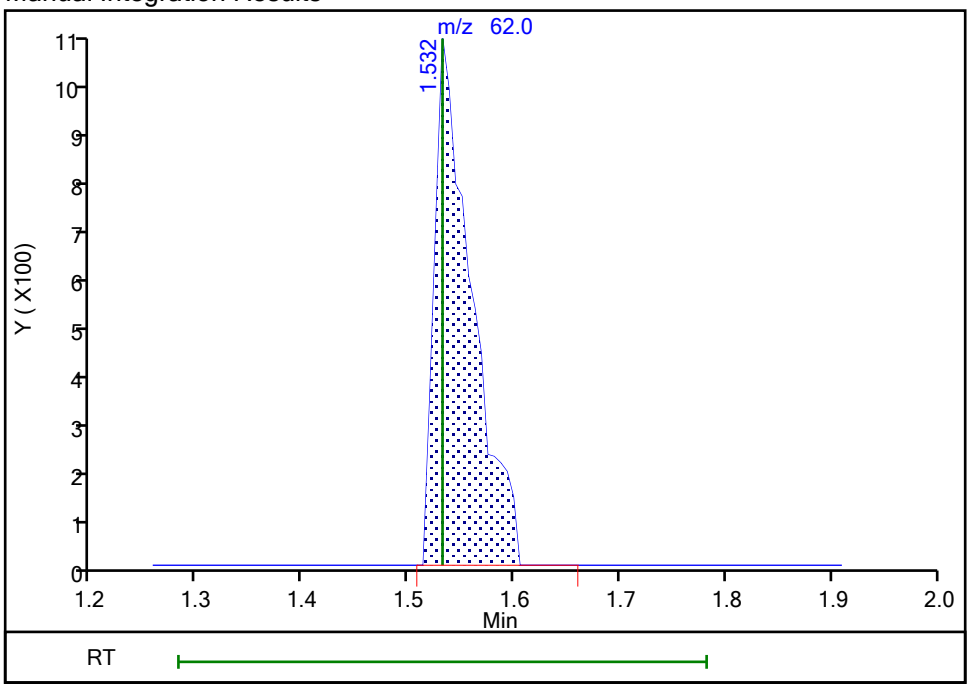
Processing Integration Results

RT: 1.53
Area: 2464
Amount: 0.713292
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 2665
Amount: 0.771479
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:11:01

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

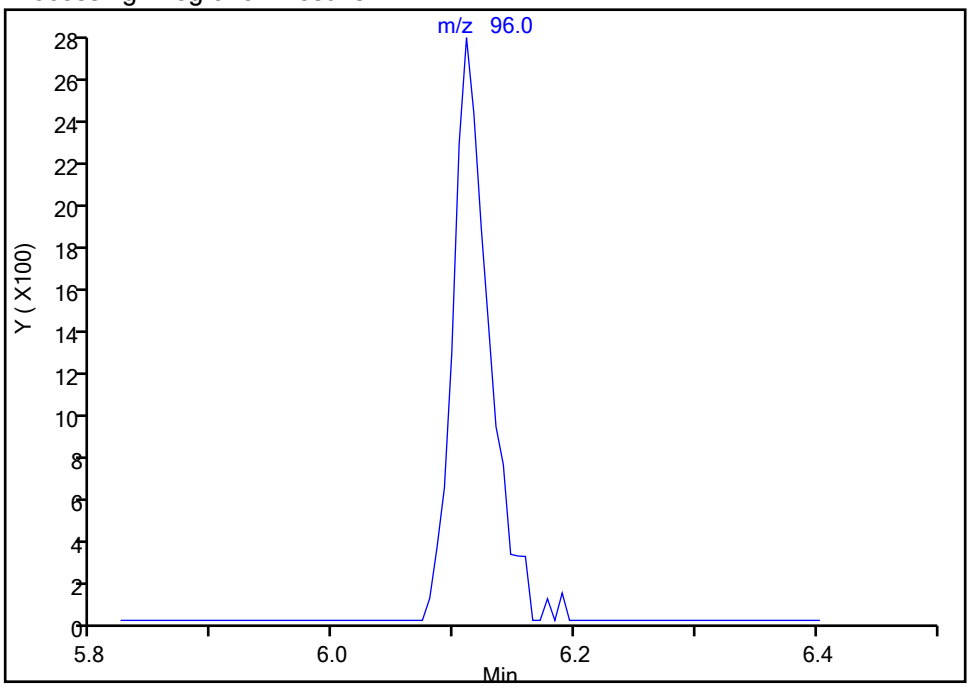
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8244.D				
Injection Date:	18-Nov-2020 12:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-12	Lab Sample ID:	310-140187-12		
Client ID:	GW-110920-BE-030				
Operator ID:	sjn	ALS Bottle#:	22	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

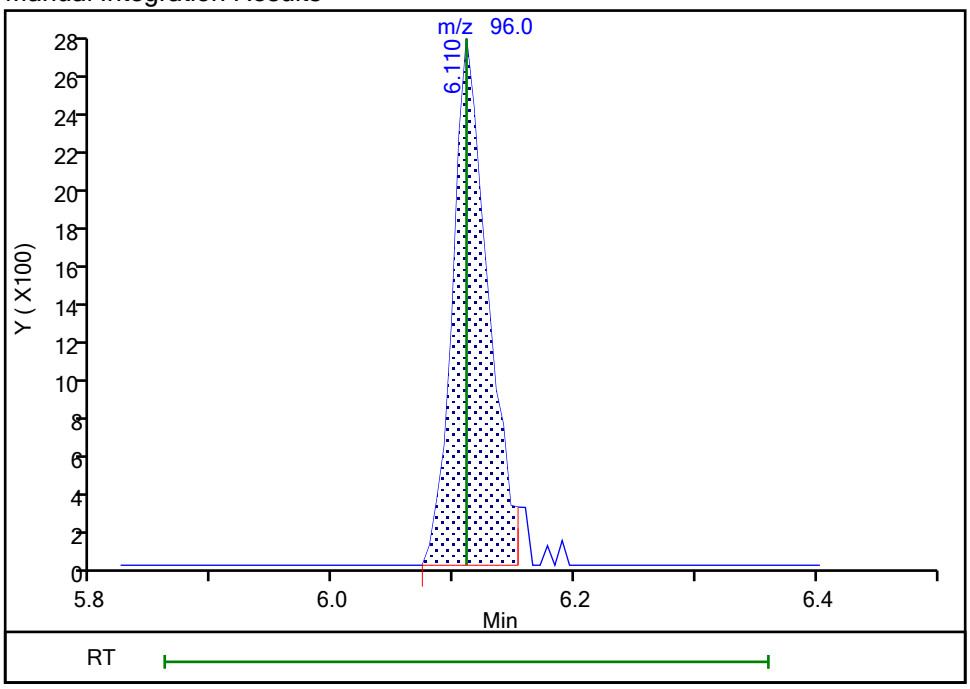
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.11
Area: 5618
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 18-Nov-2020 13:11:14
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-030 Lab Sample ID: 240-140187-12

Matrix: Water Lab File ID: c8298.D

Analysis Method: 8260D Date Collected: 11/09/2020 15:36

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.32	J B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8298.D
Lims ID: 240-140187-B-12
Client ID: GW-110920-BE-030
Sample Type: Client
Inject. Date: 19-Nov-2020 09:06:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:32:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.385	3.373	0.012	0	173	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	166791	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	95	5047	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	120664	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	52980	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	39280	52.5	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	95	156248	50.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.001	85	42013	48.5	
$ 8 BFB	95	9.920	9.920	0.000	81	56154	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.532	1.532	0.000	93	2747	0.8938	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43	2.721	2.714	0.007	29	583	-2.01	a
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	82	706	0.3153	M
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		0.3153	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

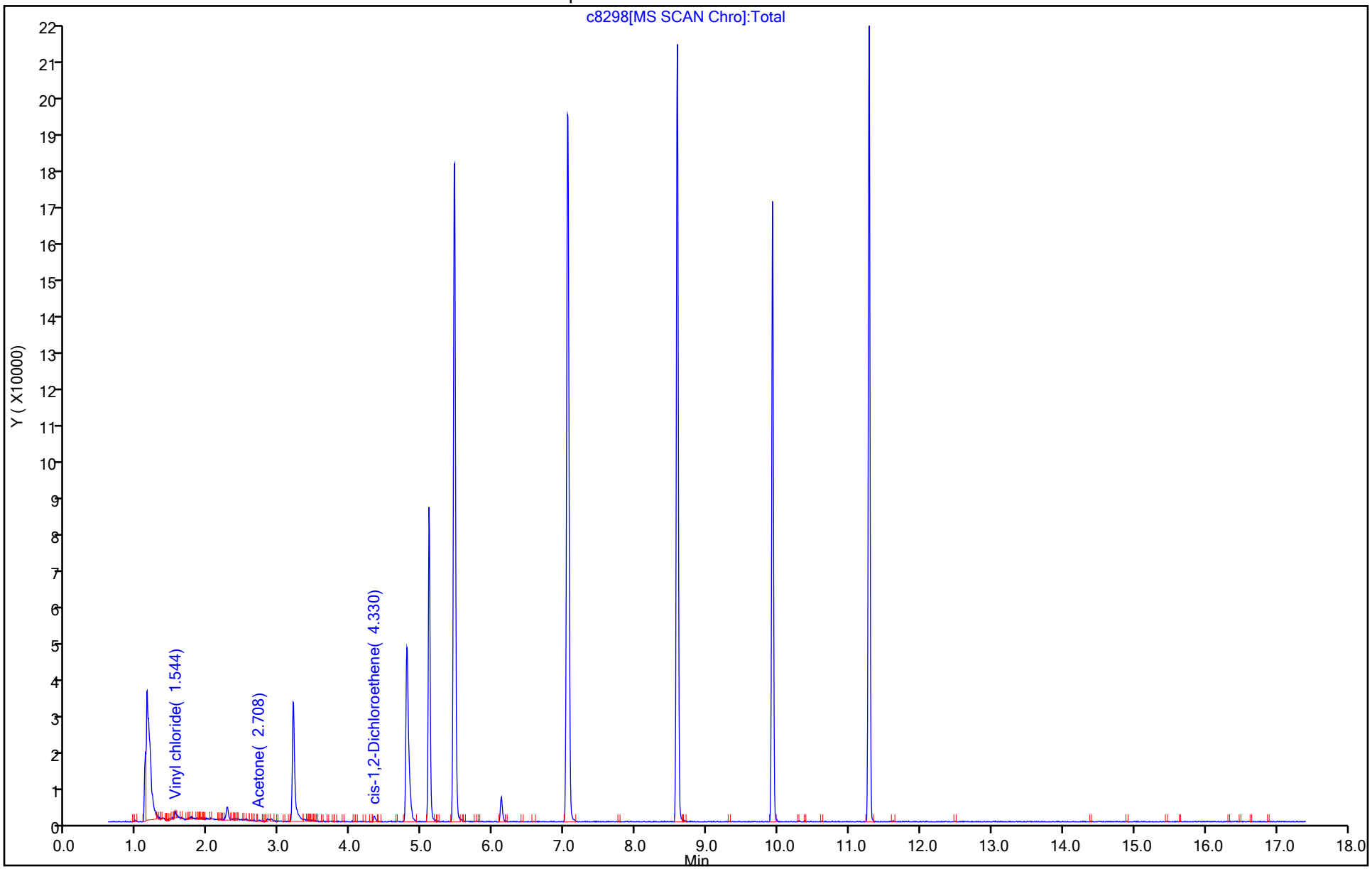
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8298.D				
Injection Date:	19-Nov-2020 09:06:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-12	Lab Sample ID:	310-140187-12	Worklist Smp#:	13
Client ID:	GW-110920-BE-030				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8298.D
Lims ID: 240-140187-B-12
Client ID: GW-110920-BE-030
Sample Type: Client
Inject. Date: 19-Nov-2020 09:06:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:32:32

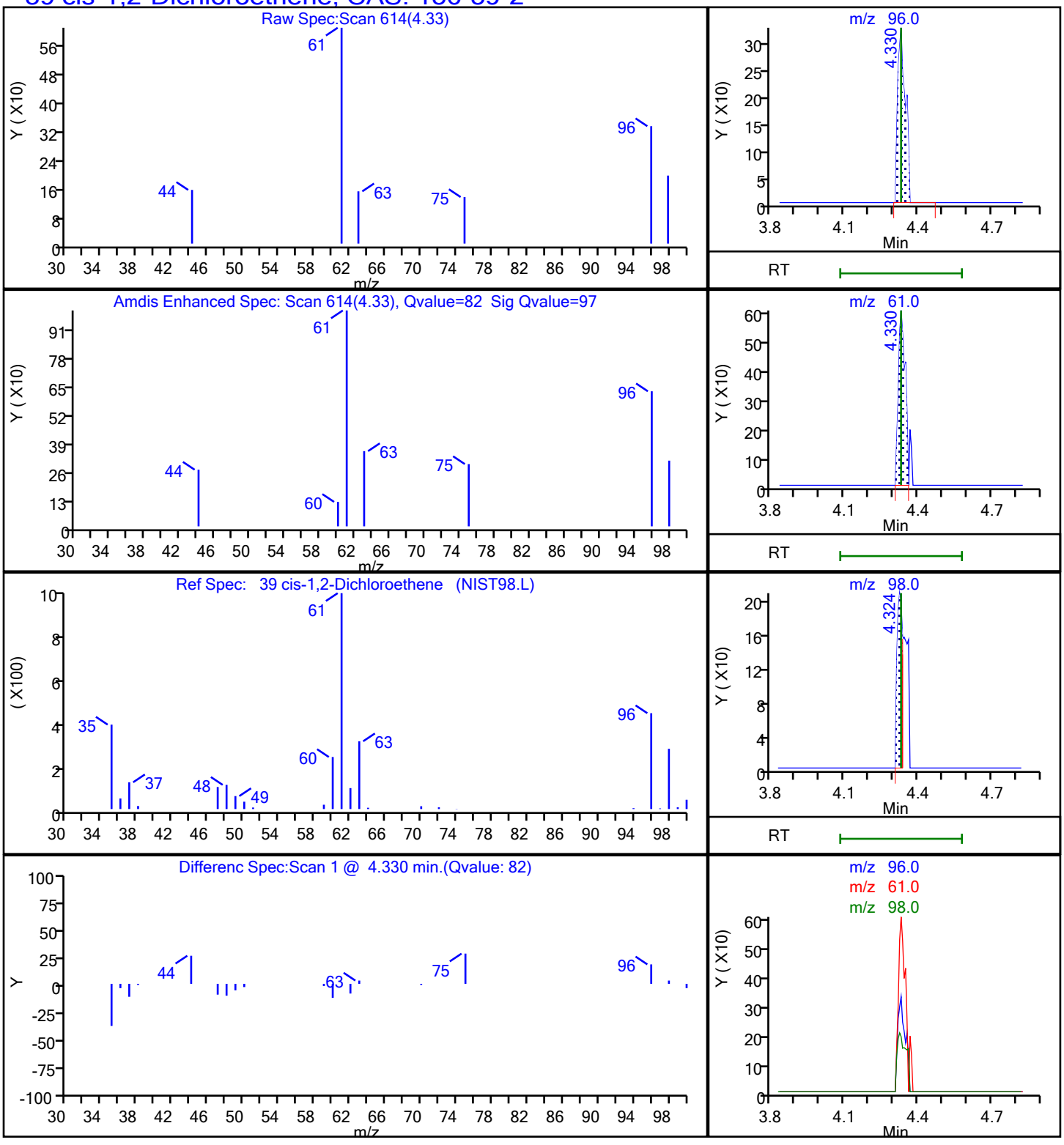
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.5	105.09
$ 6 Toluene-d8 (Surr)	50.0	50.5	101.01
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.5	96.94

Report Date: 20-Nov-2020 12:14:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8298.D				
Injection Date:	19-Nov-2020 09:06:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-12	Lab Sample ID:	310-140187-12		
Client ID:	GW-110920-BE-030				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

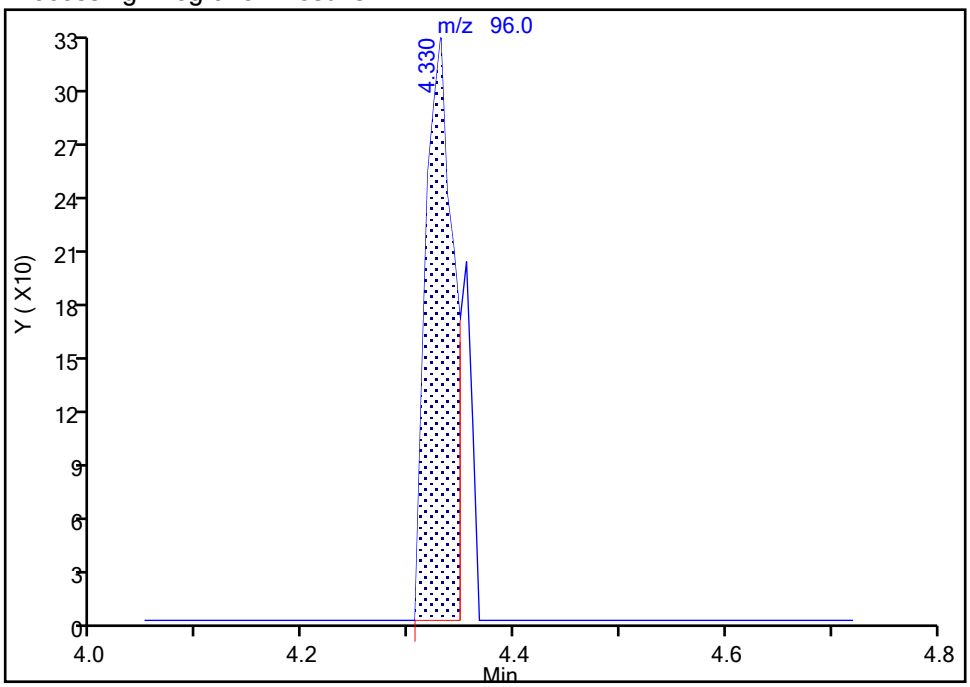
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8298.D				
Injection Date:	19-Nov-2020 09:06:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-12	Lab Sample ID:	310-140187-12		
Client ID:	GW-110920-BE-030				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

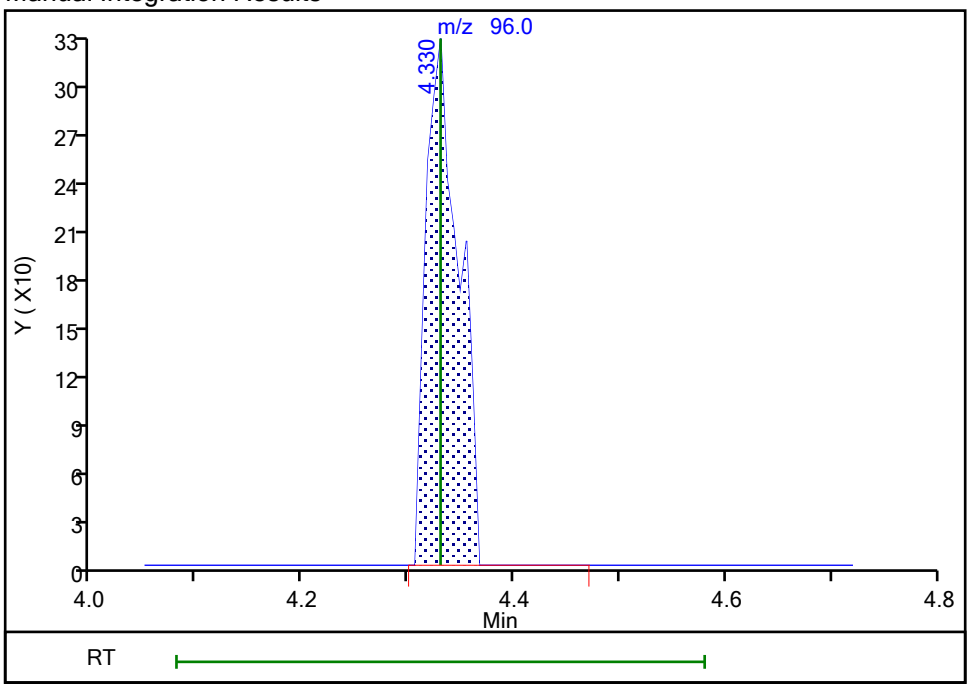
Processing Integration Results

RT: 4.33
Area: 593
Amount: 0.264795
Amount Units: ug/l



Manual Integration Results

RT: 4.33
Area: 706
Amount: 0.315253
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:32:07

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

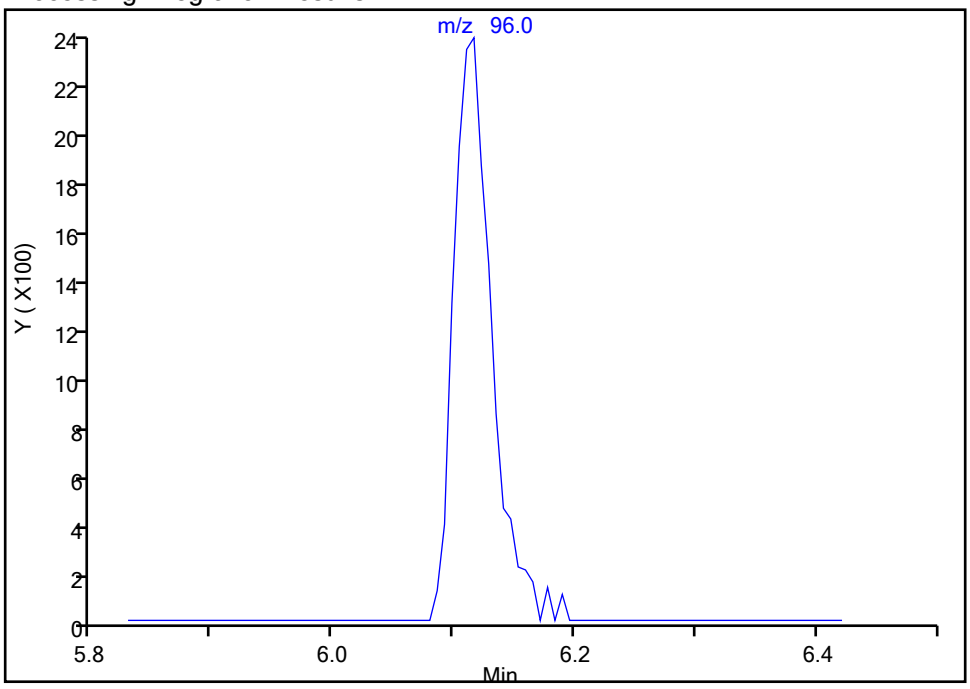
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8298.D				
Injection Date:	19-Nov-2020 09:06:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-12	Lab Sample ID:	310-140187-12		
Client ID:	GW-110920-BE-030				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

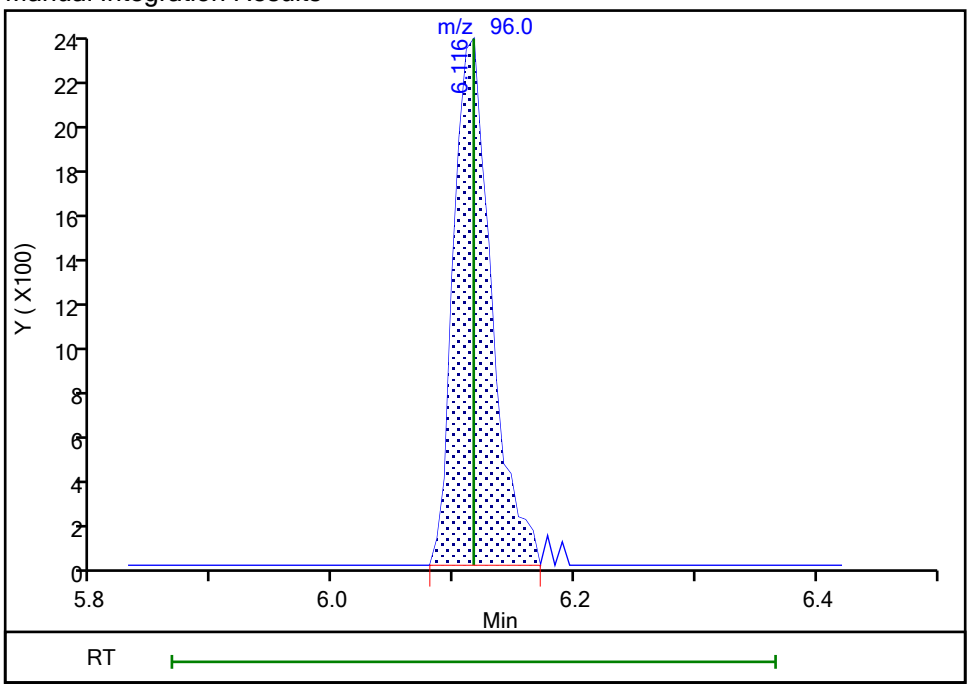
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5047
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:31:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-031 Lab Sample ID: 240-140187-13

Matrix: Water Lab File ID: c8245.D

Analysis Method: 8260D Date Collected: 11/09/2020 15:44

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	0.47	J	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.1		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-031 Lab Sample ID: 240-140187-13

Matrix: Water Lab File ID: c8245.D

Analysis Method: 8260D Date Collected: 11/09/2020 15:44

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 12:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D
Lims ID: 240-140187-A-13
Client ID: GW-110920-BE-031
Sample Type: Client
Inject. Date: 18-Nov-2020 12:36:30 ALS Bottle#: 23 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-021
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:13:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.409	3.385	0.024	0	207	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	168285	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	94	5606	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	121170	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53230	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	37854	50.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	157831	50.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	82	41772	48.0	
$ 8 BFB	95	9.920	9.920	0.000	80	58891	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	95	3266	1.05	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.830	2.843	-0.013	61	2405	0.4693	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	86	5074	2.25	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.329			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.237			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.890			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.304			ND		
110 1,2,3-Trimethylbenzene	105		11.384			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.768			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.688			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.975			ND		
99 1,2,3-Trichlorobenzene	180		14.273			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
133 Isooctane	57		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
138 Dodecane	57		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		2.25	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

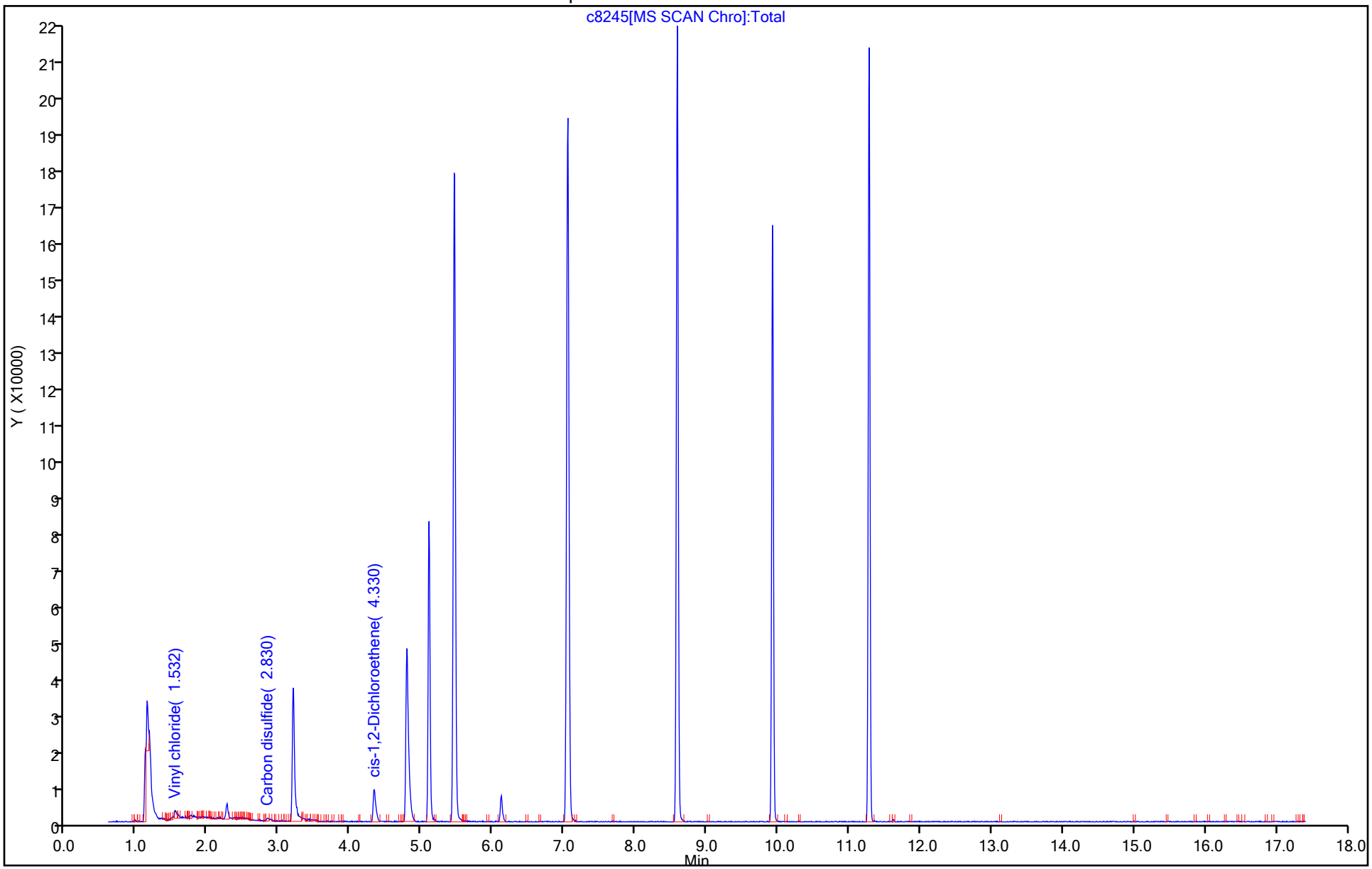
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D				
Injection Date:	18-Nov-2020 12:36:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-13	Lab Sample ID:	310-140187-13	Worklist Smp#:	21
Client ID:	GW-110920-BE-031				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D
Lims ID: 240-140187-A-13
Client ID: GW-110920-BE-031
Sample Type: Client
Inject. Date: 18-Nov-2020 12:36:30 ALS Bottle#: 23 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-021
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 13:13:00

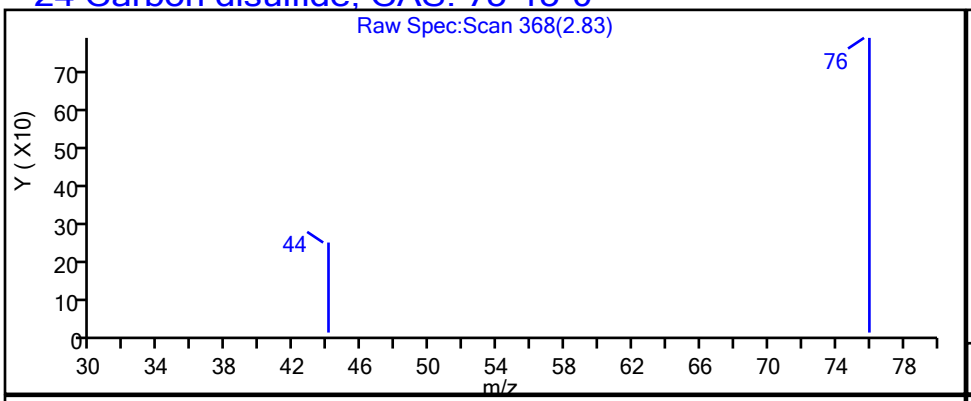
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	50.2	100.38
$ 6 Toluene-d8 (Surr)	50.0	50.8	101.61
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.0	95.93

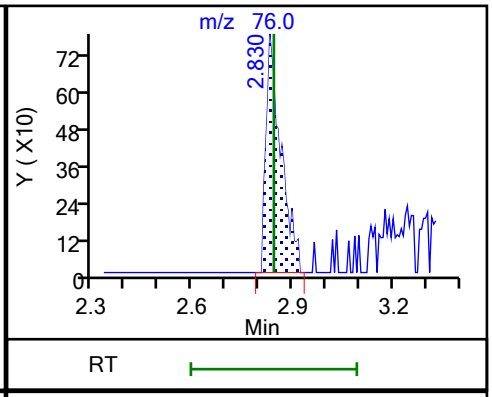
Report Date: 19-Nov-2020 06:54:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

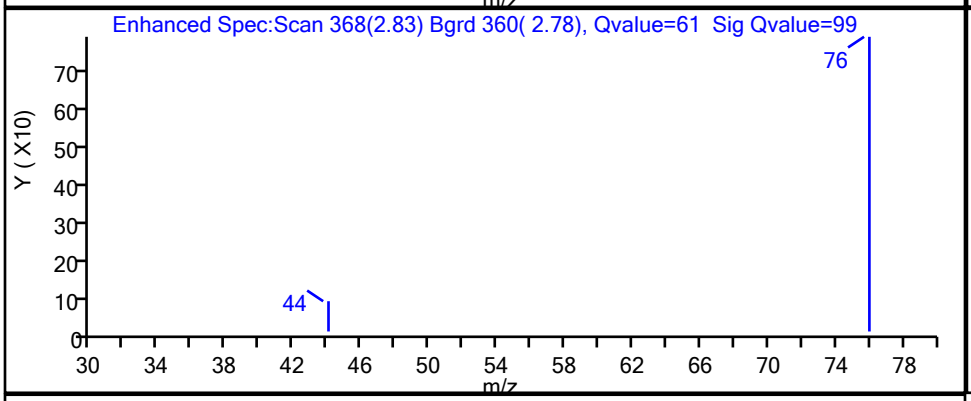
Eurofins TestAmerica, Cedar Falls

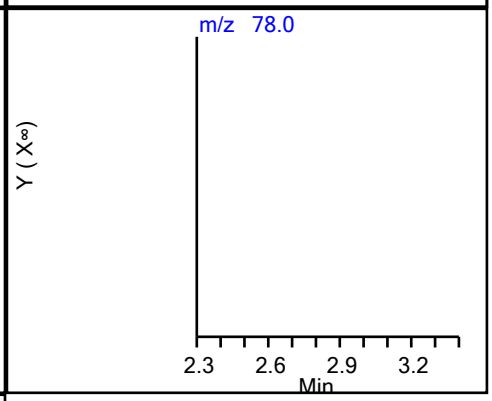
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D				
Injection Date:	18-Nov-2020 12:36:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-13	Lab Sample ID:	310-140187-13		
Client ID:	GW-110920-BE-031				
Operator ID:	sjn	ALS Bottle#:	23	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

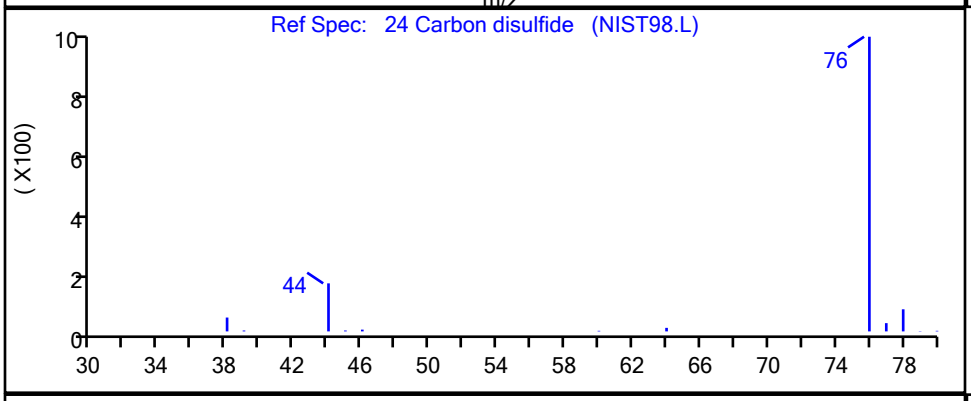
24 Carbon disulfide, CAS: 75-15-0

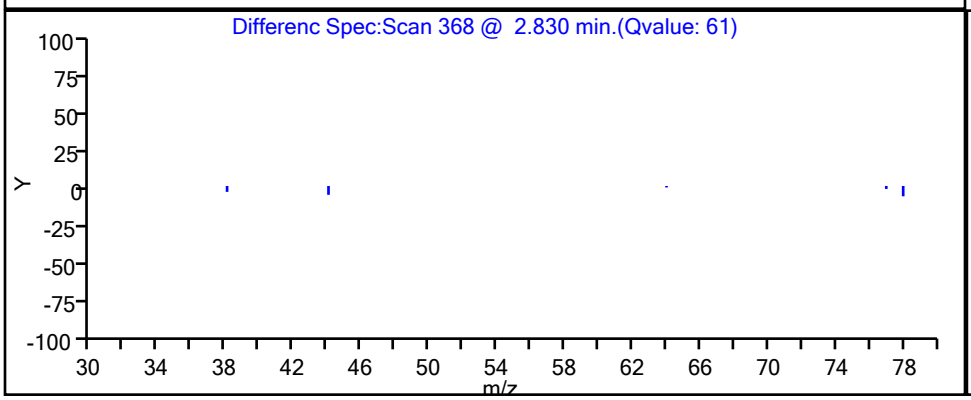


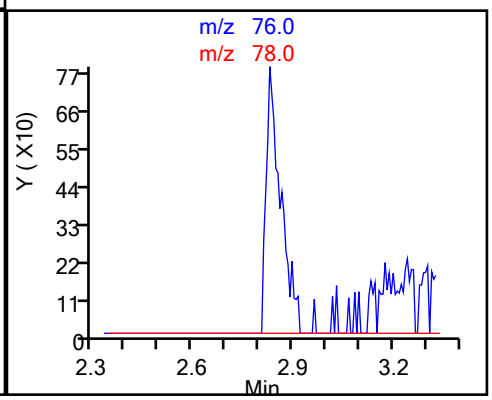












Report Date: 19-Nov-2020 06:54:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D

Injection Date: 18-Nov-2020 12:36:30 Instrument ID: Calvin

Lims ID: 240-140187-A-13 Lab Sample ID: 310-140187-13

Client ID: GW-110920-BE-031

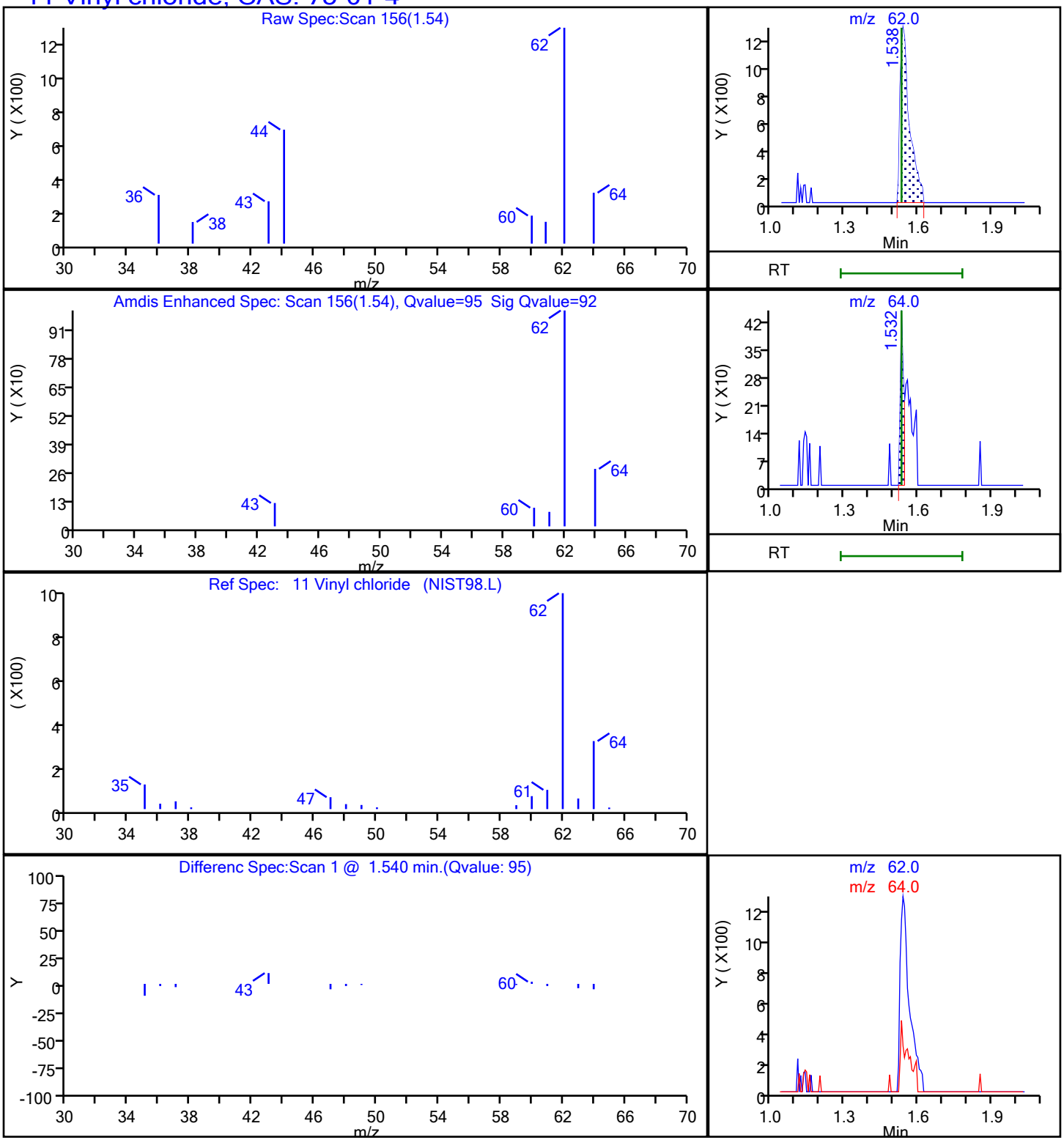
Operator ID: sjn ALS Bottle#: 23 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

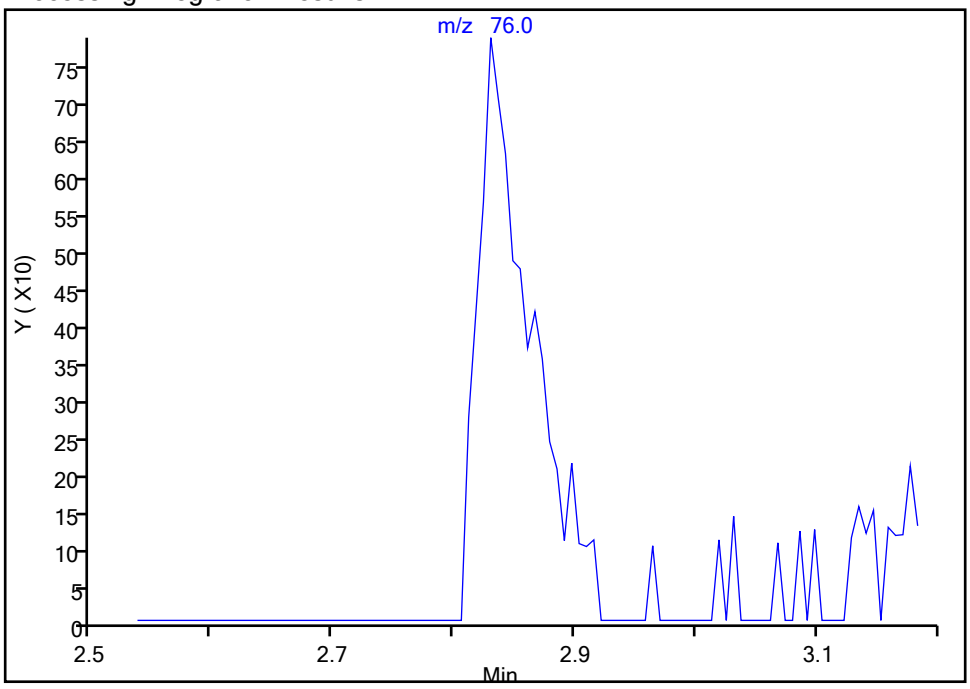
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D				
Injection Date:	18-Nov-2020 12:36:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-13	Lab Sample ID:	310-140187-13		
Client ID:	GW-110920-BE-031				
Operator ID:	sjn	ALS Bottle#:	23	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

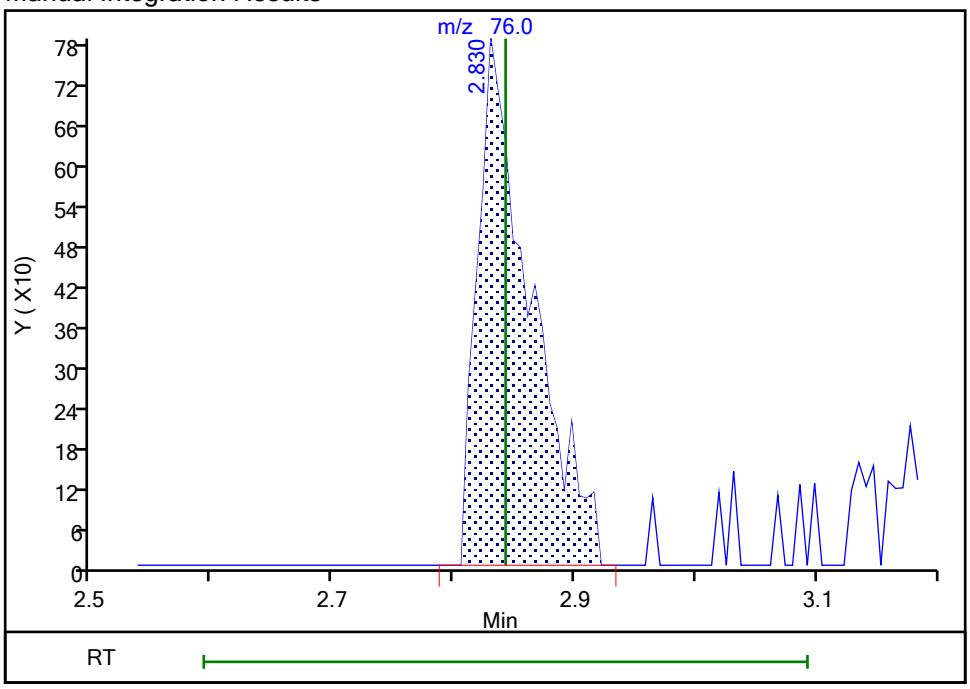
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.83
Area: 2405
Amount: 0.469274
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:11:51
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

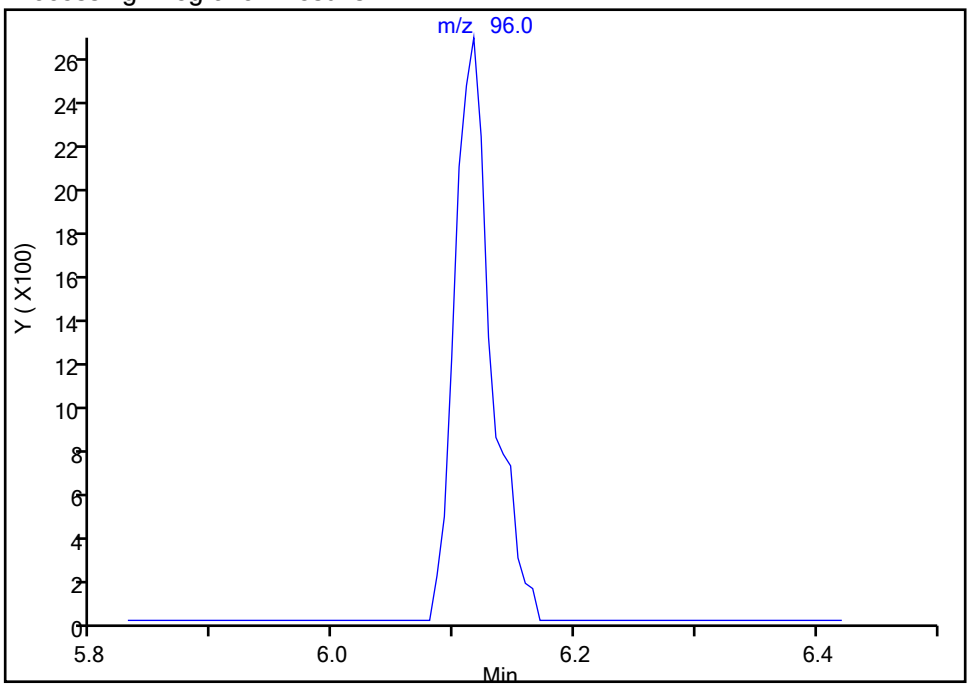
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8245.D				
Injection Date:	18-Nov-2020 12:36:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-13	Lab Sample ID:	310-140187-13		
Client ID:	GW-110920-BE-031				
Operator ID:	sjn	ALS Bottle#:	23	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

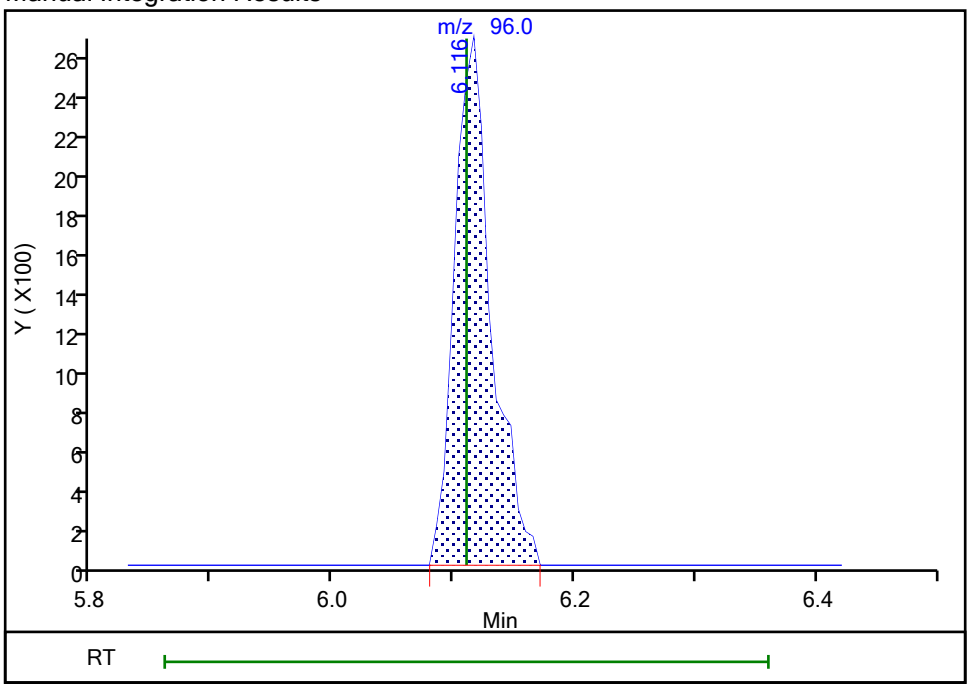
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5606
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 13:11:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-031 Lab Sample ID: 240-140187-13

Matrix: Water Lab File ID: c8299.D

Analysis Method: 8260D Date Collected: 11/09/2020 15:44

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 09:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.30	J B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8299.D
Lims ID: 240-140187-B-13
Client ID: GW-110920-BE-031
Sample Type: Client
Inject. Date: 19-Nov-2020 09:30:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:34:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.373	0.006	0	264	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	181665	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	97	5677	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	95	130144	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	56964	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	41512	51.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	170570	51.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	82	44263	47.5	
$ 8 BFB	95	9.920	9.920	0.000	81	61760	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	92	2734	0.8167	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43	2.714	2.714	0.000	33	358	-2.62	a
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.830	2.842	-0.012	59	2115	0.3823	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	80	731	0.2997	M
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		0.2997	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

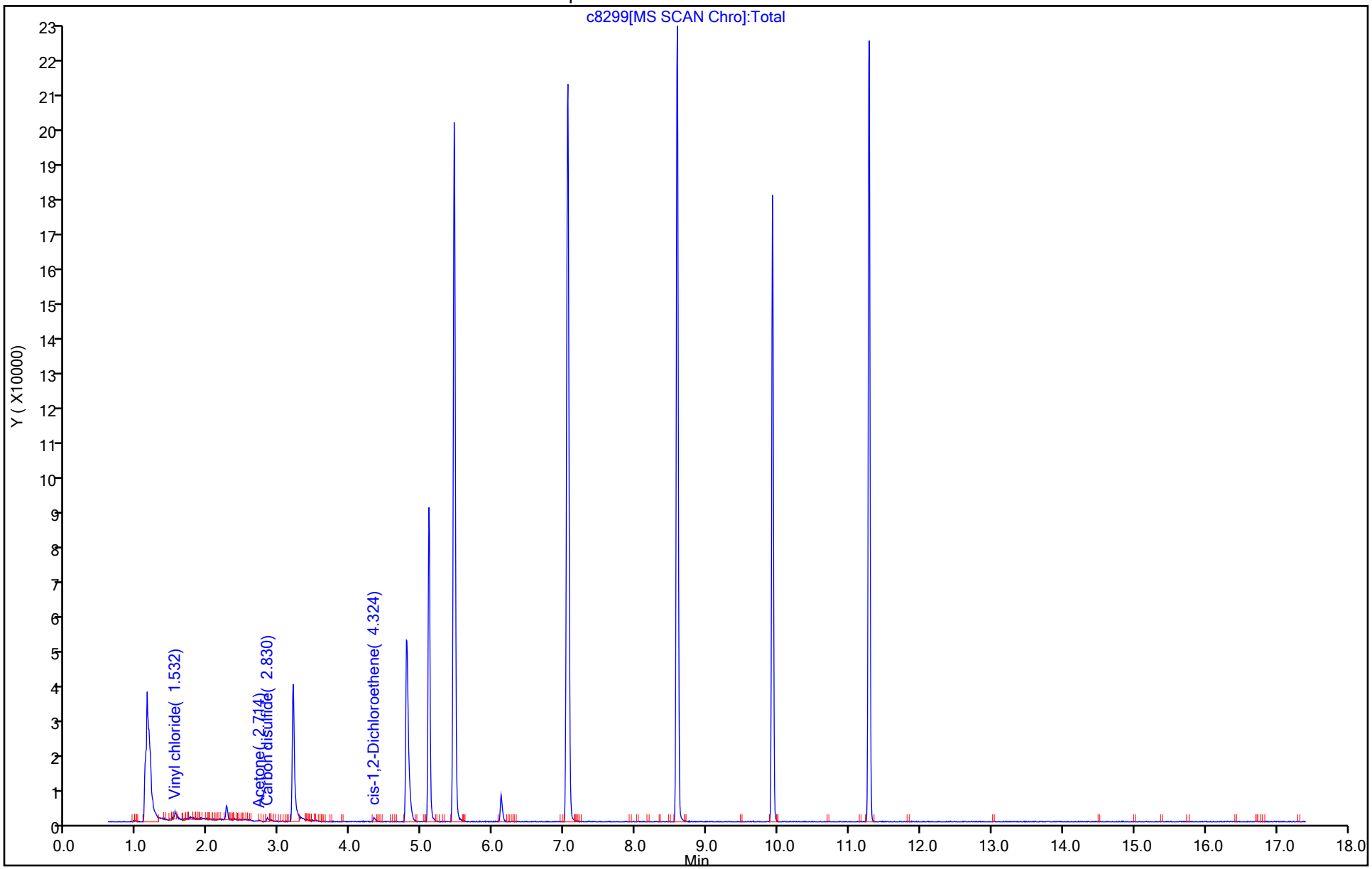
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:49 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8299.D				
Injection Date:	19-Nov-2020 09:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-13	Lab Sample ID:	310-140187-13	Worklist Smp#:	14
Client ID:	GW-110920-BE-031				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8299.D
Lims ID: 240-140187-B-13
Client ID: GW-110920-BE-031
Sample Type: Client
Inject. Date: 19-Nov-2020 09:30:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:34:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.0	101.97
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.24
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.5	94.99

Report Date: 20-Nov-2020 12:14:49 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8299.D

Injection Date: 19-Nov-2020 09:30:30 Instrument ID: Calvin

Lims ID: 240-140187-B-13 Lab Sample ID: 310-140187-13

Client ID: GW-110920-BE-031

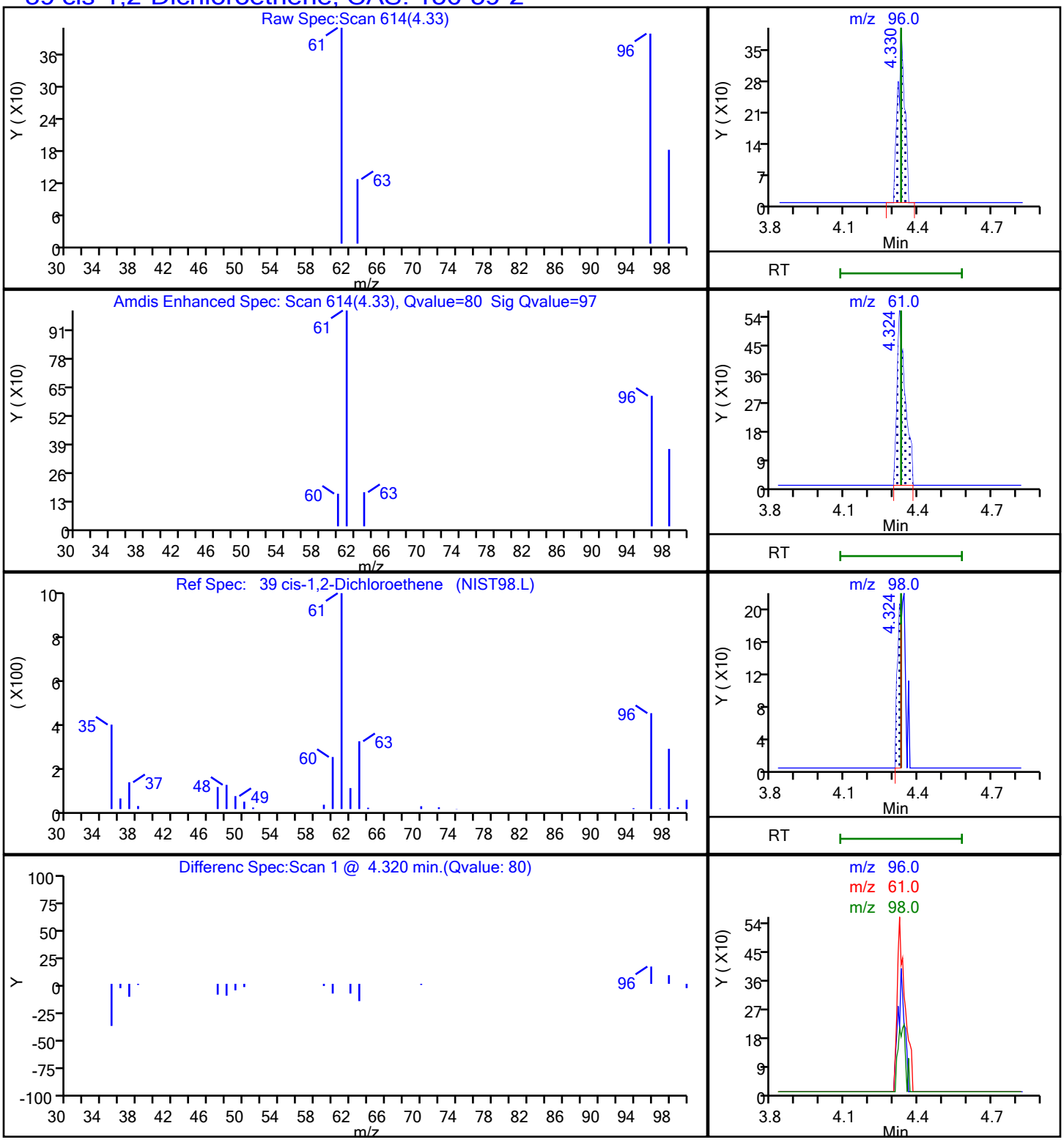
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

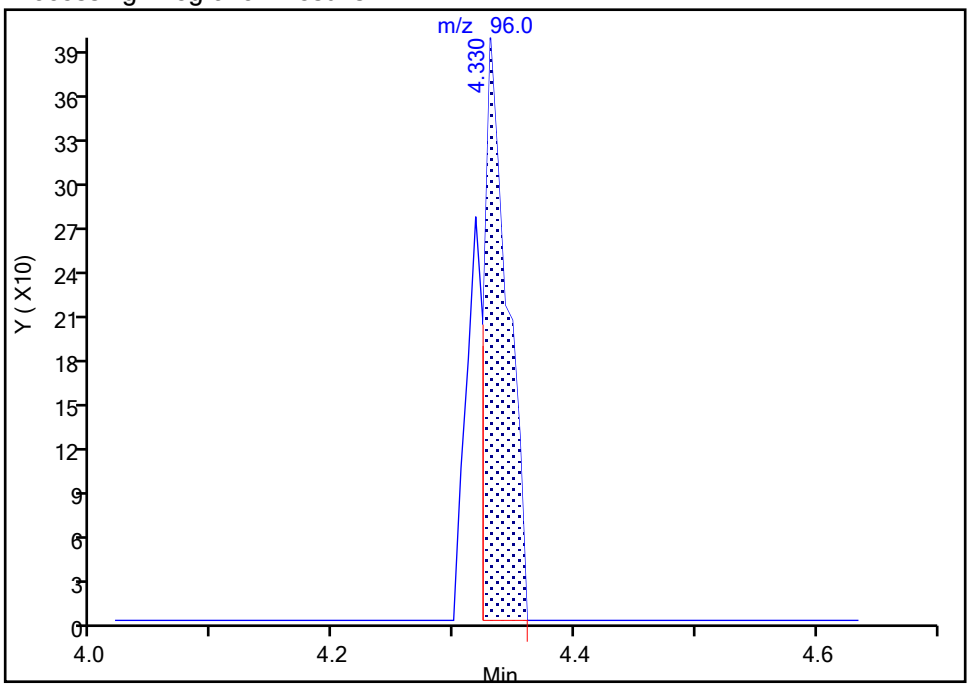
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8299.D				
Injection Date:	19-Nov-2020 09:30:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-13	Lab Sample ID:	310-140187-13		
Client ID:	GW-110920-BE-031				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

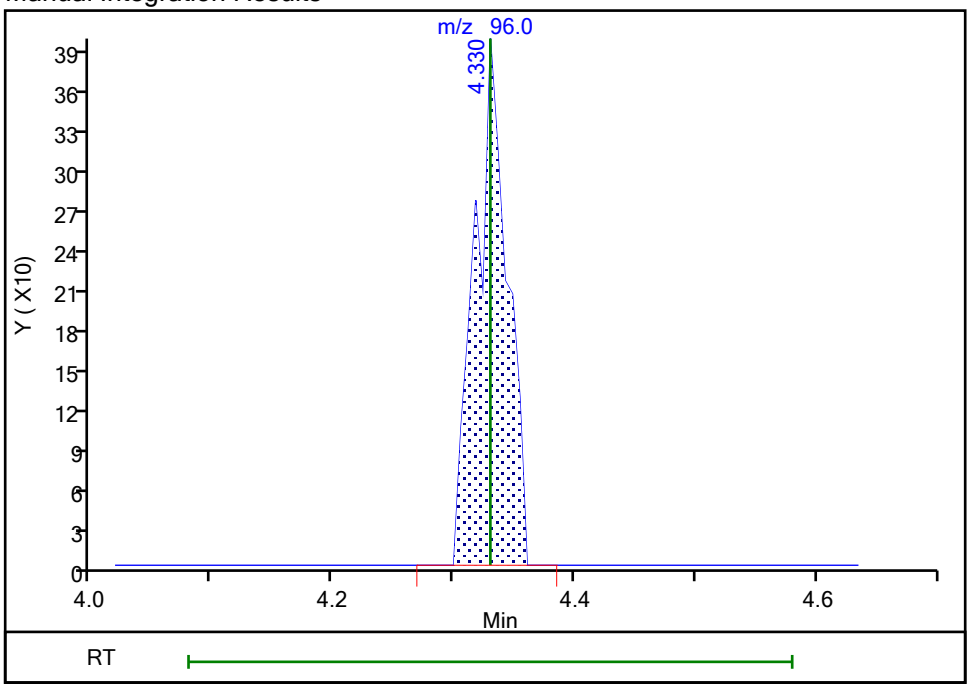
Processing Integration Results

RT: 4.33
Area: 529
Amount: 0.216876
Amount Units: ug/l



Manual Integration Results

RT: 4.33
Area: 731
Amount: 0.299691
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:33:08

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

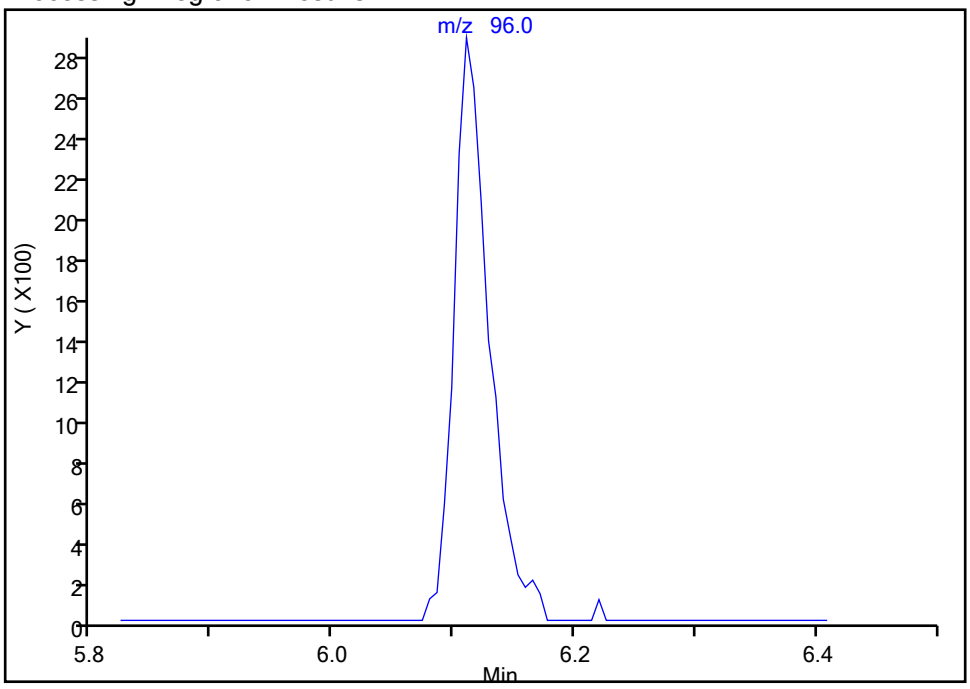
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8299.D				
Injection Date:	19-Nov-2020 09:30:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-13	Lab Sample ID:	310-140187-13		
Client ID:	GW-110920-BE-031				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

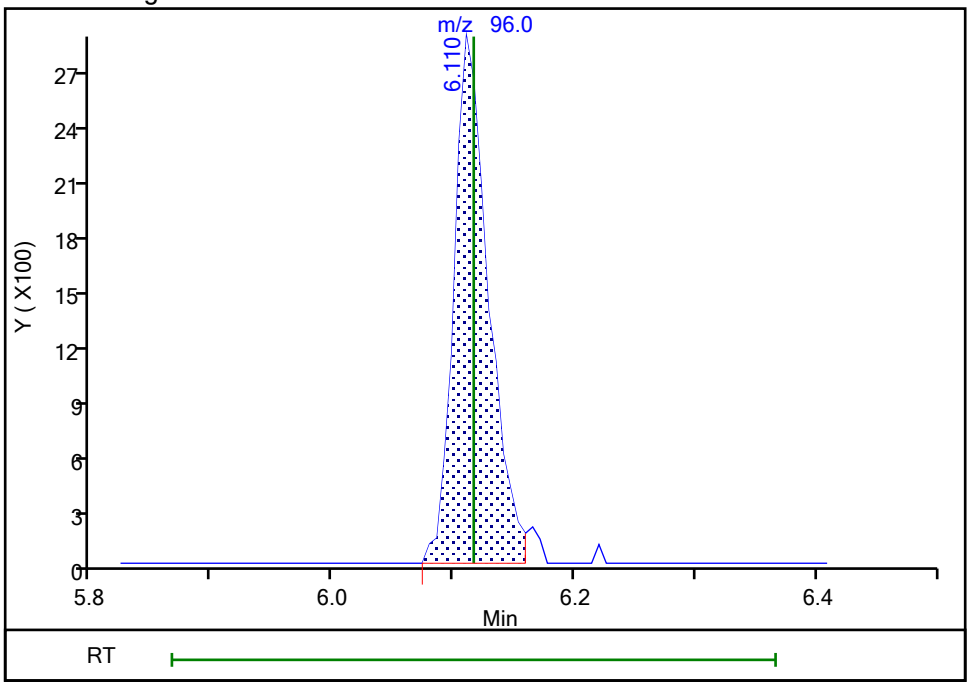
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5677
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:34:04
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111020-BE-032 Lab Sample ID: 240-140187-14

Matrix: Water Lab File ID: c8246.D

Analysis Method: 8260D Date Collected: 11/10/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	13		10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	0.61	J	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	3.0	J	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111020-BE-032 Lab Sample ID: 240-140187-14

Matrix: Water Lab File ID: c8246.D

Analysis Method: 8260D Date Collected: 11/10/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D
Lims ID: 240-140187-A-14
Client ID: GW-111020-BE-032
Sample Type: Client
Inject. Date: 18-Nov-2020 13:01:30 ALS Bottle#: 24 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-022
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 14:40:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.367	3.385	-0.018	0	515	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	164906	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5664	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	117280	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53258	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	37897	51.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	154337	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.920	0.006	86	42008	48.2	
$ 8 BFB	95	9.920	9.920	0.000	80	57117	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43	2.708	2.715	-0.006	98	7049	13.5	M
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.830	2.843	-0.013	99	3046	0.6065	M
105 Isopropyl alcohol	45	2.891	2.885	0.006	91	1228	15.8	a
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.318	4.330	-0.012	85	4325	1.95	Ma
40 2-Butanone (MEK)	43	4.348	4.348	0.000	65	2097	3.04	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		1.95	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

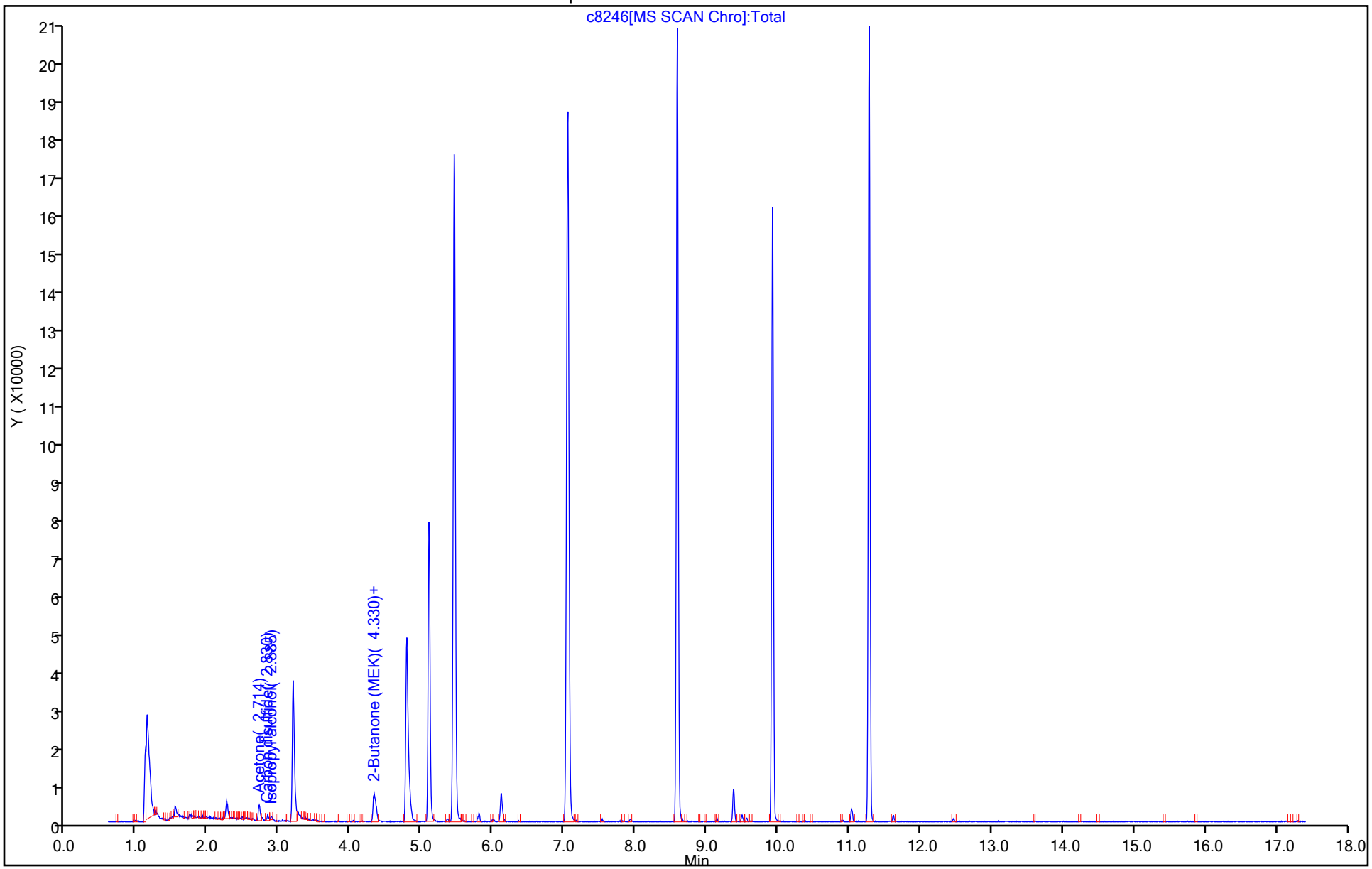
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D				
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14	Worklist Smp#:	22
Client ID:	GW-111020-BE-032				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D
Lims ID: 240-140187-A-14
Client ID: GW-111020-BE-032
Sample Type: Client
Inject. Date: 18-Nov-2020 13:01:30 ALS Bottle#: 24 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-022
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 14:40:14

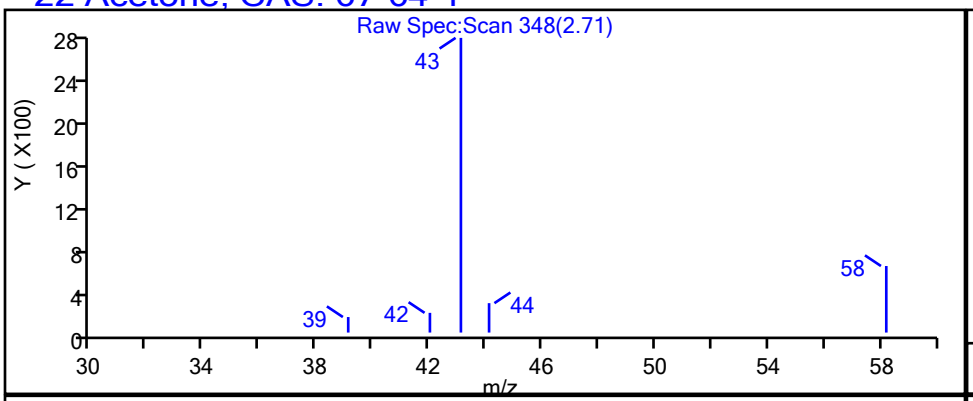
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.3	102.55
$ 6 Toluene-d8 (Surr)	50.0	51.3	102.65
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.2	96.43

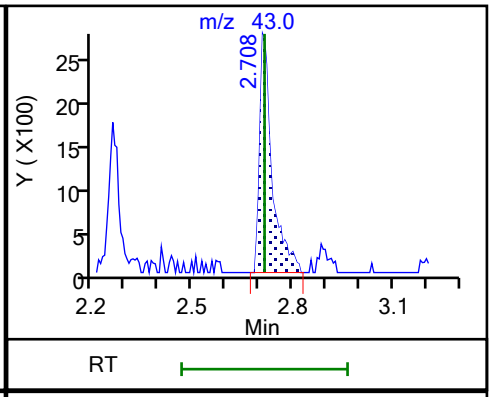
Report Date: 19-Nov-2020 06:54:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

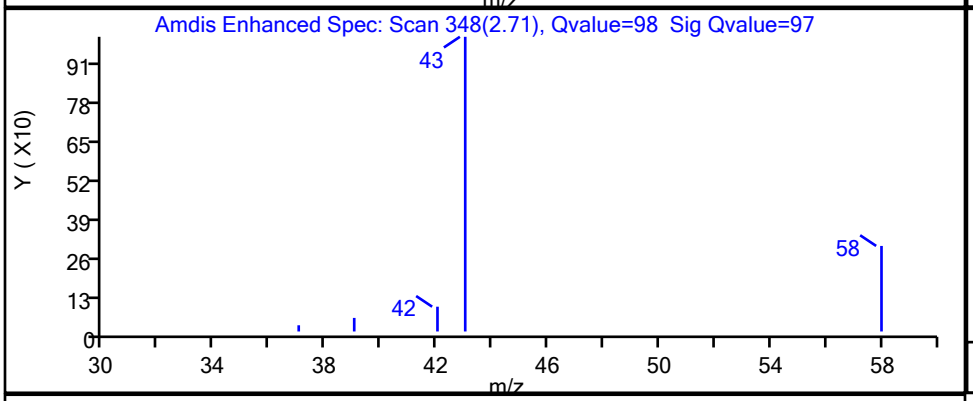
Eurofins TestAmerica, Cedar Falls

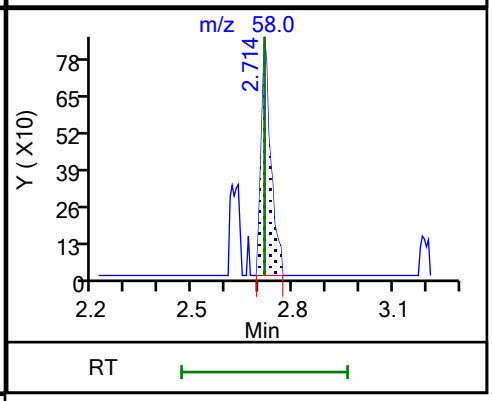
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D				
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14		
Client ID:	GW-111020-BE-032				
Operator ID:	sjn	ALS Bottle#:	24	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

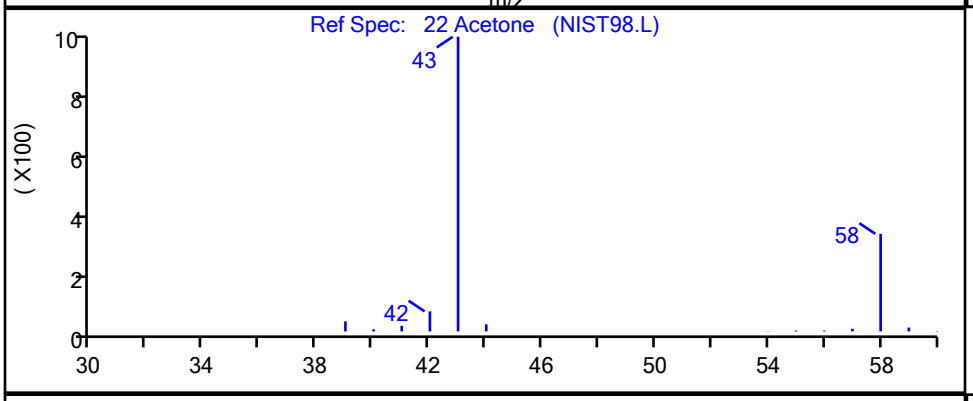
22 Acetone, CAS: 67-64-1

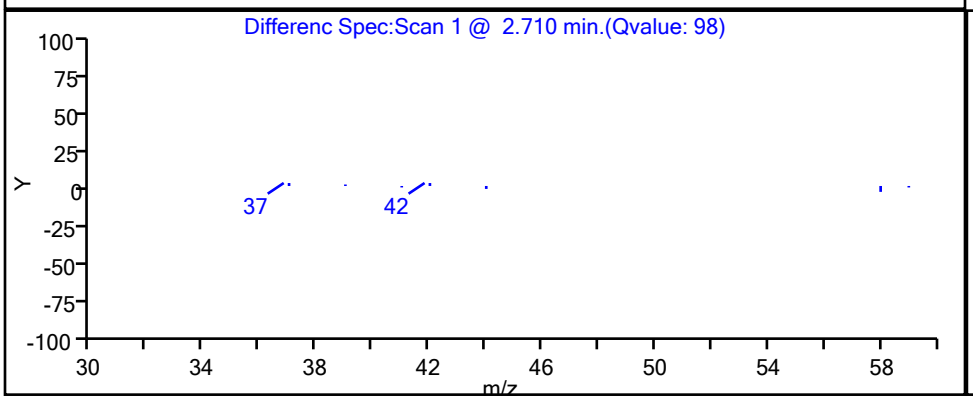


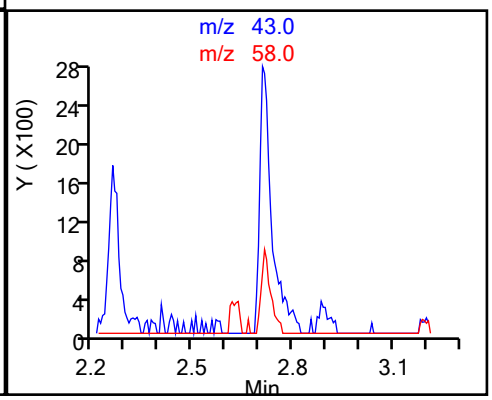










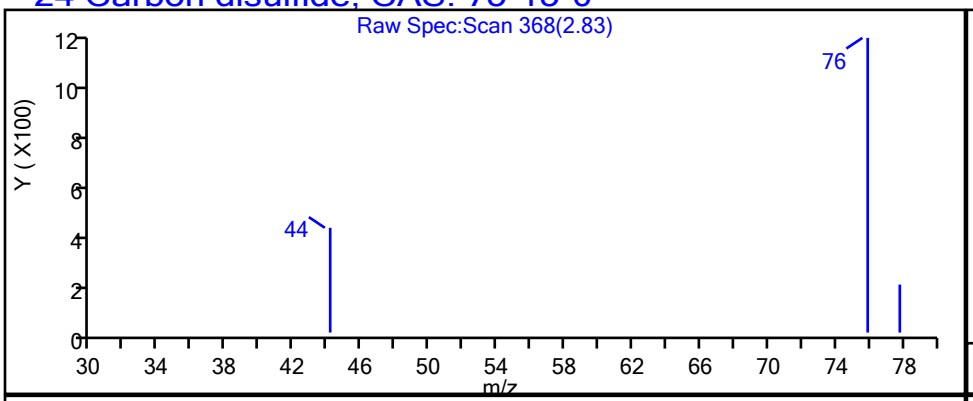


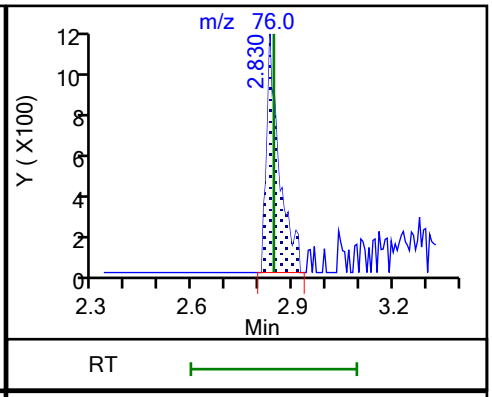
Report Date: 19-Nov-2020 06:54:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

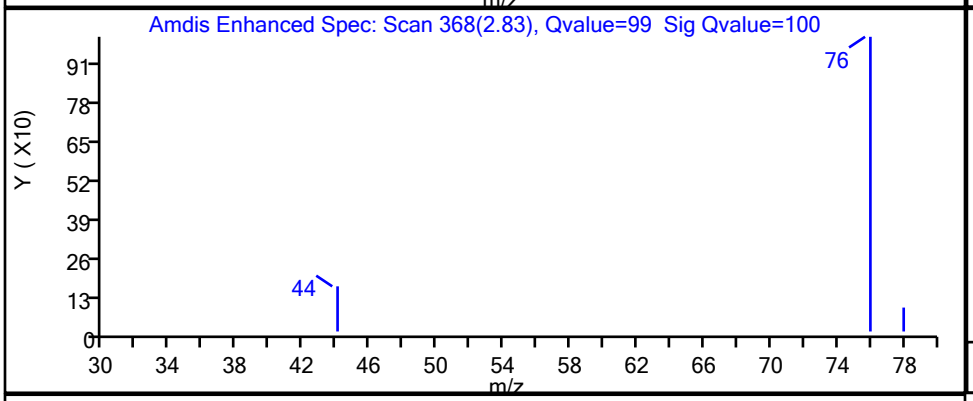
Eurofins TestAmerica, Cedar Falls

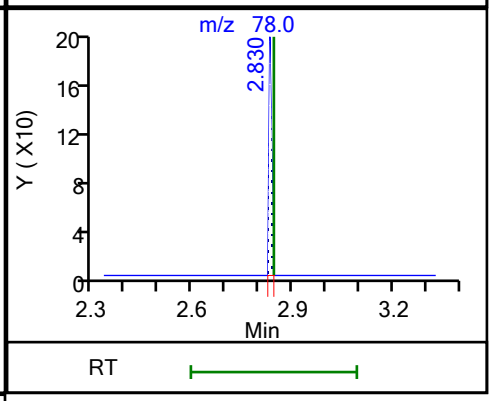
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D				
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14		
Client ID:	GW-111020-BE-032				
Operator ID:	sjn	ALS Bottle#:	24	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

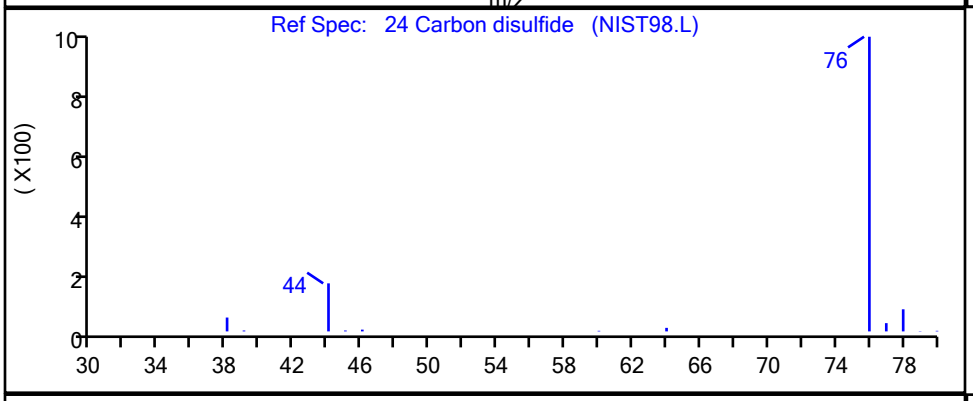
24 Carbon disulfide, CAS: 75-15-0

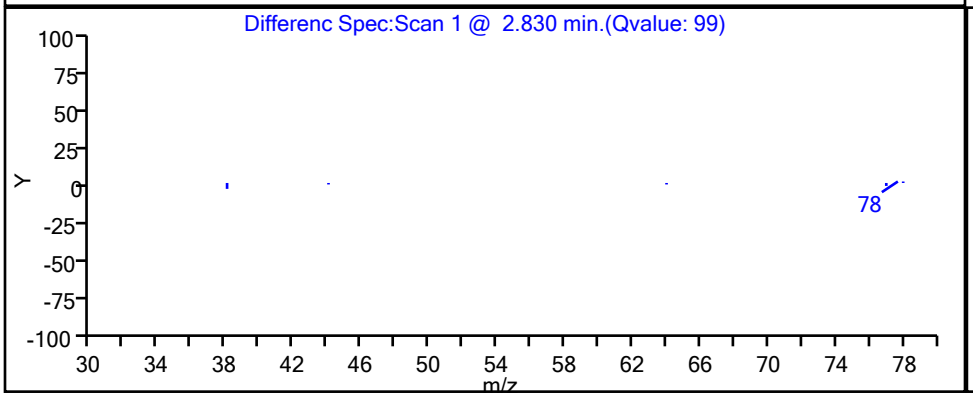


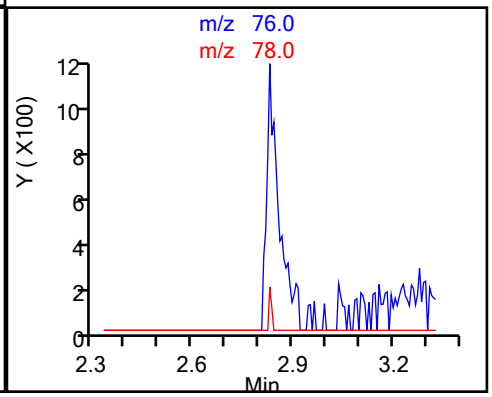










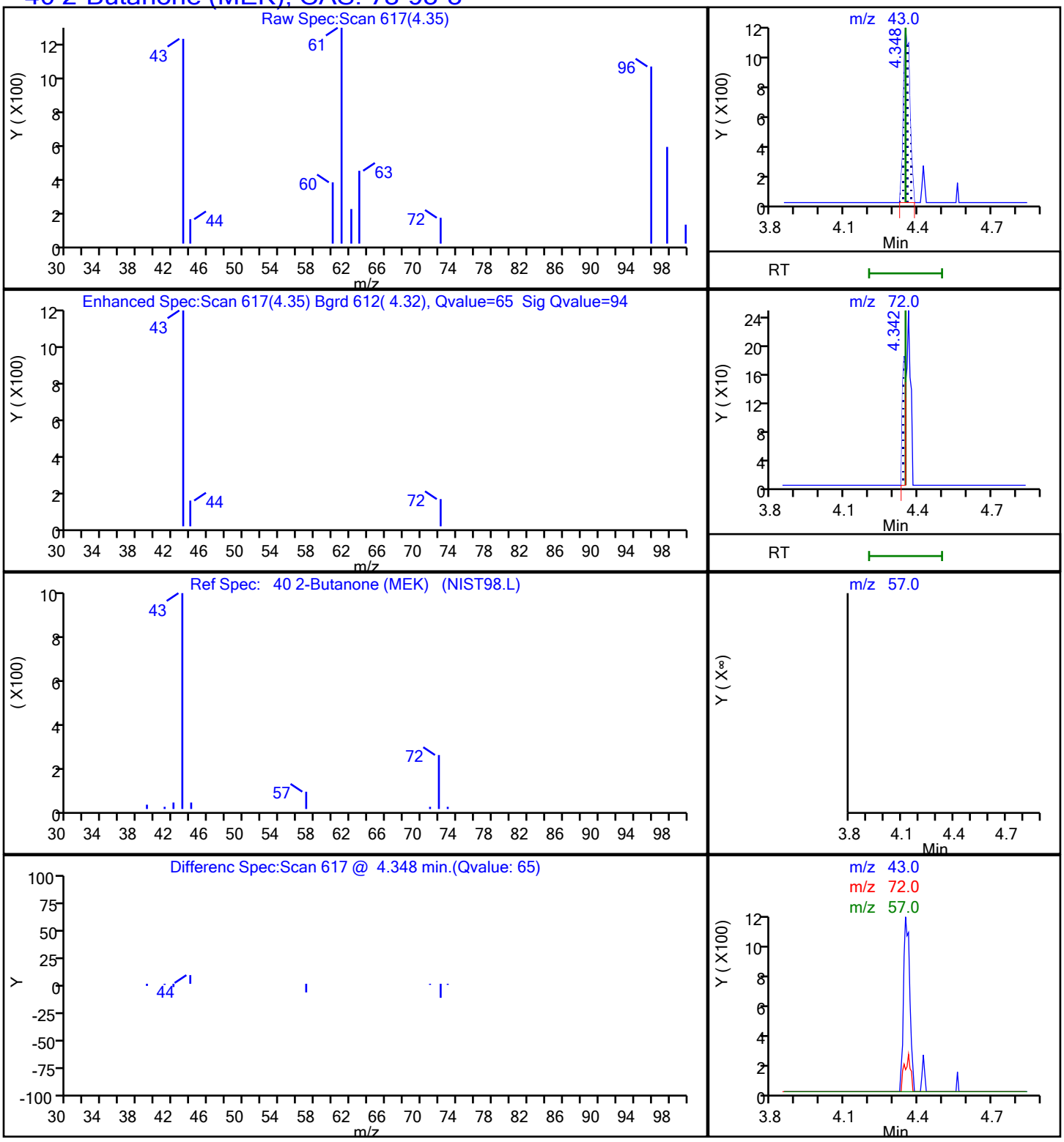


Report Date: 19-Nov-2020 06:54:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D		
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14
Client ID:	GW-111020-BE-032		
Operator ID:	sjn	ALS Bottle#:	24 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

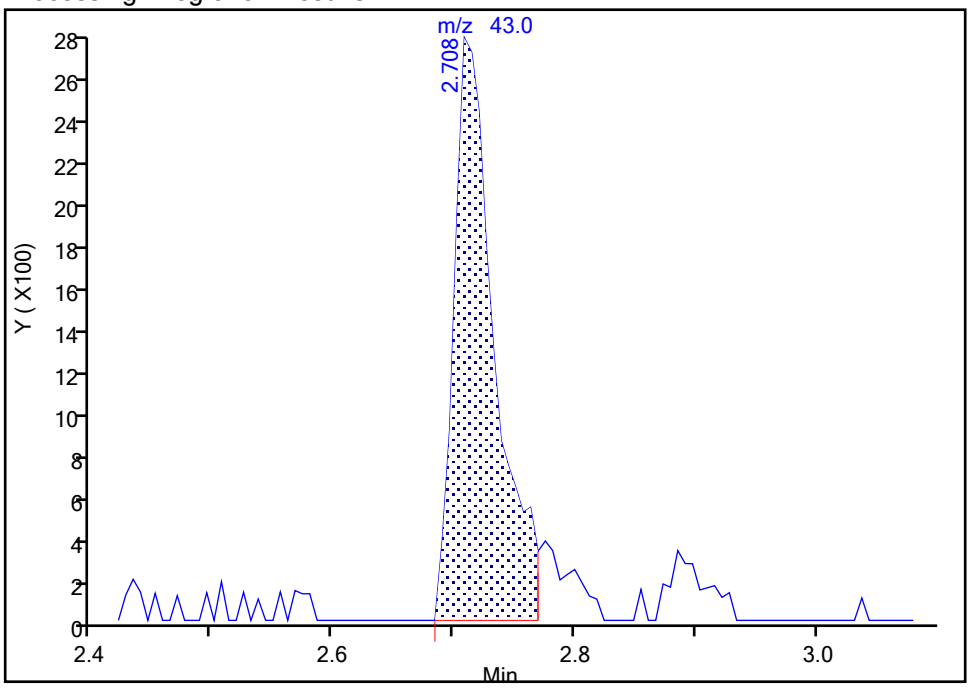
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D				
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14		
Client ID:	GW-111020-BE-032				
Operator ID:	sjn	ALS Bottle#:	24	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

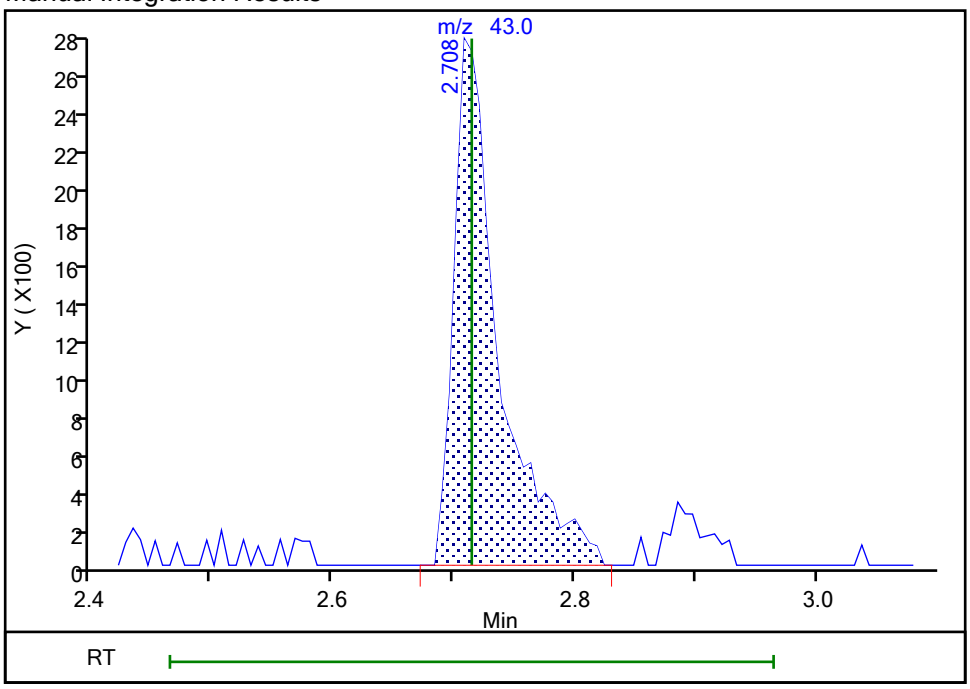
Processing Integration Results

RT: 2.71
Area: 6414
Amount: 11.962613
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 7049
Amount: 13.482887
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:39:07

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

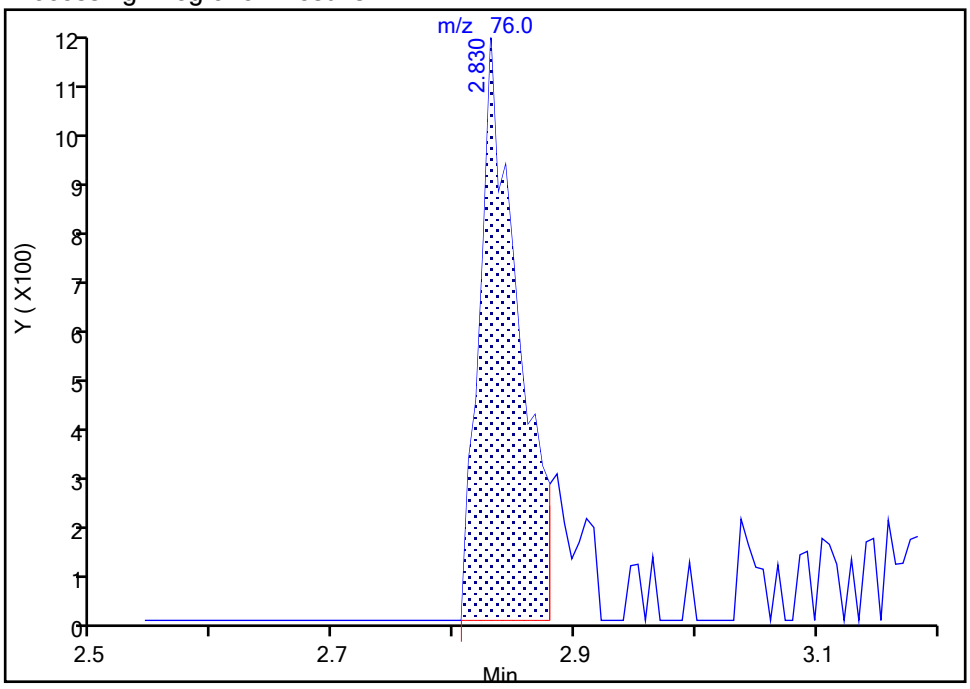
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D		
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14
Client ID:	GW-111020-BE-032		
Operator ID:	sjn	ALS Bottle#:	24 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

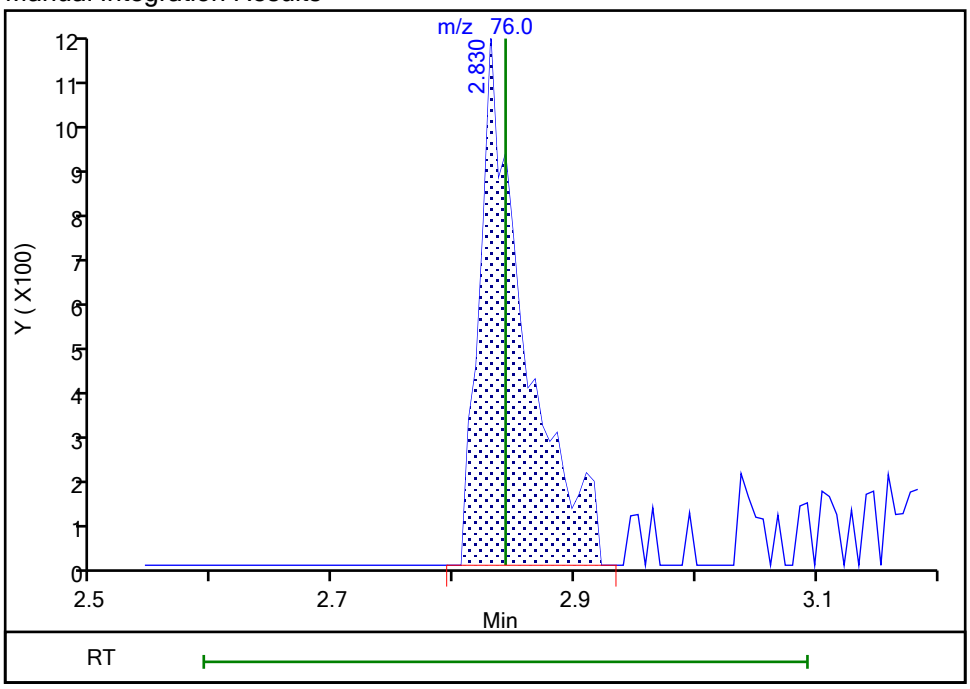
Processing Integration Results

RT: 2.83
Area: 2620
Amount: 0.521701
Amount Units: ug/l



Manual Integration Results

RT: 2.83
Area: 3046
Amount: 0.606527
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:39:24

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

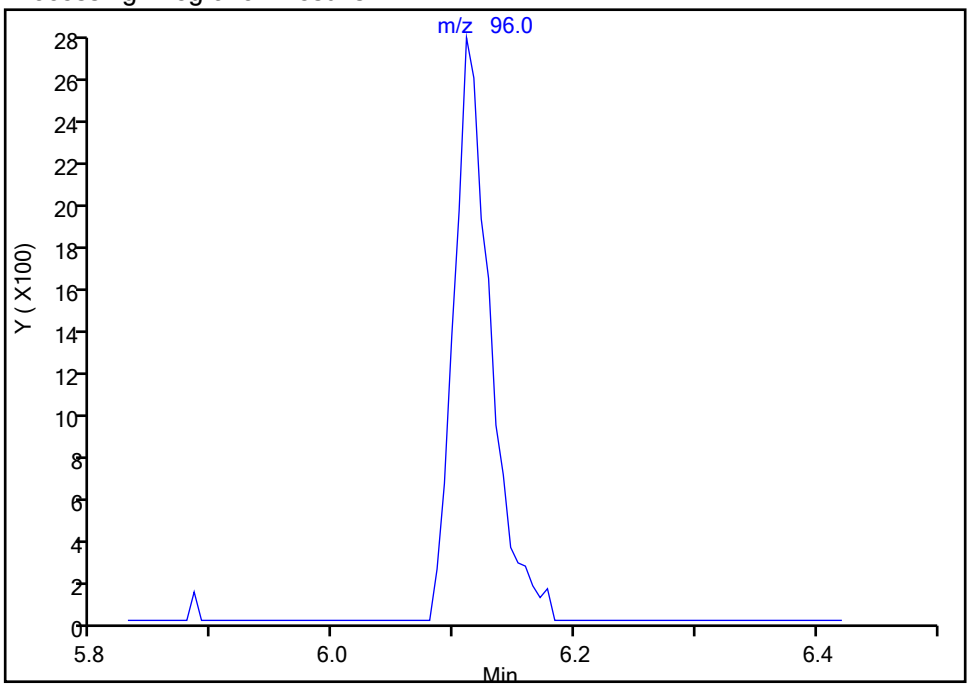
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8246.D				
Injection Date:	18-Nov-2020 13:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-14	Lab Sample ID:	310-140187-14		
Client ID:	GW-111020-BE-032				
Operator ID:	sjn	ALS Bottle#:	24	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

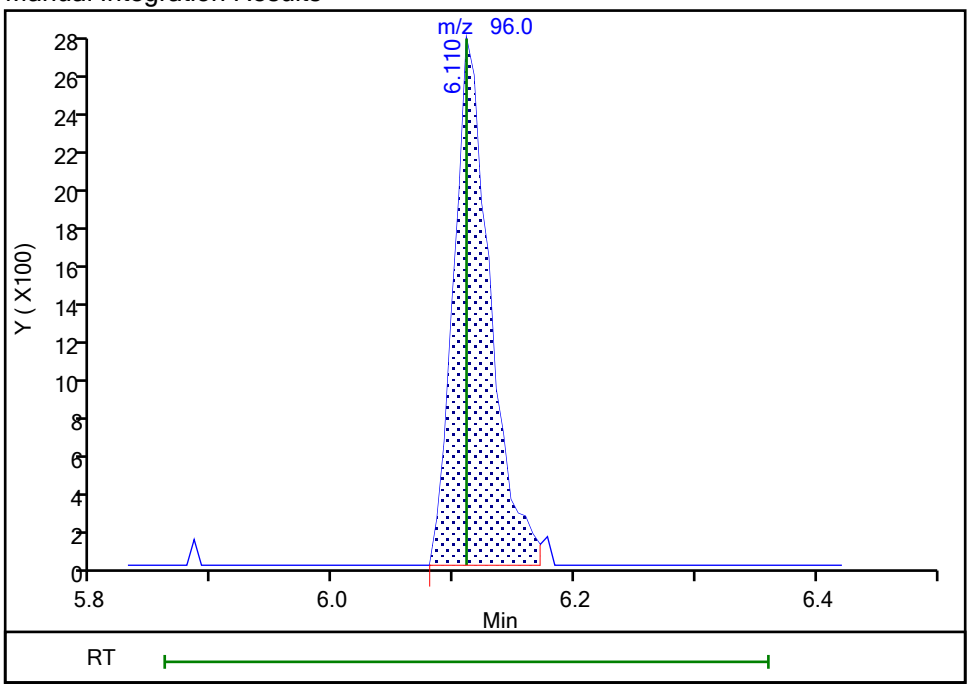
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5664
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:38:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111020-BE-032 Lab Sample ID: 240-140187-14

Matrix: Water Lab File ID: c8300.D

Analysis Method: 8260D Date Collected: 11/10/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.87	J B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8300.D
Lims ID: 240-140187-B-14
Client ID: GW-111020-BE-032
Sample Type: Client
Inject. Date: 19-Nov-2020 09:55:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-015
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:35:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.361	3.373	-0.012	0	255	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	99	165035	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	92	5339	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	117390	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	52033	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	38442	52.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	155397	51.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	90	40772	47.9	
$ 8 BFB	95	9.920	9.920	0.000	81	56296	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43	2.714	2.714	0.000	97	6618	12.4	M
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.836	2.842	-0.006	99	2751	0.5474	M
105 Isopropyl alcohol	45	2.885	2.885	0.000	39	980	12.6	M
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	82	1923	0.8678	M
40 2-Butanone (MEK)	43	4.360	4.348	0.012	82	1873	2.71	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.799	5.805	-0.006	34	236	0.1083	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92	7.110	7.116	-0.006	3	149	0.0257	a
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		0.8678	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

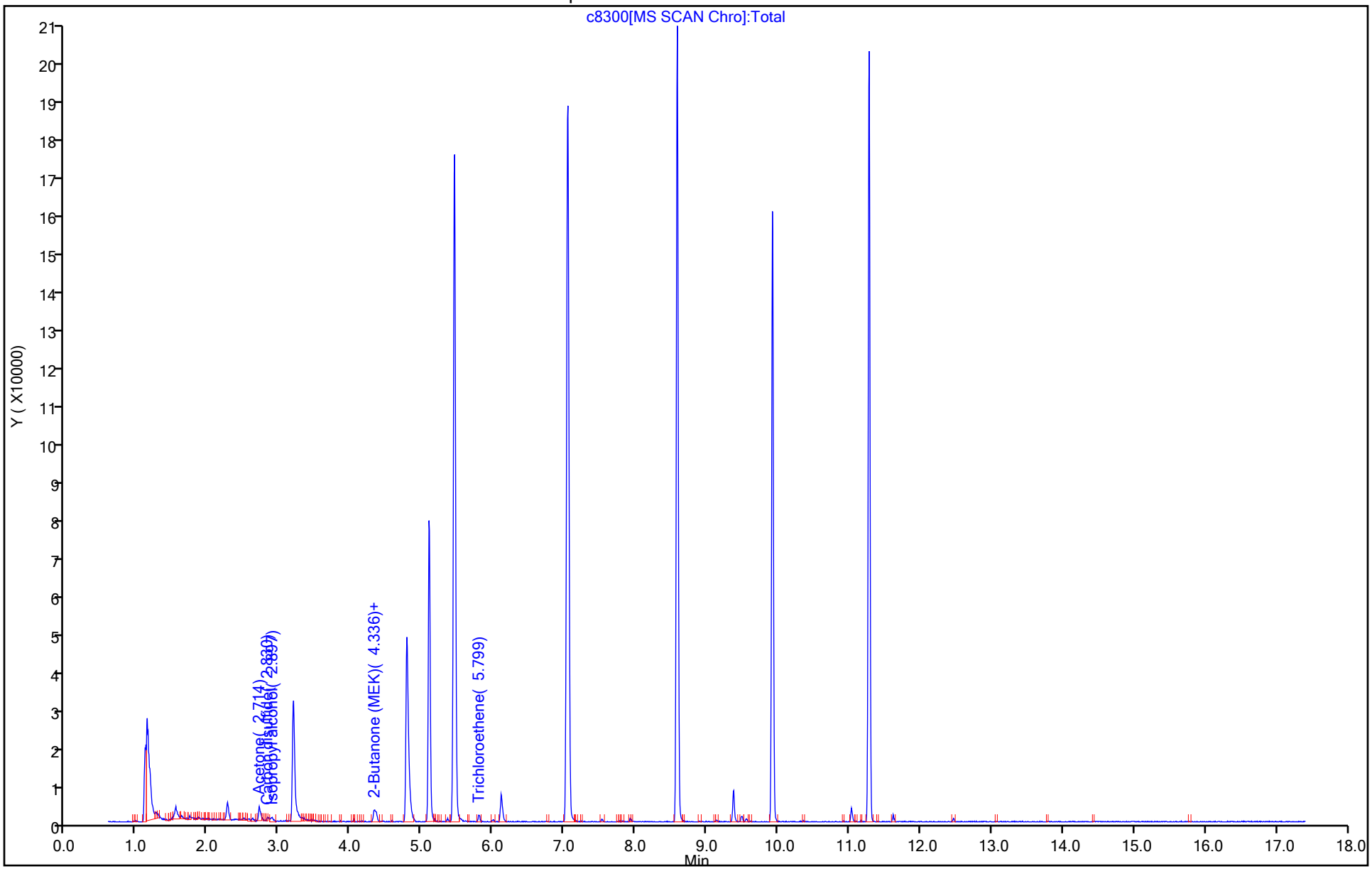
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8300.D				
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-14	Lab Sample ID:	310-140187-14	Worklist Smp#:	15
Client ID:	GW-111020-BE-032				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8300.D
Lims ID: 240-140187-B-14
Client ID: GW-111020-BE-032
Sample Type: Client
Inject. Date: 19-Nov-2020 09:55:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-015
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:35:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.0	103.95
$ 6 Toluene-d8 (Surr)	50.0	51.6	103.26
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.79

Report Date: 20-Nov-2020 12:14:51 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8300.D

Injection Date: 19-Nov-2020 09:55:30 Instrument ID: Calvin

Lims ID: 240-140187-B-14 Lab Sample ID: 310-140187-14

Client ID: GW-111020-BE-032

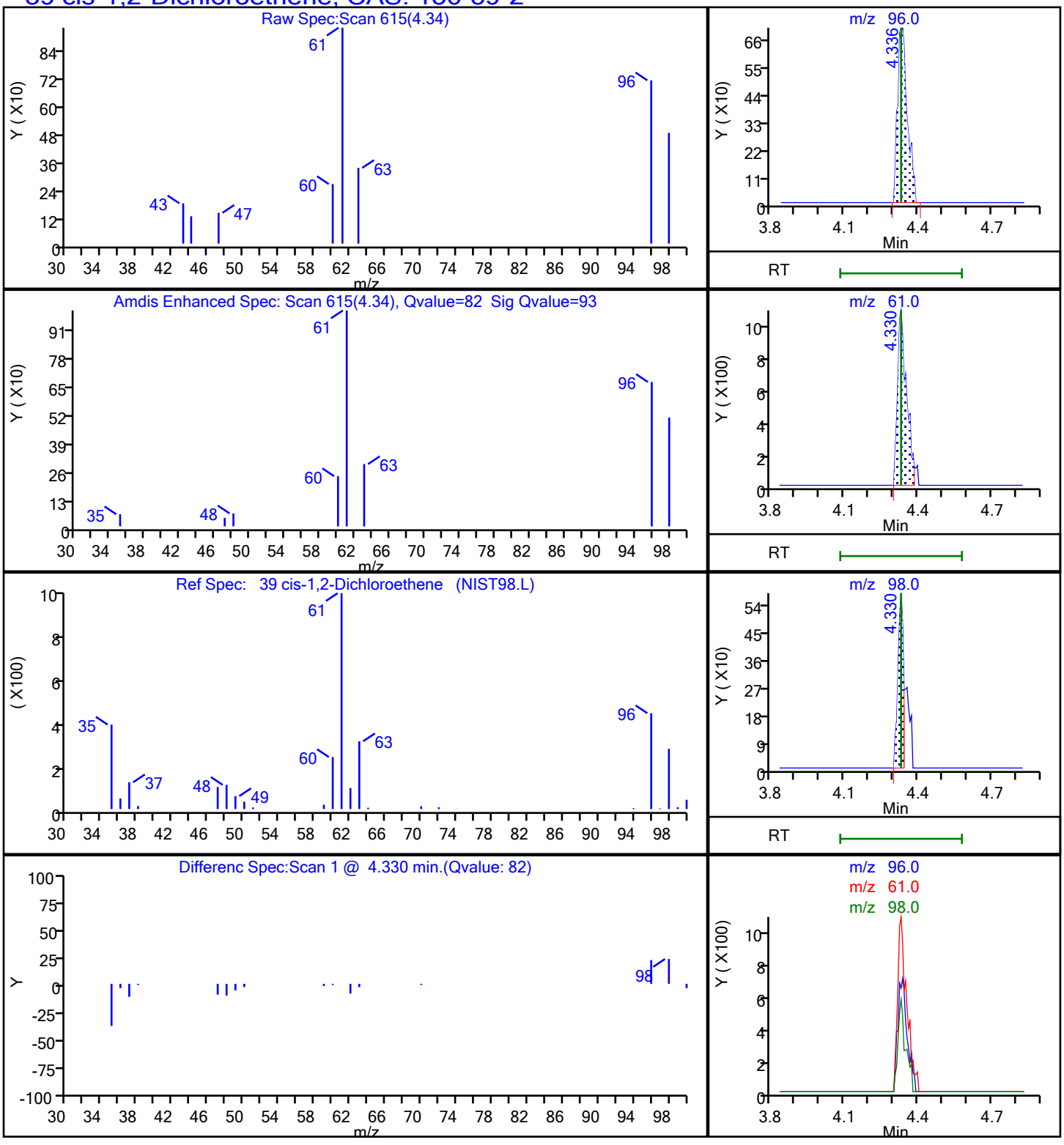
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 15

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

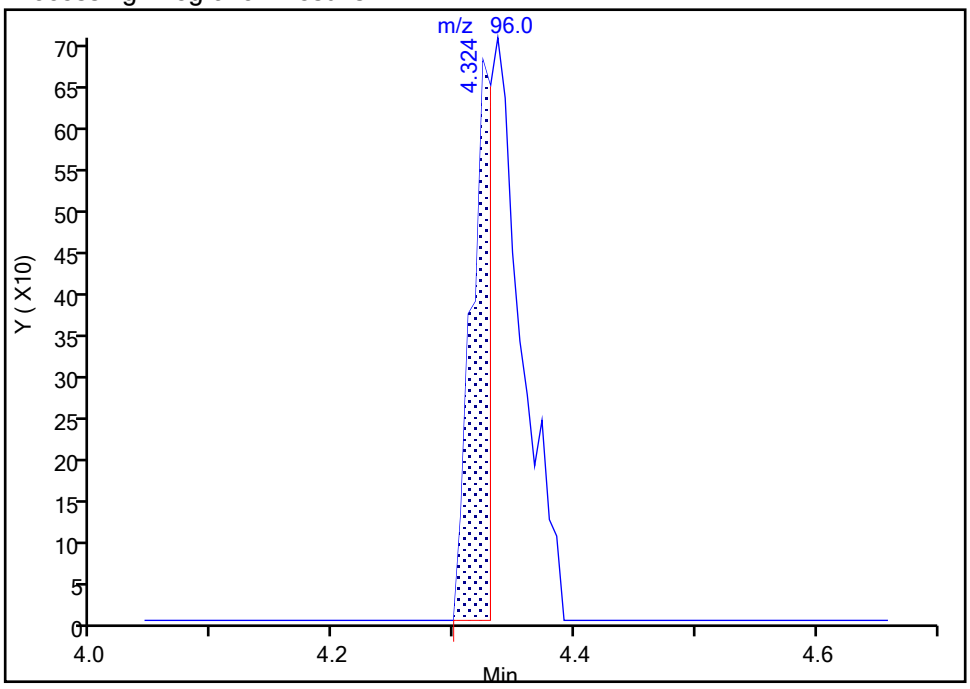
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8300.D				
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-14	Lab Sample ID:	310-140187-14		
Client ID:	GW-111020-BE-032				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

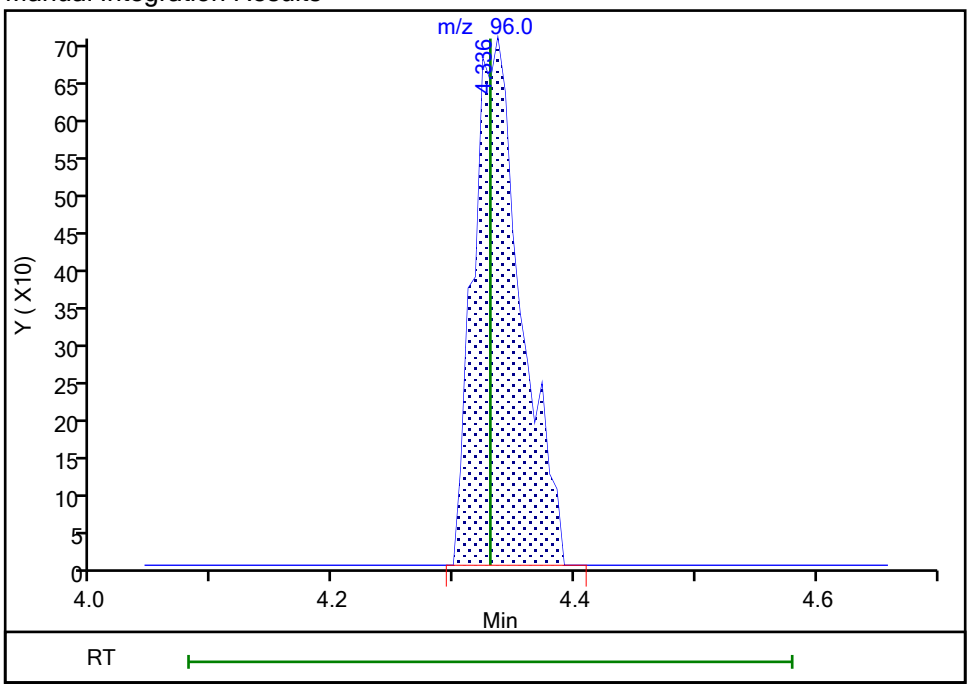
Processing Integration Results

RT: 4.32
Area: 809
Amount: 0.365090
Amount Units: ug/l



Manual Integration Results

RT: 4.34
Area: 1923
Amount: 0.867823
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:35:07

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

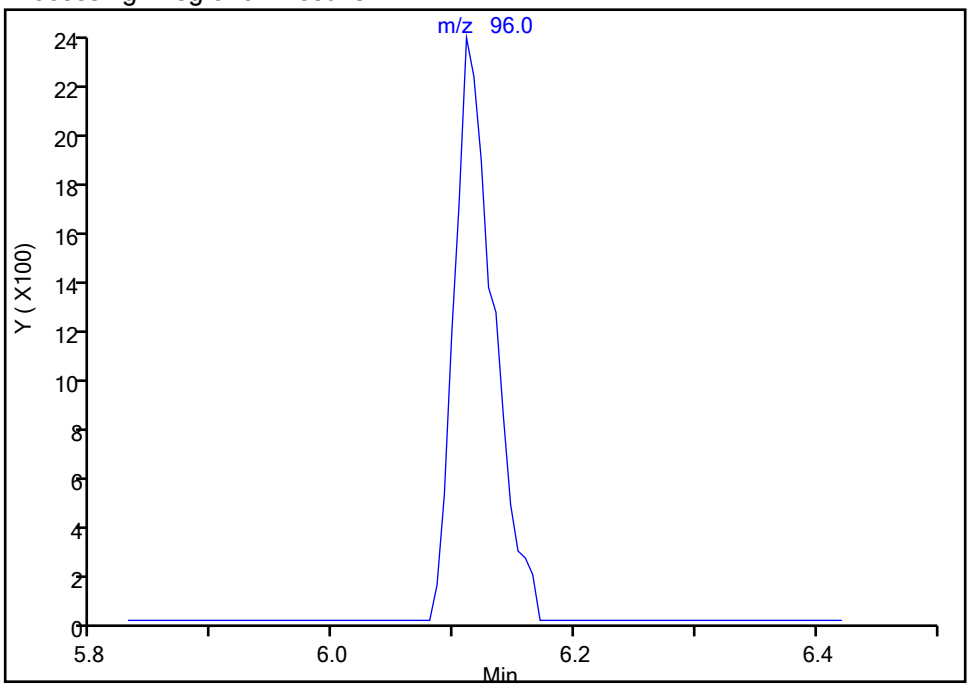
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8300.D				
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-14	Lab Sample ID:	310-140187-14		
Client ID:	GW-111020-BE-032				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

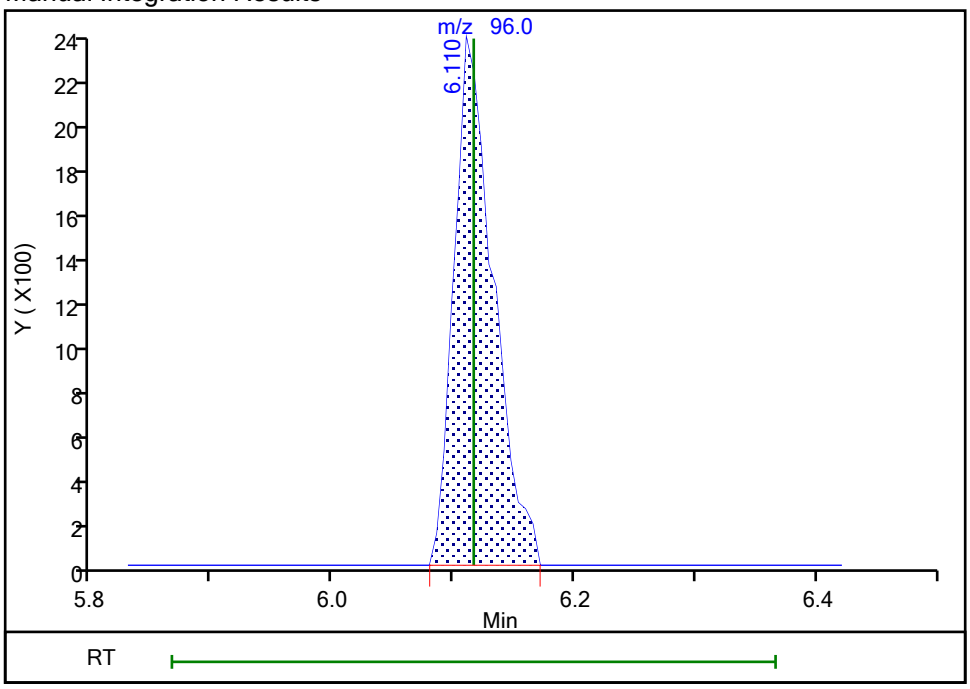
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5339
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:34:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111020-BE-033 Lab Sample ID: 240-140187-15

Matrix: Water Lab File ID: c8247.D

Analysis Method: 8260D Date Collected: 11/10/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.46	J	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	22		1.0	0.22
75-35-4	1,1-Dichloroethene	47		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.31	J	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	1.8	J	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	81		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	19		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111020-BE-033 Lab Sample ID: 240-140187-15

Matrix: Water Lab File ID: c8247.D

Analysis Method: 8260D Date Collected: 11/10/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 13:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	110		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D
Lims ID: 240-140187-A-15
Client ID: GW-111020-BE-033
Sample Type: Client
Inject. Date: 18-Nov-2020 13:26:30 ALS Bottle#: 25 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-023
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 14:41:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.336	3.385	-0.049	0	686	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	192087	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	93	6117	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	134598	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	61019	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.799	4.793	0.006	92	47319	55.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	178948	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.920	0.007	86	47651	47.7	
$ 8 BFB	95	9.920	9.920	0.000	79	65293	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	67391	19.0	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	1	422	0.0861	M
16 Trichlorofluoromethane	101	2.178	2.166	0.012	33	718	0.1534	M
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.666	2.660	0.006	94	93446	47.3	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.836	2.843	-0.007	68	1499	0.2562	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.397	3.391	0.006	94	183607	81.5	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.781	0.006	98	91652	21.7	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	82	17628169	6835.0	E
40 2-Butanone (MEK)	43	4.336	4.348	-0.012	21	92	0.1143	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.641	4.641	0.000	95	8148	1.84	
46 1,1,1-Trichloroethane	97	4.806	4.806	0.000	37	1662	0.4586	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.171	5.177	-0.006	93	3074	0.3097	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95	5.811	5.805	0.006	5	343	0.1352	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		6916.4	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

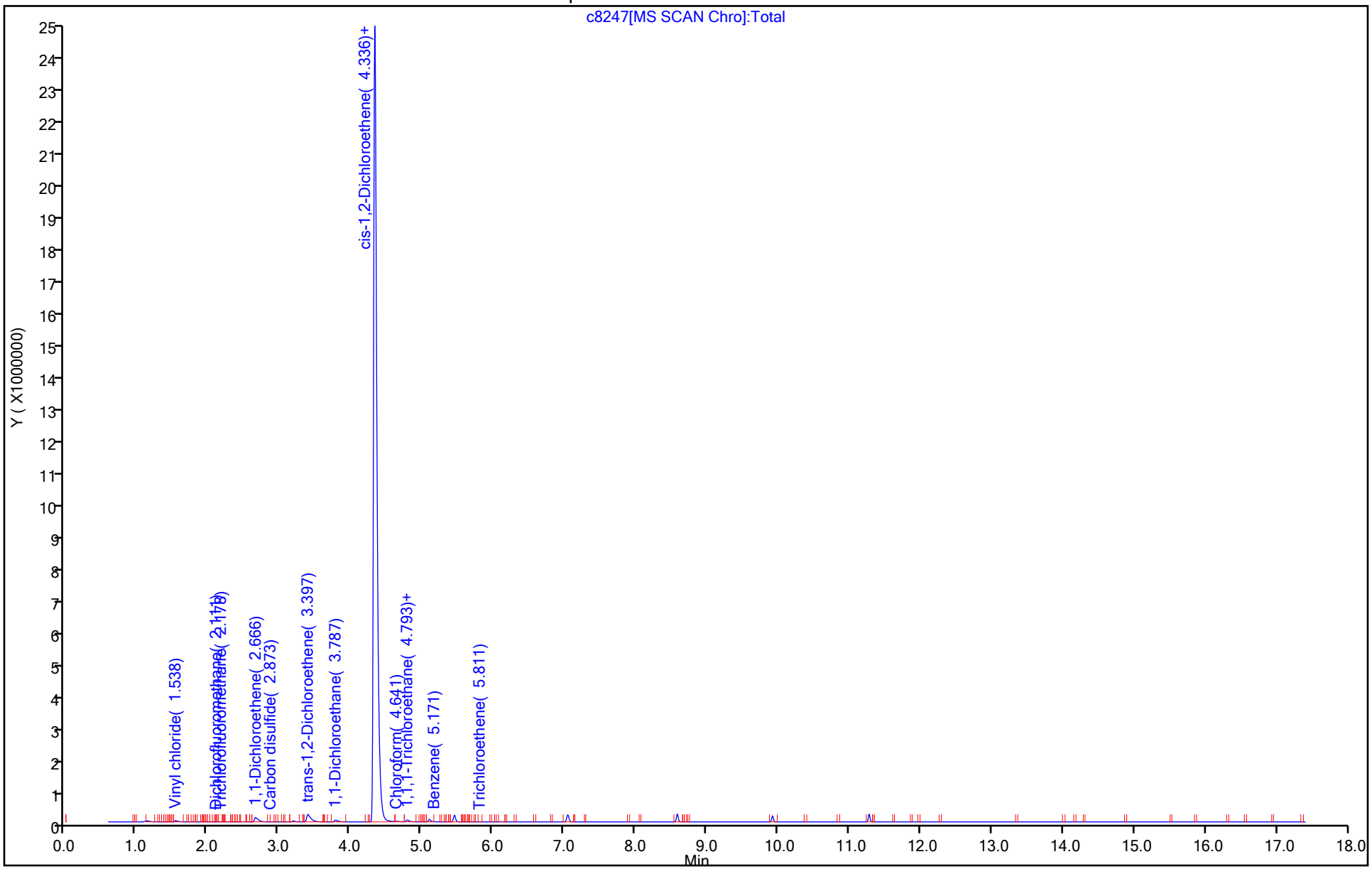
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15	Worklist Smp#:	23
Client ID:	GW-111020-BE-033				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D
Lims ID: 240-140187-A-15
Client ID: GW-111020-BE-033
Sample Type: Client
Inject. Date: 18-Nov-2020 13:26:30 ALS Bottle#: 25 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-023
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 14:41:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	55.0	109.93
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.71
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.7	95.47

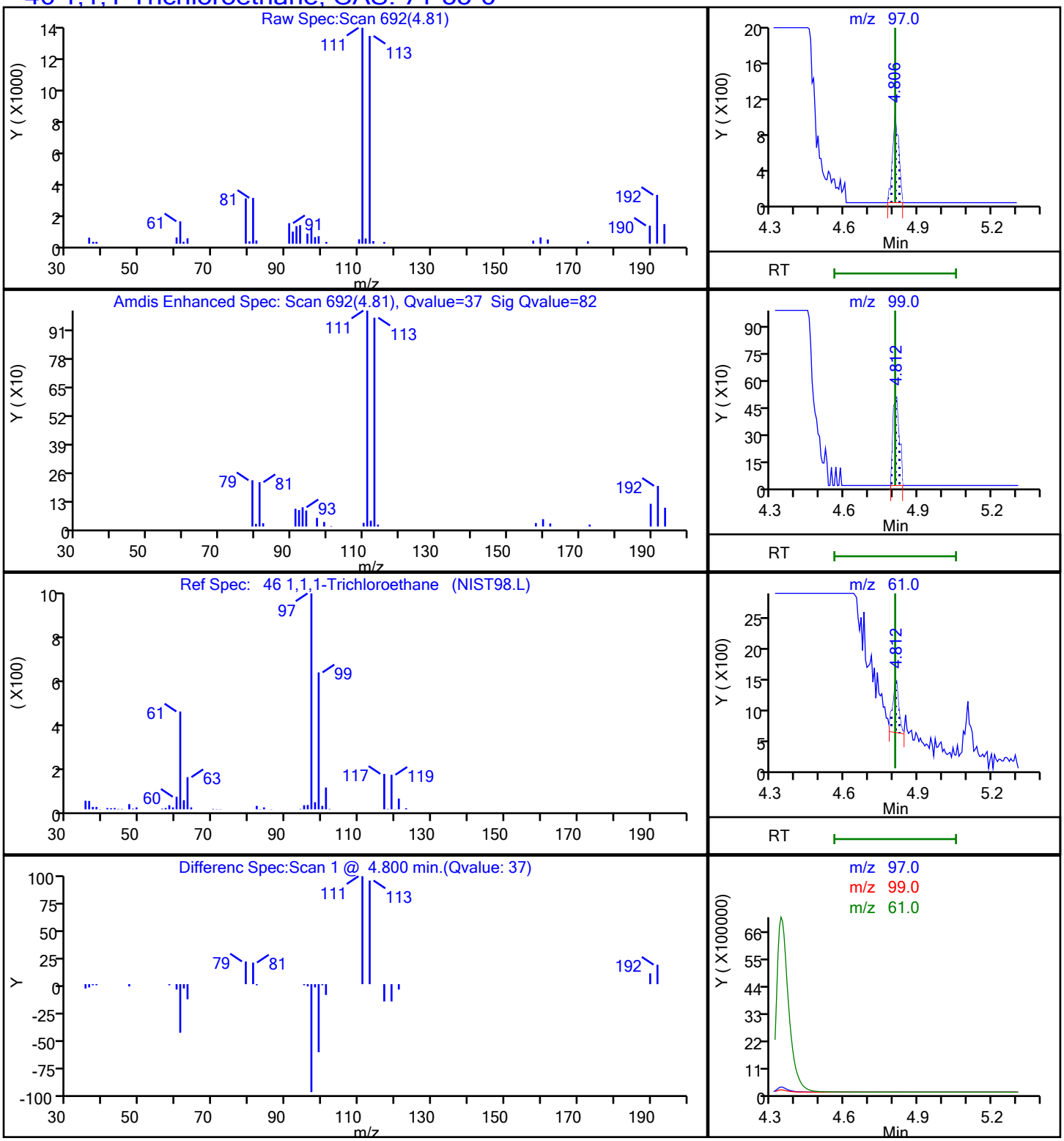
Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D

Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

46 1,1,1-Trichloroethane, CAS: 71-55-6

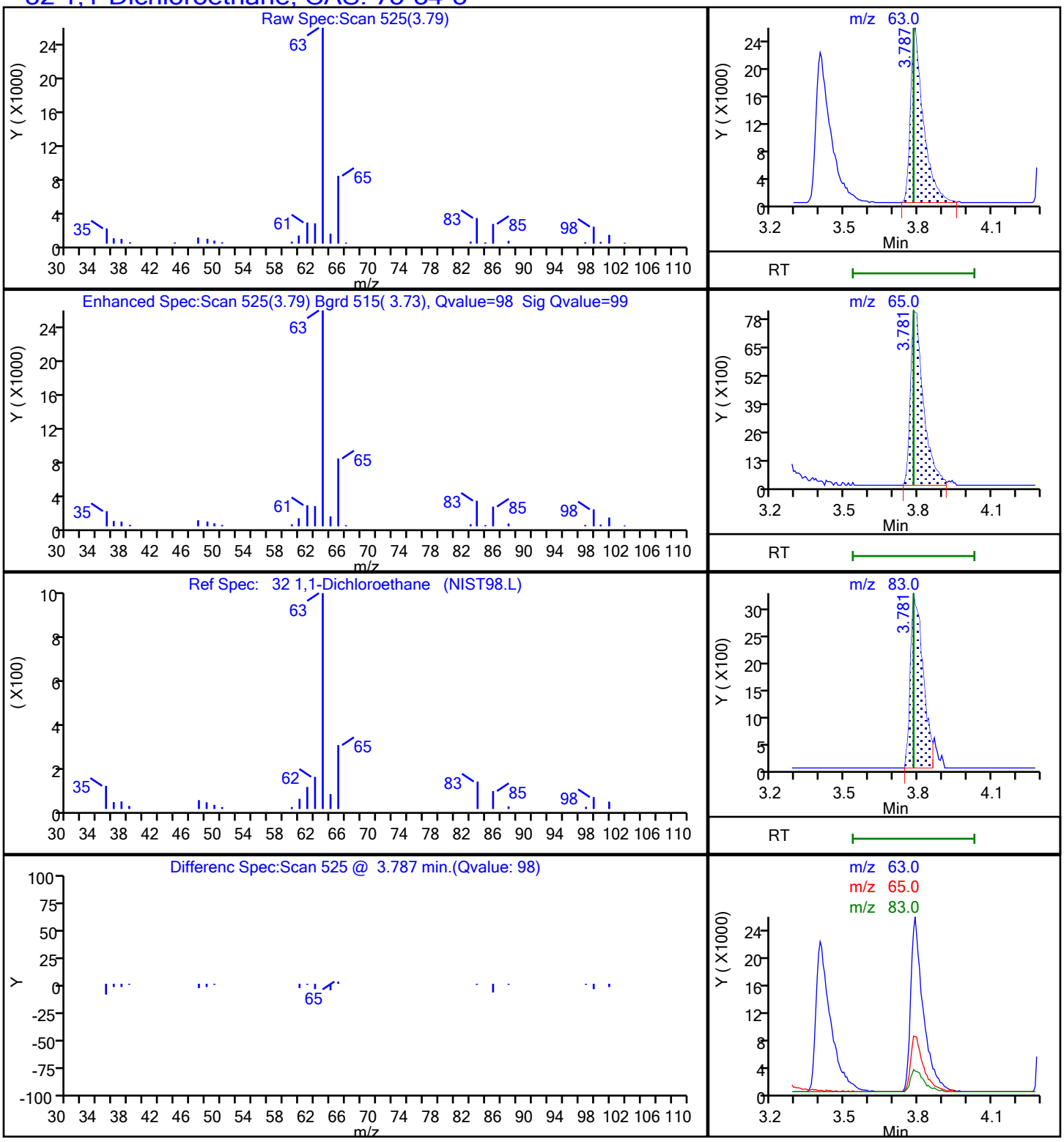


Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

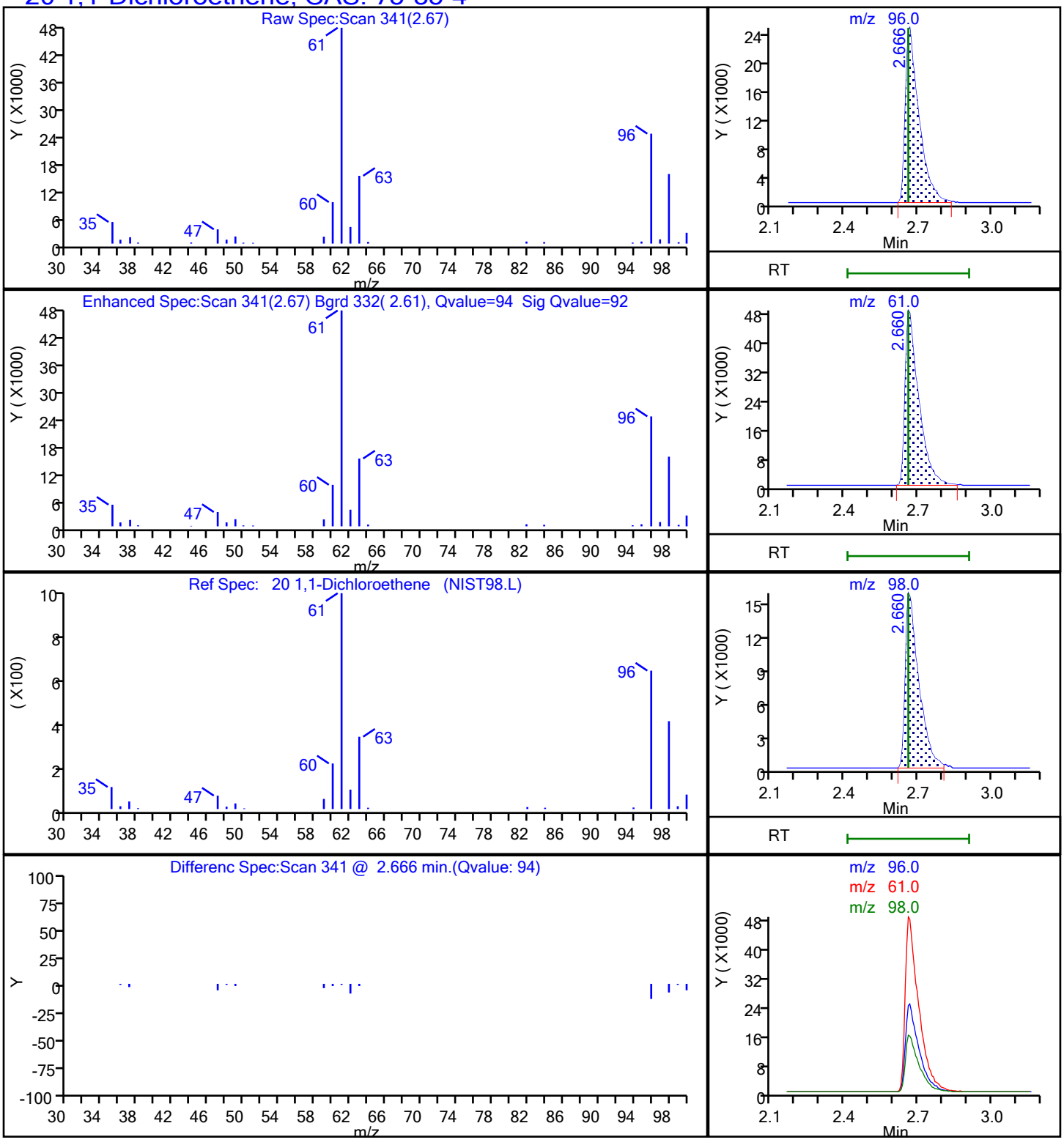


Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

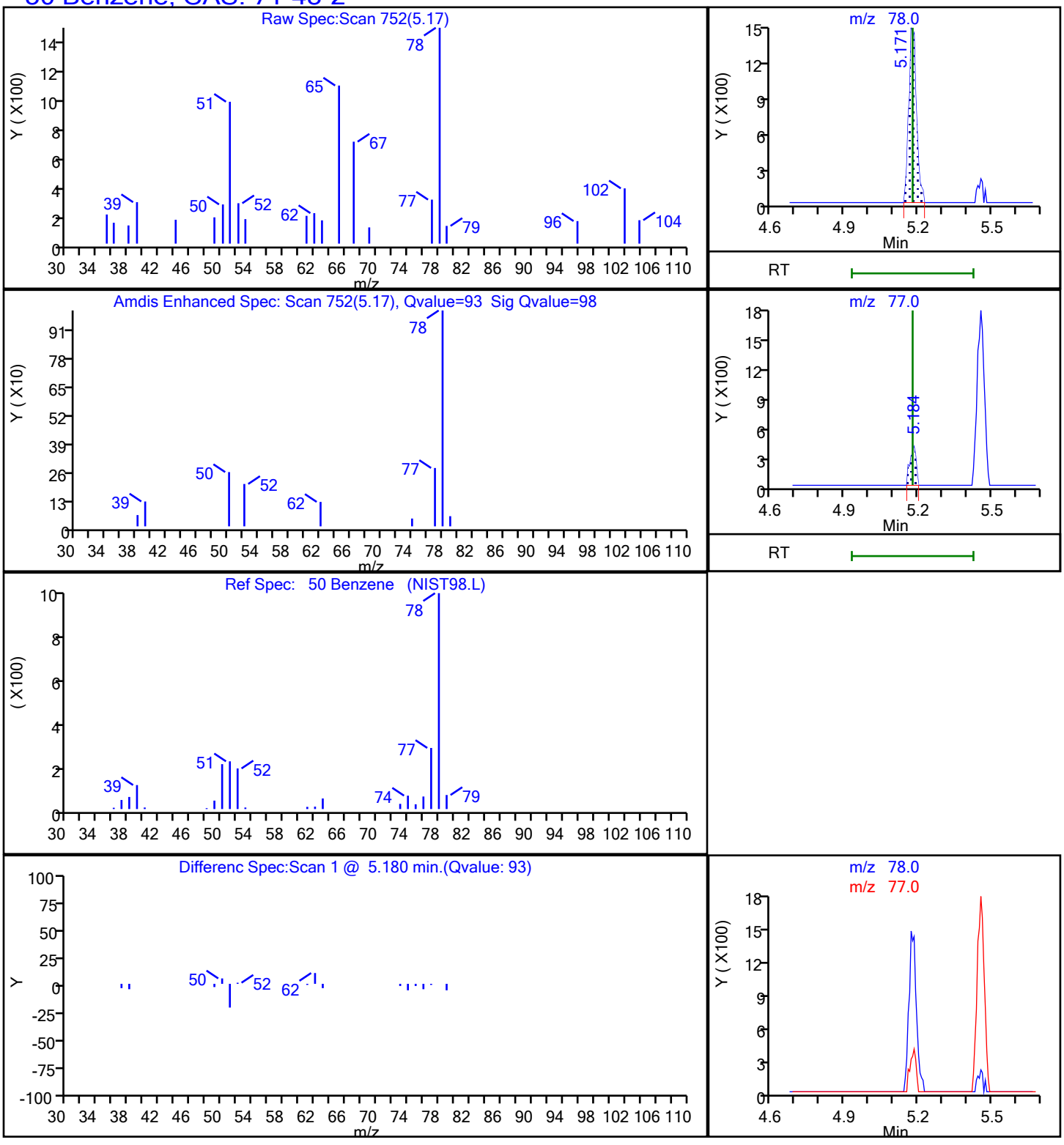


Report Date: 19-Nov-2020 06:54:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

50 Benzene, CAS: 71-43-2

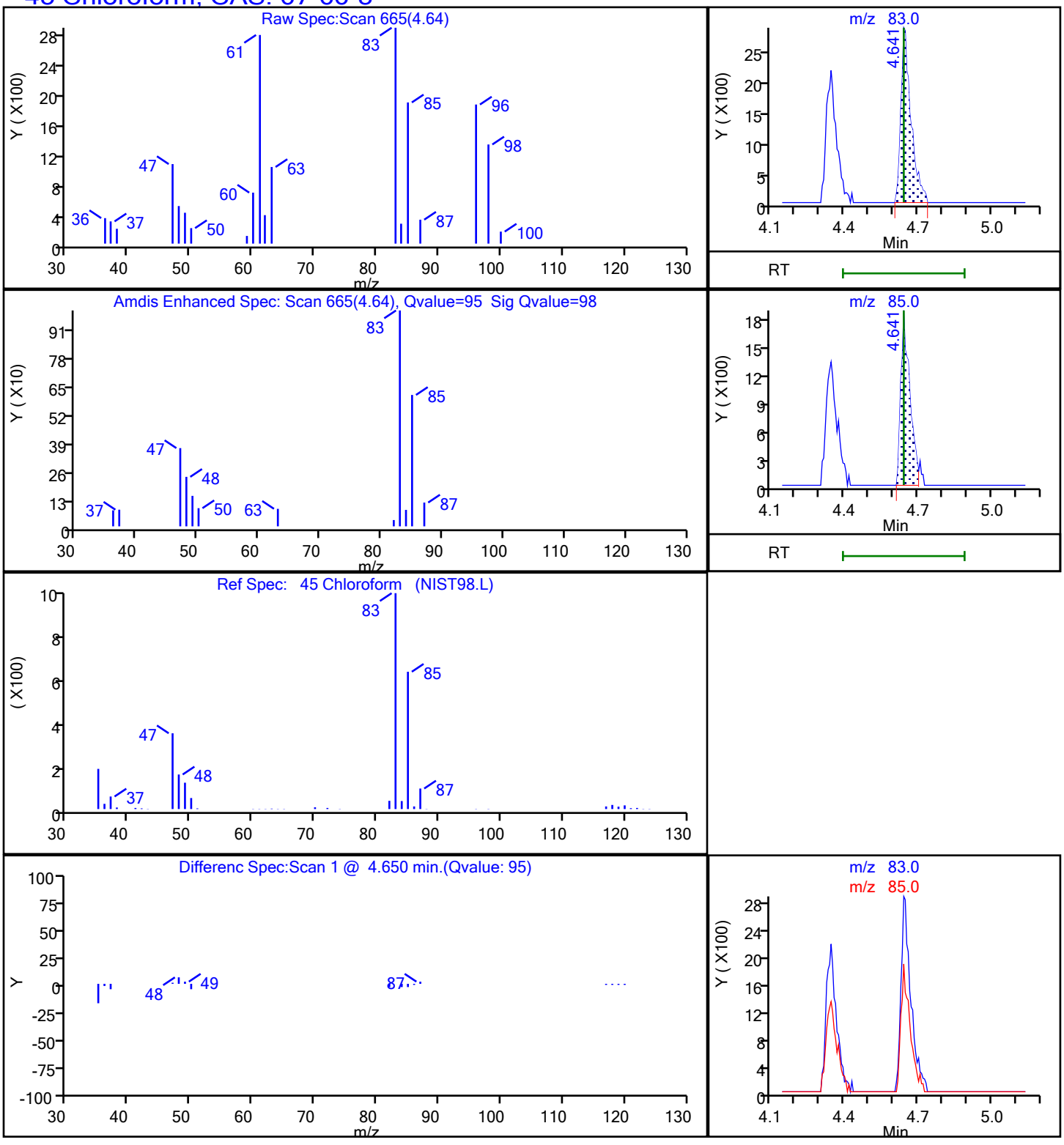


Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

45 Chloroform, CAS: 67-66-3

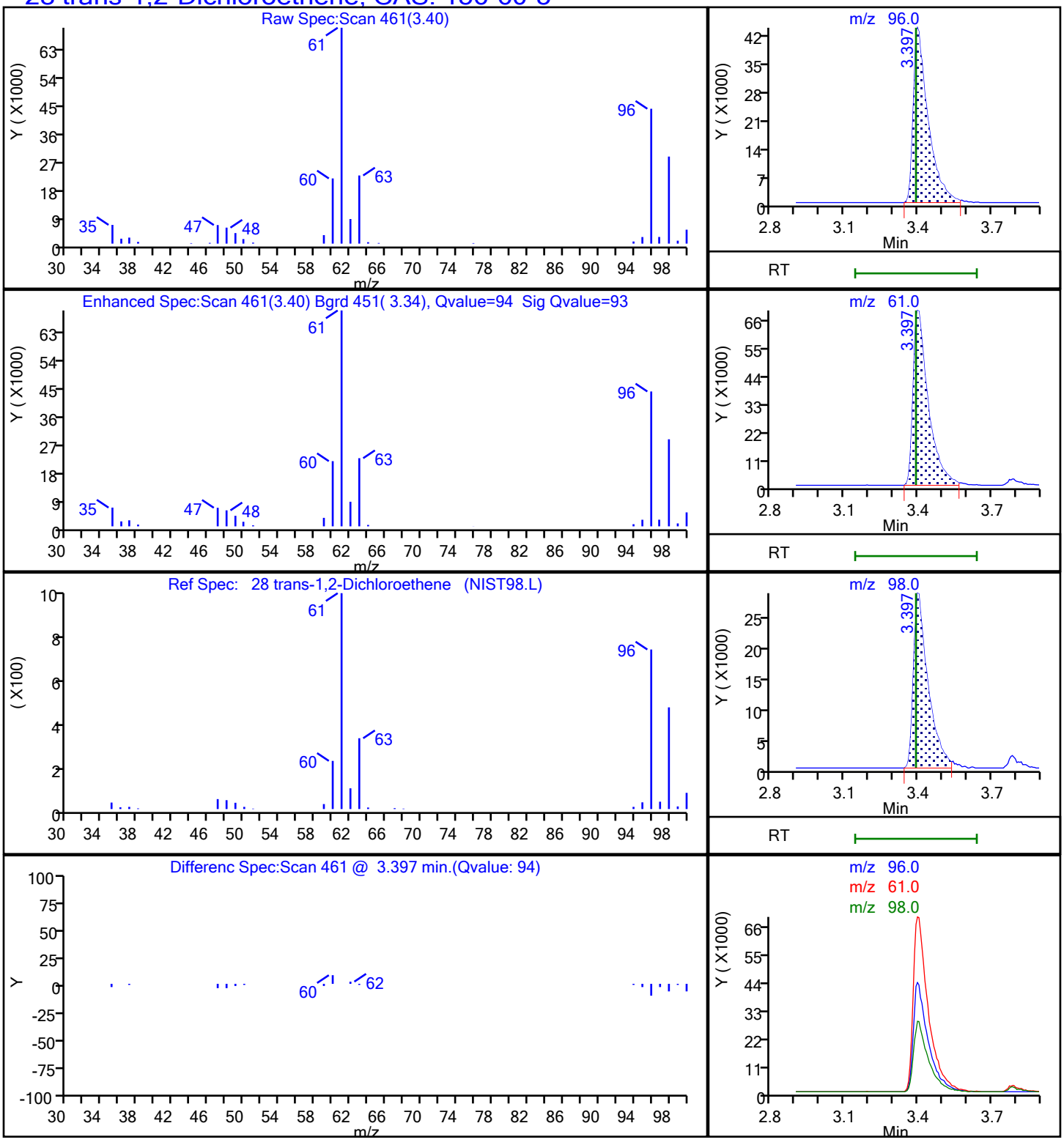


Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

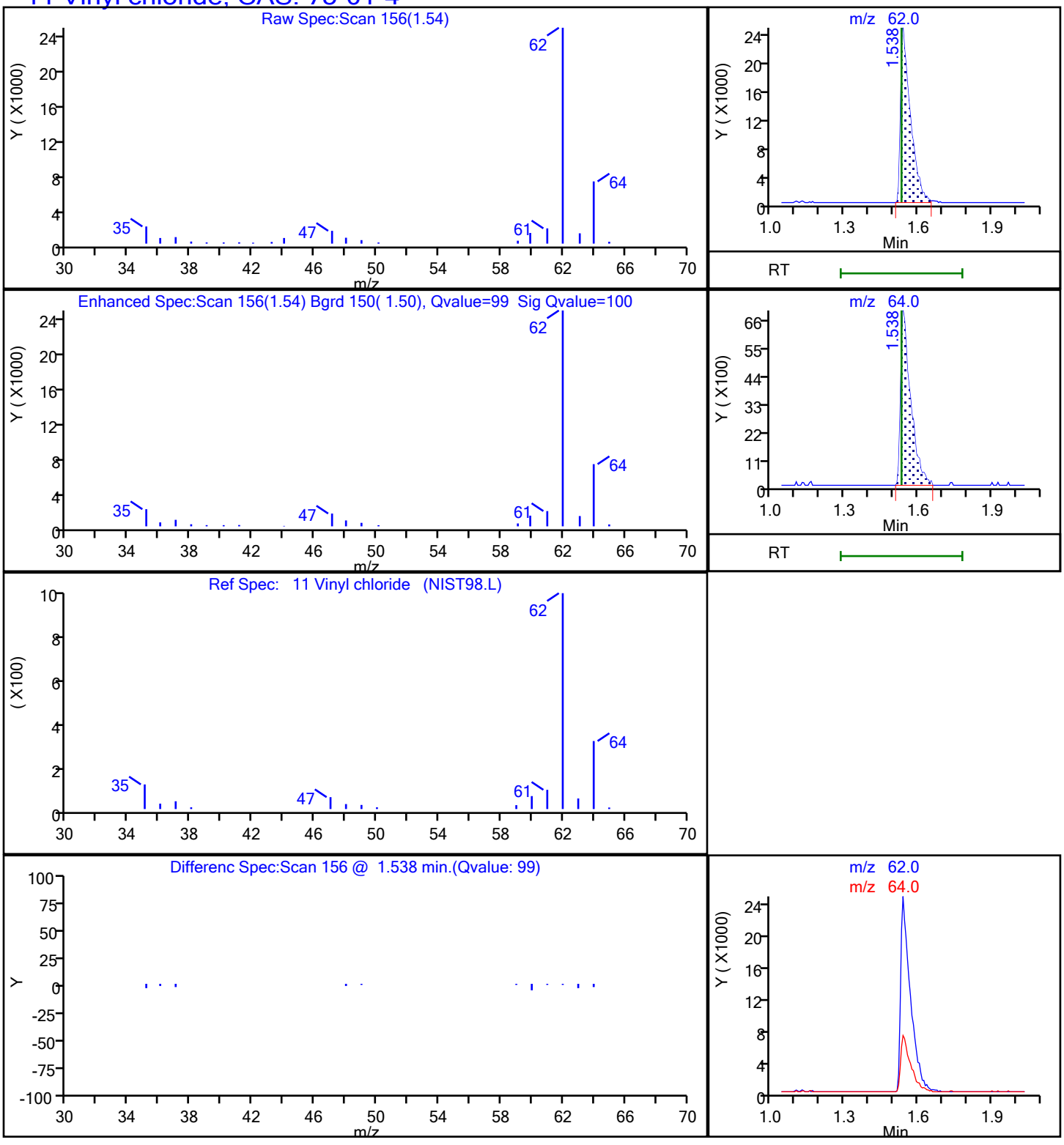


Report Date: 19-Nov-2020 06:54:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

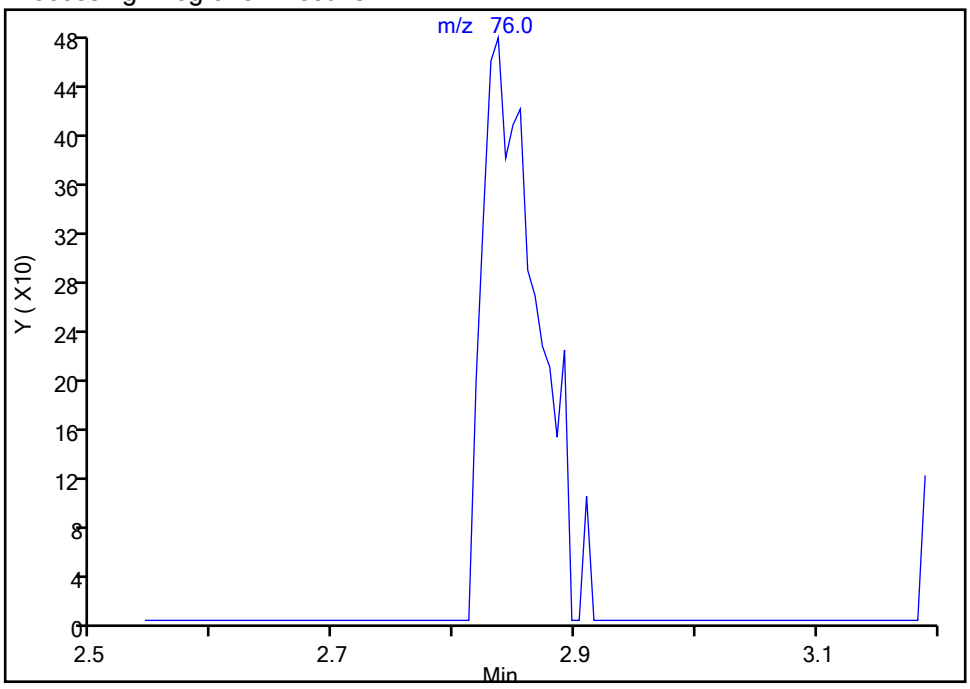
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

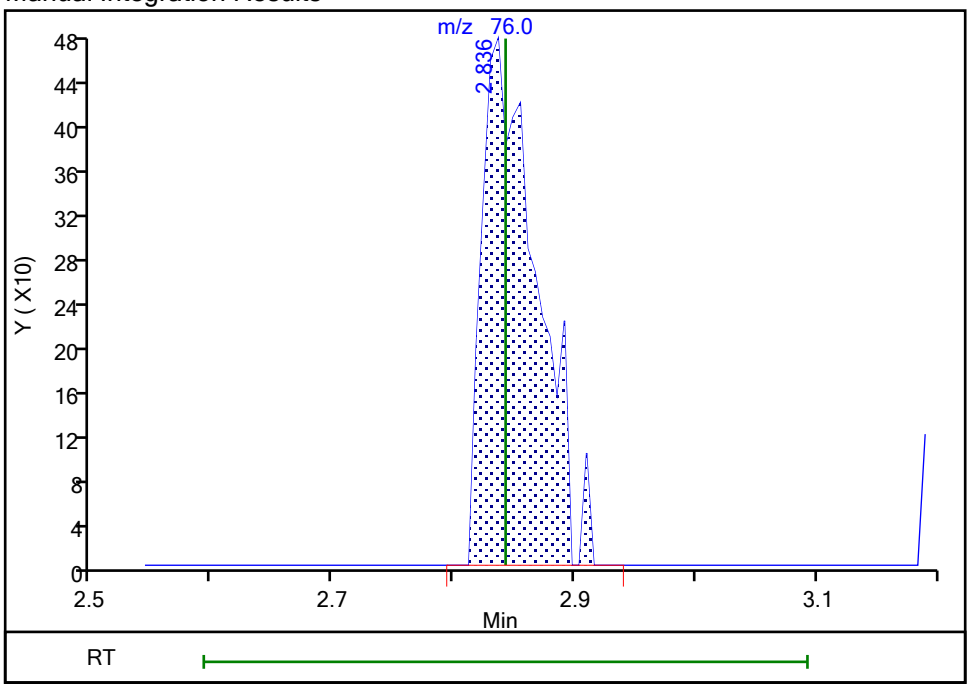
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 1499
Amount: 0.256248
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:41:12
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

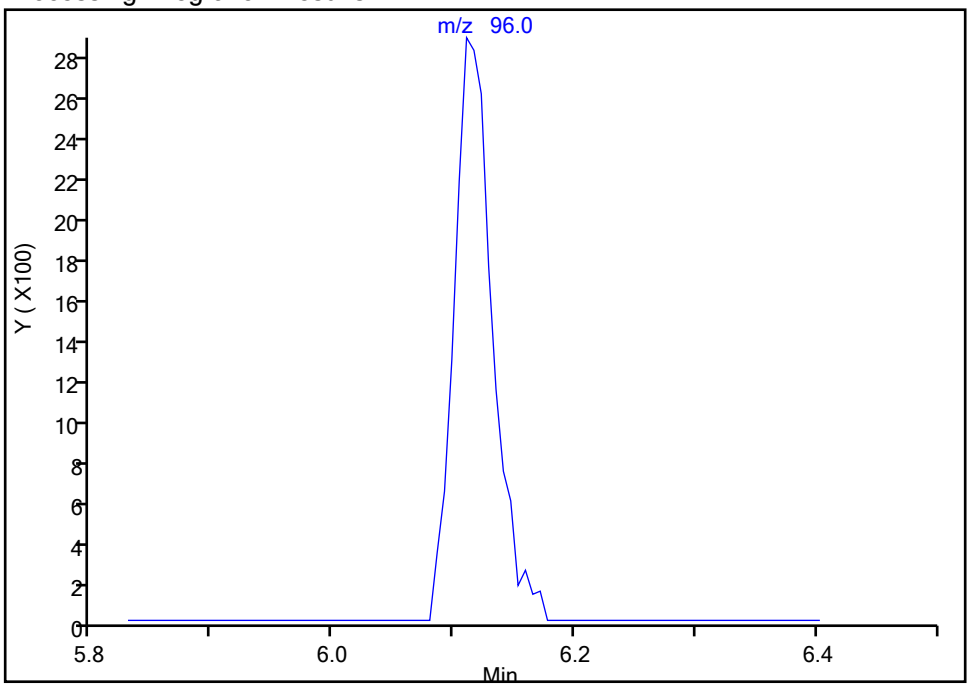
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8247.D				
Injection Date:	18-Nov-2020 13:26:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	25	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

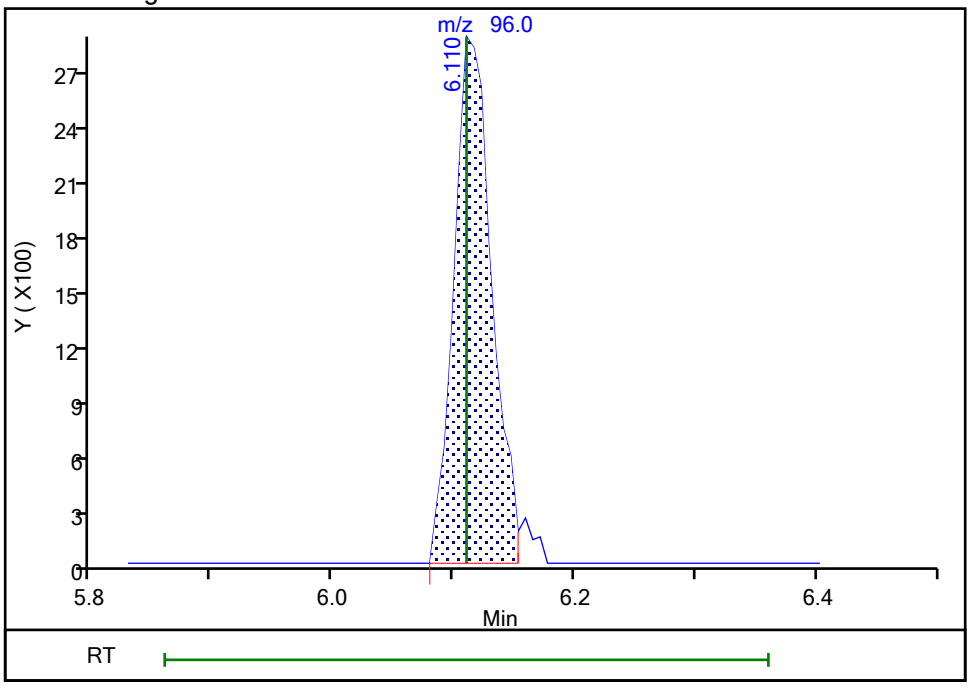
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6117
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:41:52
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111020-BE-033 Lab Sample ID: 240-140187-15

Matrix: Water Lab File ID: c8313.D

Analysis Method: 8260D Date Collected: 11/10/2020 09:53

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 15:14

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	5600	B	50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8313.D
Lims ID: 240-140187-B-15
Client ID: GW-111020-BE-033
Sample Type: Client
Inject. Date: 19-Nov-2020 15:14:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-028
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:10:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.373	0.006	0	193	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	181200	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	95	5523	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	126276	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	97	56576	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	42451	52.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168176	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	44285	47.8	
$ 8 BFB	95	9.920	9.920	0.000	81	60154	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	15	988	0.2959	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.653	2.659	-0.006	92	1032	0.5537	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.824	2.842	-0.018	94	434	0.0786	a
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	87	419	0.1899	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.379	3.391	-0.012	93	2587	1.22	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	84	274584	112.9	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.641	4.641	0.000	91	975	0.2338	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106	8.878	8.890	-0.012	1	0	0	a
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		114.1	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

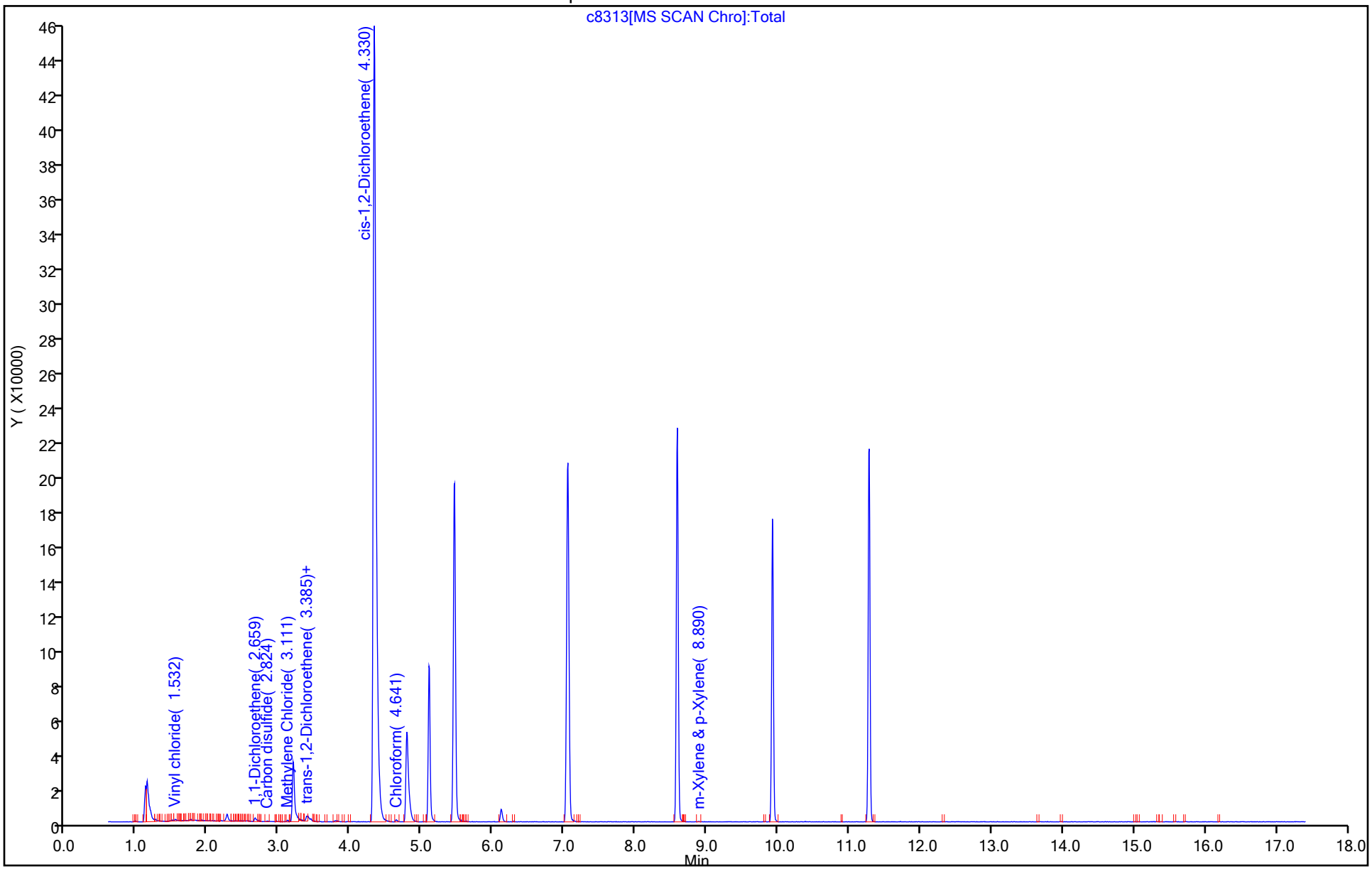
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:15:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8313.D				
Injection Date:	19-Nov-2020 15:14:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-15	Lab Sample ID:	310-140187-15	Worklist Smp#:	28
Client ID:	GW-111020-BE-033				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	28
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8313.D
Lims ID: 240-140187-B-15
Client ID: GW-111020-BE-033
Sample Type: Client
Inject. Date: 19-Nov-2020 15:14:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-028
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:10:17

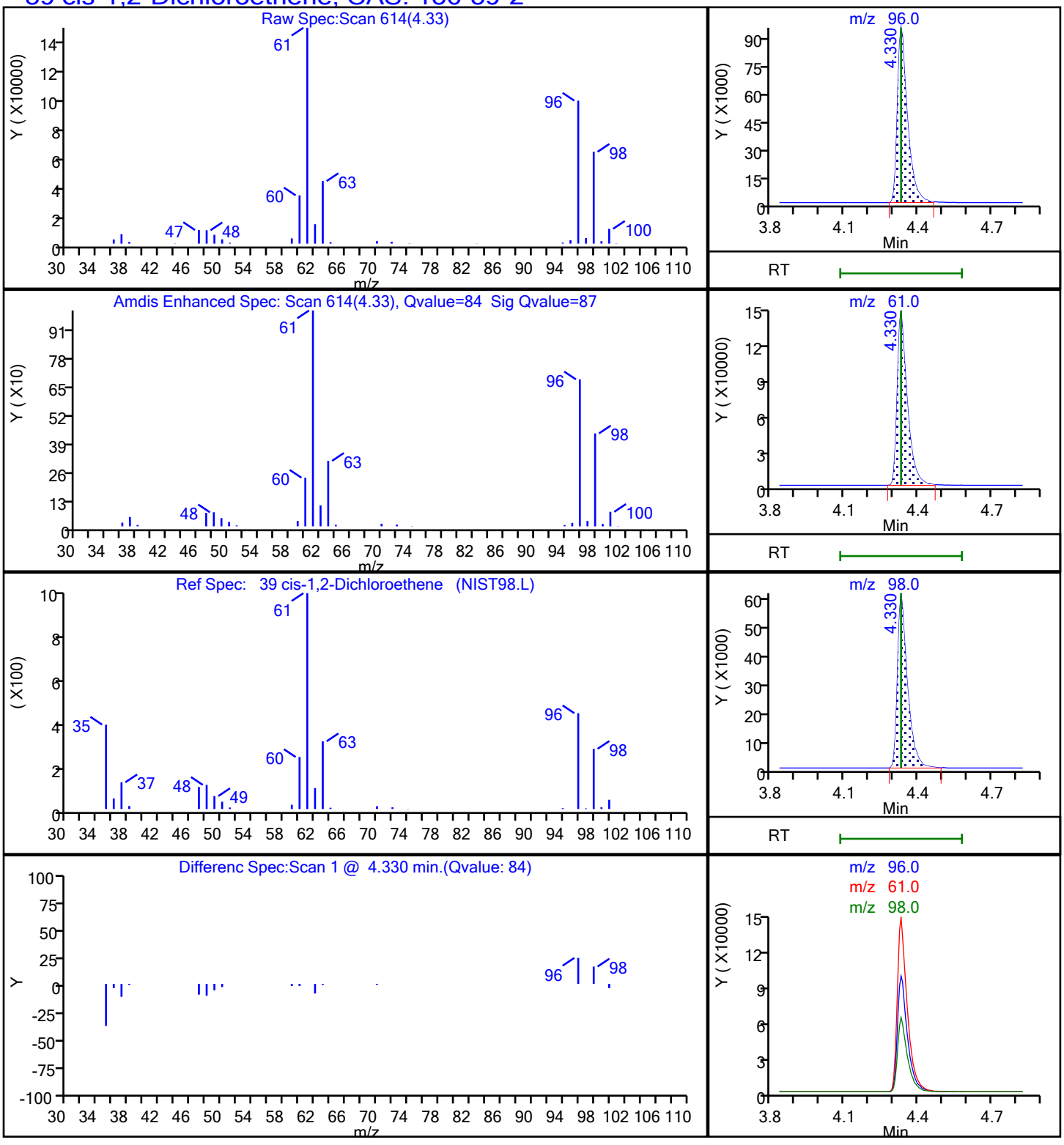
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.3	5227.26
$ 6 Toluene-d8 (Surr)	50.0	51.9	5194.52
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.8	4784.52

Report Date: 20-Nov-2020 12:15:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8313.D				
Injection Date:	19-Nov-2020 15:14:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

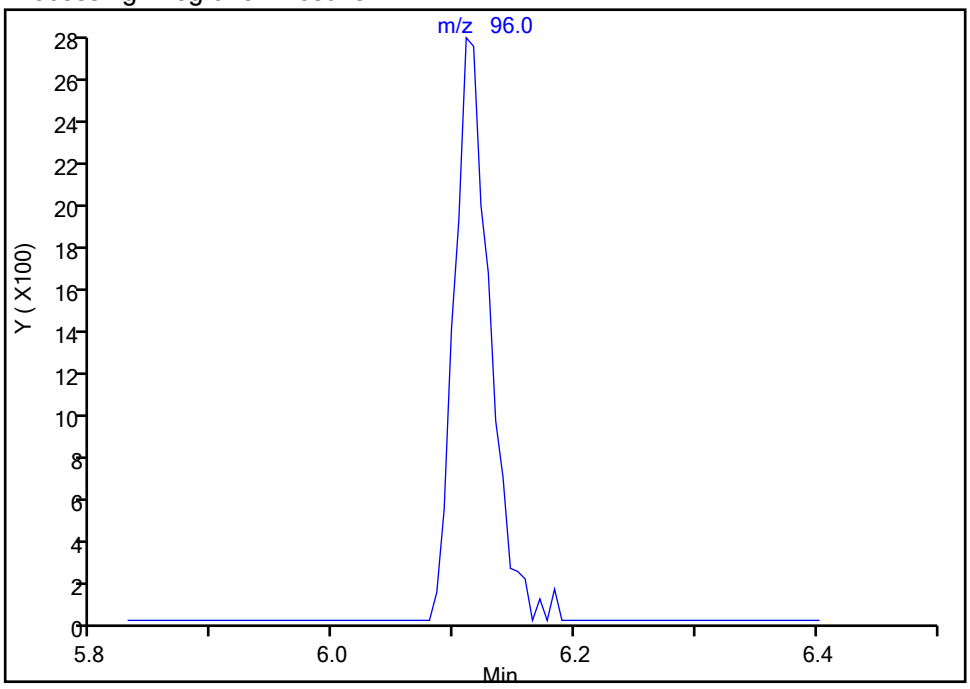
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8313.D				
Injection Date:	19-Nov-2020 15:14:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-15	Lab Sample ID:	310-140187-15		
Client ID:	GW-111020-BE-033				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

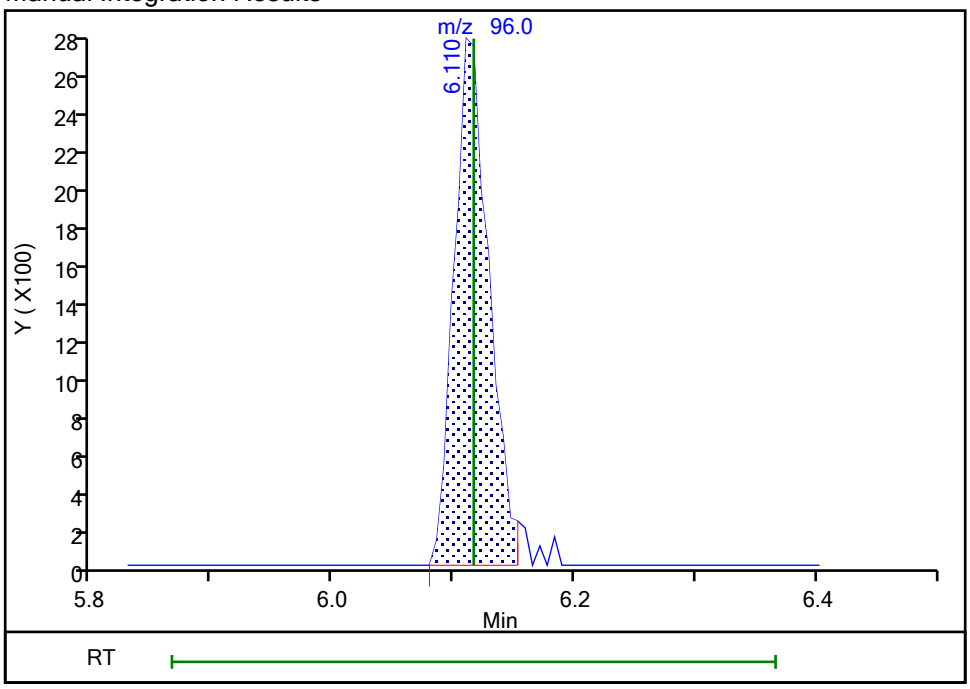
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5523
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 12:10:08
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-034 Lab Sample ID: 240-140187-16

Matrix: Water Lab File ID: c8301.D

Analysis Method: 8260D Date Collected: 11/11/2020 09:19

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8301.D
Lims ID: 240-140187-B-16
Client ID: GW-111120-BE-034
Sample Type: Client
Inject. Date: 19-Nov-2020 10:19:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-016
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:37:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.324	3.373	-0.049	0	177	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	164822	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	96	5272	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	119087	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	97	53775	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	38129	51.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	155281	50.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	84	41705	47.4	
$ 8 BFB	95	9.920	9.920	0.000	82	56259	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	98	50269	16.6	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.836	2.842	-0.006	61	1779	0.3544	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	1	442	0.1997	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		0.1997	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

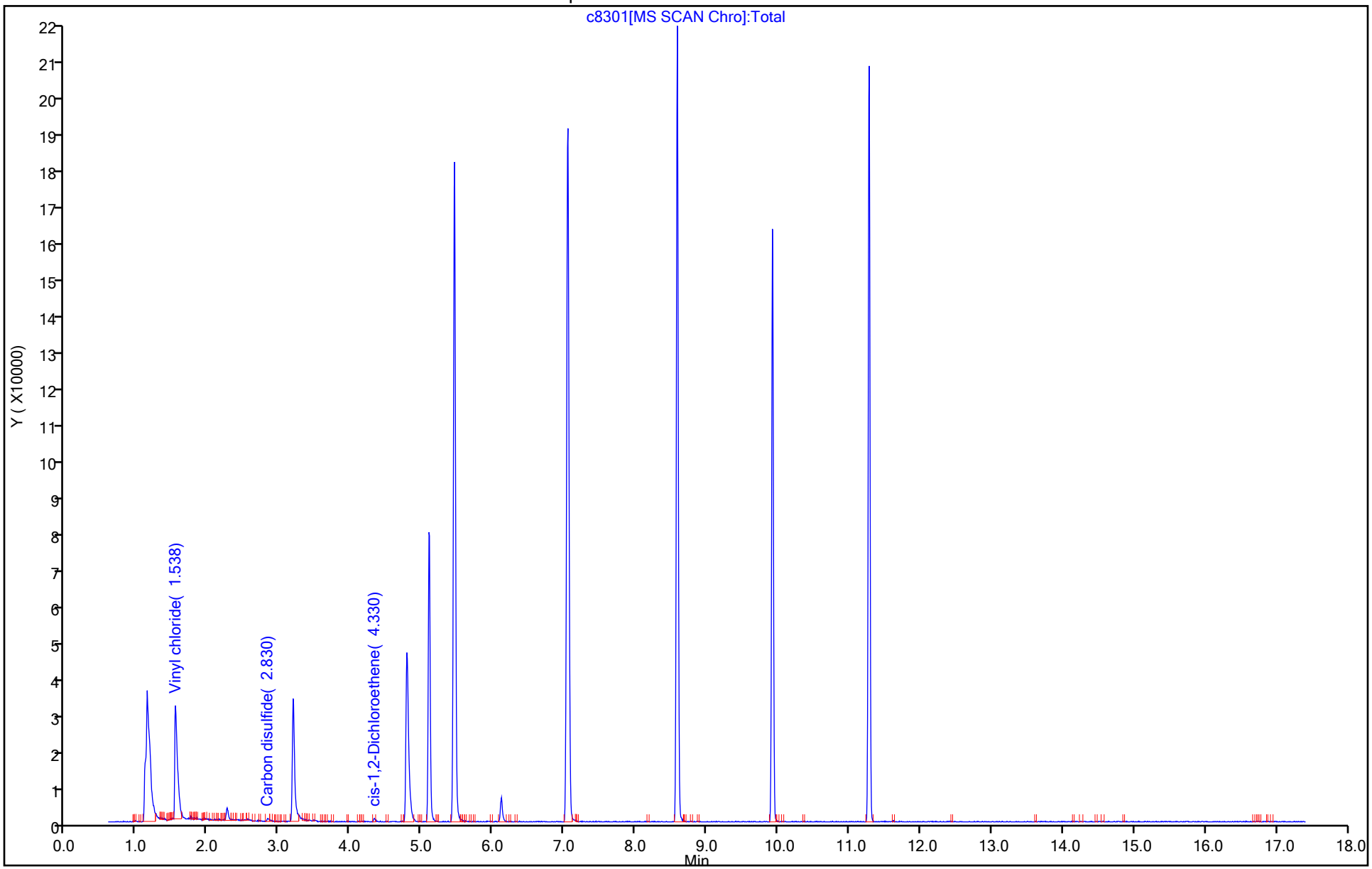
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8301.D				
Injection Date:	19-Nov-2020 10:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-16	Lab Sample ID:	310-140187-16	Worklist Smp#:	16
Client ID:	GW-111120-BE-034				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8301.D
Lims ID: 240-140187-B-16
Client ID: GW-111120-BE-034
Sample Type: Client
Inject. Date: 19-Nov-2020 10:19:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-016
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:37:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.6	103.23
$ 6 Toluene-d8 (Surr)	50.0	50.9	101.72
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.4	94.81

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

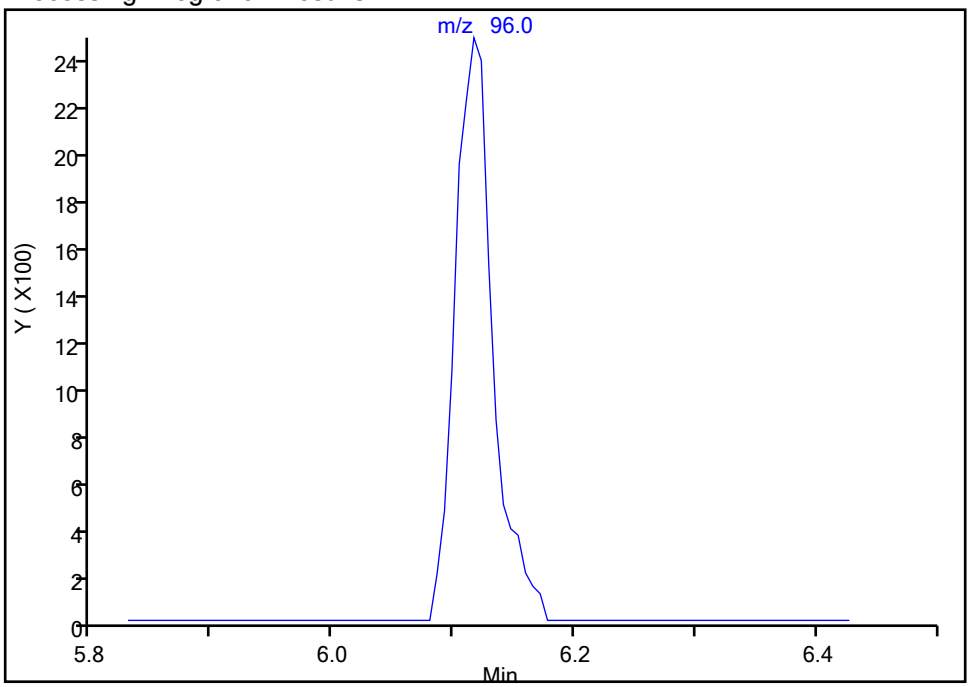
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8301.D				
Injection Date:	19-Nov-2020 10:19:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-16	Lab Sample ID:	310-140187-16		
Client ID:	GW-111120-BE-034				
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

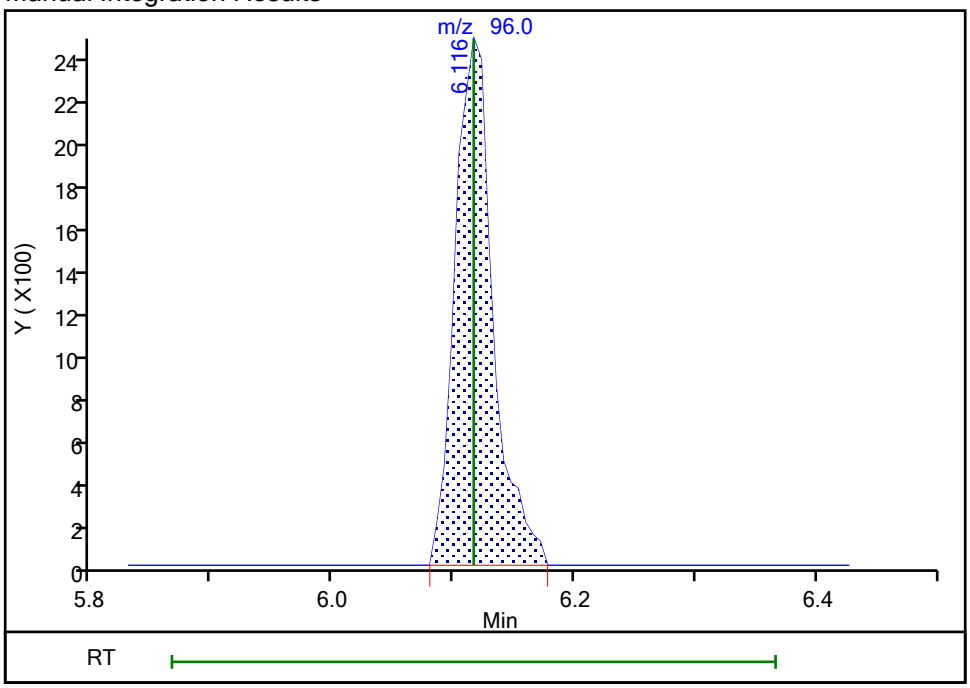
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5272
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:37:03
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-034 Lab Sample ID: 240-140187-16

Matrix: Water Lab File ID: c8326.D

Analysis Method: 8260D Date Collected: 11/11/2020 09:19

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 03:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	15		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-034 Lab Sample ID: 240-140187-16

Matrix: Water Lab File ID: c8326.D

Analysis Method: 8260D Date Collected: 11/11/2020 09:19

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 03:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8326.D
Lims ID: 240-140187-C-16
Client ID: GW-111120-BE-034
Sample Type: Client
Inject. Date: 20-Nov-2020 03:45:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:04:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.403	3.391	0.012	0	255	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	185012	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5860	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	132439	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.280	-0.006	98	59401	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	43575	52.6	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	96	174791	51.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	82	46108	47.4	
$ 8 BFB	95	9.920	9.920	0.000	82	64554	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.532	1.532	0.000	98	51944	15.2	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.464				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.708				ND	
32 1,1-Dichloroethane	63		3.787				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.330				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.336	-0.006	1	318	0.1280	
40 2-Butanone (MEK)	43		4.354				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.812				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62		5.177				ND	
50 Benzene	78		5.177				ND	
53 n-Heptane	43		5.311				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
116 n-Butanol	56		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.628				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.470				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.536				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.383				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
136 n-Decane	57		0.000				ND	
133 Isooctane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
137 C6-C10	1		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
139 C6-C12	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		0.1280	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

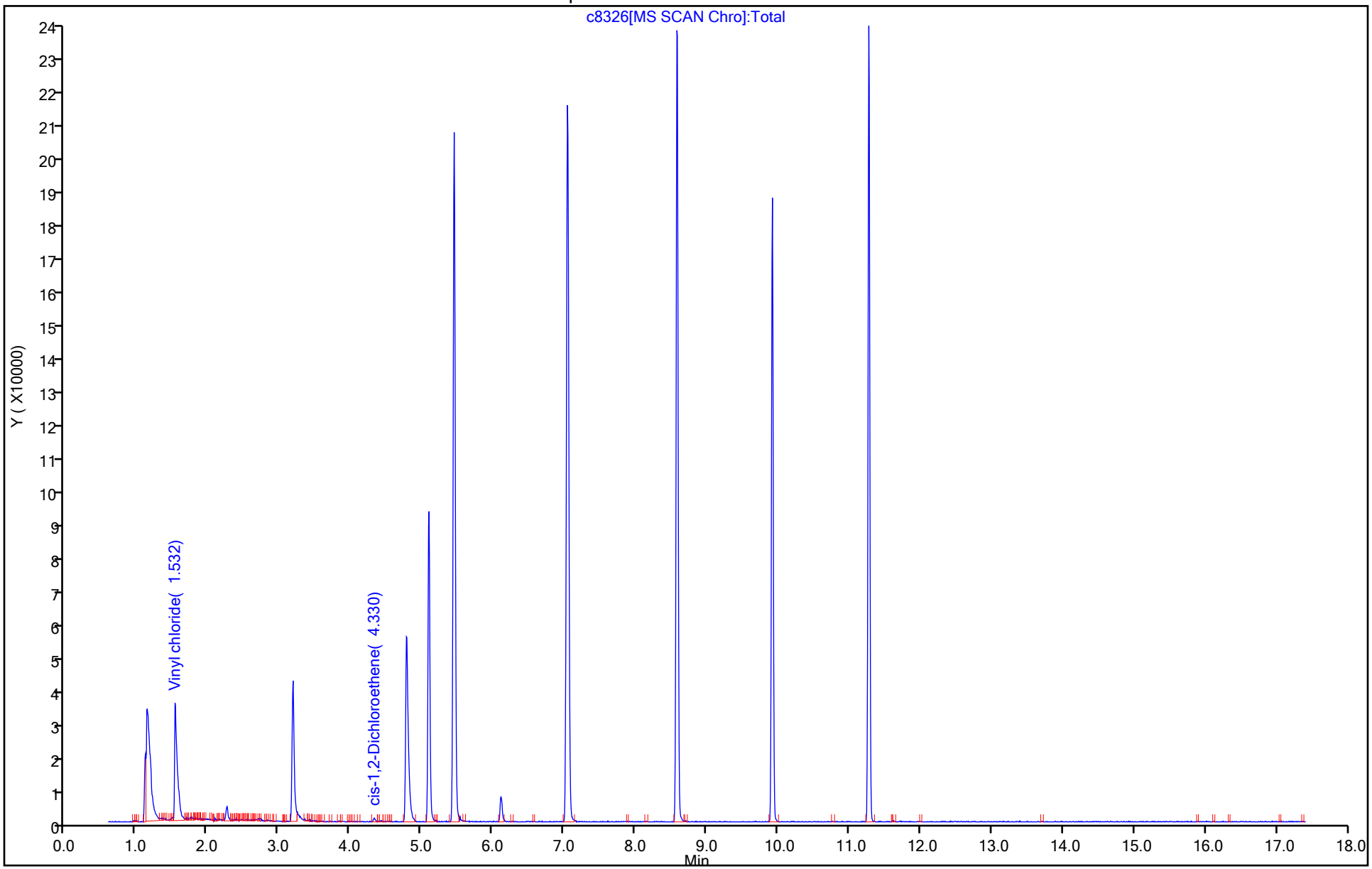
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 07:10:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8326.D				
Injection Date:	20-Nov-2020 03:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-C-16	Lab Sample ID:	310-140187-16	Worklist Smp#:	11
Client ID:	GW-111120-BE-034				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8326.D
Lims ID: 240-140187-C-16
Client ID: GW-111120-BE-034
Sample Type: Client
Inject. Date: 20-Nov-2020 03:45:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:04:02

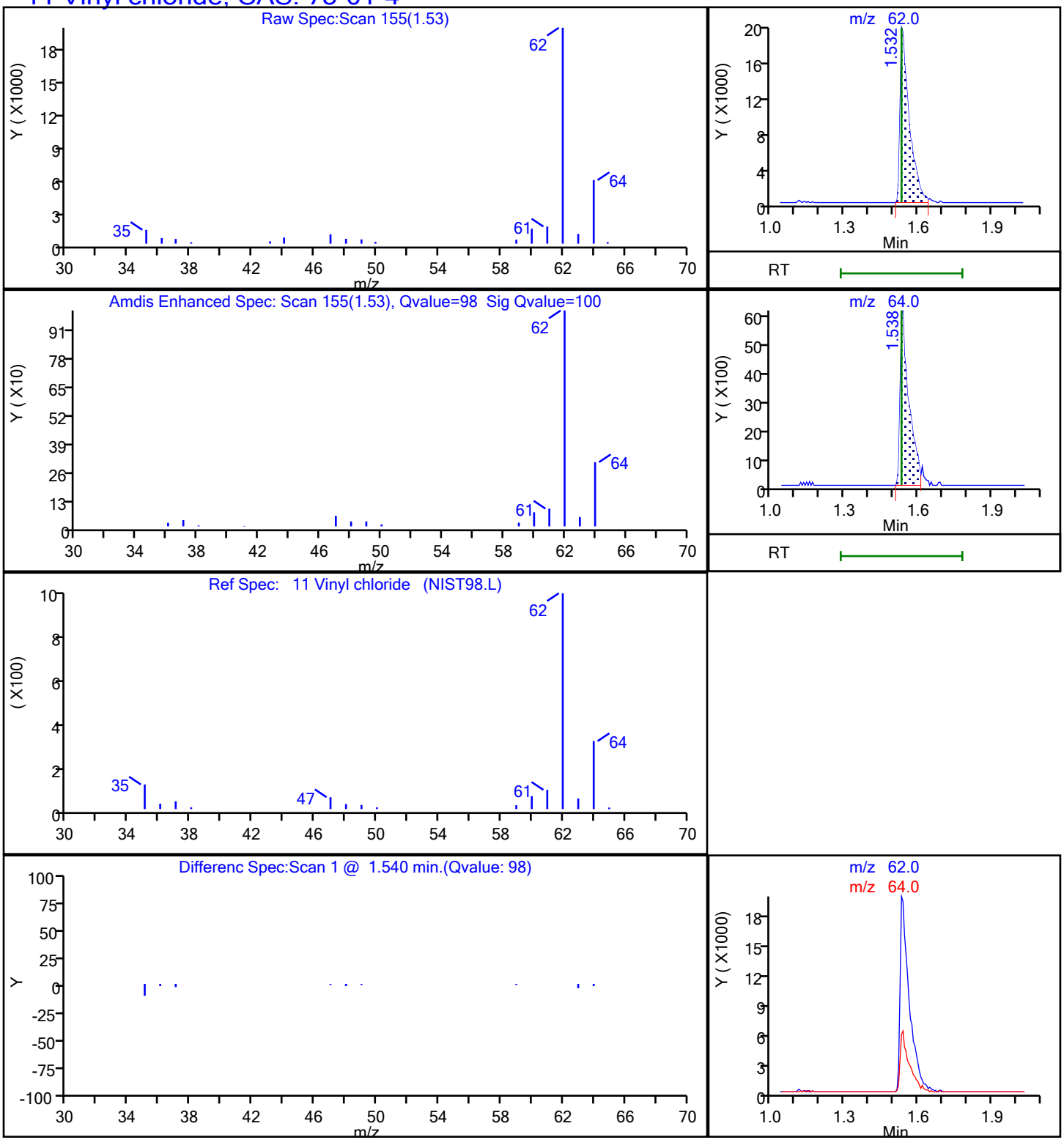
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.6	105.10
$ 6 Toluene-d8 (Surr)	50.0	51.5	102.95
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.4	94.89

Report Date: 20-Nov-2020 07:10:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8326.D				
Injection Date:	20-Nov-2020 03:45:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-16	Lab Sample ID:	310-140187-16		
Client ID:	GW-111120-BE-034				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

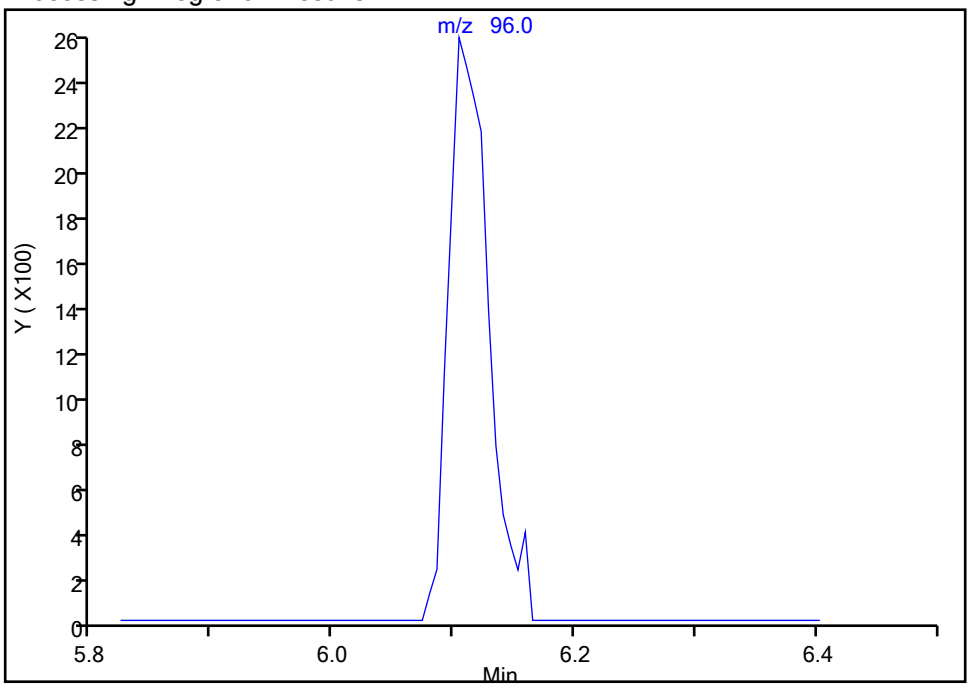
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8326.D				
Injection Date:	20-Nov-2020 03:45:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-16	Lab Sample ID:	310-140187-16		
Client ID:	GW-111120-BE-034				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

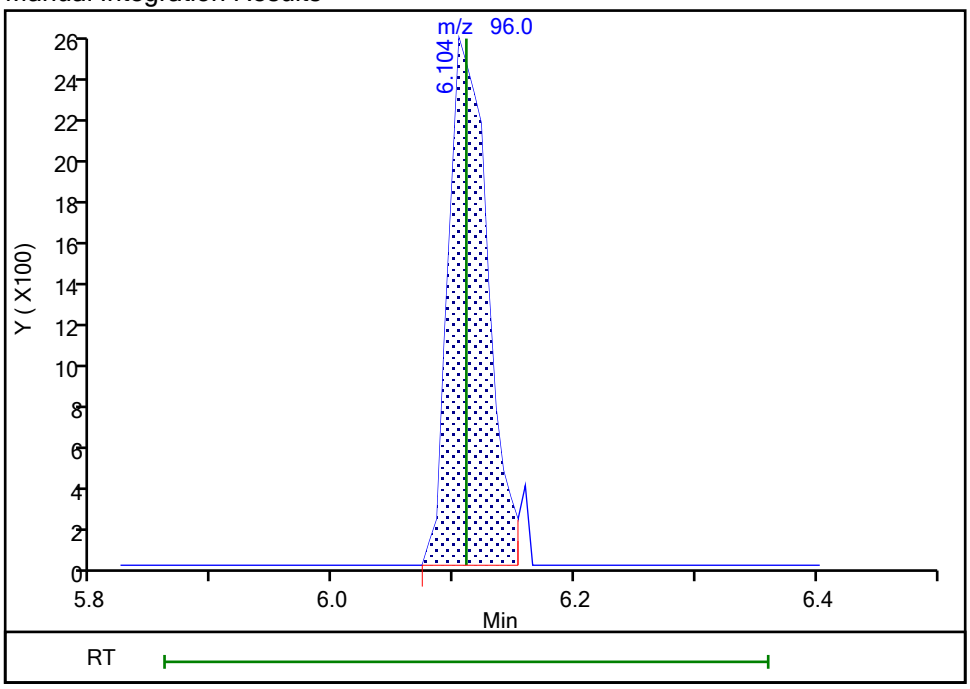
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5860
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 07:03:58
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-035 Lab Sample ID: 240-140187-17

Matrix: Water Lab File ID: c8249.D

Analysis Method: 8260D Date Collected: 11/11/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-035 Lab Sample ID: 240-140187-17

Matrix: Water Lab File ID: c8249.D

Analysis Method: 8260D Date Collected: 11/11/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	101		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8249.D
Lims ID: 240-140187-A-17
Client ID: GW-111120-BE-035
Sample Type: Client
Inject. Date: 18-Nov-2020 14:14:30 ALS Bottle#: 27 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-025
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 14:44:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	113	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	168865	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5346	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	121929	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54094	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	39237	51.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	157408	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	82	42397	47.9	
$ 8 BFB	95	9.920	9.920	0.000	81	59229	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.848	2.843	0.005	61	1477	0.2872	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.775	3.781	-0.006	1	597	0.1606	a
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	6934	3.06	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97	4.799	4.806	-0.007	35	414	0.1300	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		3.06	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

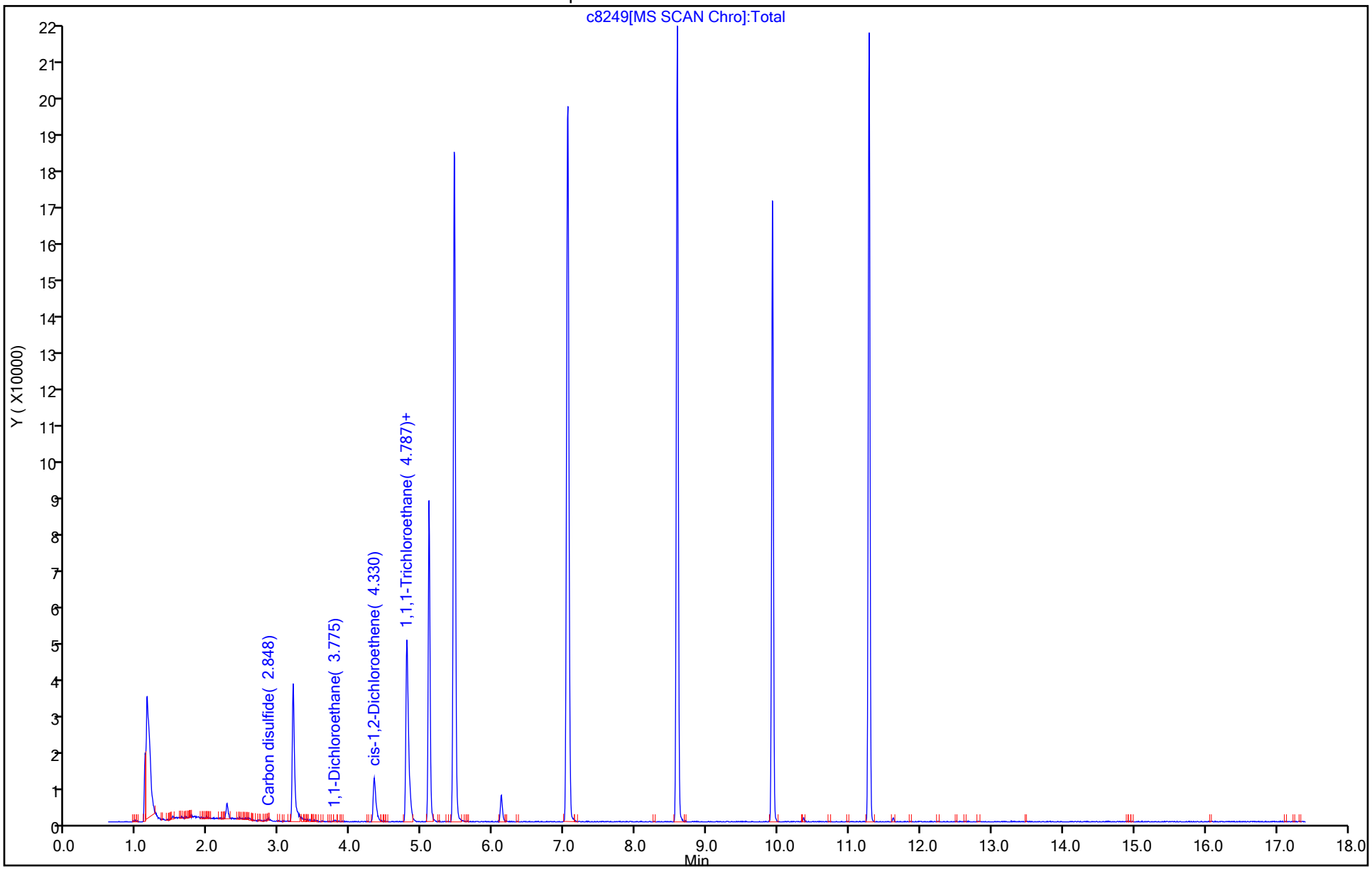
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:56 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8249.D				
Injection Date:	18-Nov-2020 14:14:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-17	Lab Sample ID:	310-140187-17	Worklist Smp#:	25
Client ID:	GW-111120-BE-035				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8249.D
Lims ID: 240-140187-A-17
Client ID: GW-111120-BE-035
Sample Type: Client
Inject. Date: 18-Nov-2020 14:14:30 ALS Bottle#: 27 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-025
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 14:44:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.8	103.69
$ 6 Toluene-d8 (Surr)	50.0	50.4	100.71
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.81

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

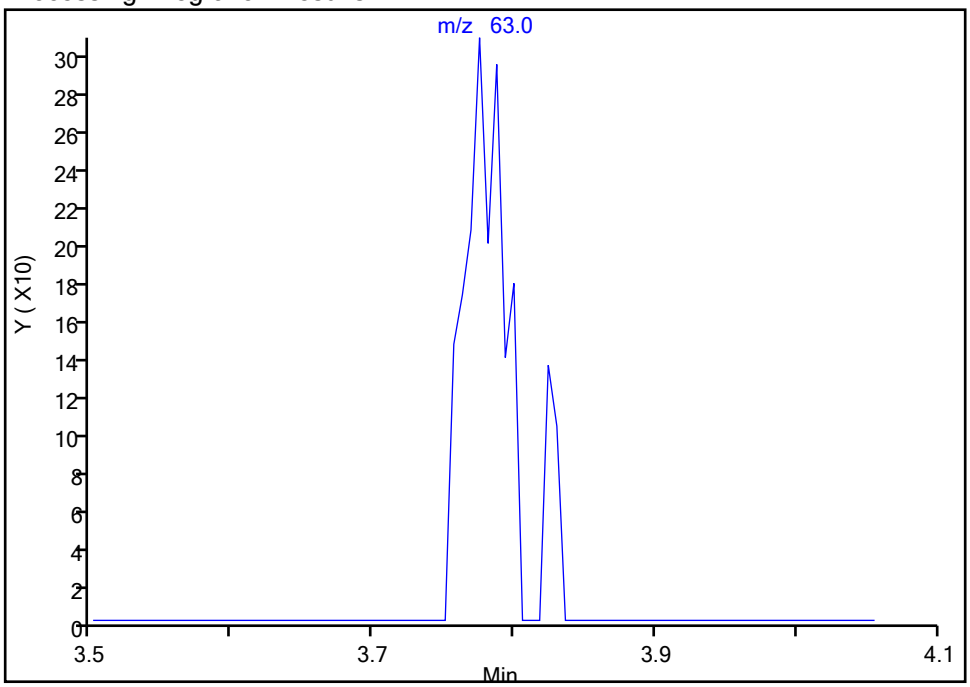
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8249.D				
Injection Date:	18-Nov-2020 14:14:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-17	Lab Sample ID:	310-140187-17		
Client ID:	GW-111120-BE-035				
Operator ID:	sjn	ALS Bottle#:	27	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

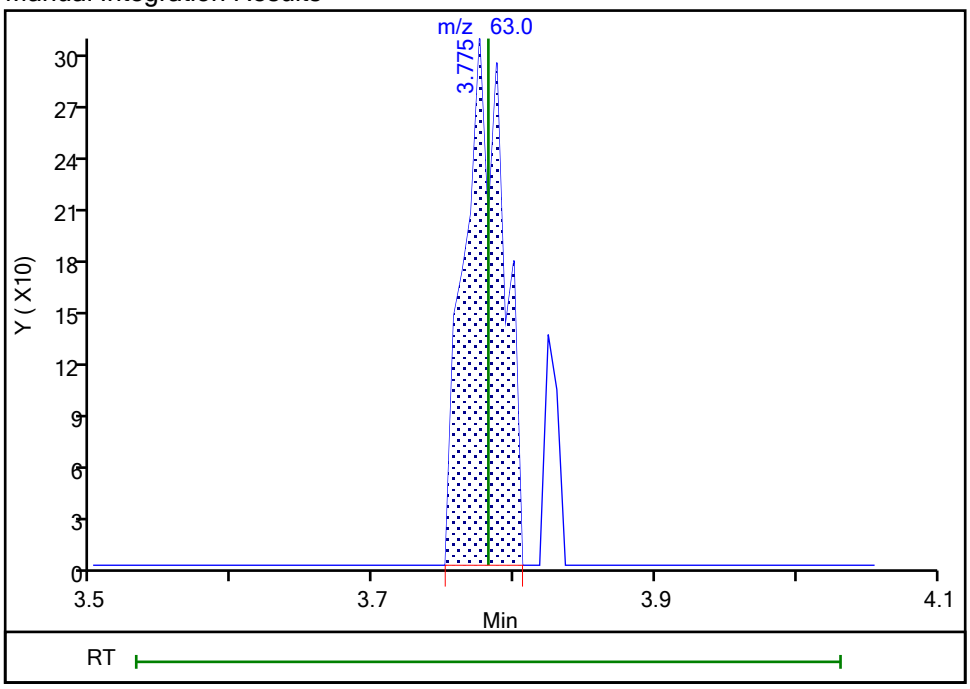
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 597
Amount: 0.160637
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:43:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

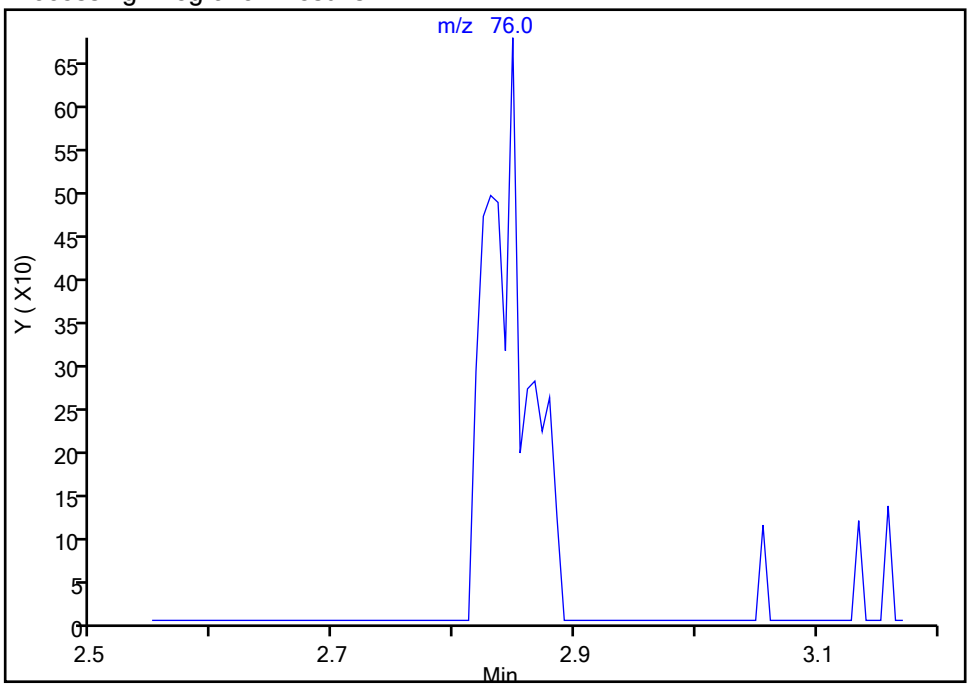
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8249.D				
Injection Date:	18-Nov-2020 14:14:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-17	Lab Sample ID:	310-140187-17		
Client ID:	GW-111120-BE-035				
Operator ID:	sjn	ALS Bottle#:	27	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

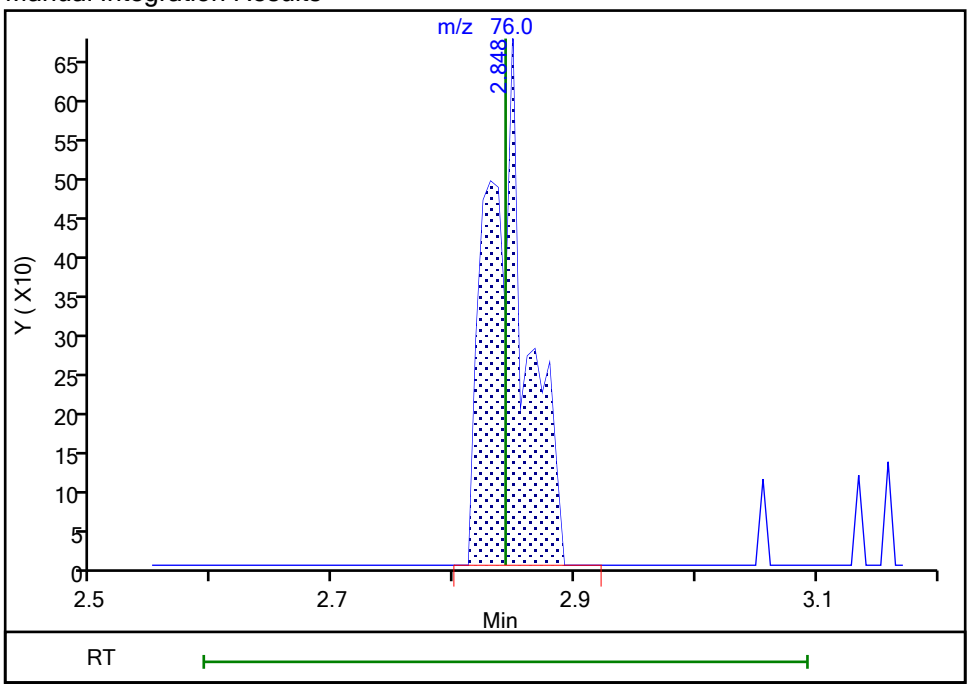
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 1477
Amount: 0.287209
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:43:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

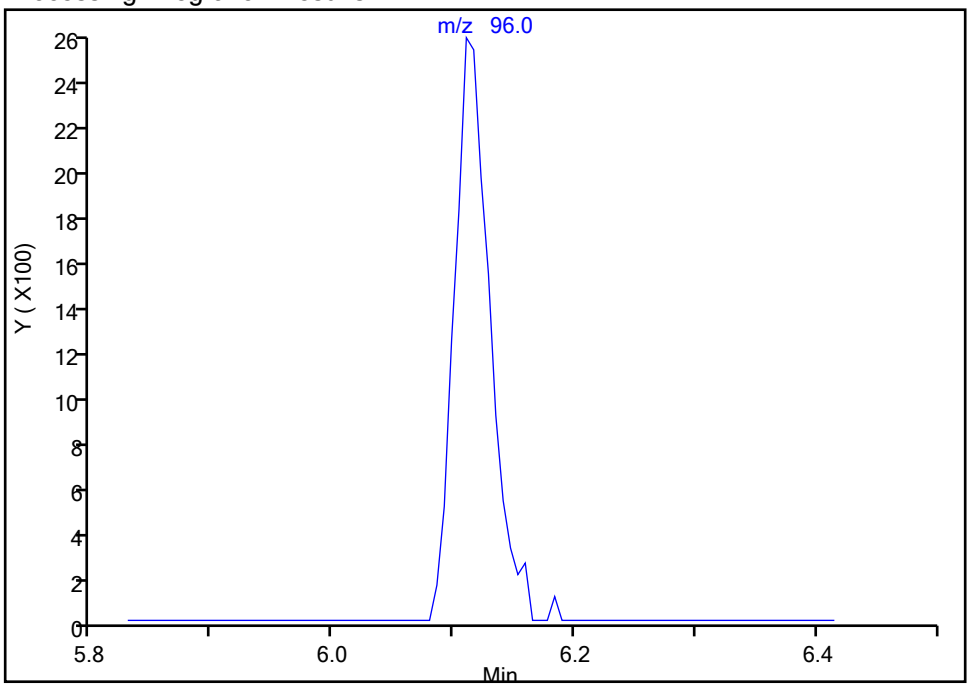
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8249.D				
Injection Date:	18-Nov-2020 14:14:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-17	Lab Sample ID:	310-140187-17		
Client ID:	GW-111120-BE-035				
Operator ID:	sjn	ALS Bottle#:	27	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

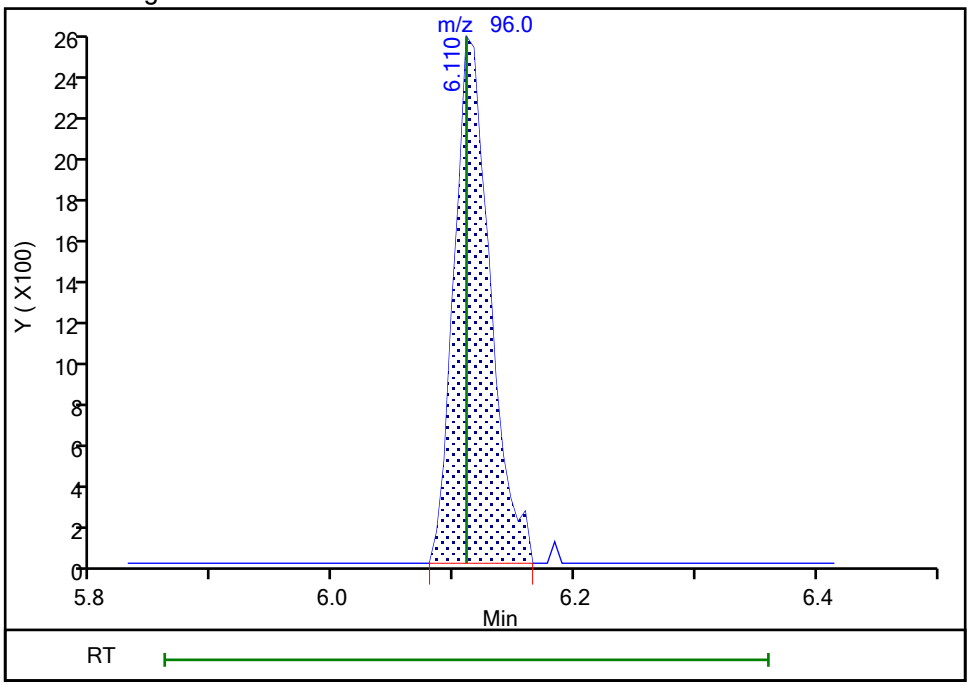
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5346
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 14:44:07
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-035 Lab Sample ID: 240-140187-17

Matrix: Water Lab File ID: c8302.D

Analysis Method: 8260D Date Collected: 11/11/2020 10:28

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 10:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	101		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8302.D
Lims ID: 240-140187-B-17
Client ID: GW-111120-BE-035
Sample Type: Client
Inject. Date: 19-Nov-2020 10:44:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-017
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:39:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.373	0.006	0	181	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	165739	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	93	5013	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	119556	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53262	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	38920	52.4	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	154898	50.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	83	41732	47.9	
$ 8 BFB	95	9.920	9.920	0.000	81	57927	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43	2.714	2.714	0.000	29	1124	-0.7159	a
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.854	2.842	0.012	1	0	0	a
105 Isopropyl alcohol	45	2.891	2.885	0.006	97	1043	13.4	a
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96		4.330				ND	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1		0.000				ND	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

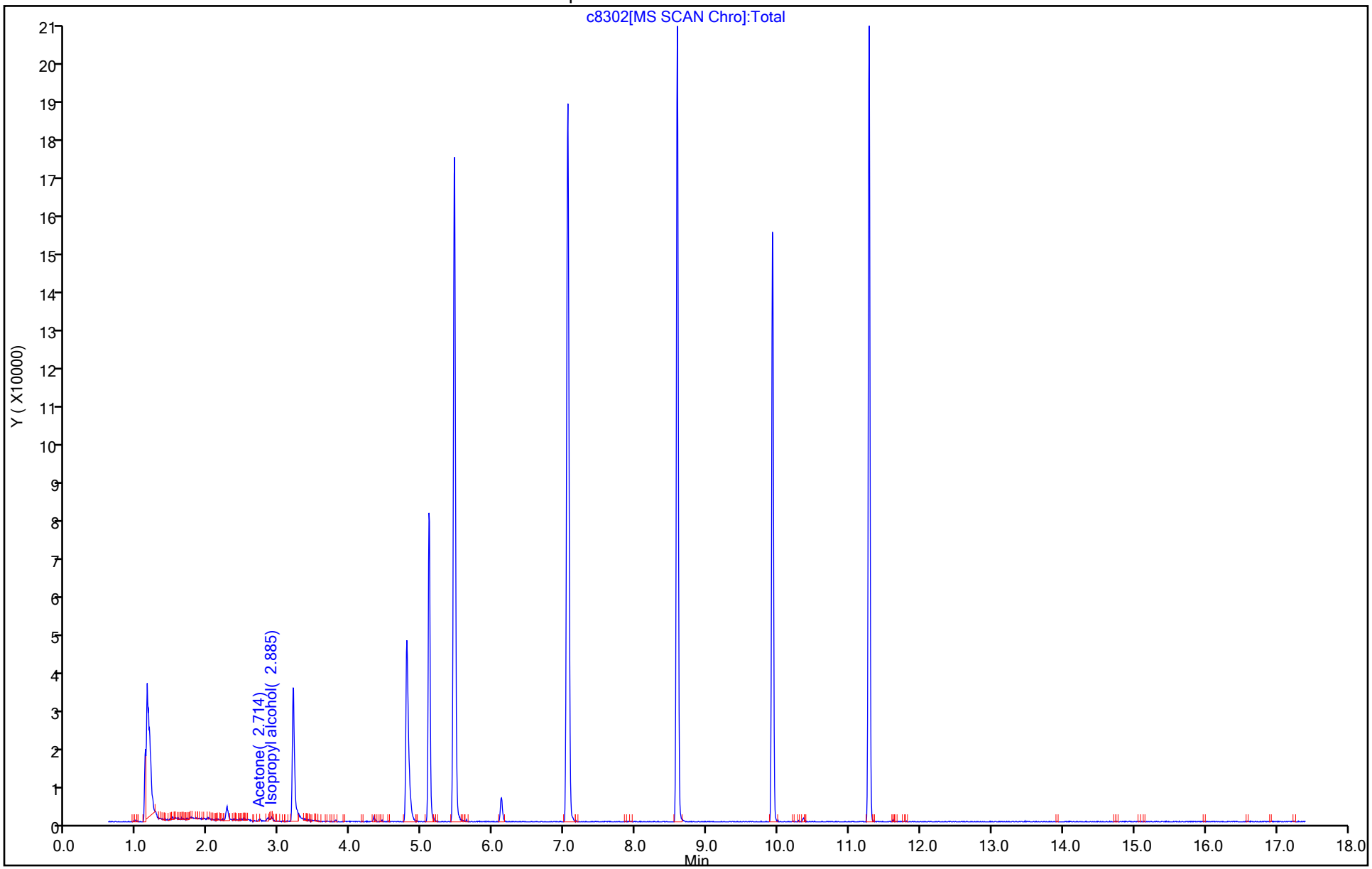
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:55 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8302.D				
Injection Date:	19-Nov-2020 10:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-17	Lab Sample ID:	310-140187-17	Worklist Smp#:	17
Client ID:	GW-111120-BE-035				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8302.D
Lims ID: 240-140187-B-17
Client ID: GW-111120-BE-035
Sample Type: Client
Inject. Date: 19-Nov-2020 10:44:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-017
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:39:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.4	104.79
$ 6 Toluene-d8 (Surr)	50.0	50.5	101.07
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.78

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

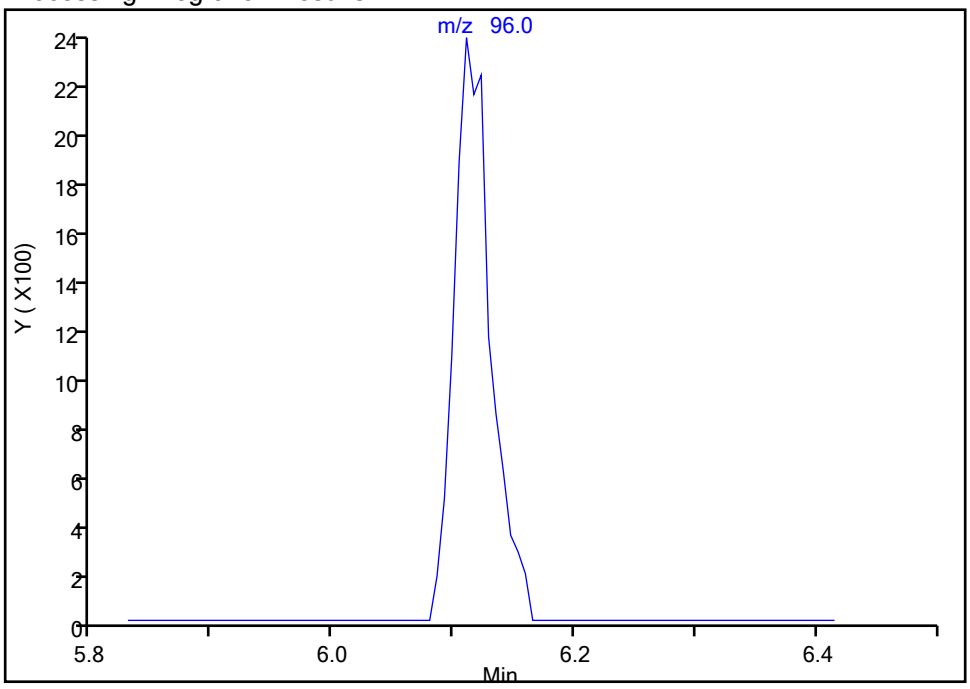
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8302.D				
Injection Date:	19-Nov-2020 10:44:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-17	Lab Sample ID:	310-140187-17		
Client ID:	GW-111120-BE-035				
Operator ID:	sjn	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

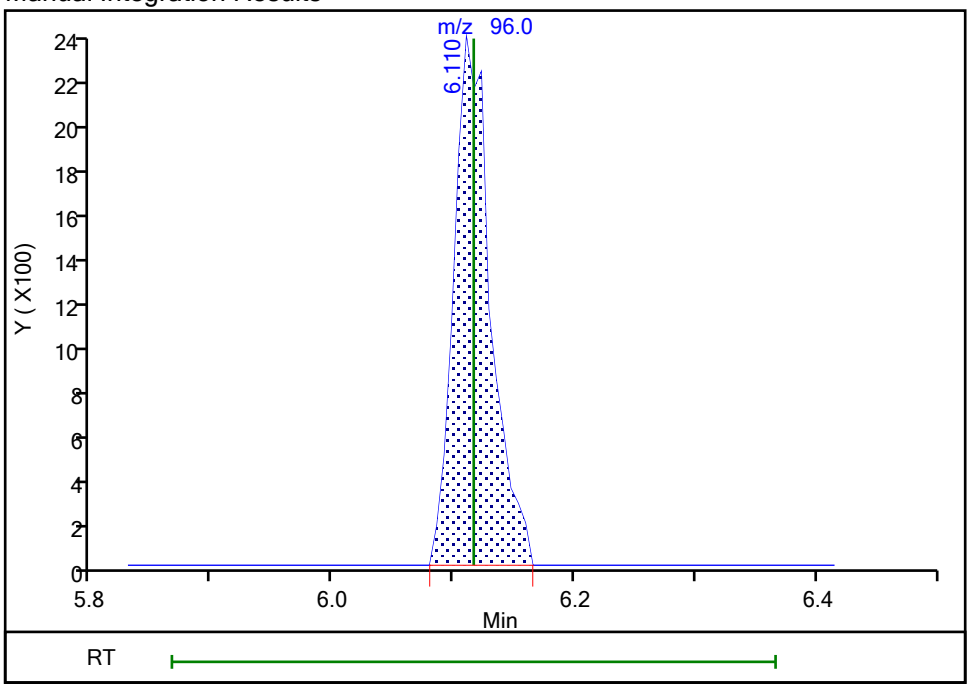
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5013
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:37:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 Lab Sample ID: 240-140187-18

Matrix: Water Lab File ID: c8250.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.7		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	46		1.0	0.22
75-35-4	1,1-Dichloroethene	14		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	18		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	160		1.0	0.43
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 Lab Sample ID: 240-140187-18

Matrix: Water Lab File ID: c8250.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	110		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D
Lims ID: 240-140187-A-18
Client ID: GW-111120-BE-036
Sample Type: Client
Inject. Date: 18-Nov-2020 14:39:30 ALS Bottle#: 28 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-026
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:47:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.385	-0.012	0	165	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	172440	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5499	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	124406	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54500	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	42422	54.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	163061	51.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.920	0.006	86	43330	48.6	
$ 8 BFB	95	9.920	9.920	0.000	81	58698	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	MUa
11 Vinyl chloride	62	1.538	1.532	0.006	99	2962496	932.3	E
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	92	24105	13.6	M
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.397	3.391	0.006	94	36989	18.3	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	98	175642	46.3	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	86	6281622	2713.1	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	96	21783	6.70	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	U
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.183	5.177	0.006	80	1044	0.1172	M
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95	5.805	5.805	0.000	96	356378	156.5	
117 Ethyl acrylate	55		5.939				ND	U
114 Methylcyclohexane	83		6.013				ND	U
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105	9.756	9.762	-0.006	89	1298	0.1233	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		2731.4	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

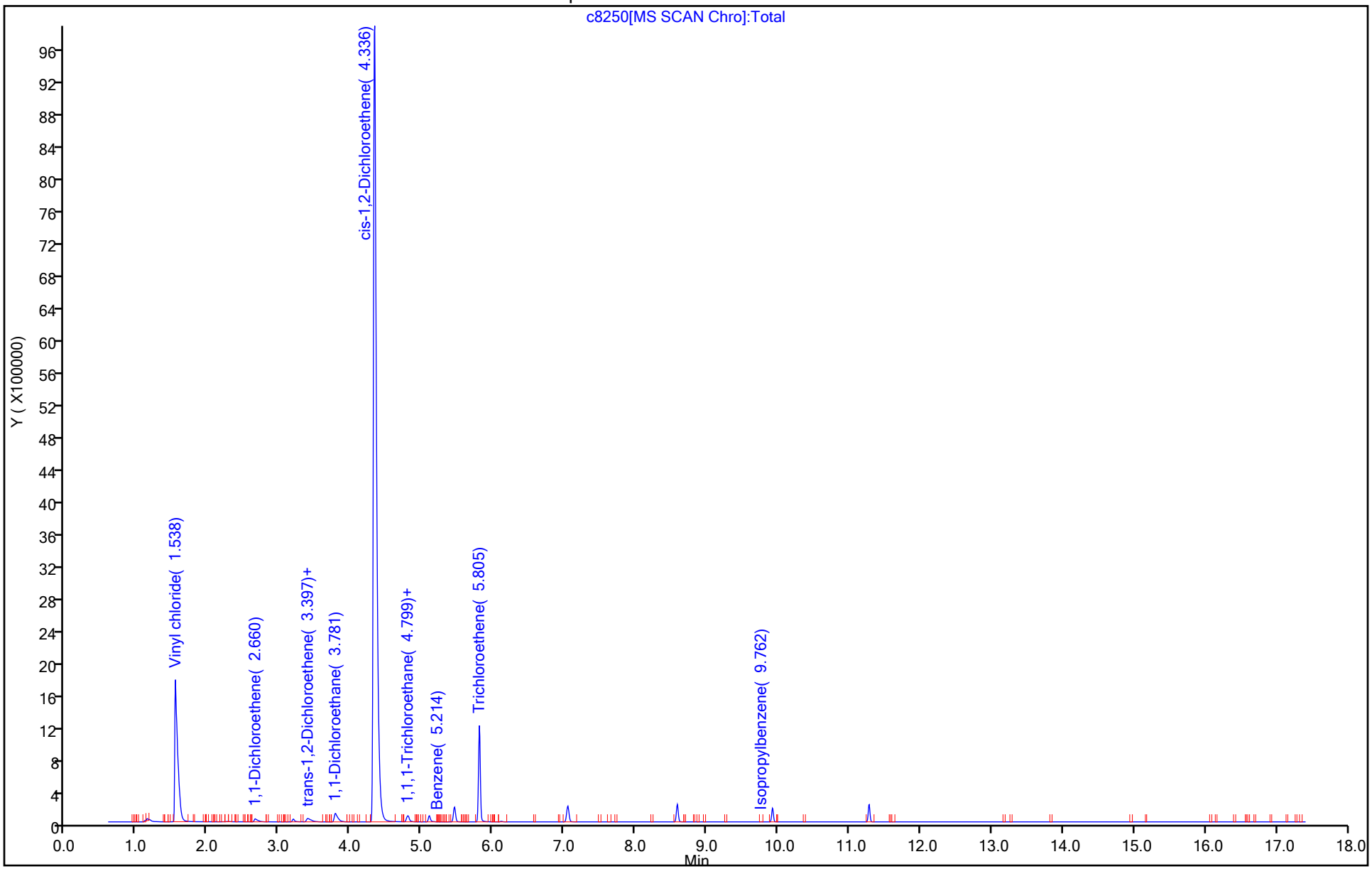
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18	Worklist Smp#:	26
Client ID:	GW-111120-BE-036				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D
Lims ID: 240-140187-A-18
Client ID: GW-111120-BE-036
Sample Type: Client
Inject. Date: 18-Nov-2020 14:39:30 ALS Bottle#: 28 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-026
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:47:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.9	109.78
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.24
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.6	97.19

Report Date: 19-Nov-2020 06:54:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D

Injection Date: 18-Nov-2020 14:39:30 Instrument ID: Calvin

Lims ID: 240-140187-A-18 Lab Sample ID: 310-140187-18

Client ID: GW-111120-BE-036

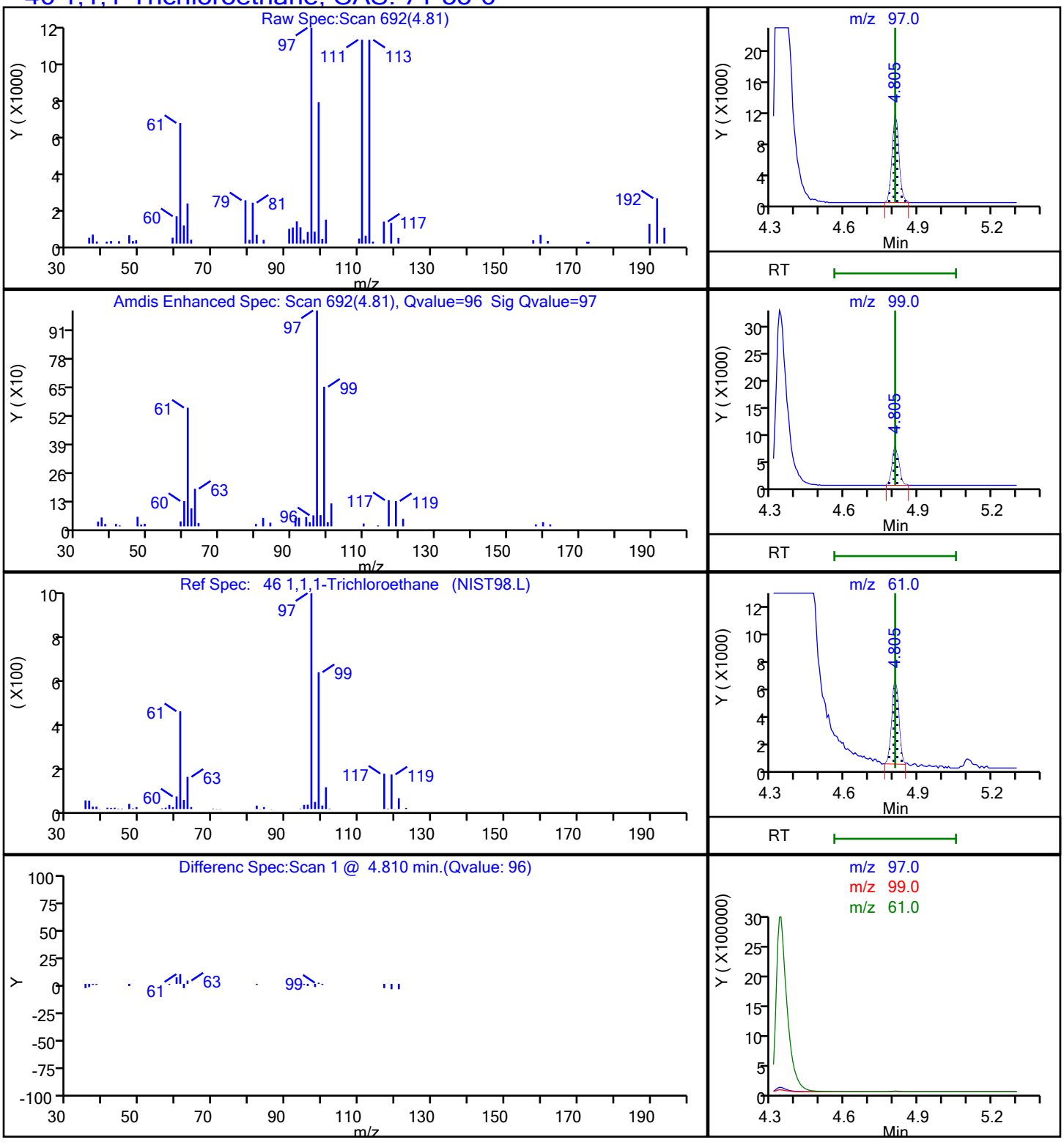
Operator ID: sjn ALS Bottle#: 28 Worklist Smp#: 26

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

46 1,1,1-Trichloroethane, CAS: 71-55-6

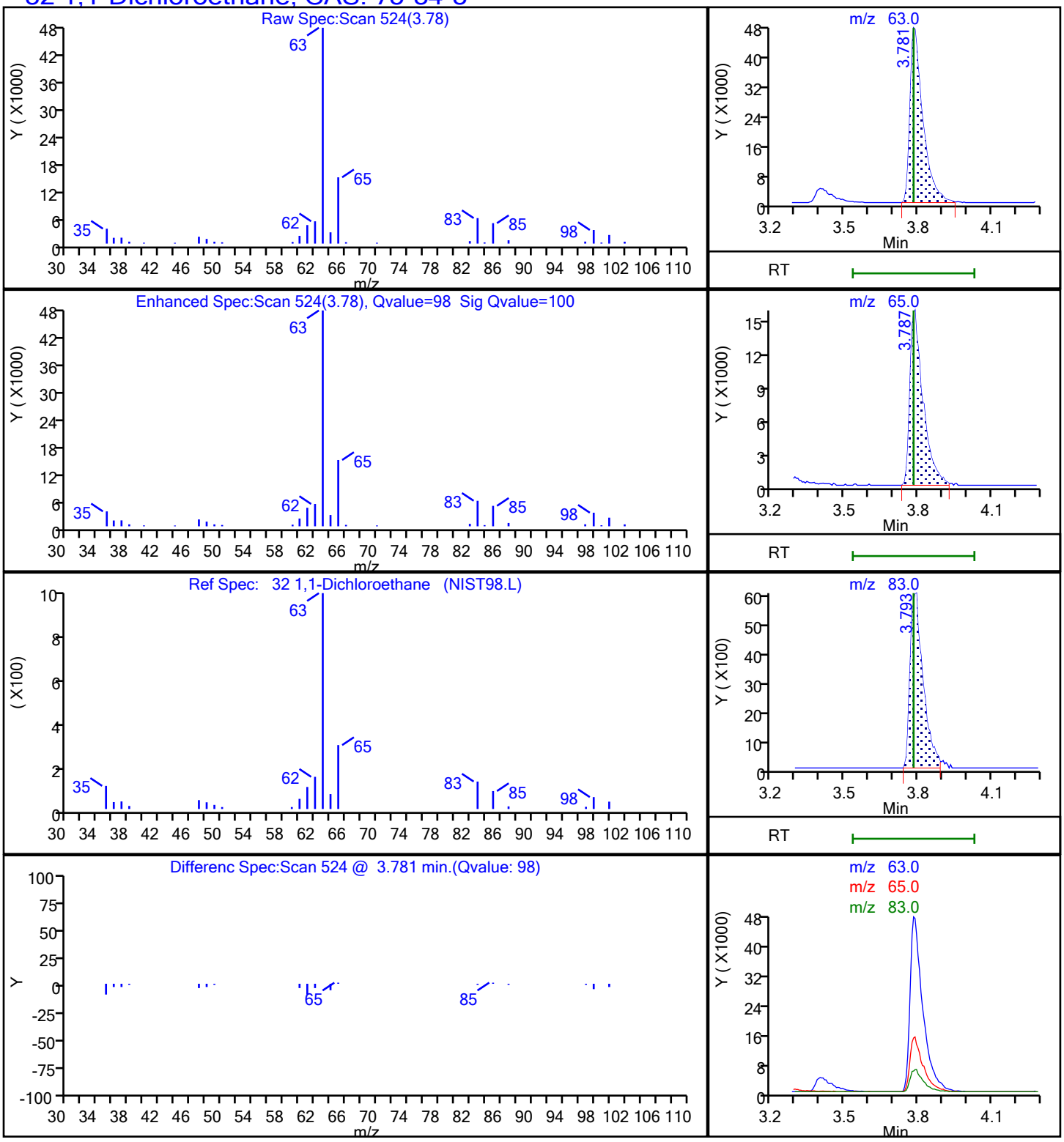


Report Date: 19-Nov-2020 06:54:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3



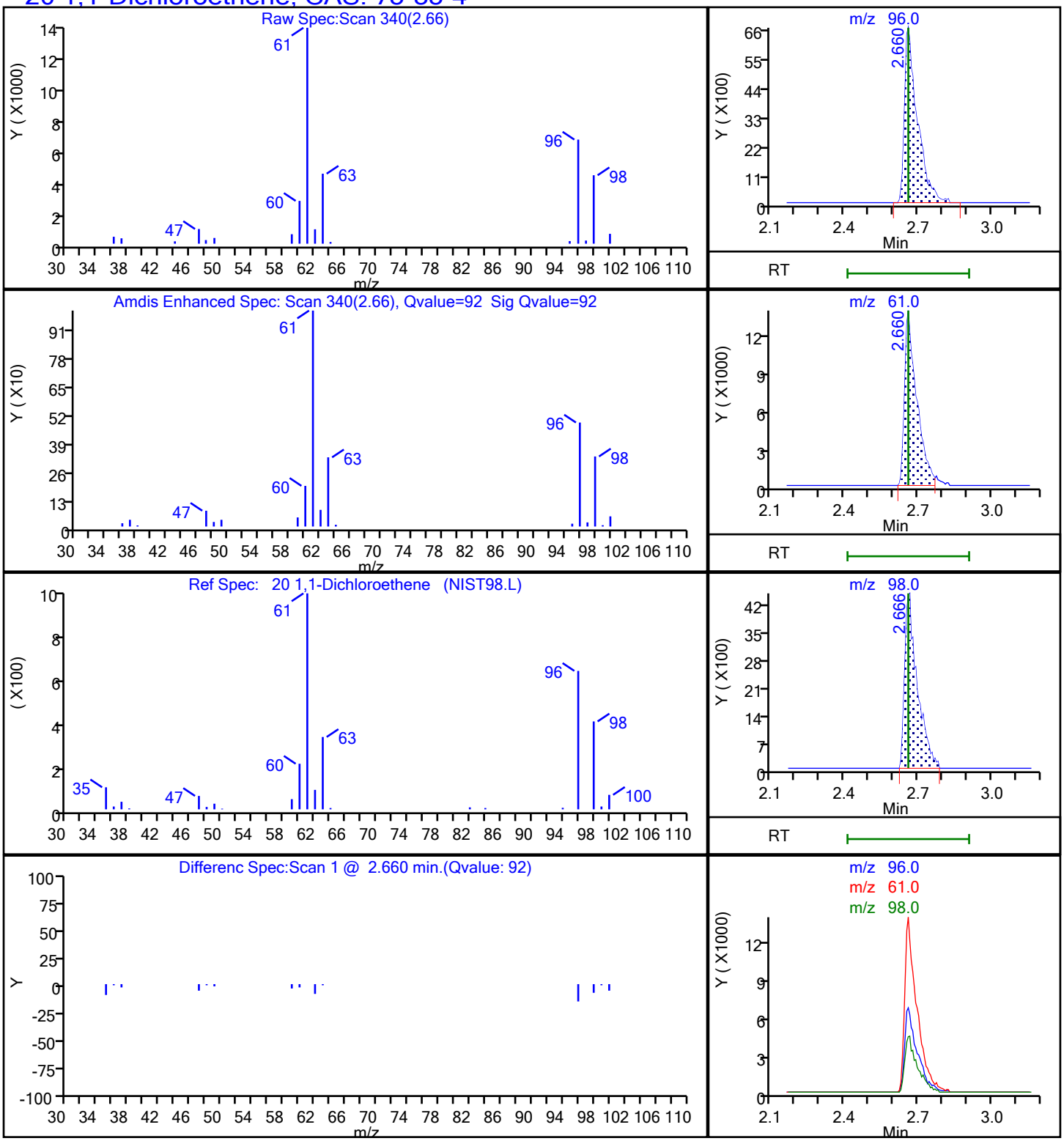
Report Date: 19-Nov-2020 06:54:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D

Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18
Client ID:	GW-111120-BE-036		
Operator ID:	sjn	ALS Bottle#:	28 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

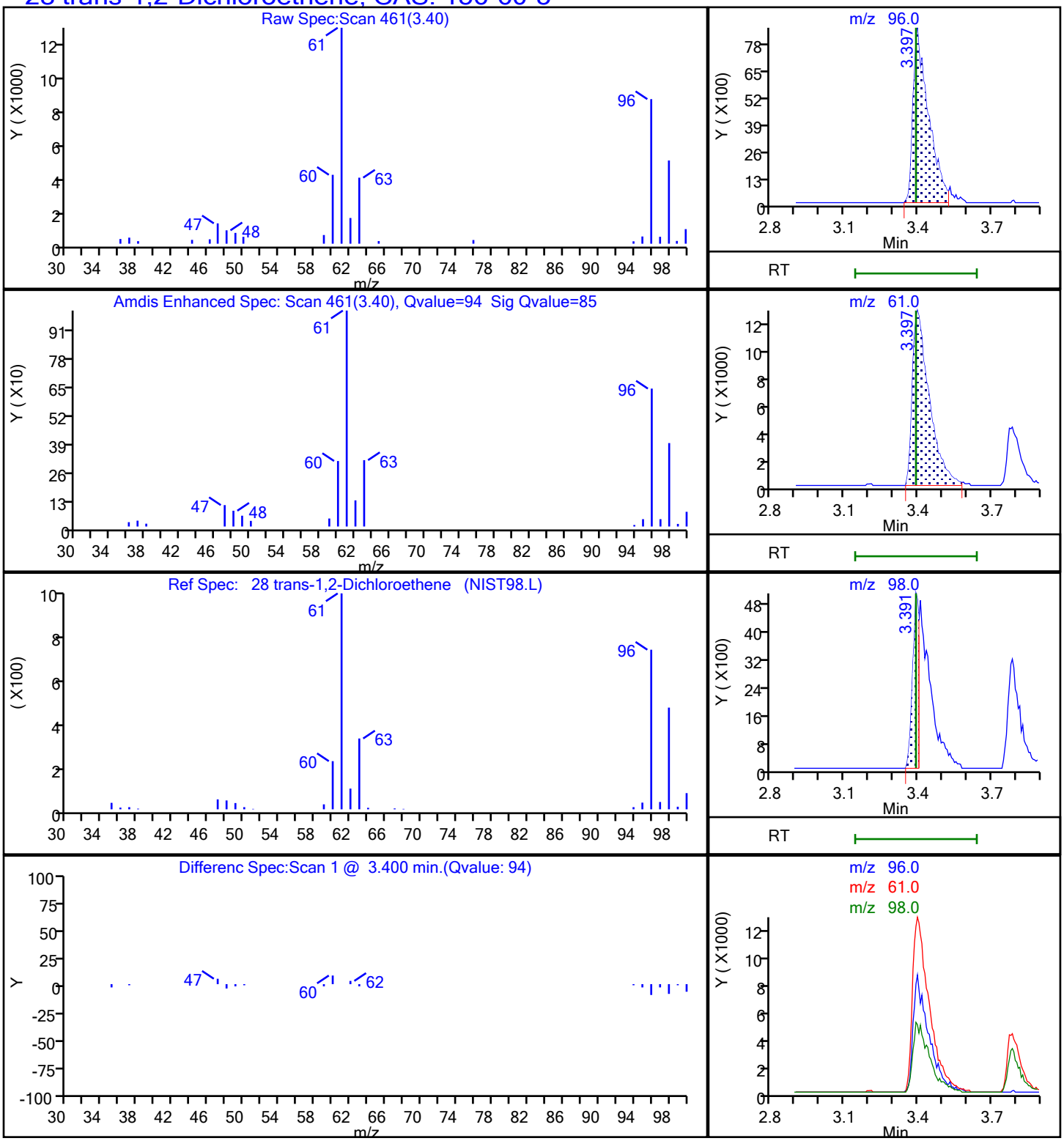


Report Date: 19-Nov-2020 06:54:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

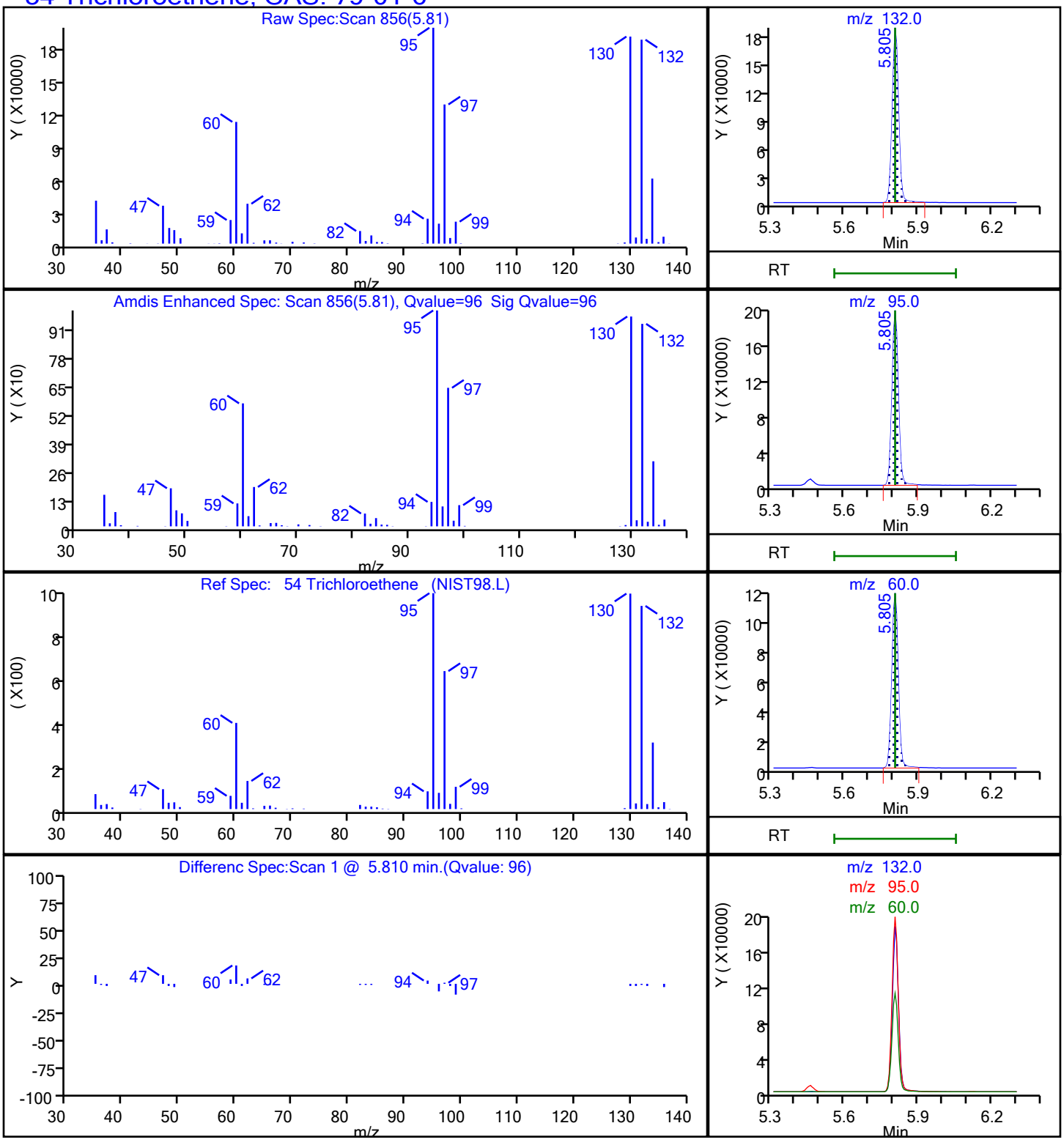


Report Date: 19-Nov-2020 06:54:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

54 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

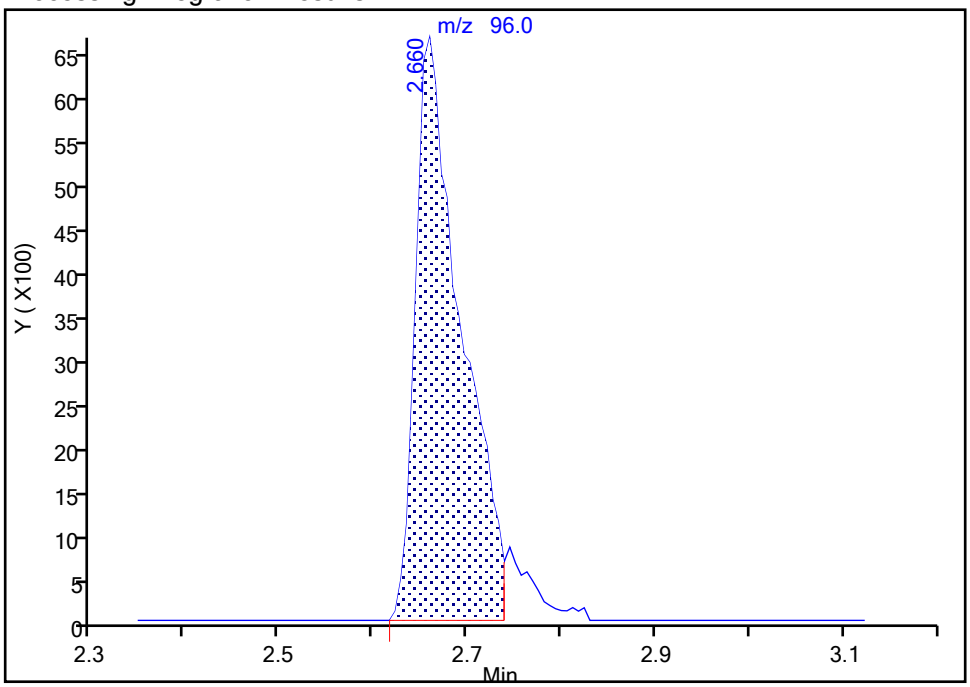
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

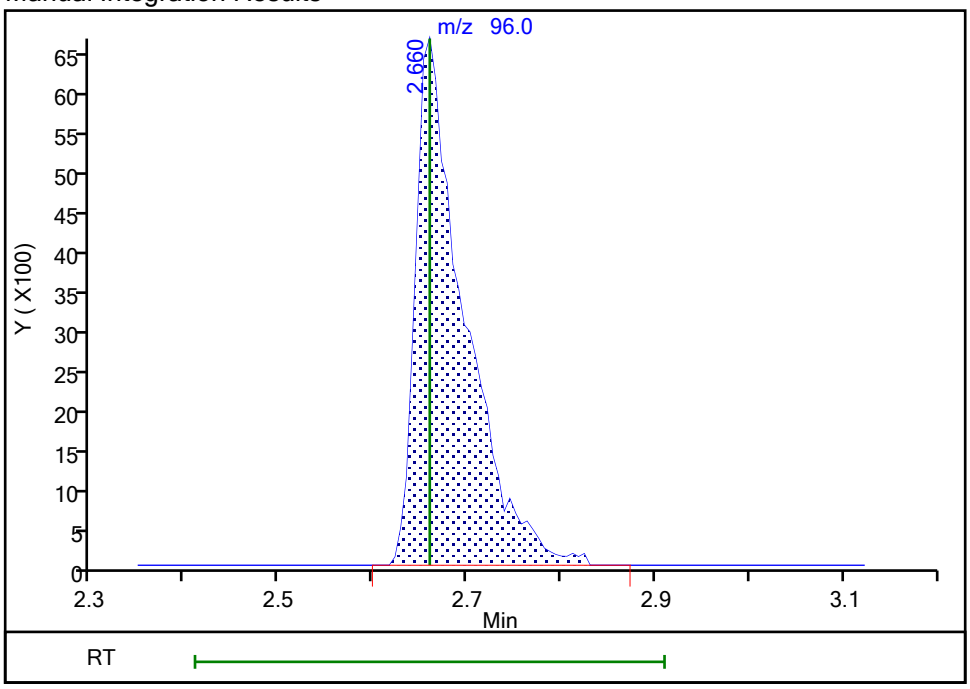
Processing Integration Results

RT: 2.66
Area: 22467
Amount: 12.665911
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 24105
Amount: 13.589344
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:46:24

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

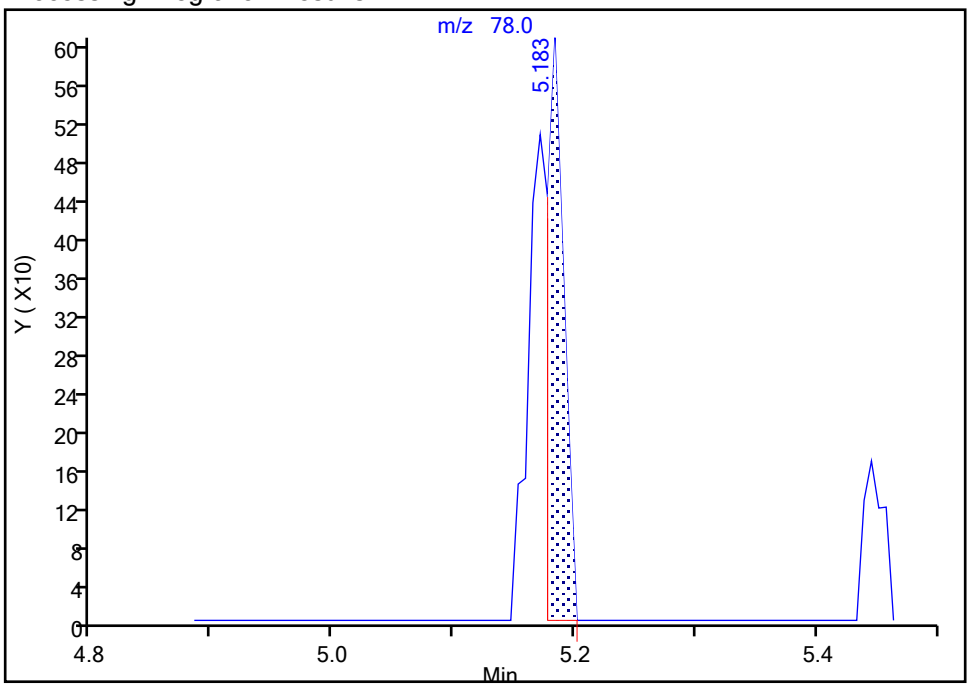
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

50 Benzene, CAS: 71-43-2

Signal: 1

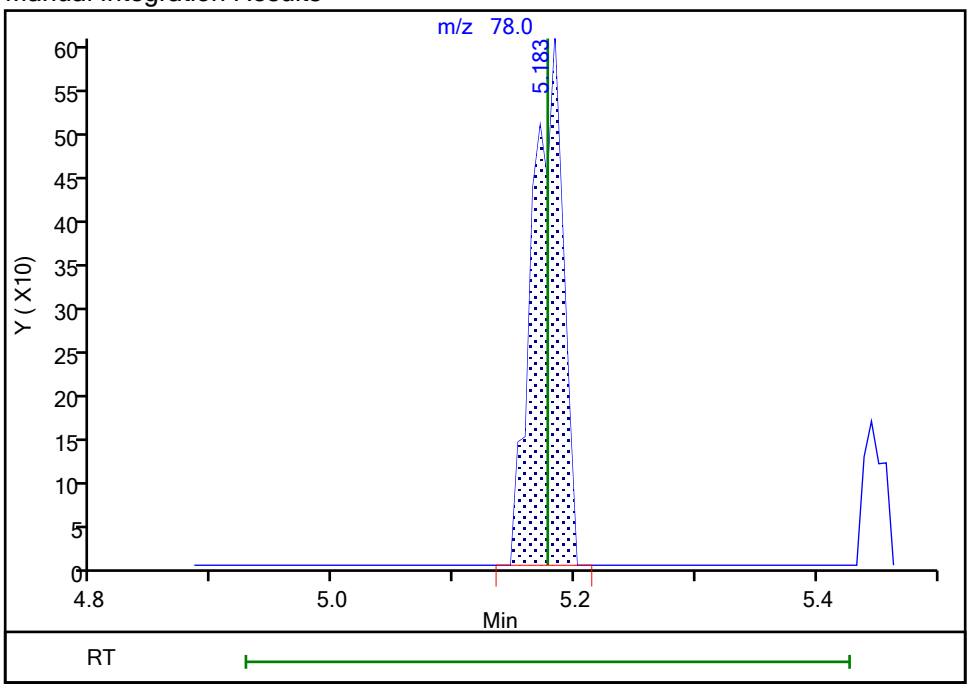
Processing Integration Results

RT: 5.18
Area: 594
Amount: 0.066663
Amount Units: ug/l



Manual Integration Results

RT: 5.18
Area: 1044
Amount: 0.117166
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:46:46

Audit Action: Manually Integrated Audit Reason: Split Peak

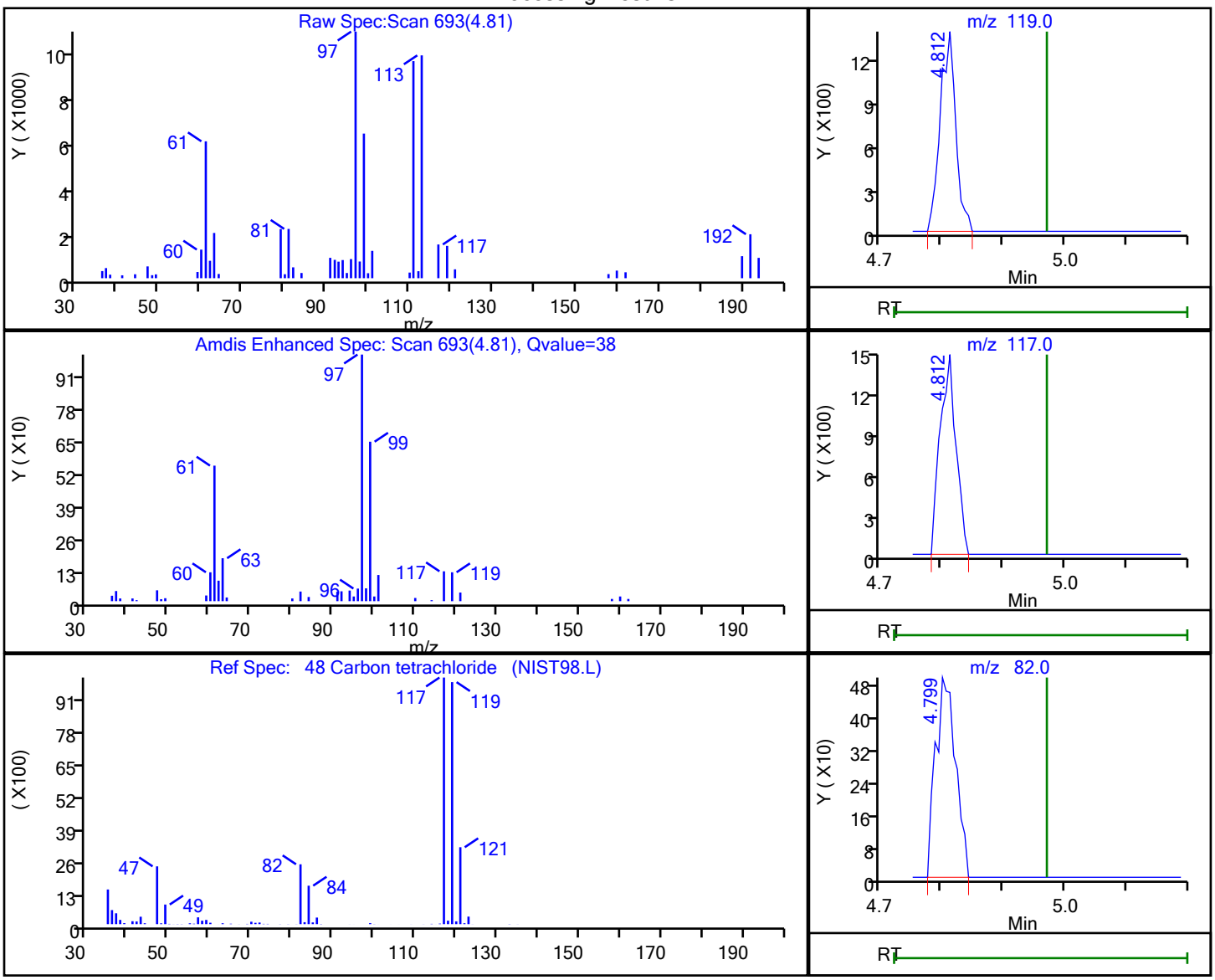
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

48 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
4.81	119.00	2417	
4.81	117.00	2579	0.916188
4.80	82.00	1130	

Reviewer: nelsonsa, 19-Nov-2020 06:46:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

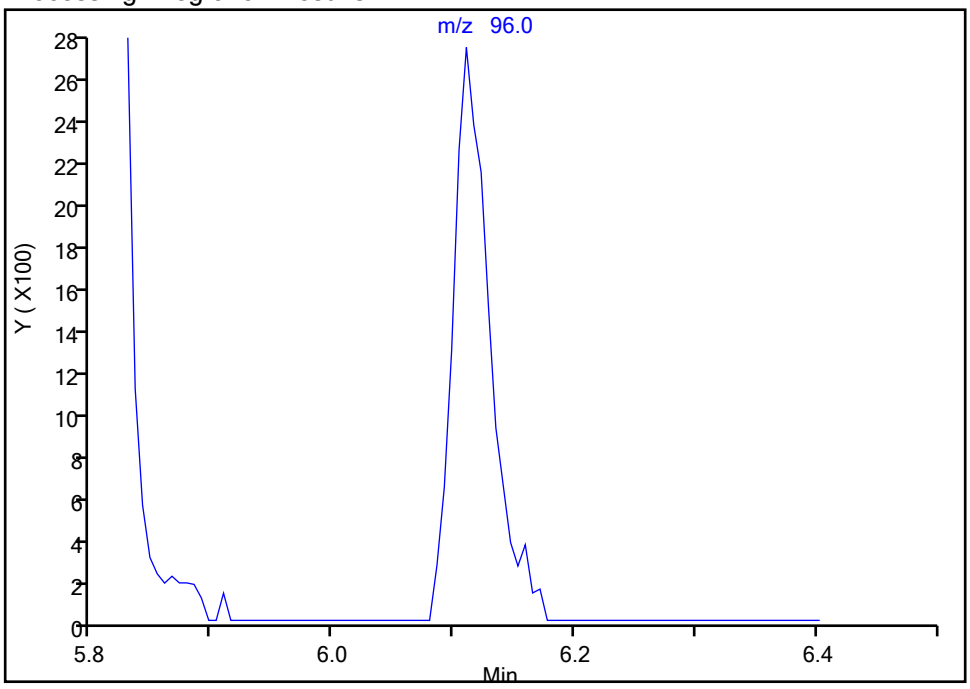
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8250.D				
Injection Date:	18-Nov-2020 14:39:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	28	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

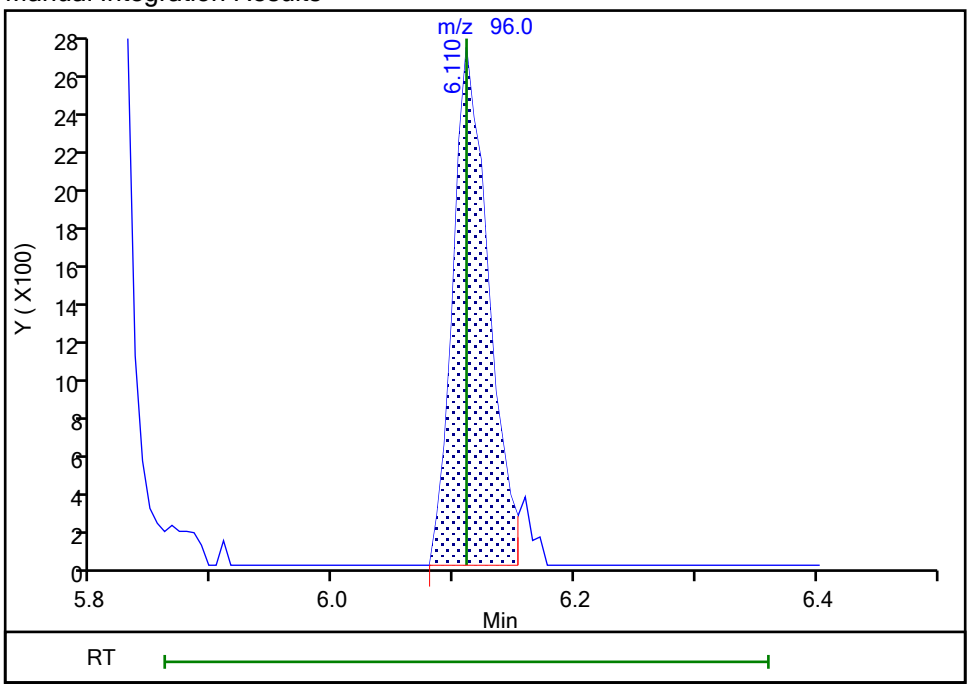
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5499
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:46:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 Lab Sample ID: 240-140187-18

Matrix: Water Lab File ID: c8327.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 04:09

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2200		20	4.2
75-01-4	Vinyl chloride	710		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8327.D
Lims ID: 240-140187-C-18
Client ID: GW-111120-BE-036
Sample Type: Client
Inject. Date: 20-Nov-2020 04:09:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062748-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:05:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.391	-0.012	0	232	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	185909	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6213	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	132700	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	59318	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.793	-0.012	92	43773	52.5	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	96	176392	51.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	47410	48.9	
$ 8 BFB	95	9.920	9.920	0.000	82	64293	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	98	120768	35.3	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.464				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.672	2.659	0.013	90	1120	0.5857	M
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.409	3.391	0.018	85	1595	0.7311	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.708				ND	
32 1,1-Dichloroethane	63	3.781	3.787	-0.006	96	7813	1.91	M
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.330				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.336	-0.006	86	271266	108.7	
40 2-Butanone (MEK)	43		4.354				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.629	4.641	-0.012	94	2225	0.5200	M
46 1,1,1-Trichloroethane	97	4.799	4.812	-0.013	83	789	0.2250	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62		5.177				ND	
50 Benzene	78		5.177				ND	
53 n-Heptane	43		5.311				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
116 n-Butanol	56		5.482				ND	
54 Trichloroethene	95	5.799	5.805	-0.006	94	14758	6.01	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83	6.293	6.293	0.000	1	581	0.2051	M
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.628				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.470				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	1	189	0.0162	M
74 m-Xylene & p-Xylene	106	8.896	8.890	0.006	1	278	0.0613	M
75 o-Xylene	106		9.335				ND	
76 Styrene	104	9.347	9.347	0.000	1	0	0	M
77 Bromoform	173		9.536				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105	10.896	10.890	0.006	87	833	0.0903	M
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.383				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
136 n-Decane	57		0.000				ND	
133 Isooctane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
137 C6-C10	1		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
139 C6-C12	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		109.4	
S 100 Xylenes, Total	1				0		0.0613	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

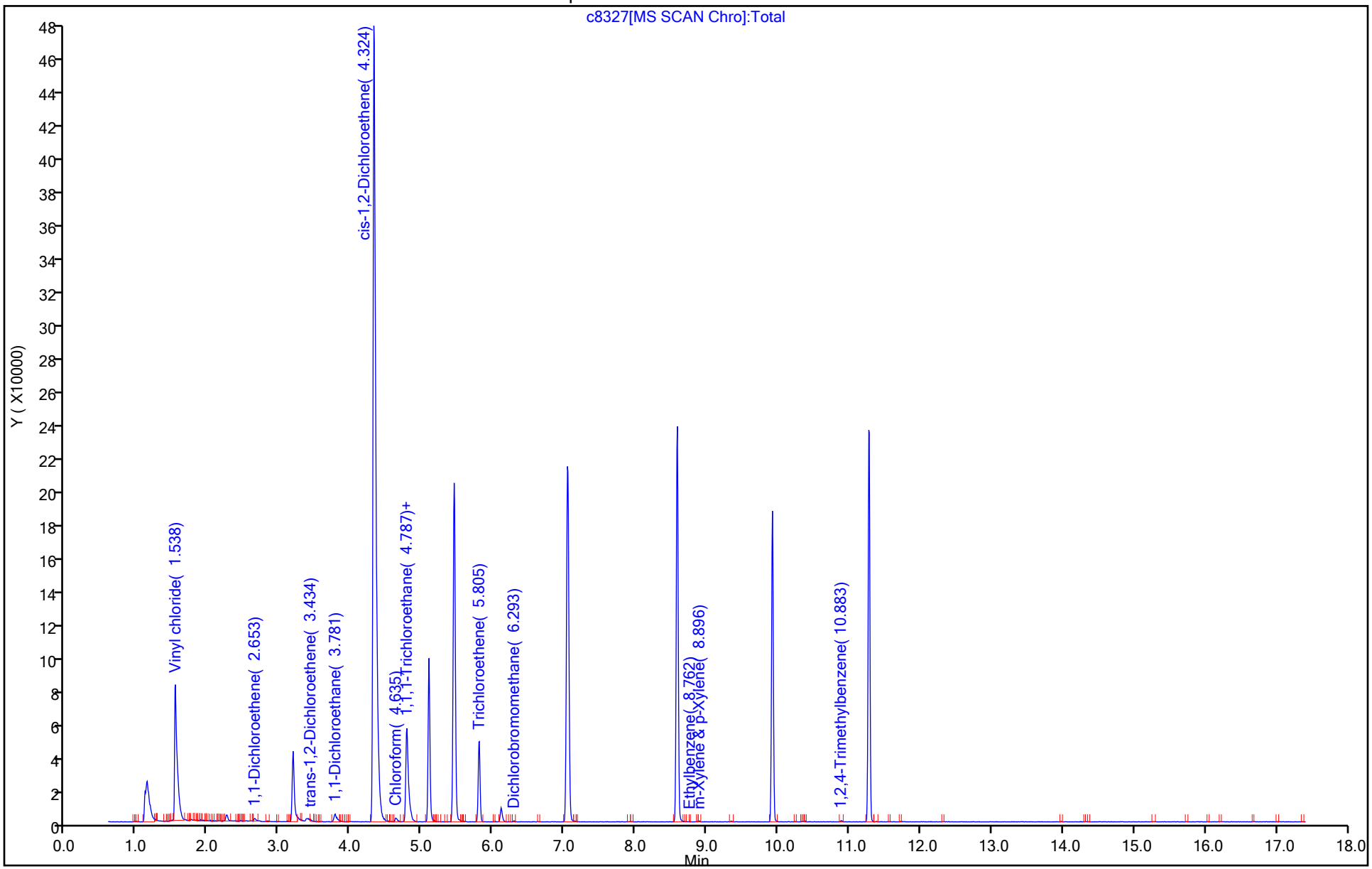
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 07:10:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8327.D				
Injection Date:	20-Nov-2020 04:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-C-18	Lab Sample ID:	310-140187-18	Worklist Smp#:	12
Client ID:	GW-111120-BE-036				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	12
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8327.D
Lims ID: 240-140187-C-18
Client ID: GW-111120-BE-036
Sample Type: Client
Inject. Date: 20-Nov-2020 04:09:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062748-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:05:42

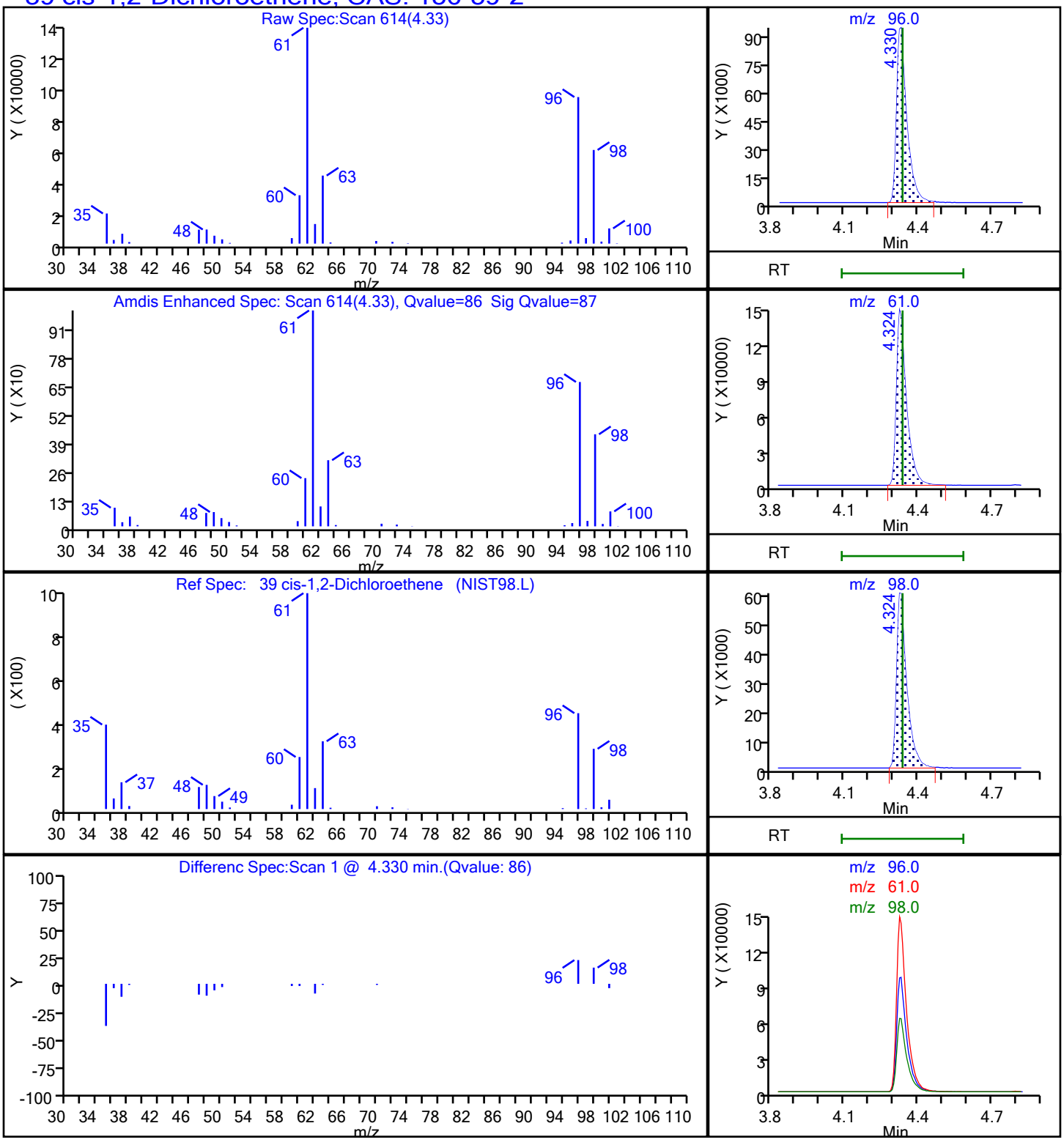
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.5	2101.41
$ 6 Toluene-d8 (Surr)	50.0	51.8	2073.82
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.9	1954.15

Report Date: 20-Nov-2020 07:10:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8327.D				
Injection Date:	20-Nov-2020 04:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

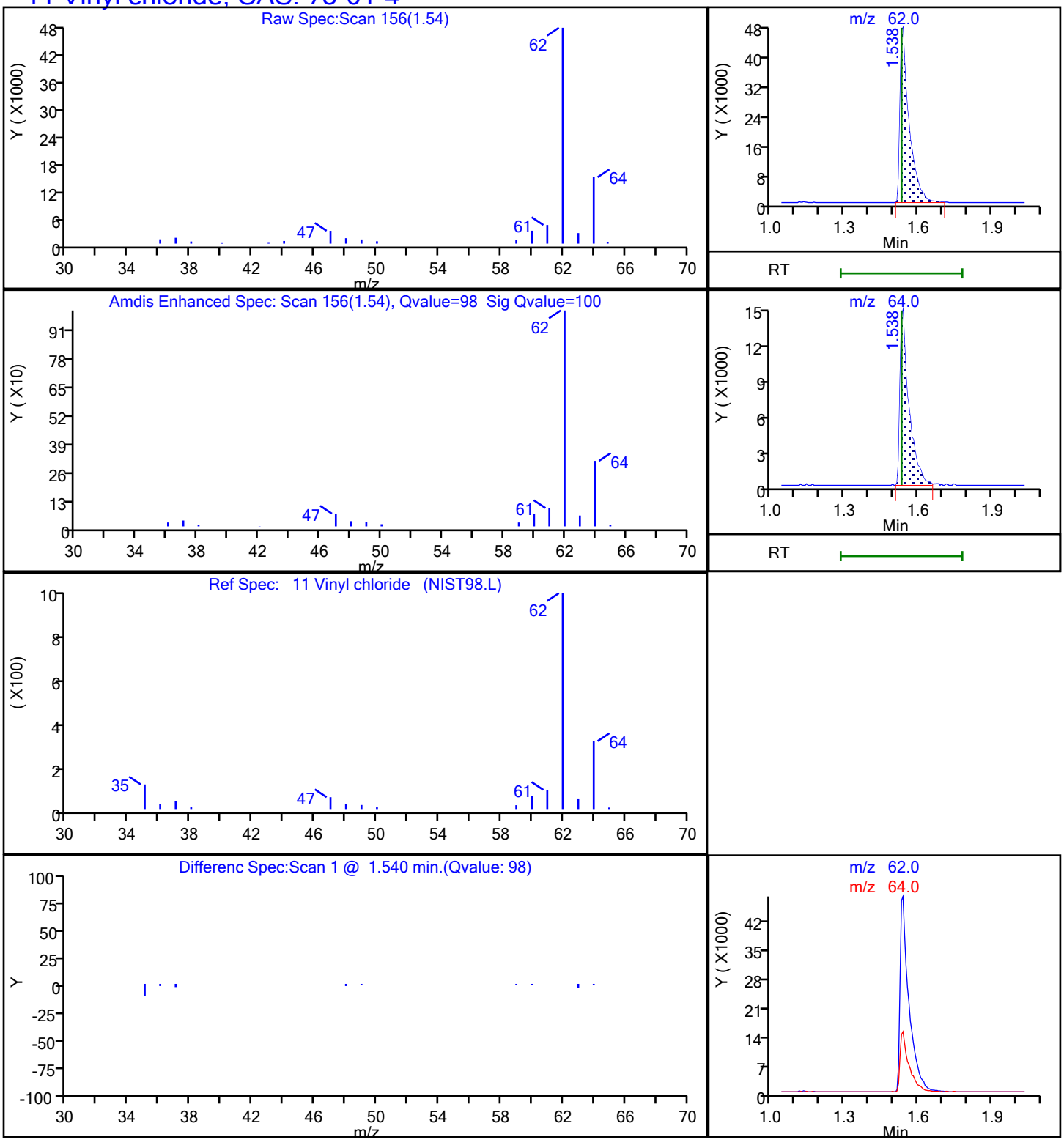


Report Date: 20-Nov-2020 07:10:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8327.D				
Injection Date:	20-Nov-2020 04:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

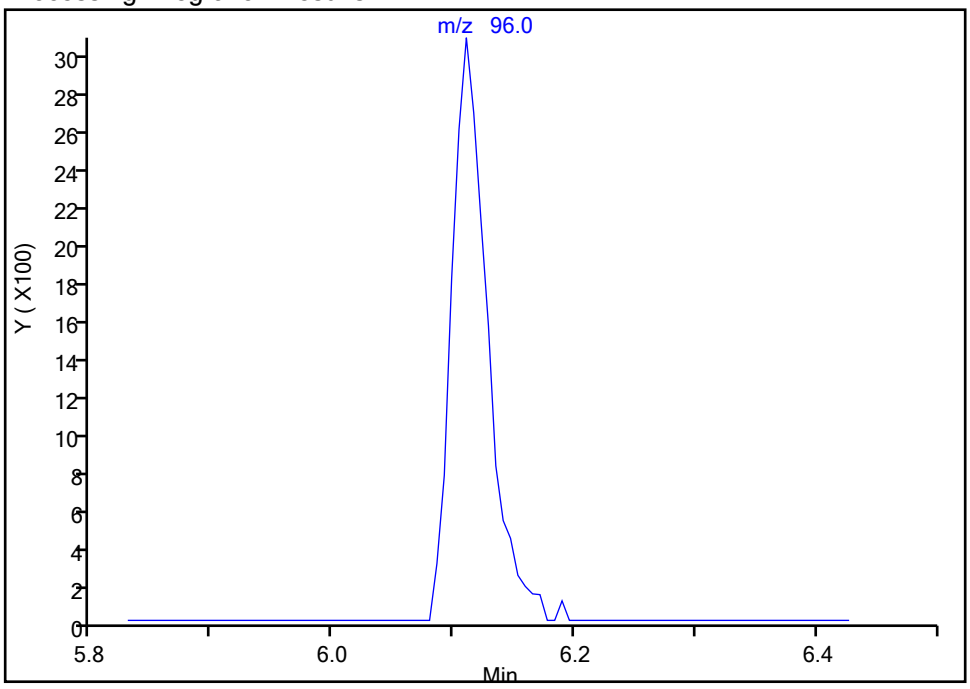
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8327.D				
Injection Date:	20-Nov-2020 04:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-18	Lab Sample ID:	310-140187-18		
Client ID:	GW-111120-BE-036				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

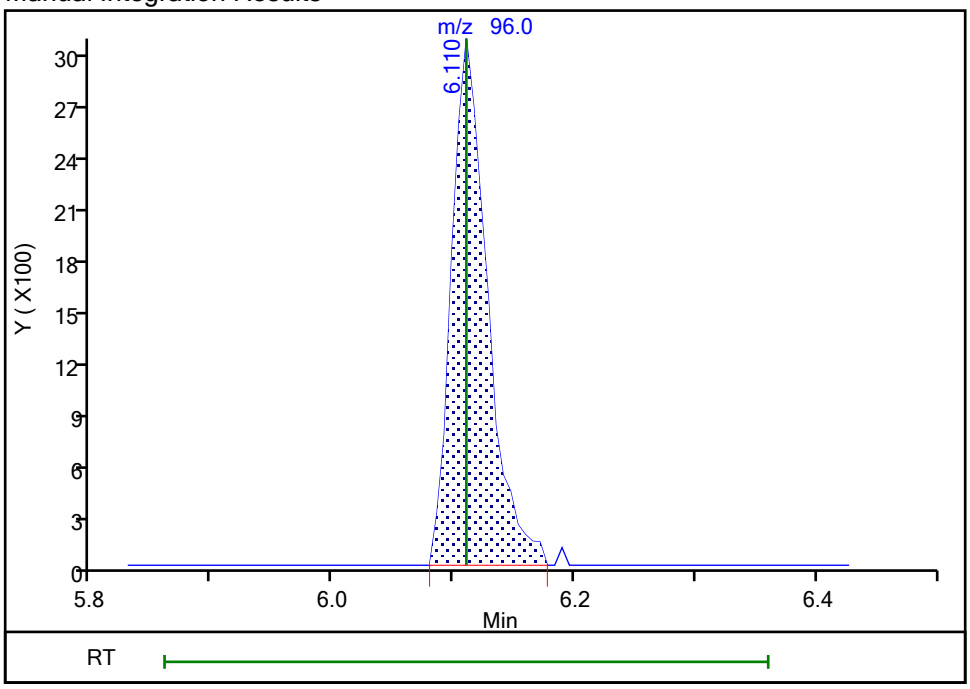
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6213
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 07:04:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-037 Lab Sample ID: 240-140187-19

Matrix: Water Lab File ID: c8251.D

Analysis Method: 8260D Date Collected: 11/11/2020 14:57

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	0.28	J	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.6		1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-037 Lab Sample ID: 240-140187-19

Matrix: Water Lab File ID: c8251.D

Analysis Method: 8260D Date Collected: 11/11/2020 14:57

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D
Lims ID: 240-140187-A-19
Client ID: GW-111120-BE-037
Sample Type: Client
Inject. Date: 18-Nov-2020 15:03:30 ALS Bottle#: 29 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-027
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:48:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.348	3.385	-0.037	0	518	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	167858	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5224	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	121578	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53605	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	39699	52.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	158646	50.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.920	0.006	86	43228	49.3	
$ 8 BFB	95	9.920	9.920	0.000	81	57662	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.544	1.532	0.012	97	4990	1.61	M
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43	2.714	2.715	0.000	96	1387	-0.1311	M
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.842	2.843	-0.001	35	1219	0.2385	M
105 Isopropyl alcohol	45	2.885	2.885	0.000	89	1248	15.8	Ma
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96	3.397	3.391	0.006	0	560	0.2843	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	84	16443	7.30	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58	6.165	6.159	0.006	1	49	0	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750			ND		
74 m-Xylene & p-Xylene	106		8.890			ND		
75 o-Xylene	106		9.329			ND		
76 Styrene	104		9.347			ND		
77 Bromoform	173		9.530			ND		
78 Isopropylbenzene	105		9.762			ND		
79 Bromobenzene	156		10.085			ND		
80 1,1,2,2-Tetrachloroethane	83		10.103			ND		
81 1,2,3-Trichloropropane	110		10.140			ND		
82 trans-1,4-Dichloro-2-butene	53		10.170			ND		
83 N-Propylbenzene	91		10.237			ND		
84 2-Chlorotoluene	91		10.323			ND		
85 4-Chlorotoluene	91		10.451			ND		
86 1,3,5-Trimethylbenzene	105		10.457			ND		
87 tert-Butylbenzene	119		10.835			ND		
88 1,2,4-Trimethylbenzene	105		10.890			ND		
89 sec-Butylbenzene	105		11.097			ND		
90 1,3-Dichlorobenzene	146		11.201			ND		
91 4-Isopropyltoluene	119		11.280			ND		
92 1,4-Dichlorobenzene	146		11.304			ND		
110 1,2,3-Trimethylbenzene	105		11.384			ND		
113 Benzyl chloride	126		11.475			ND		
93 1,2-Dichlorobenzene	146		11.743			ND		
94 n-Butylbenzene	91		11.768			ND		
95 1,2-Dibromo-3-Chloropropane	75		12.676			ND		
96 1,2,4-Trichlorobenzene	180		12.950			ND		
112 1,3,5-Trichlorobenzene	180		13.688			ND		
97 Hexachlorobutadiene	225		13.926			ND		
98 Naphthalene	128		13.975			ND		
99 1,2,3-Trichlorobenzene	180		14.273			ND		
127 1-Chloro-1-fluoroethane TIC	1		0.000			ND		
124 Acetaldehyde TIC	1		0.000			ND		
132 t-Amyl alcohol	1		0.000			ND		
130 Dichloroacetonitrile TIC	1		0.000			ND		
133 Isooctane	57		0.000			ND		
129 Pentachloroethane	167		0.000			ND		
138 Dodecane	57		0.000			ND		
123 Cyclohexanone	55		0.000			ND		
139 C6-C12	1		0.000			ND		
136 n-Decane	57		0.000			ND		
131 1-Chlorohexane	55		0.000			ND		
137 C6-C10	1		0.000			ND		
128 1,1-Dichloroacetone TIC	43		4.690			ND		
S 101 1,2-Dichloroethene, Total	1				0		7.58	
S 100 Xylenes, Total	1		0.000			ND		
S 102 1,3-Dichloropropene, Total	1		0.000			ND		
T 120 Methyl n-amyl ketone TIC	1		9.100			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

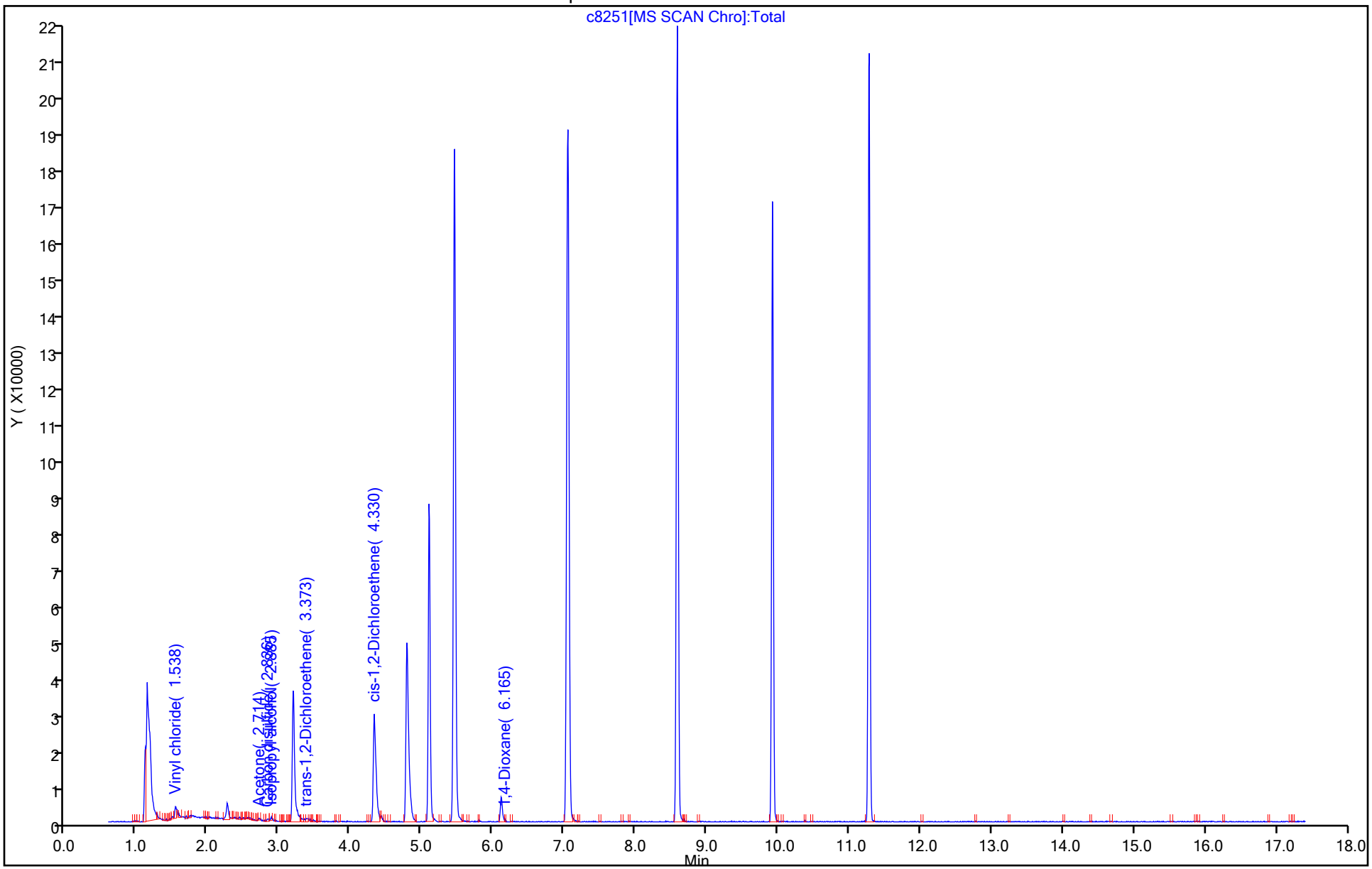
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:55:00 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19	Worklist Smp#:	27
Client ID:	GW-111120-BE-037				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D
Lims ID: 240-140187-A-19
Client ID: GW-111120-BE-037
Sample Type: Client
Inject. Date: 18-Nov-2020 15:03:30 ALS Bottle#: 29 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-027
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:48:18

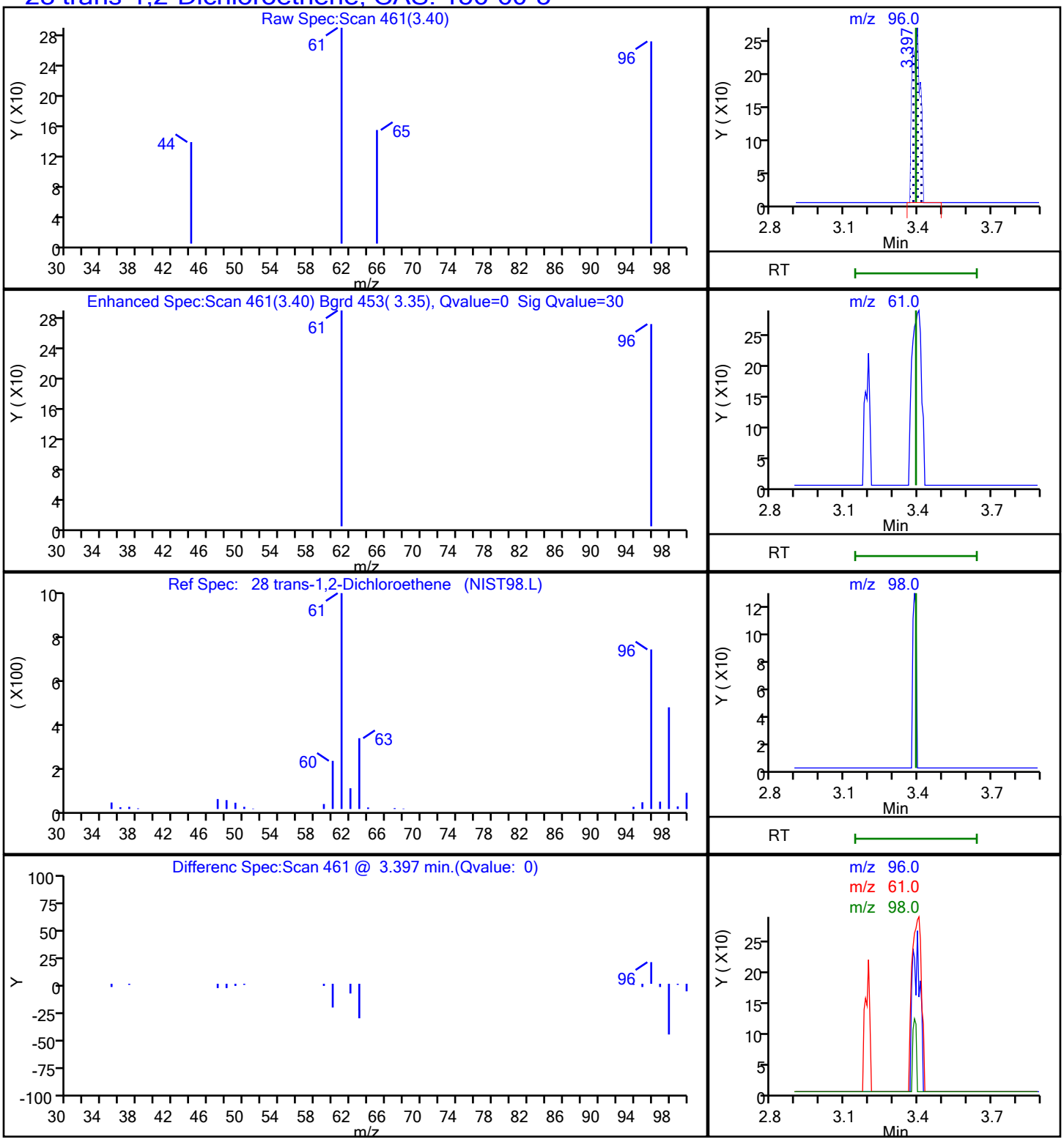
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.8	105.54
$ 6 Toluene-d8 (Surr)	50.0	50.9	101.79
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.3	98.58

Report Date: 19-Nov-2020 06:55:00 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	29	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

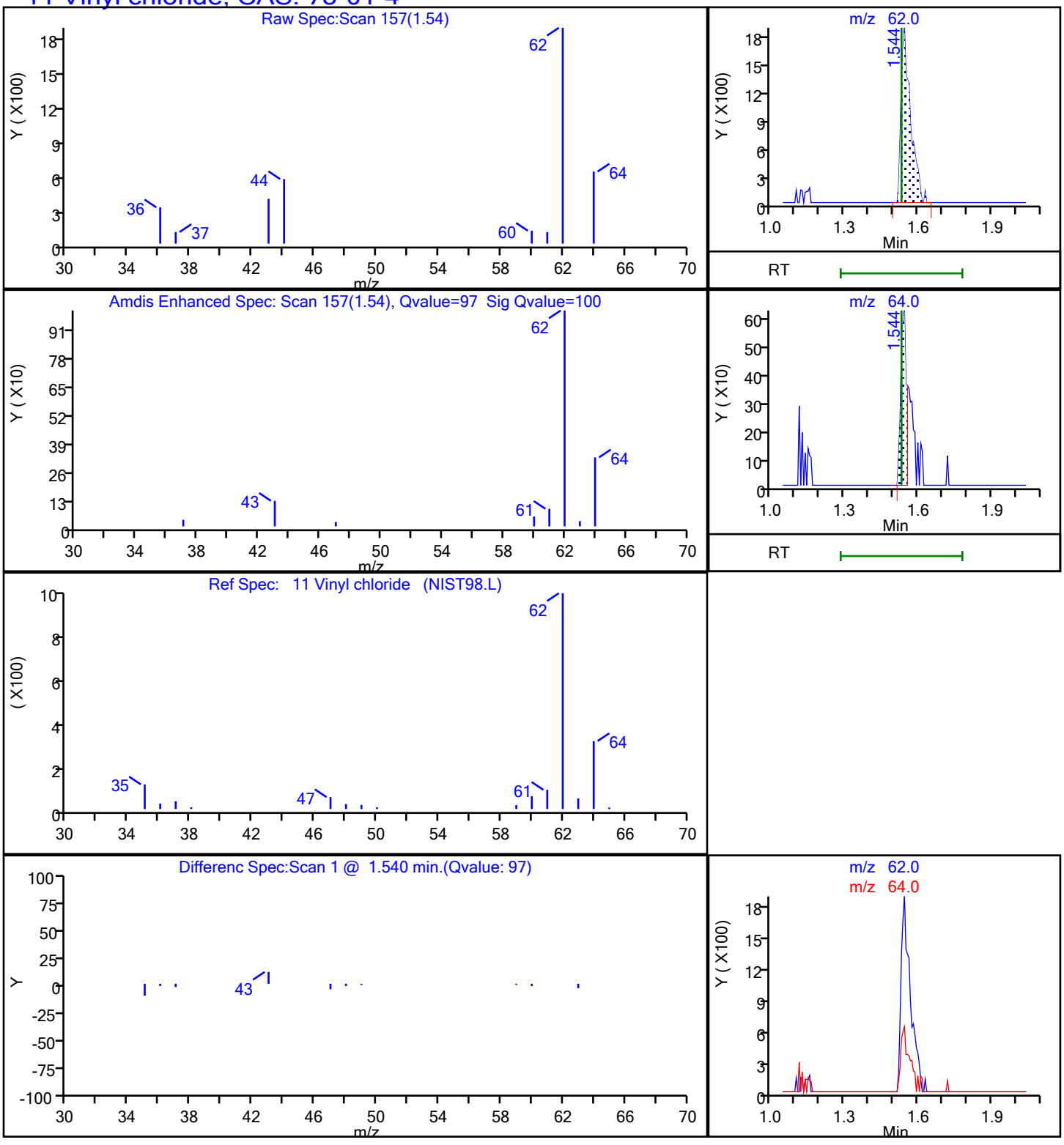


Report Date: 19-Nov-2020 06:55:00 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	29	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

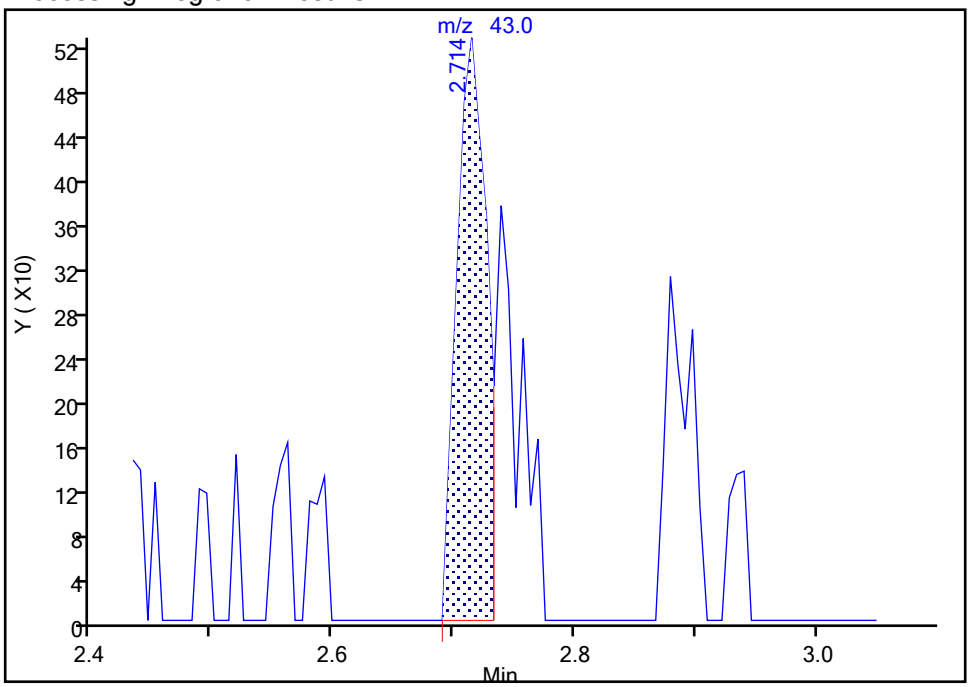
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D		
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19
Client ID:	GW-111120-BE-037		
Operator ID:	sjn	ALS Bottle#:	29 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

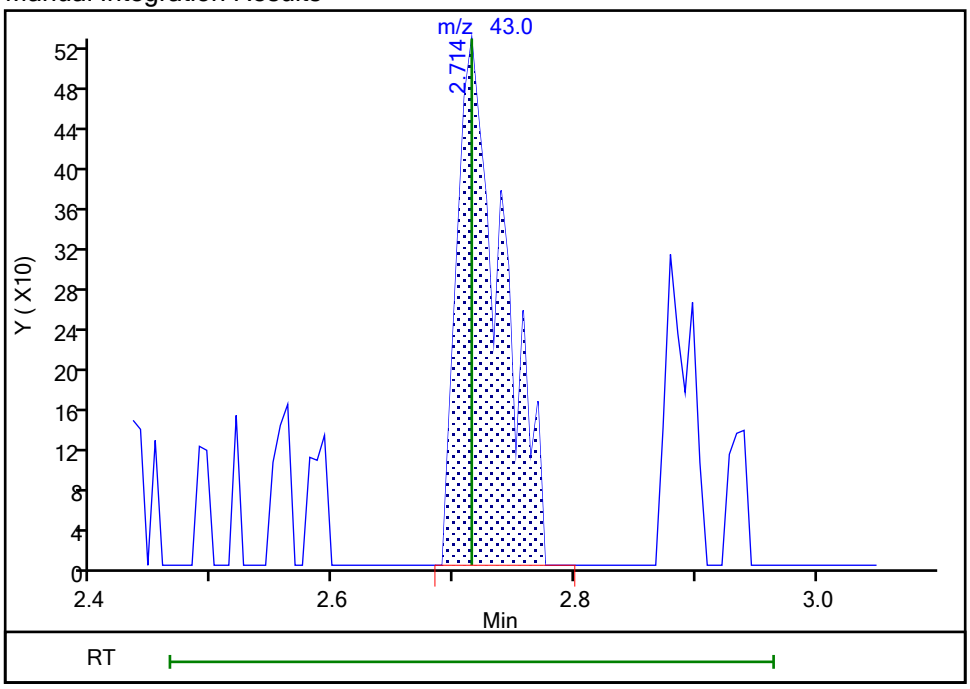
Processing Integration Results

RT: 2.71
Area: 911
Amount: -1.250651
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 1387
Amount: -0.131086
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:47:59

Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

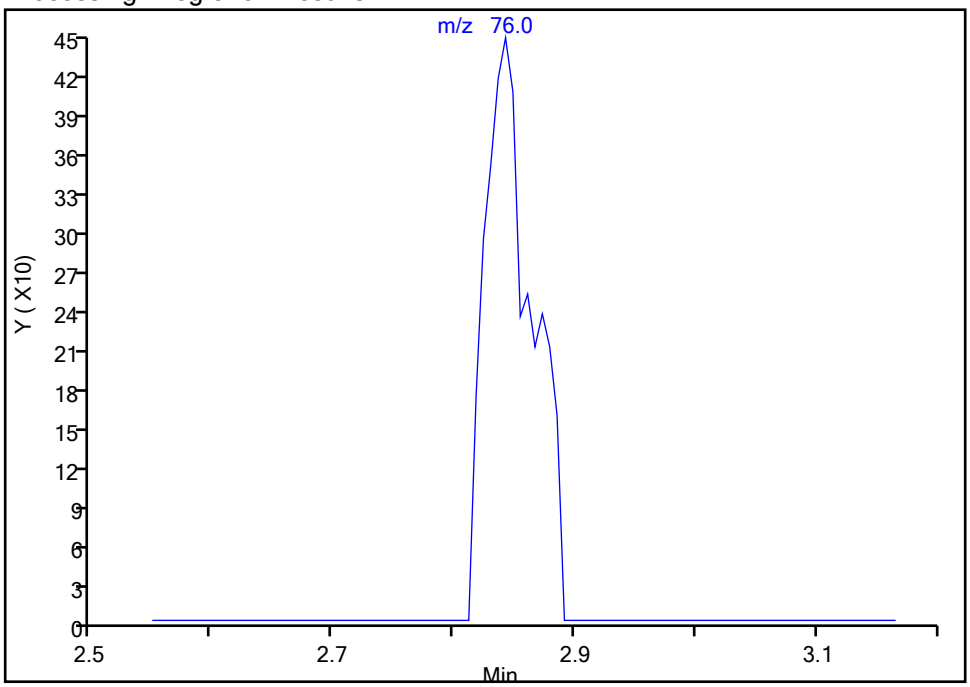
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	29	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

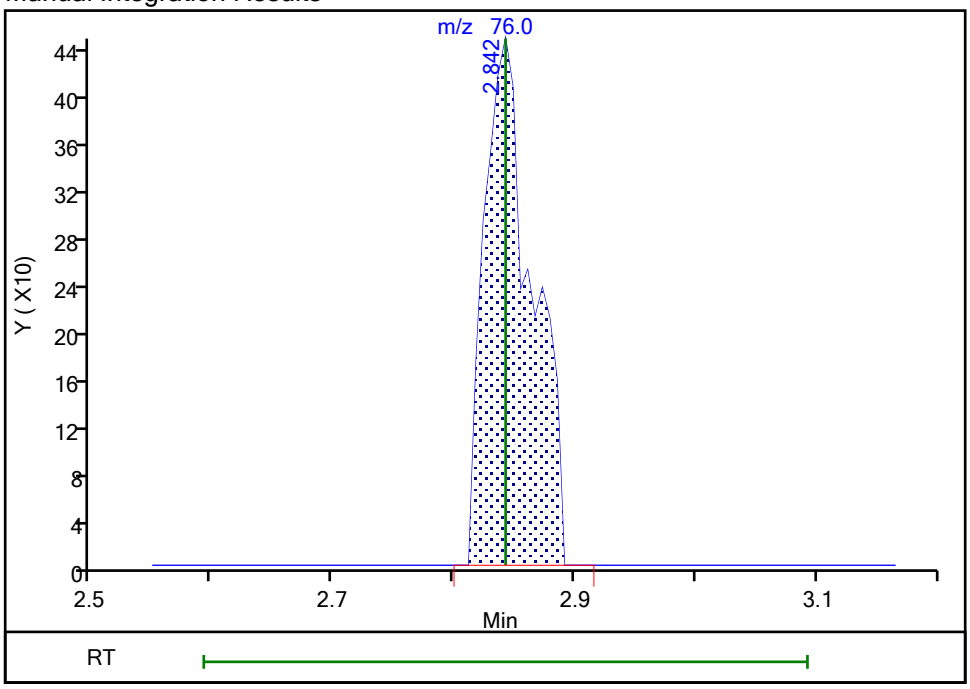
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 1219
Amount: 0.238462
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:47:54
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

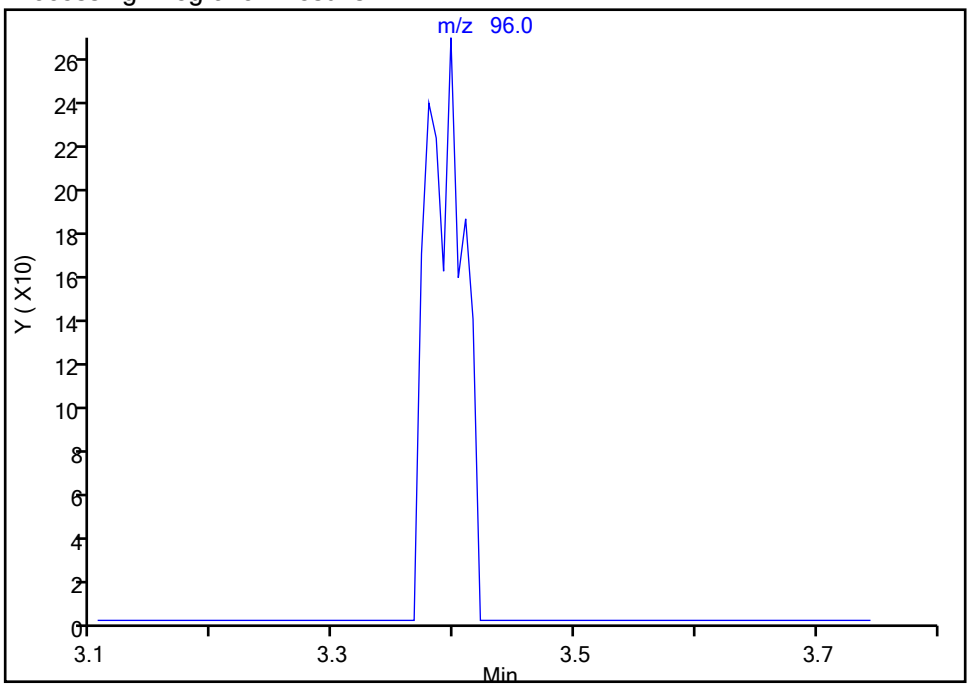
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	29	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

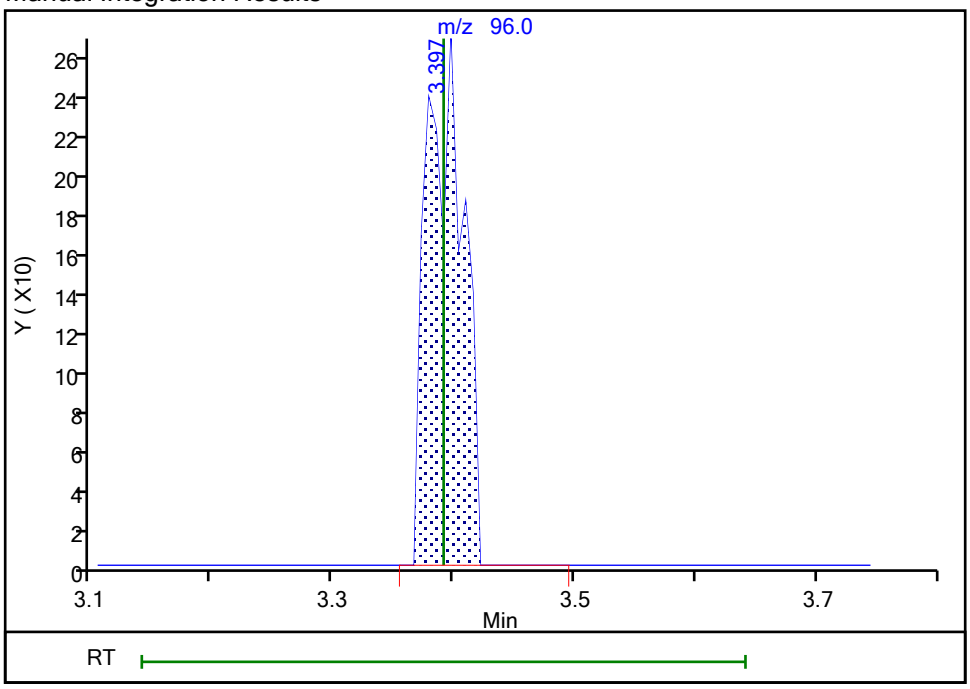
Not Detected
Expected RT: 3.39

Processing Integration Results



RT: 3.40
Area: 560
Amount: 0.284308
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 19-Nov-2020 06:47:41
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

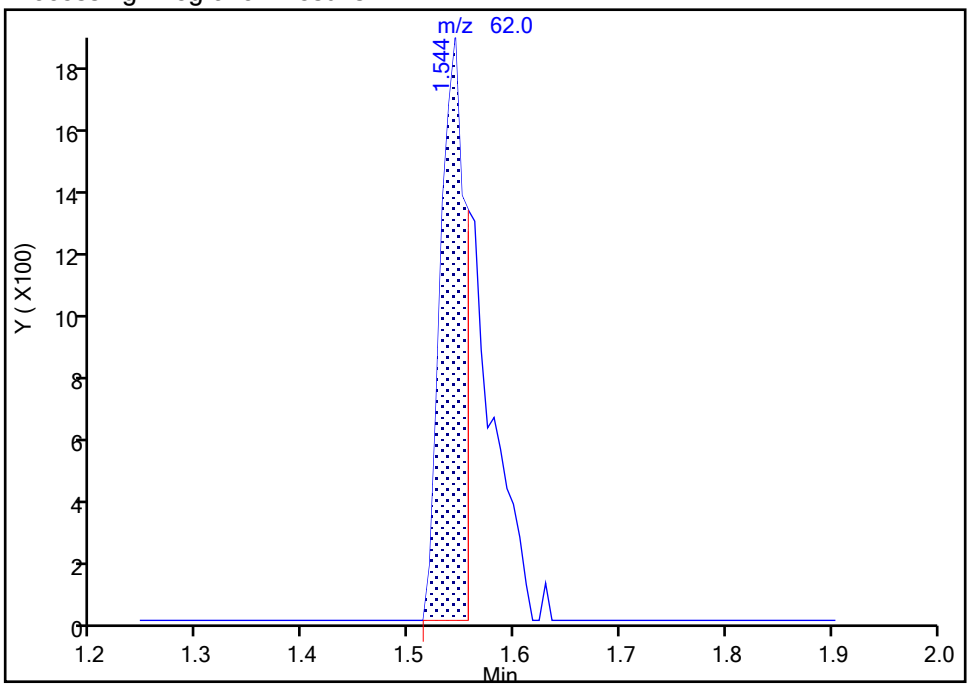
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D		
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19
Client ID:	GW-111120-BE-037		
Operator ID:	sjn	ALS Bottle#:	29 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

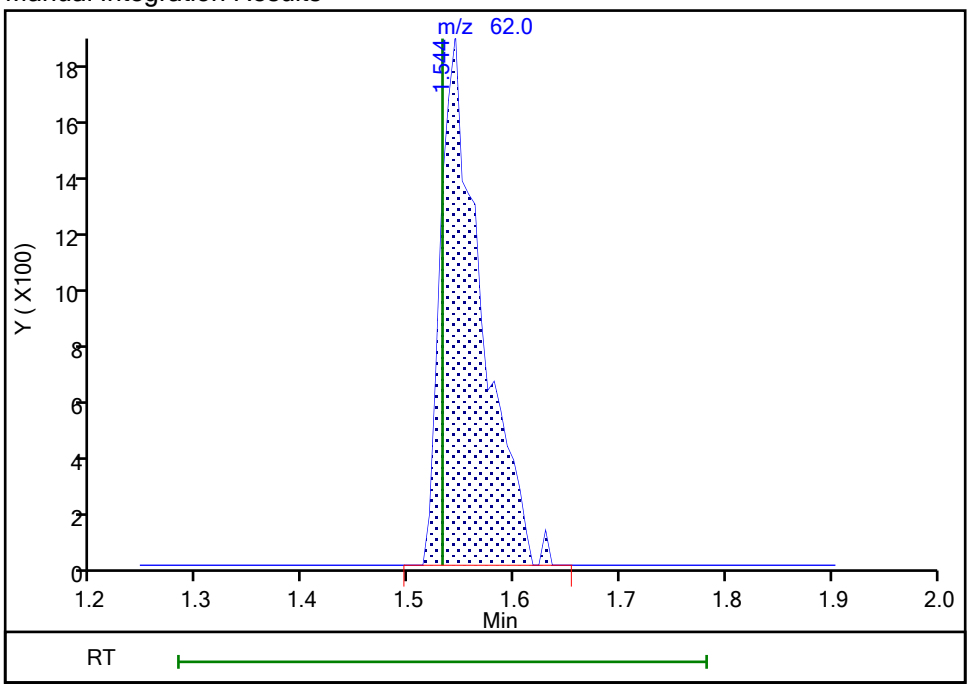
Processing Integration Results

RT: 1.54
Area: 3069
Amount: 0.992179
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 4990
Amount: 1.613221
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:48:05

Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

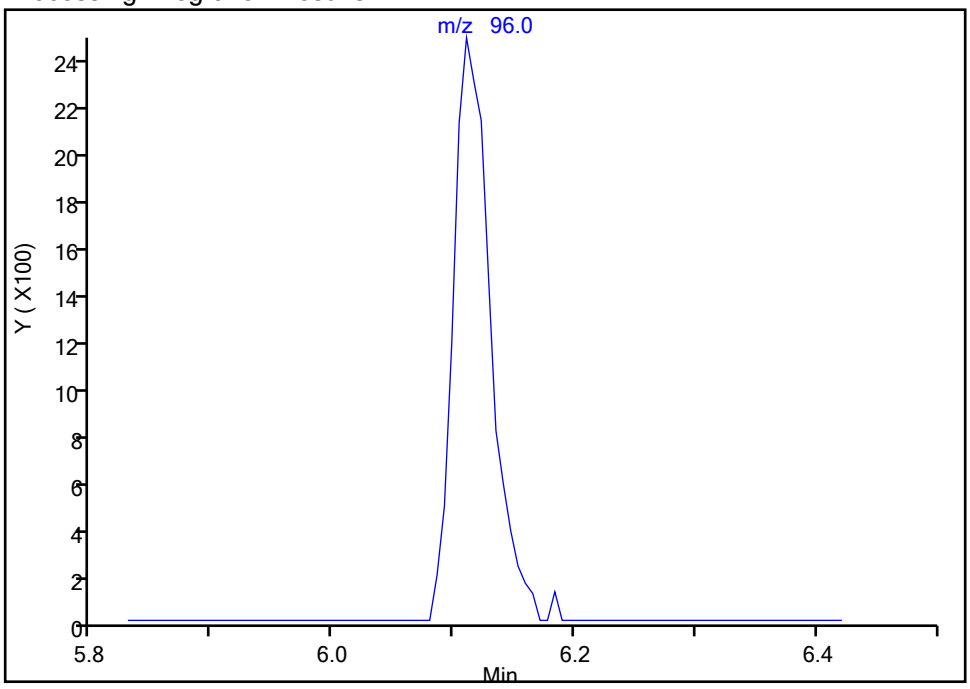
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8251.D				
Injection Date:	18-Nov-2020 15:03:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	29	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

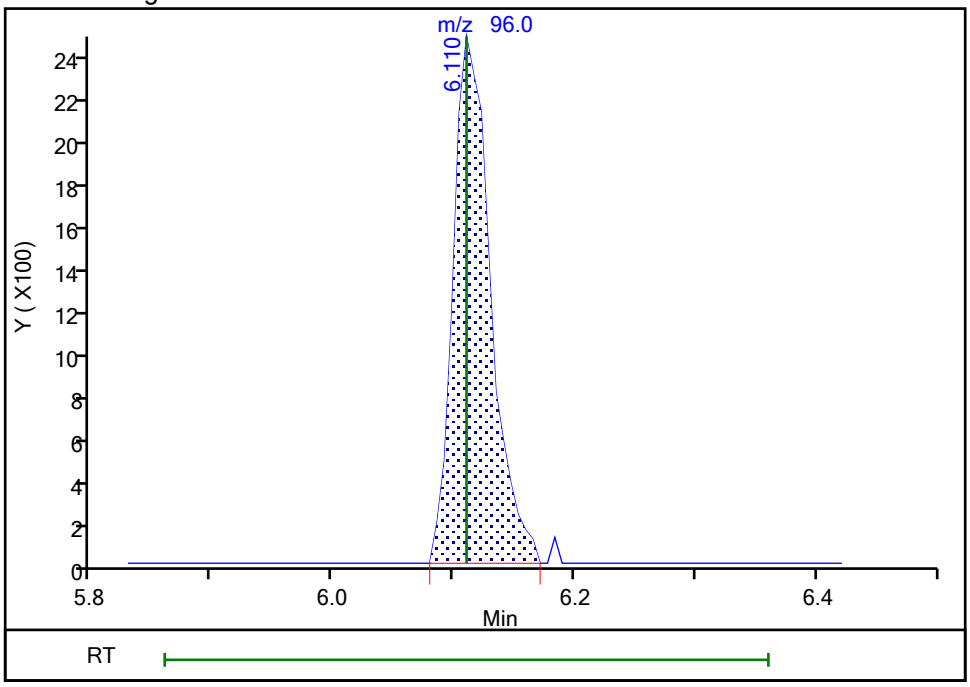
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5224
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:48:15
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-037 Lab Sample ID: 240-140187-19

Matrix: Water Lab File ID: c8303.D

Analysis Method: 8260D Date Collected: 11/11/2020 14:57

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 11:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	3.2	B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8303.D
Lims ID: 240-140187-B-19
Client ID: GW-111120-BE-037
Sample Type: Client
Inject. Date: 19-Nov-2020 11:09:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-018
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:43:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.355	3.373	-0.018	0	498	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	180641	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	95	5312	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	127712	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	57365	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	42177	52.1	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	169423	51.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	43808	46.7	
$ 8 BFB	95	9.920	9.920	0.000	82	61373	NR	
9 Dichlorodifluoromethane	85	1.142	1.288	-0.146	1	46	0.0125	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	97	4343	1.30	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.379	3.391	-0.012	16	319	0.1505	M
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.324	4.330	-0.006	85	7779	3.21	
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		3.36	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

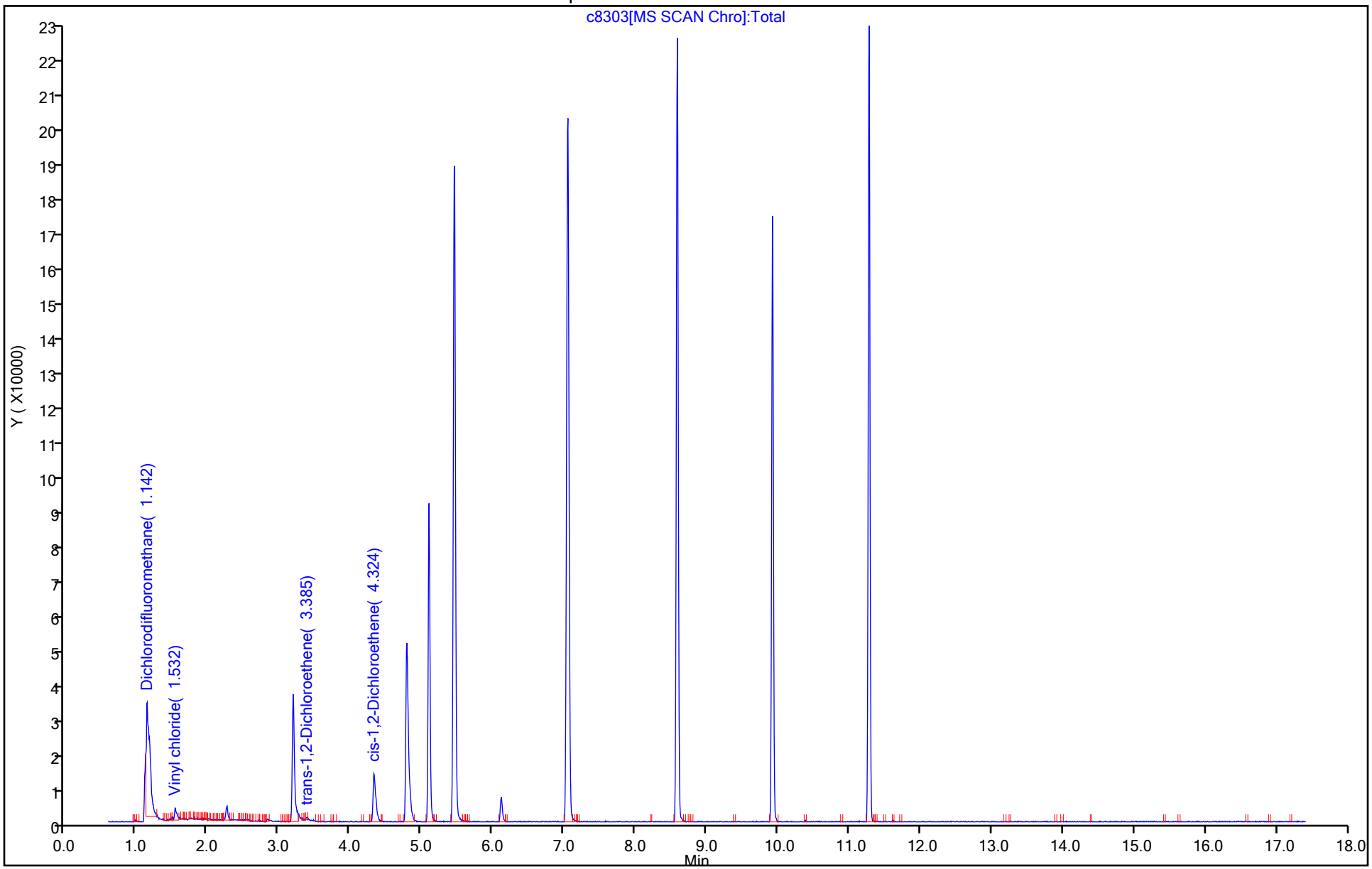
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8303.D				
Injection Date:	19-Nov-2020 11:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-19	Lab Sample ID:	310-140187-19	Worklist Smp#:	18
Client ID:	GW-111120-BE-037				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8303.D
Lims ID: 240-140187-B-19
Client ID: GW-111120-BE-037
Sample Type: Client
Inject. Date: 19-Nov-2020 11:09:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-018
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:43:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.1	104.19
$ 6 Toluene-d8 (Surr)	50.0	51.7	103.48
$ 7 4-Bromofluorobenzene (Surr)	50.0	46.7	93.36

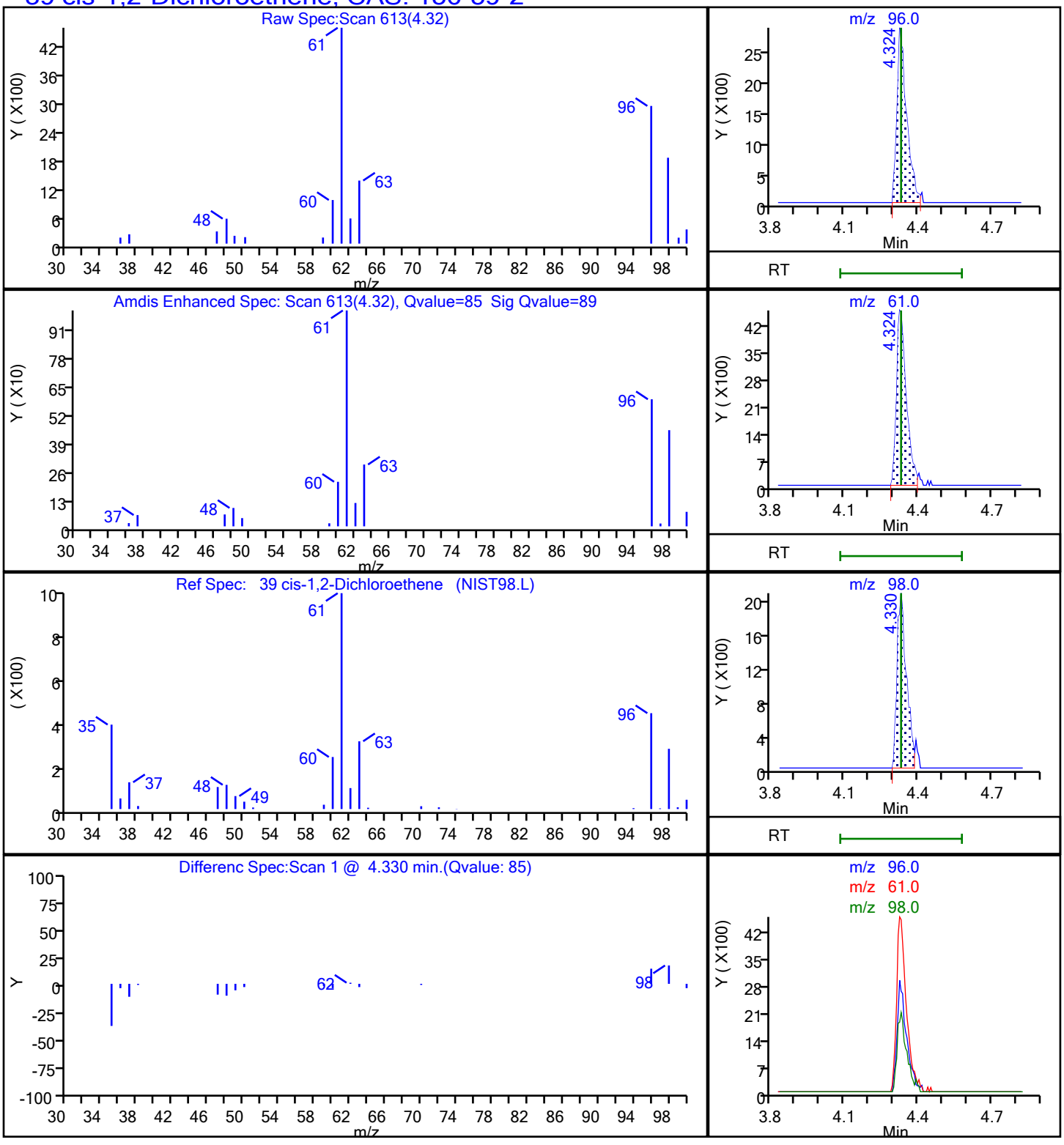
Report Date: 20-Nov-2020 12:14:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8303.D

Injection Date:	19-Nov-2020 11:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

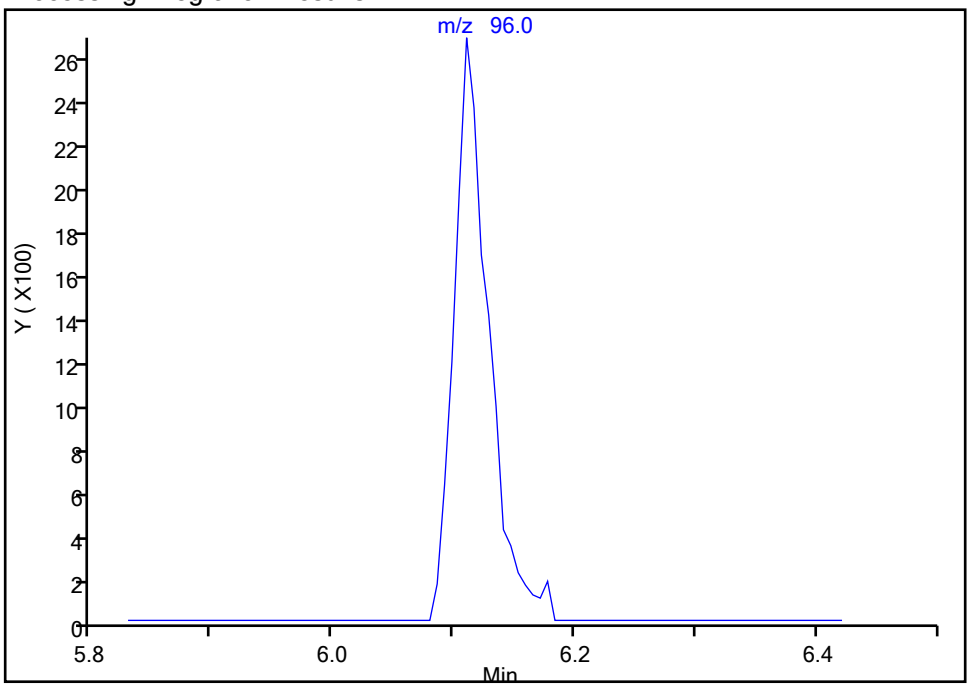
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8303.D				
Injection Date:	19-Nov-2020 11:09:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-19	Lab Sample ID:	310-140187-19		
Client ID:	GW-111120-BE-037				
Operator ID:	sjn	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

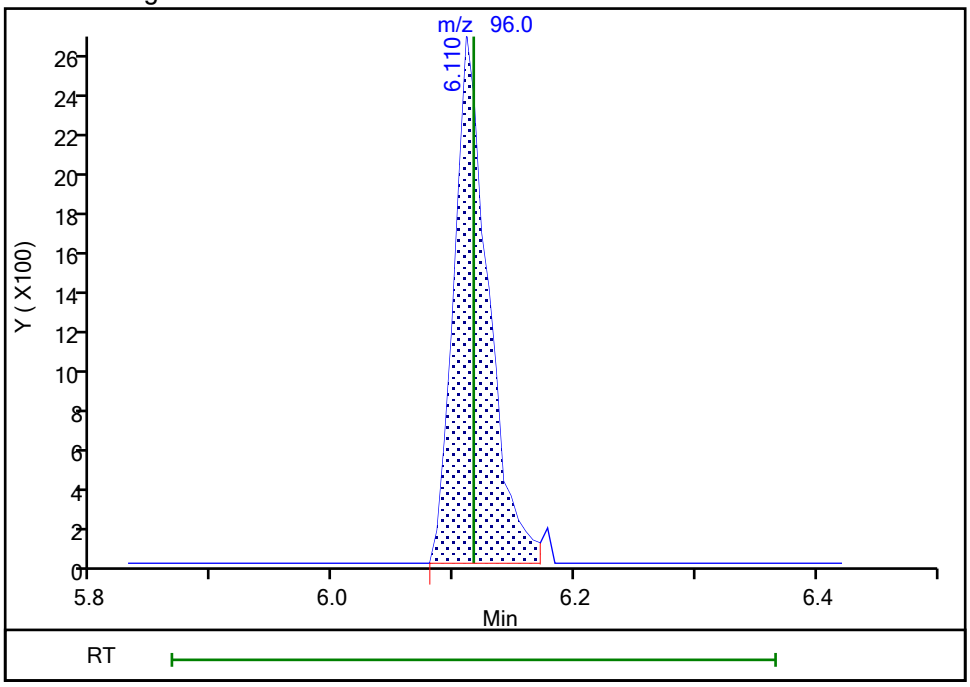
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5312
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:43:37
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: TB-111220-BE-003 Lab Sample ID: 240-140187-20

Matrix: Water Lab File ID: c8252.D

Analysis Method: 8260D Date Collected: 11/12/2020 09:00

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: TB-111220-BE-003 Lab Sample ID: 240-140187-20

Matrix: Water Lab File ID: c8252.D

Analysis Method: 8260D Date Collected: 11/12/2020 09:00

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8252.D
Lims ID: 240-140187-A-20
Client ID: TB-111220-BE-003
Sample Type: Client
Inject. Date: 18-Nov-2020 15:28:30 ALS Bottle#: 30 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-028
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:49:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.373	3.385	-0.012	0	213	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	181038	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	94	5599	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	129513	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.280	-0.006	98	57367	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	42132	51.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	170037	51.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	82	44990	47.9	
$ 8 BFB	95	9.920	9.920	0.000	81	63315	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.465				ND	
19 Acrolein	56		2.556				ND	
20 1,1-Dichloroethene	96		2.660				ND	
21 112TCTFE	101		2.678				ND	
22 Acetone	43		2.715				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.843				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.038				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.239				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	82	3624	1.49	M
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.428				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.550				ND	
44 Tetrahydrofuran	71	4.604	4.604	0.000	80	434	2.41	M
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.806				ND	
47 Cyclohexane	56		4.867				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.116				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.312				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.464				ND	
65 1,1,2-Trichloroethane	83		7.531				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.707				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.237				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.384				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.768				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.688				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.975				ND	
99 1,2,3-Trichlorobenzene	180		14.273				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
138 Dodecane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43	4.610	4.690	-0.080	39	284		NR
S 101 1,2-Dichloroethene, Total	1				0			1.49
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

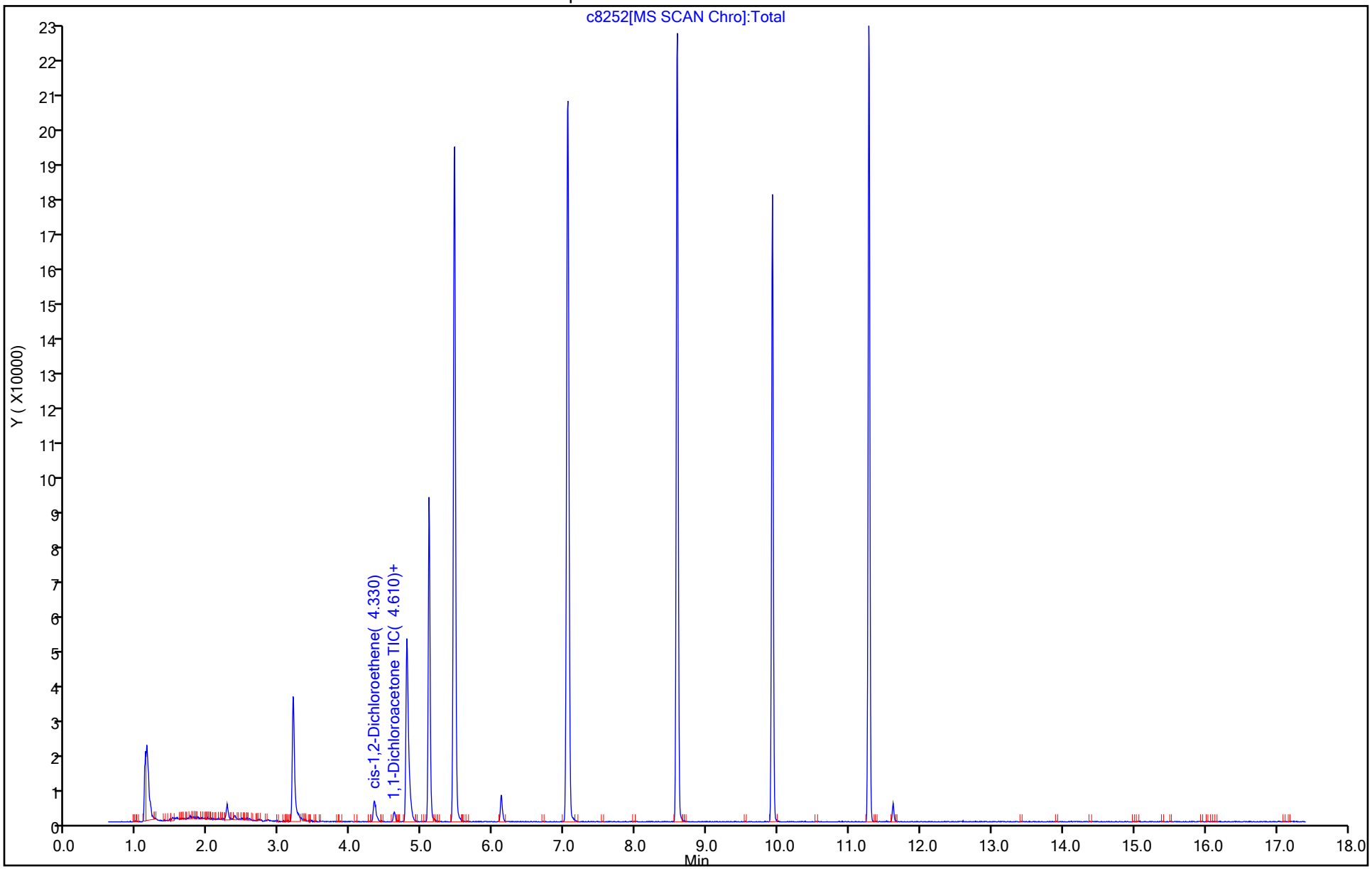
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:55:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8252.D				
Injection Date:	18-Nov-2020 15:28:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-20	Lab Sample ID:	310-140187-20	Worklist Smp#:	28
Client ID:	TB-111220-BE-003				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8252.D
Lims ID: 240-140187-A-20
Client ID: TB-111220-BE-003
Sample Type: Client
Inject. Date: 18-Nov-2020 15:28:30 ALS Bottle#: 30 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-028
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:49:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.9	103.85
$ 6 Toluene-d8 (Surr)	50.0	51.2	102.41
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.87

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

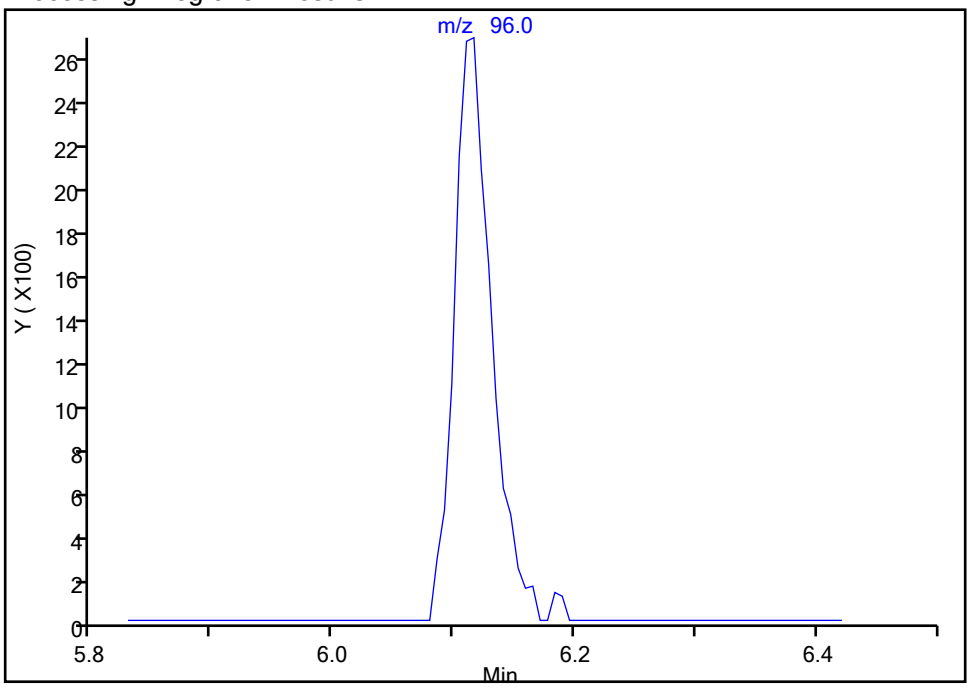
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8252.D				
Injection Date:	18-Nov-2020 15:28:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-20	Lab Sample ID:	310-140187-20		
Client ID:	TB-111220-BE-003				
Operator ID:	sjn	ALS Bottle#:	30	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

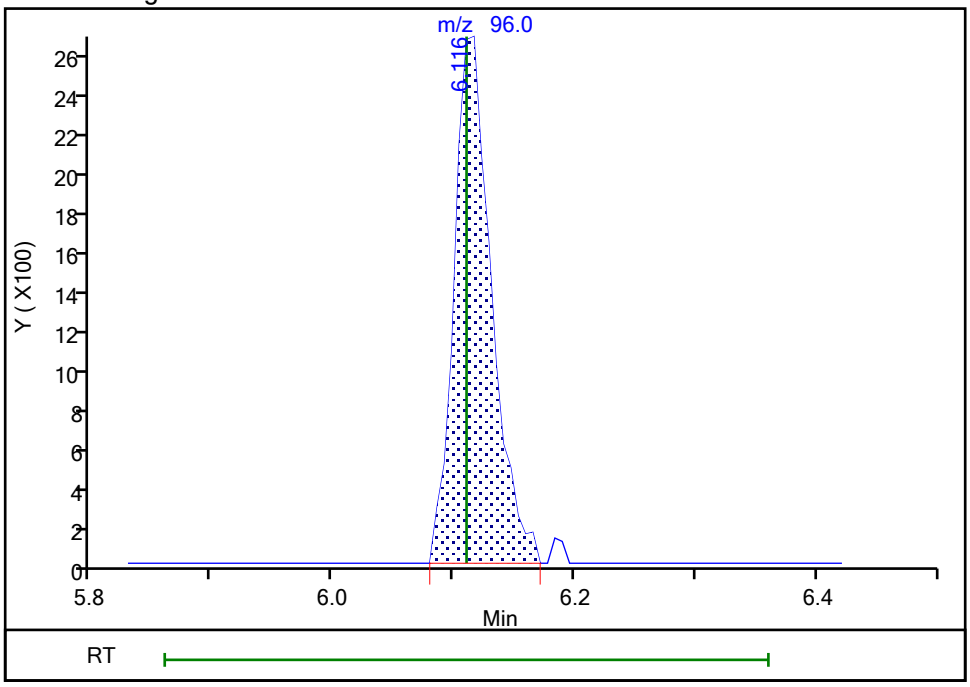
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5599
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:48:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: TB-111220-BE-003 Lab Sample ID: 240-140187-20

Matrix: Water Lab File ID: c8294.D

Analysis Method: 8260D Date Collected: 11/12/2020 09:00

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 07:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.31	J B	1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8294.D
Lims ID: 240-140187-B-20
Client ID: TB-111220-BE-003
Sample Type: Client
Inject. Date: 19-Nov-2020 07:27:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-009
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:27:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.360	3.373	-0.013	0	214	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	168721	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	94	5440	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	122617	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54685	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	39453	52.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	162451	51.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	42701	47.7	
$ 8 BFB	95	9.920	9.920	0.000	81	58632	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.471				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.659				ND	
21 112TCTFE	101		2.684				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	U
25 3-Chloro-1-propene	76		3.001				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.391				ND	
29 Methyl tert-butyl ether	73		3.403				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63		3.781				ND	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.879				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	78	691	0.3050	M
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71	4.604	4.604	0.000	92	478	2.84	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.866				ND	
48 Carbon tetrachloride	117		4.970				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.177				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95		5.805				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.013				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
115 1,4-Dioxane	58		6.165				ND	
57 Methyl methacrylate	69		6.171				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.342				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.695				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.976				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.201				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.310				ND	
110 1,2,3-Trimethylbenzene	105		11.390				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
138 Dodecane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
139 C6-C12	1		0.000				ND	
136 n-Decane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
137 C6-C10	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
128 1,1-Dichloroacetone TIC	43	4.604	4.690	-0.086	43	367	NR	
S 101 1,2-Dichloroethene, Total	1				0		0.3050	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

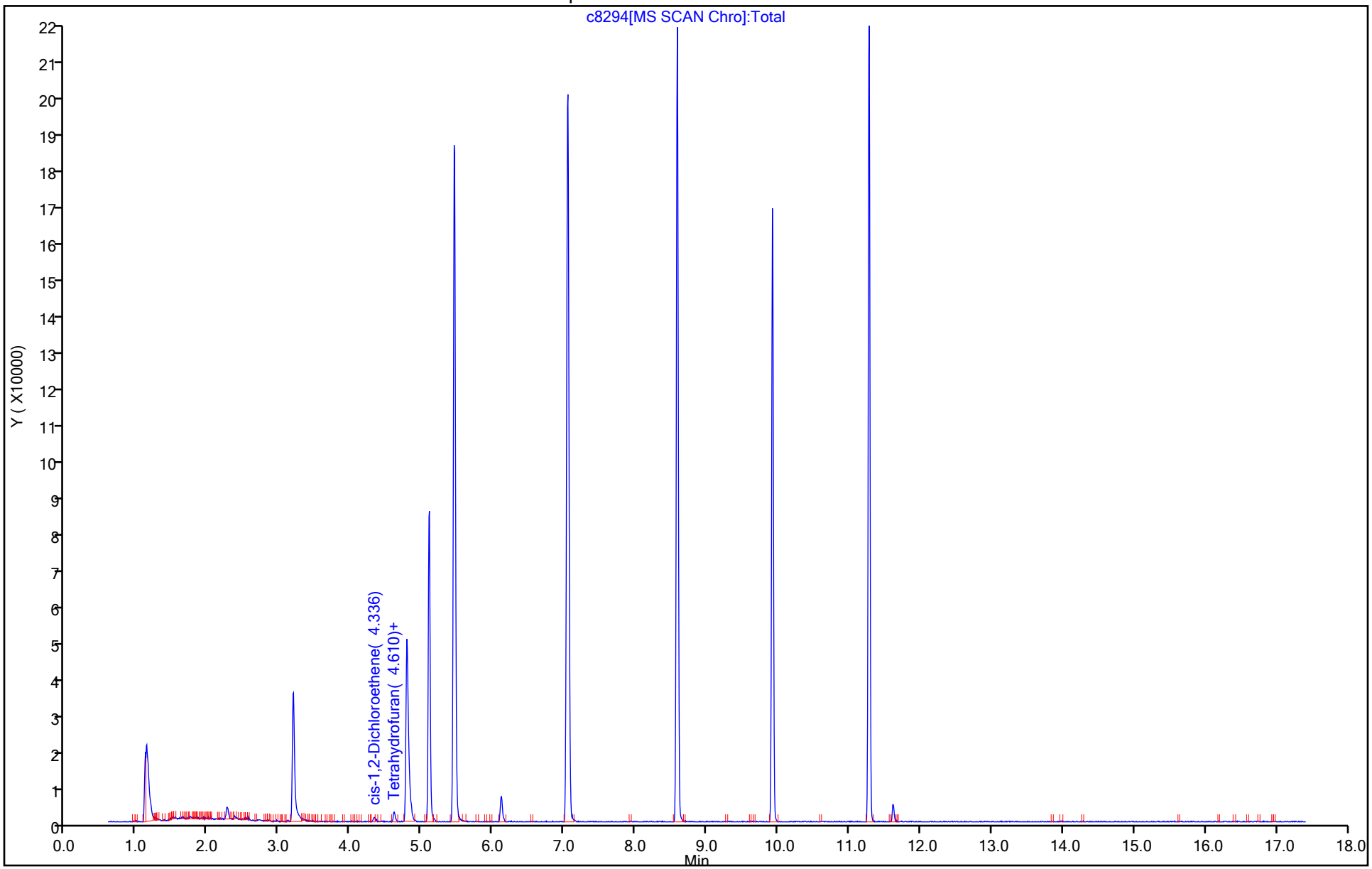
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8294.D				
Injection Date:	19-Nov-2020 07:27:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-20	Lab Sample ID:	310-140187-20	Worklist Smp#:	9
Client ID:	TB-111220-BE-003				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8294.D
Lims ID: 240-140187-B-20
Client ID: TB-111220-BE-003
Sample Type: Client
Inject. Date: 19-Nov-2020 07:27:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-009
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:27:22

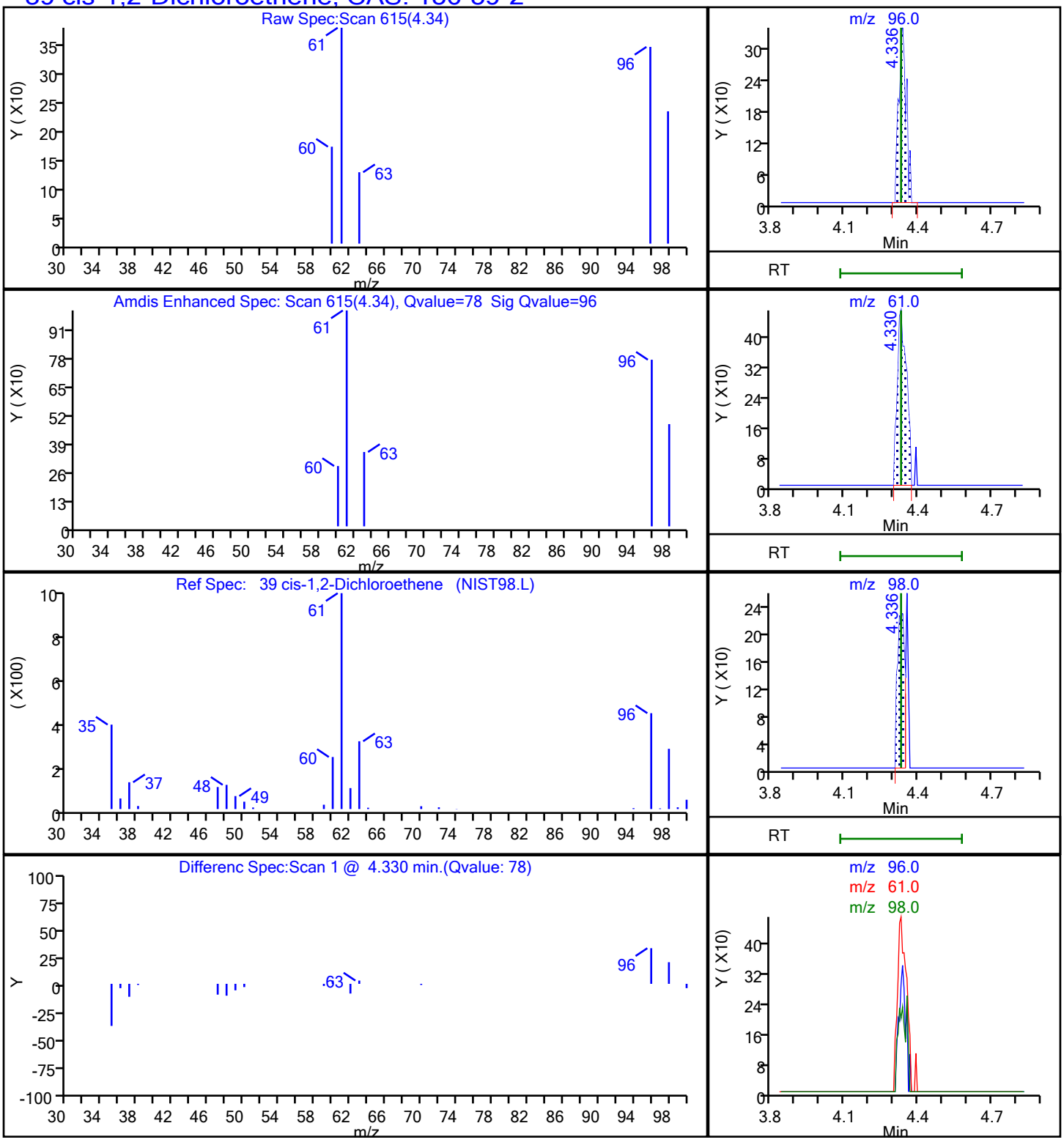
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.2	104.35
$ 6 Toluene-d8 (Surr)	50.0	51.7	103.35
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.7	95.46

Report Date: 20-Nov-2020 12:14:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8294.D				
Injection Date:	19-Nov-2020 07:27:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-20	Lab Sample ID:	310-140187-20		
Client ID:	TB-111220-BE-003				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

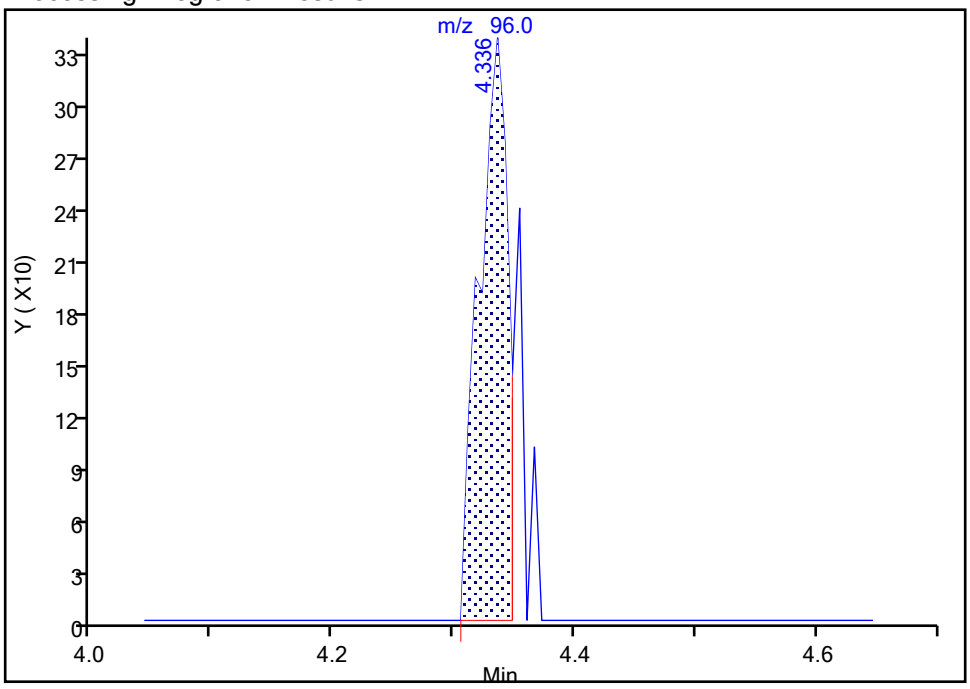
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8294.D				
Injection Date:	19-Nov-2020 07:27:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-20	Lab Sample ID:	310-140187-20		
Client ID:	TB-111220-BE-003				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

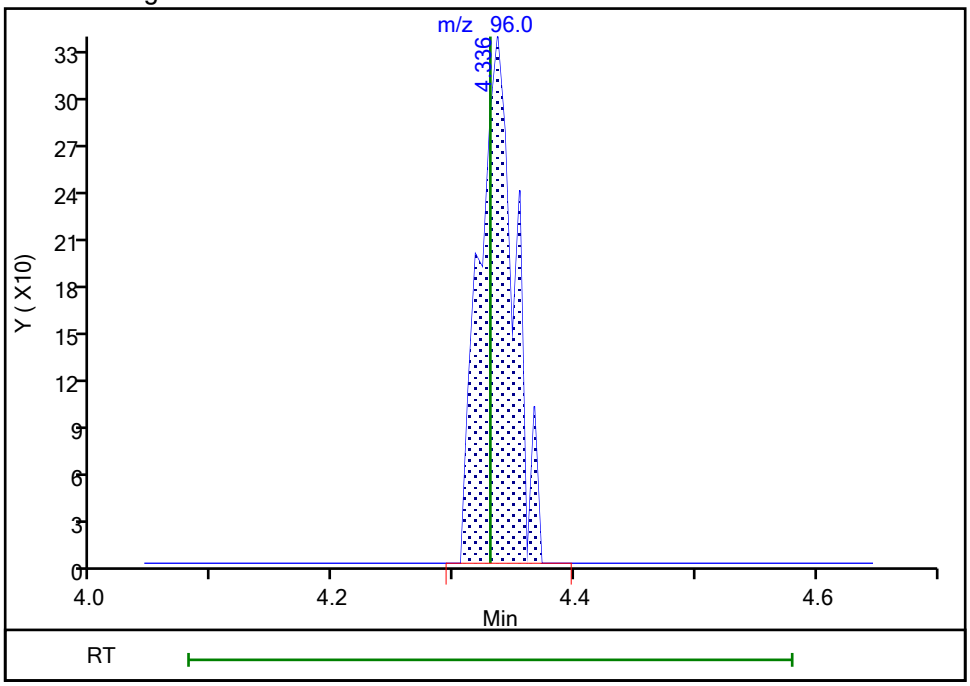
Processing Integration Results

RT: 4.34
Area: 566
Amount: 0.249848
Amount Units: ug/l



Manual Integration Results

RT: 4.34
Area: 691
Amount: 0.305026
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:26:58

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

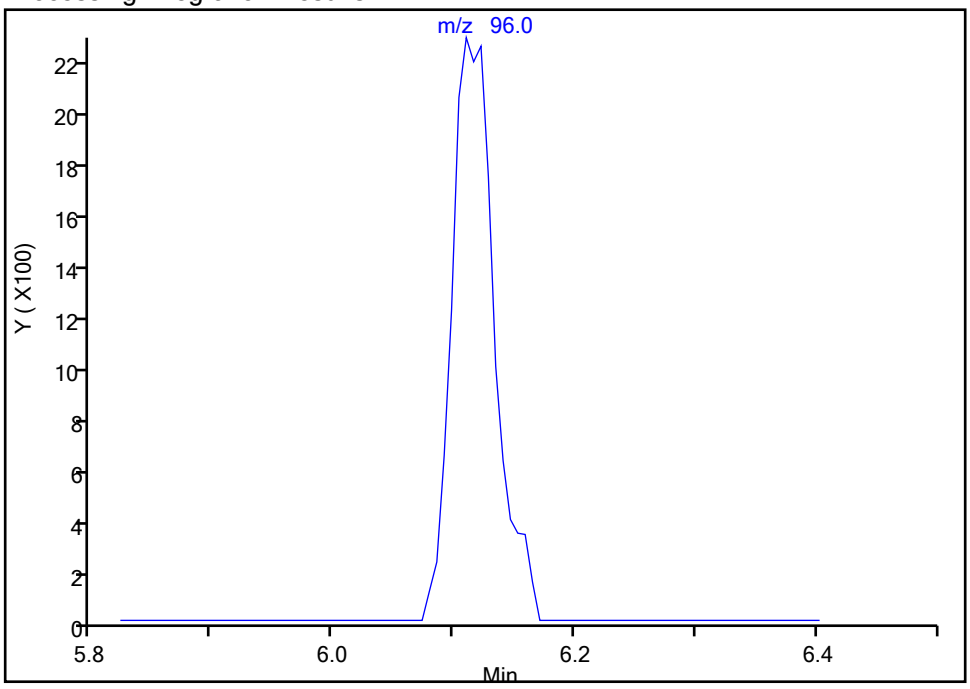
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8294.D				
Injection Date:	19-Nov-2020 07:27:30	Instrument ID:	Calvin		
Lims ID:	240-140187-B-20	Lab Sample ID:	310-140187-20		
Client ID:	TB-111220-BE-003				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

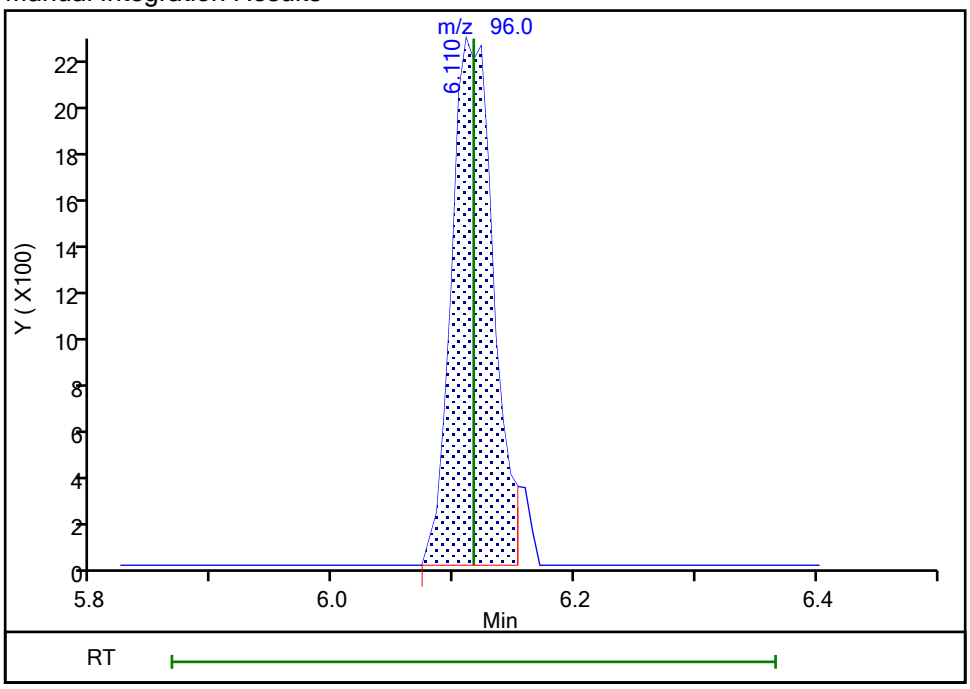
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5440
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:26:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-038 Lab Sample ID: 240-140187-21

Matrix: Water Lab File ID: c8263.D

Analysis Method: 8260D Date Collected: 11/12/2020 09:50

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 19:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	430		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.30	J	0.50	0.22
75-34-3	1,1-Dichloroethane	91		1.0	0.22
75-35-4	1,1-Dichloroethene	29		2.0	0.56
107-06-2	1,2-Dichloroethane	1.1		1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.28	J	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	6.5		3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	2.7		1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	27		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-038 Lab Sample ID: 240-140187-21

Matrix: Water Lab File ID: c8263.D

Analysis Method: 8260D Date Collected: 11/12/2020 09:50

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 19:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	110		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D
Lims ID: 240-140187-A-21
Client ID: GW-111220-BE-038
Sample Type: Client
Inject. Date: 18-Nov-2020 19:59:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-009
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:36:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.409	3.409	0.000	0	92	1000.0	
* 122 Fluorobenzene	96	5.458	5.452	0.006	98	175045	50.0	
* 121 1,4-Dioxane-d8	96	6.122	6.110	0.012	95	6147	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	124392	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	56164	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	93	43150	55.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	165548	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	83	44059	48.0	
$ 8 BFB	95	9.920	9.920	0.000	82	60228	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	143334	44.4	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64	1.916	1.916	0.000	95	1466	0.7856	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.458				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.659	2.653	0.006	94	53096	29.5	
21 112TCTFE	101		2.672				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.830	2.836	-0.006	61	960	0.1801	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.958				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.117	3.111	0.006	22	321	0.1506	M
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.385	0.006	94	54619	26.6	M
29 Methyl tert-butyl ether	73		3.397				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	98	352101	91.4	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.873				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	86	5362990	2281.8	E
40 2-Butanone (MEK)	43		4.348				ND	U
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.421				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	U
45 Chloroform	83	4.641	4.641	0.000	96	26386	6.55	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	1411361	427.4	
47 Cyclohexane	56		4.860				ND	
48 Carbon tetrachloride	117		4.964				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62	5.183	5.171	0.012	95	3193	1.12	
50 Benzene	78	5.177	5.177	0.000	88	2569	0.2840	
116 n-Butanol	56		5.293				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.811	5.805	0.006	98	7359552	3183.1	E
117 Ethyl acrylate	55		5.933				ND	U
114 Methylcyclohexane	83		6.012				ND	U
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
57 Methyl methacrylate	69		6.165				ND	
115 1,4-Dioxane	58		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	76	442	0.3009	
66 Tetrachloroethene	166	7.689	7.689	0.000	87	6755	2.67	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	U
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.389				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
139 C6-C12	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		2308.4	E
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

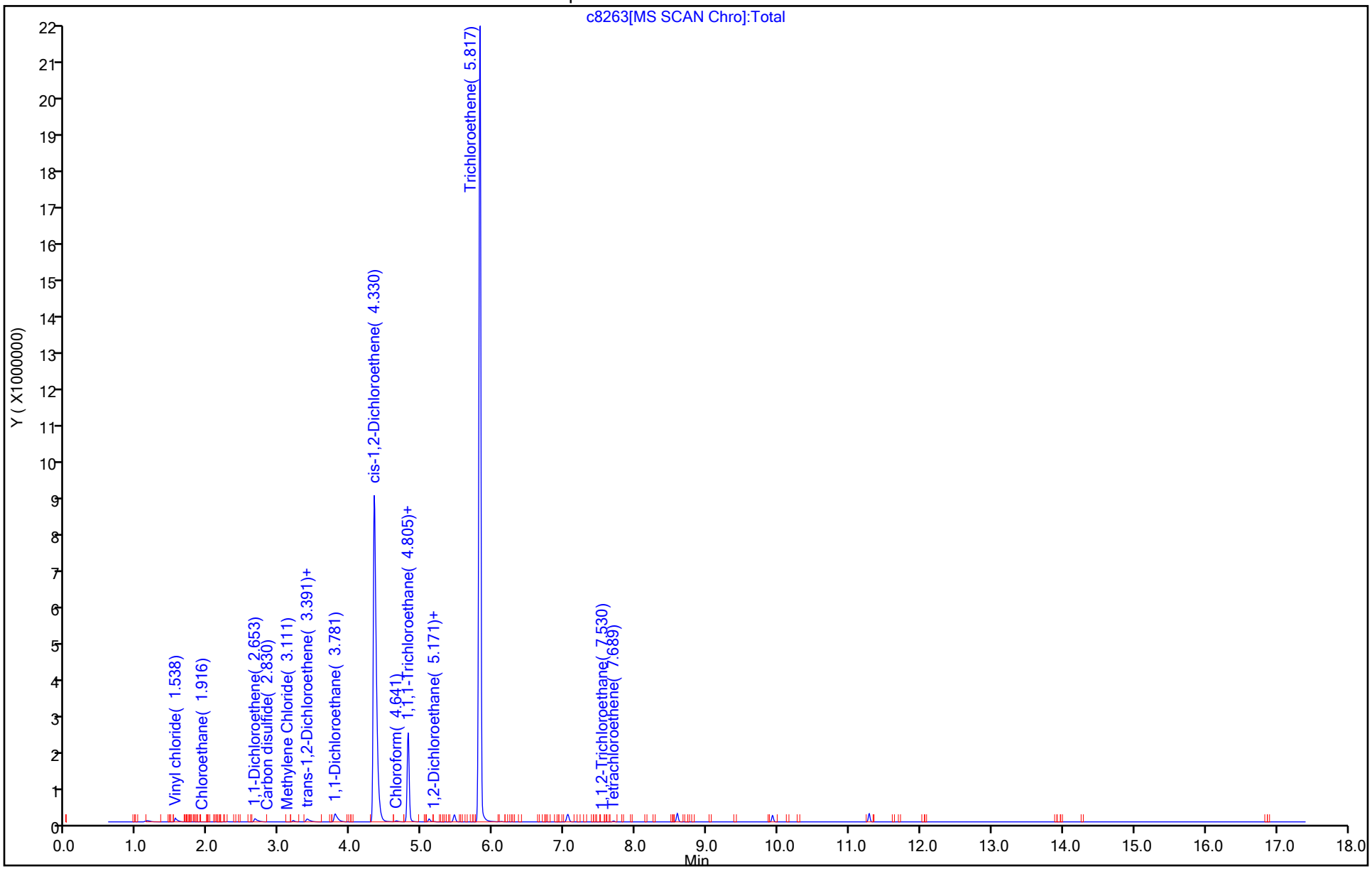
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:16:08 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21	Worklist Smp#:	9
Client ID:	GW-111220-BE-038				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D
Lims ID: 240-140187-A-21
Client ID: GW-111220-BE-038
Sample Type: Client
Inject. Date: 18-Nov-2020 19:59:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-009
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:36:24

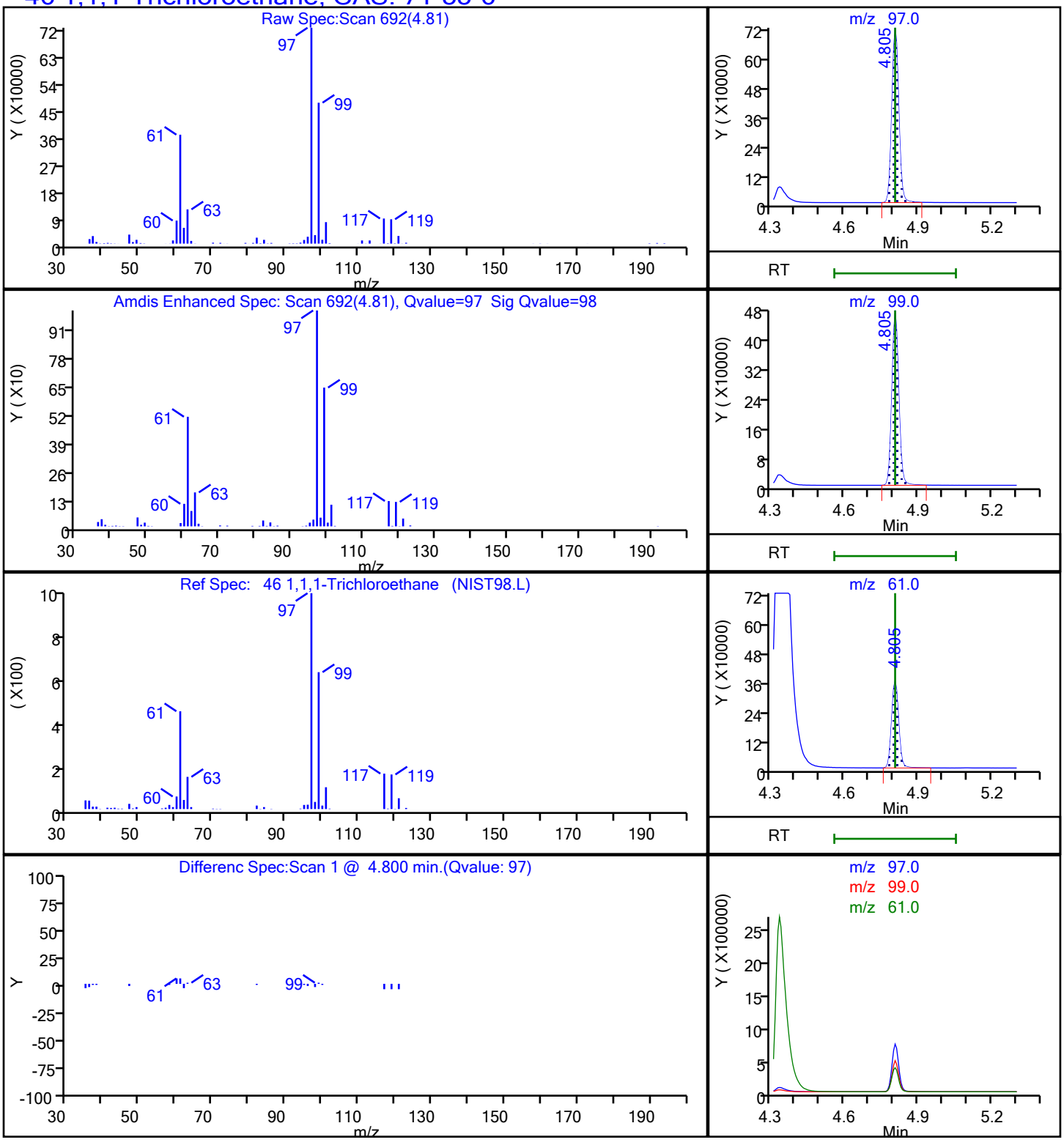
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	55.0	110.00
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.82
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.0	95.90

Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

46 1,1,1-Trichloroethane, CAS: 71-55-6

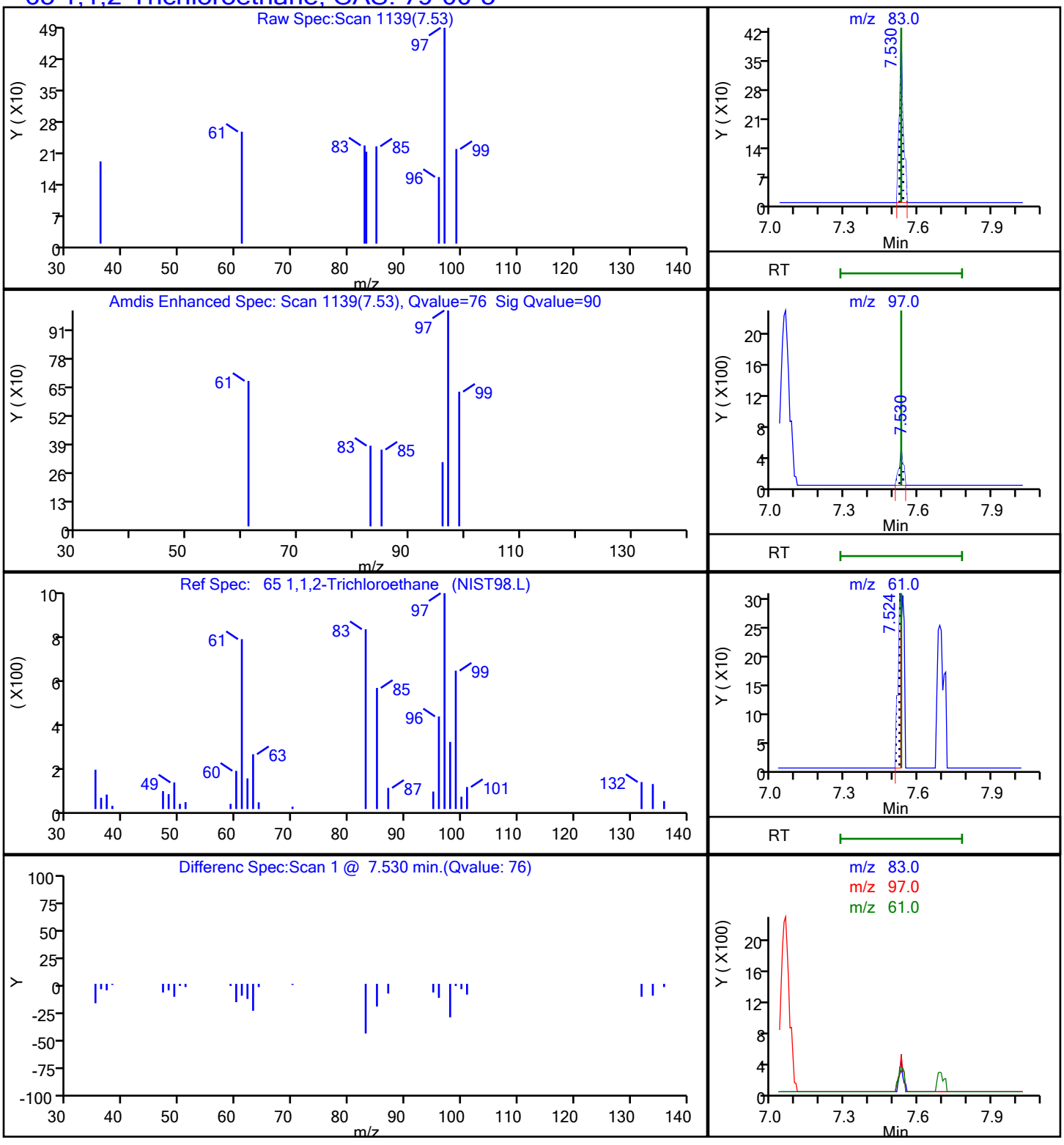


Report Date: 19-Nov-2020 11:16:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

65 1,1,2-Trichloroethane, CAS: 79-00-5

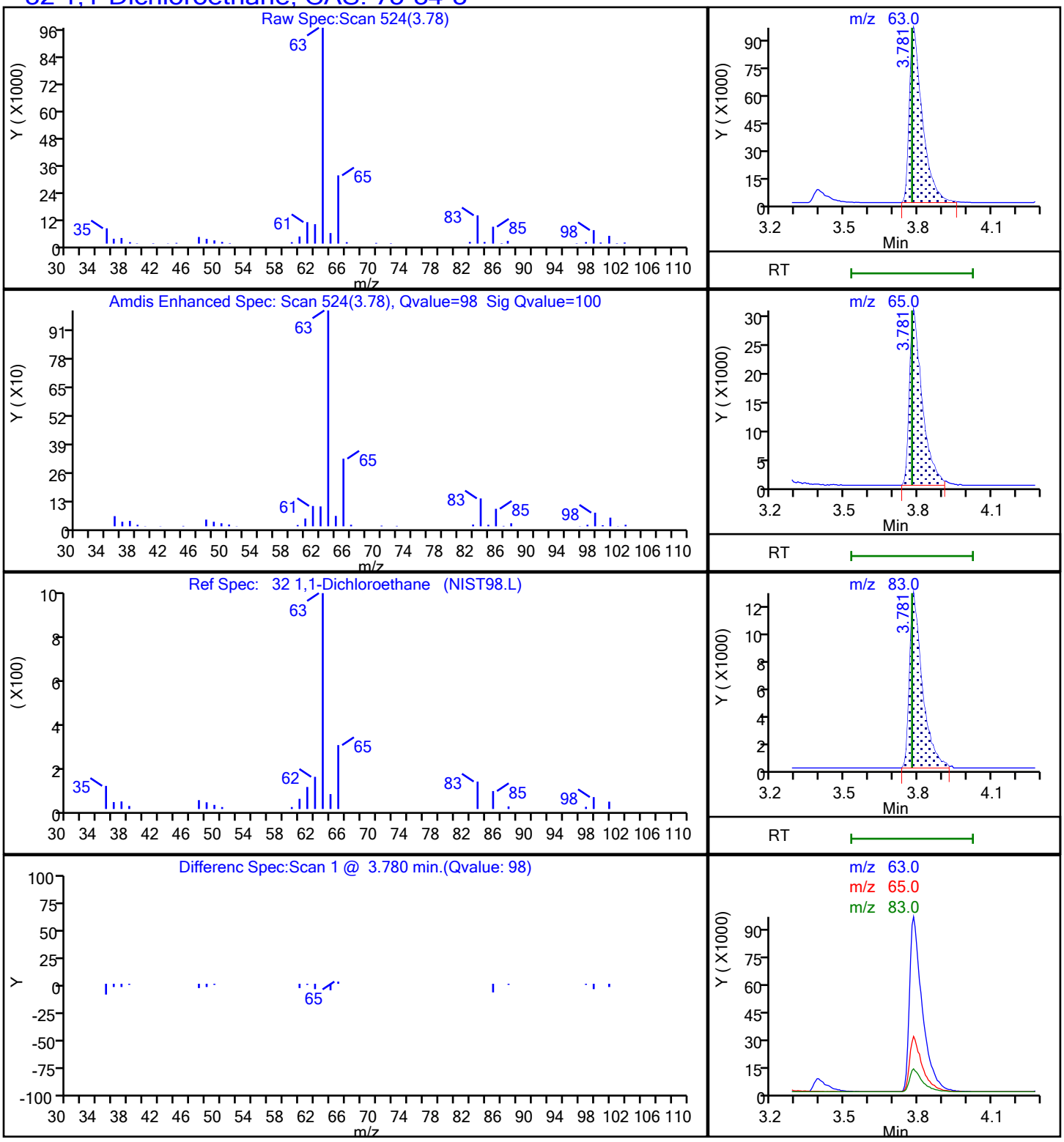


Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

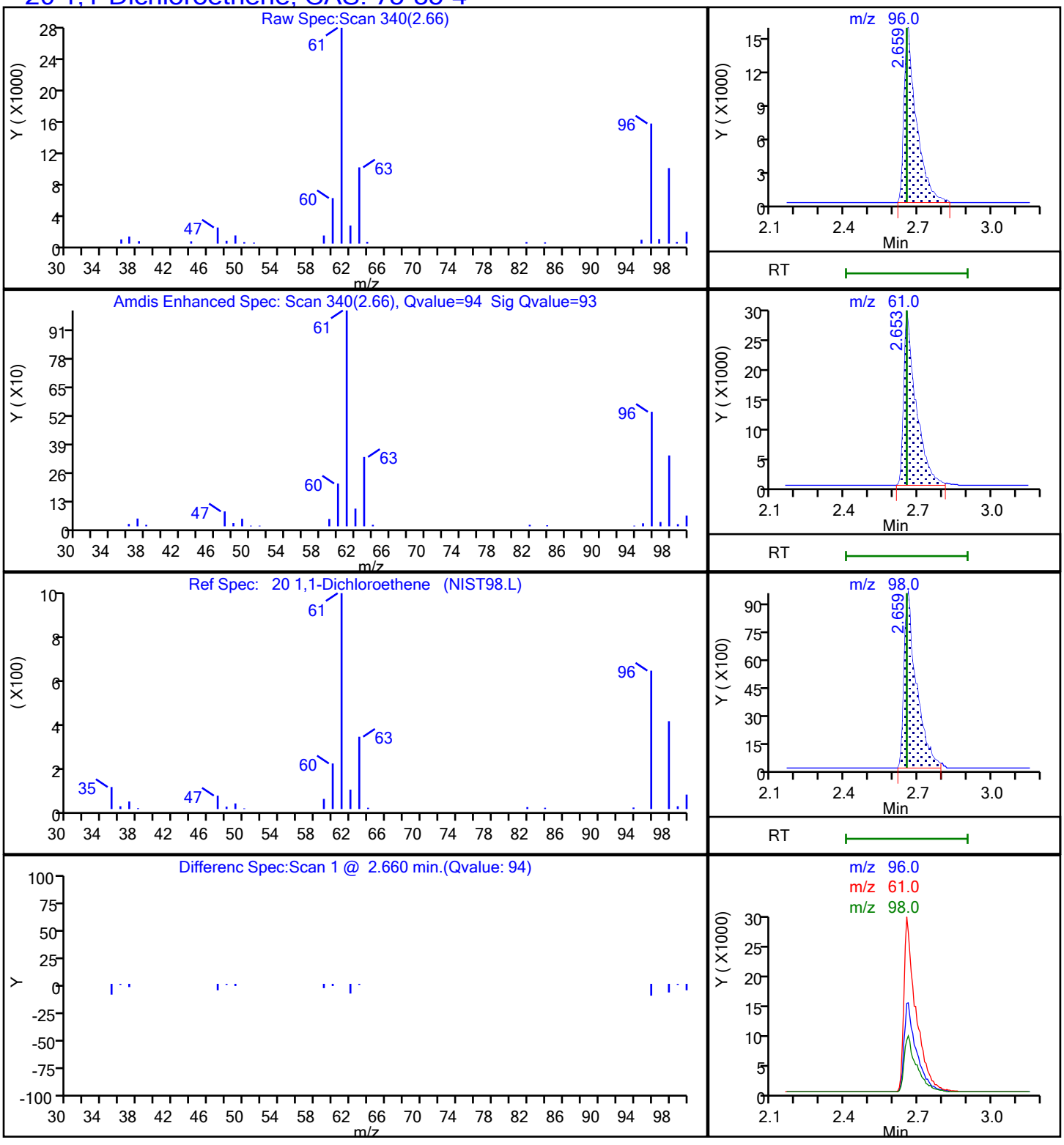


Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D		
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:	sjn	ALS Bottle#:	9 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

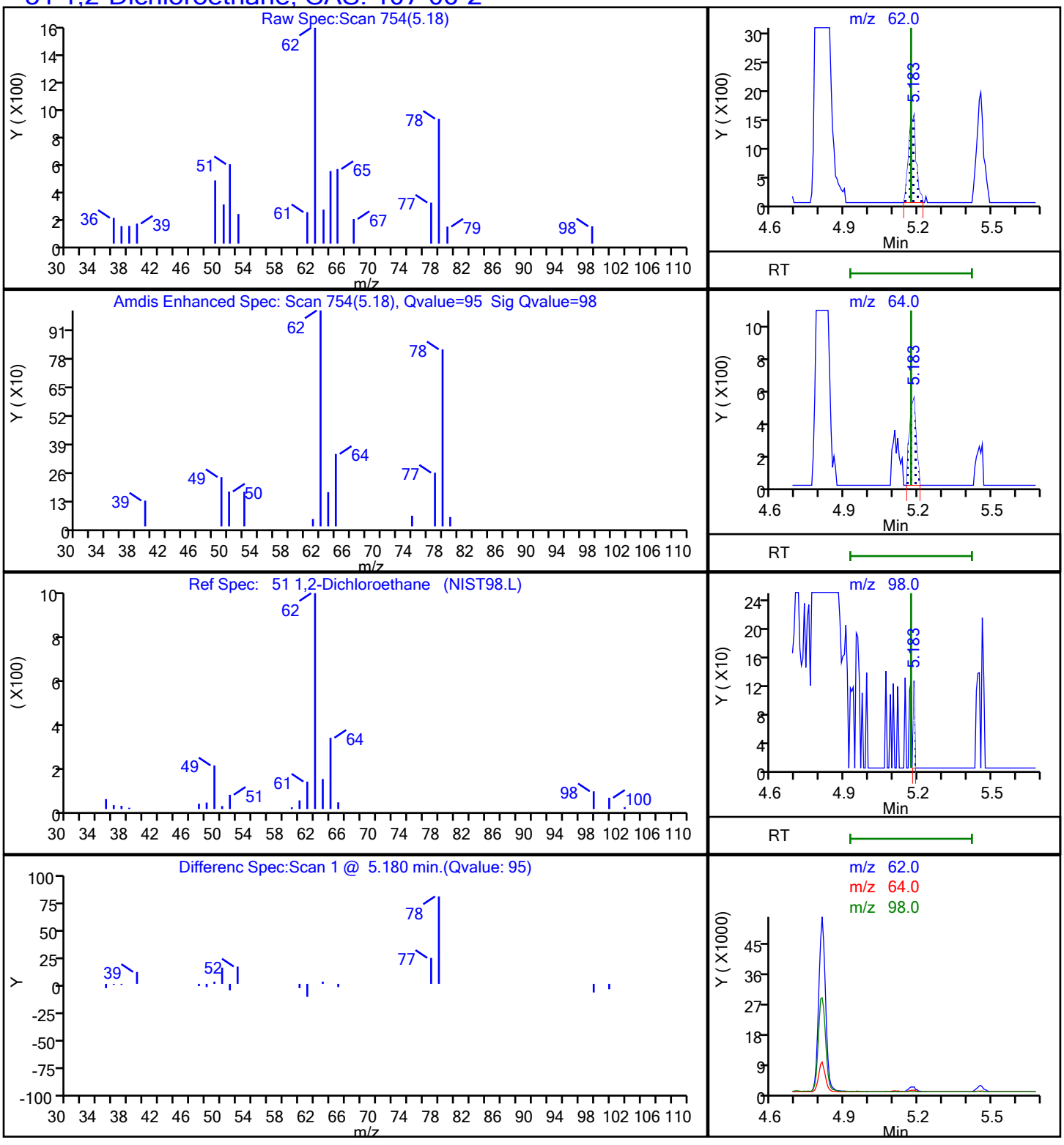


Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D		
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:	sjn	ALS Bottle#:	9 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

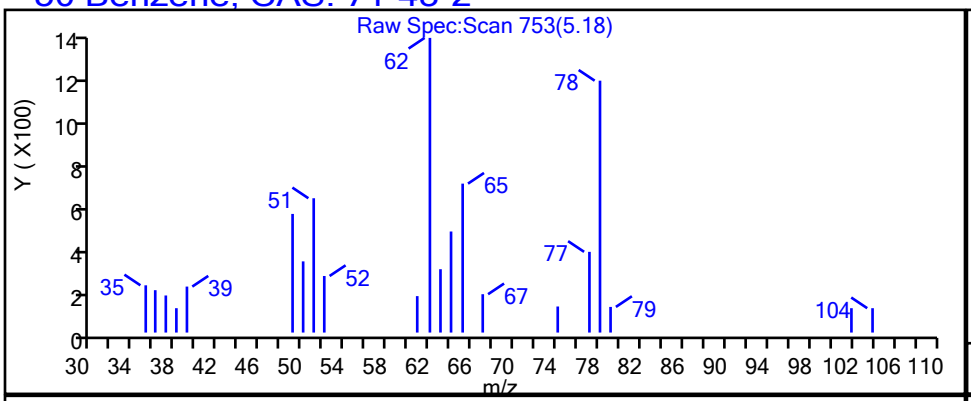


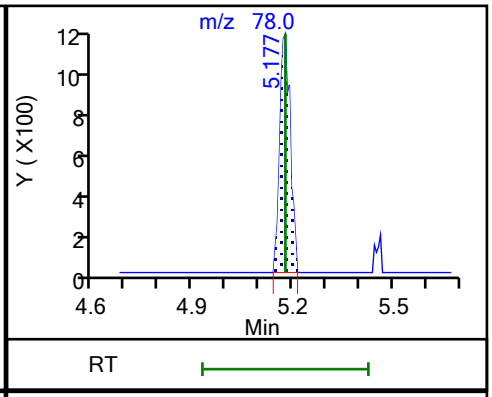
Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

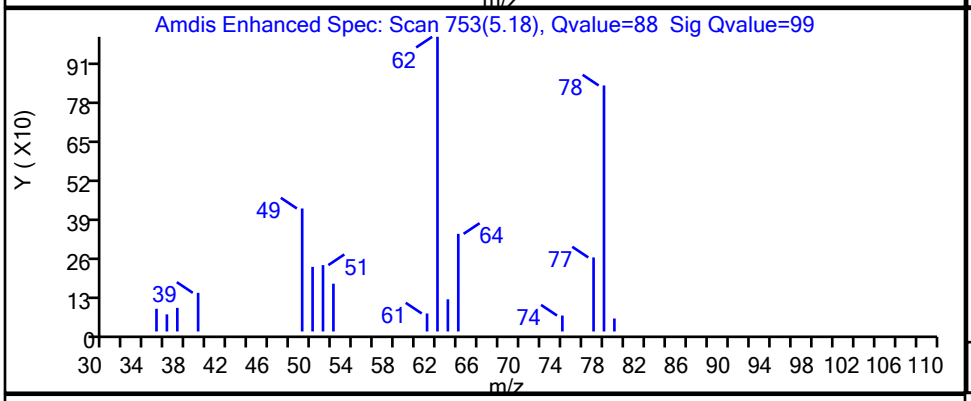
Eurofins TestAmerica, Cedar Falls

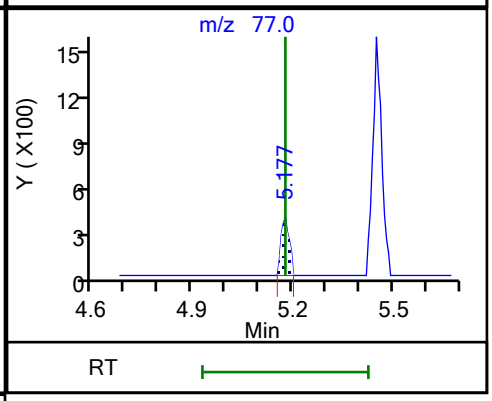
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

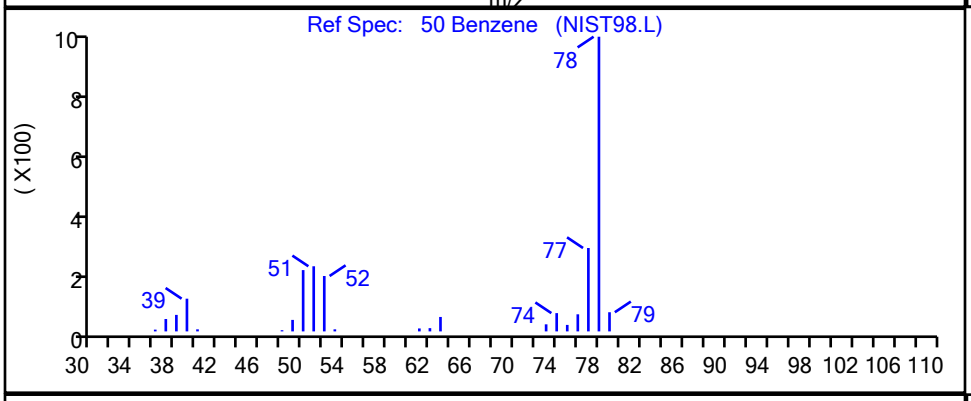
50 Benzene, CAS: 71-43-2

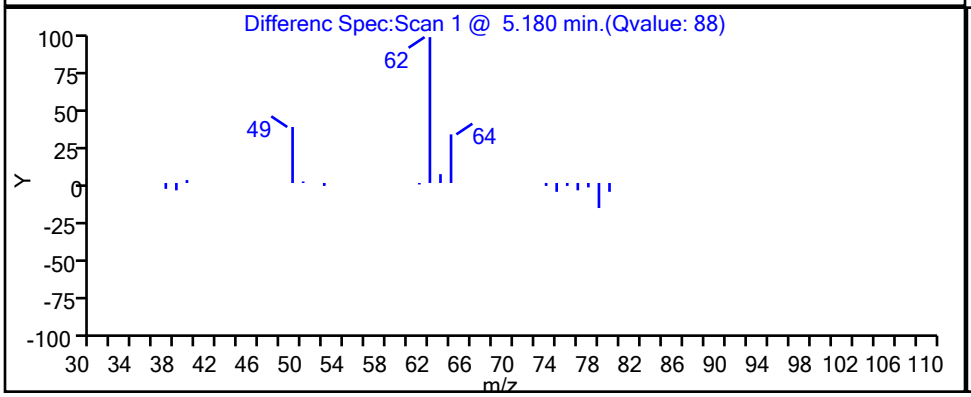


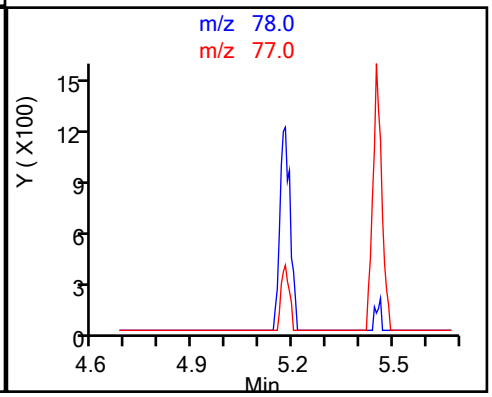










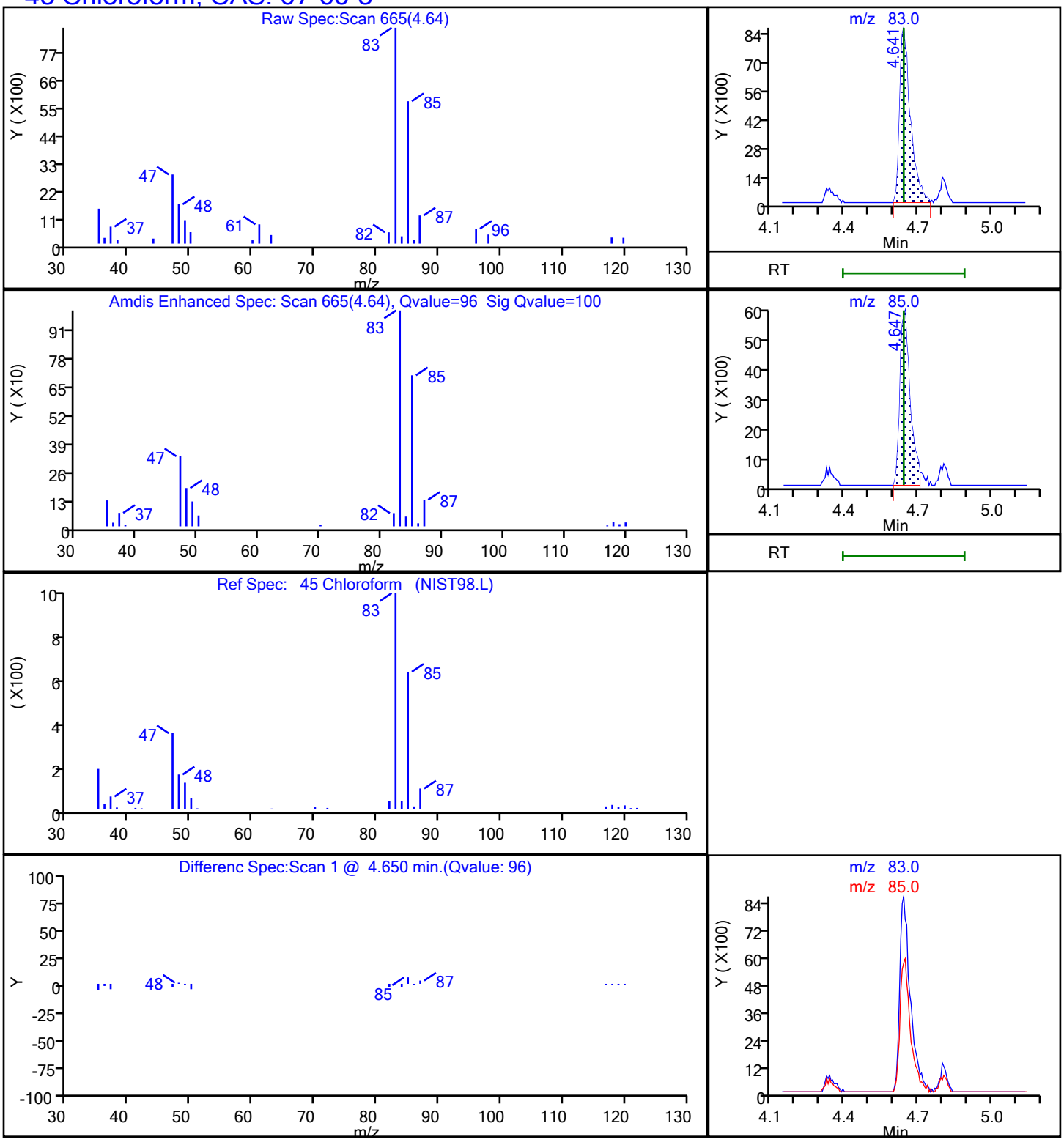


Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D		
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:	sjn	ALS Bottle#:	9 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

45 Chloroform, CAS: 67-66-3



Report Date: 19-Nov-2020 11:16:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D

Injection Date: 18-Nov-2020 19:59:30 Instrument ID: Calvin

Lims ID: 240-140187-A-21 Lab Sample ID: 310-140187-21

Client ID: GW-111220-BE-038

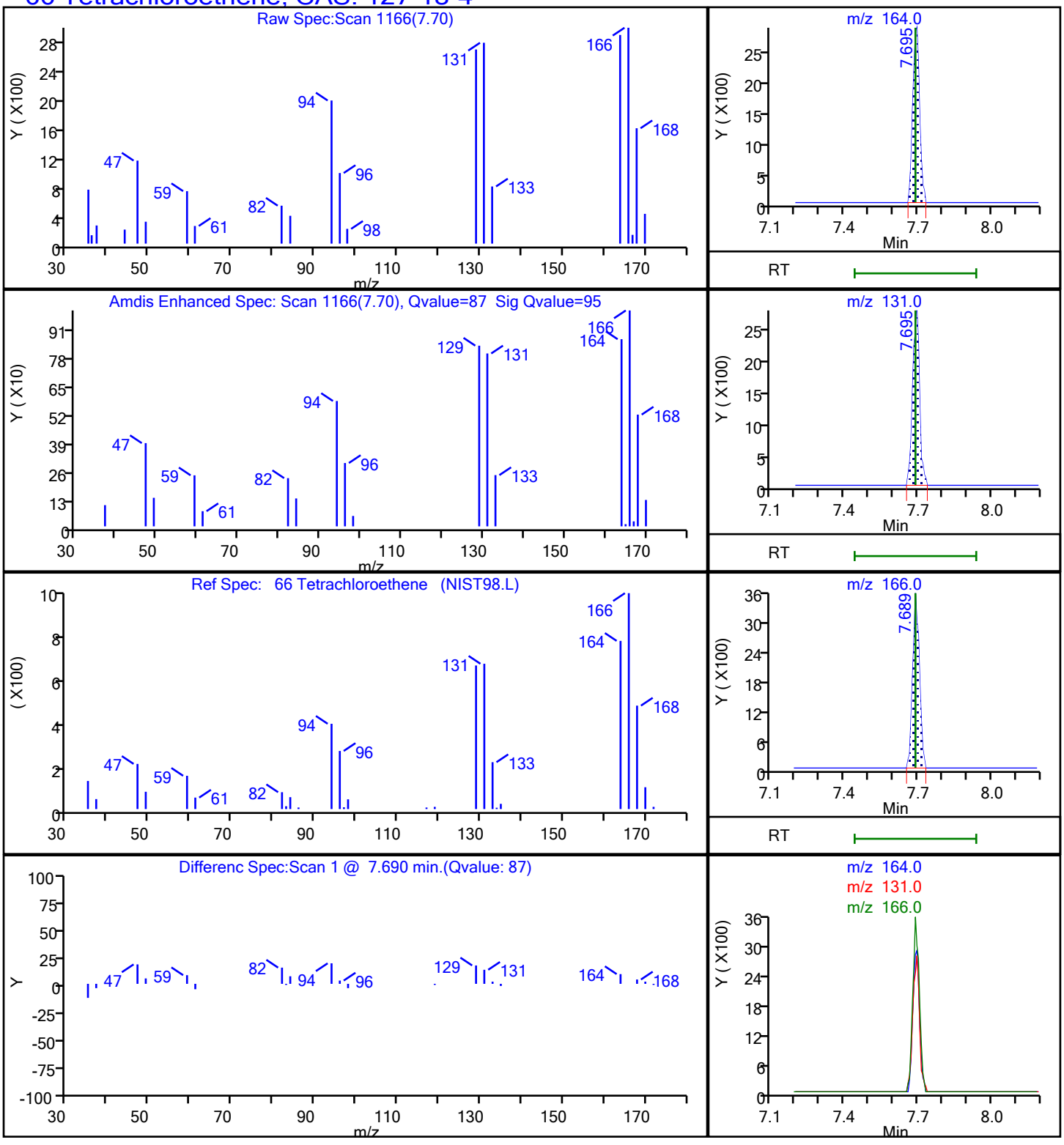
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

66 Tetrachloroethene, CAS: 127-18-4

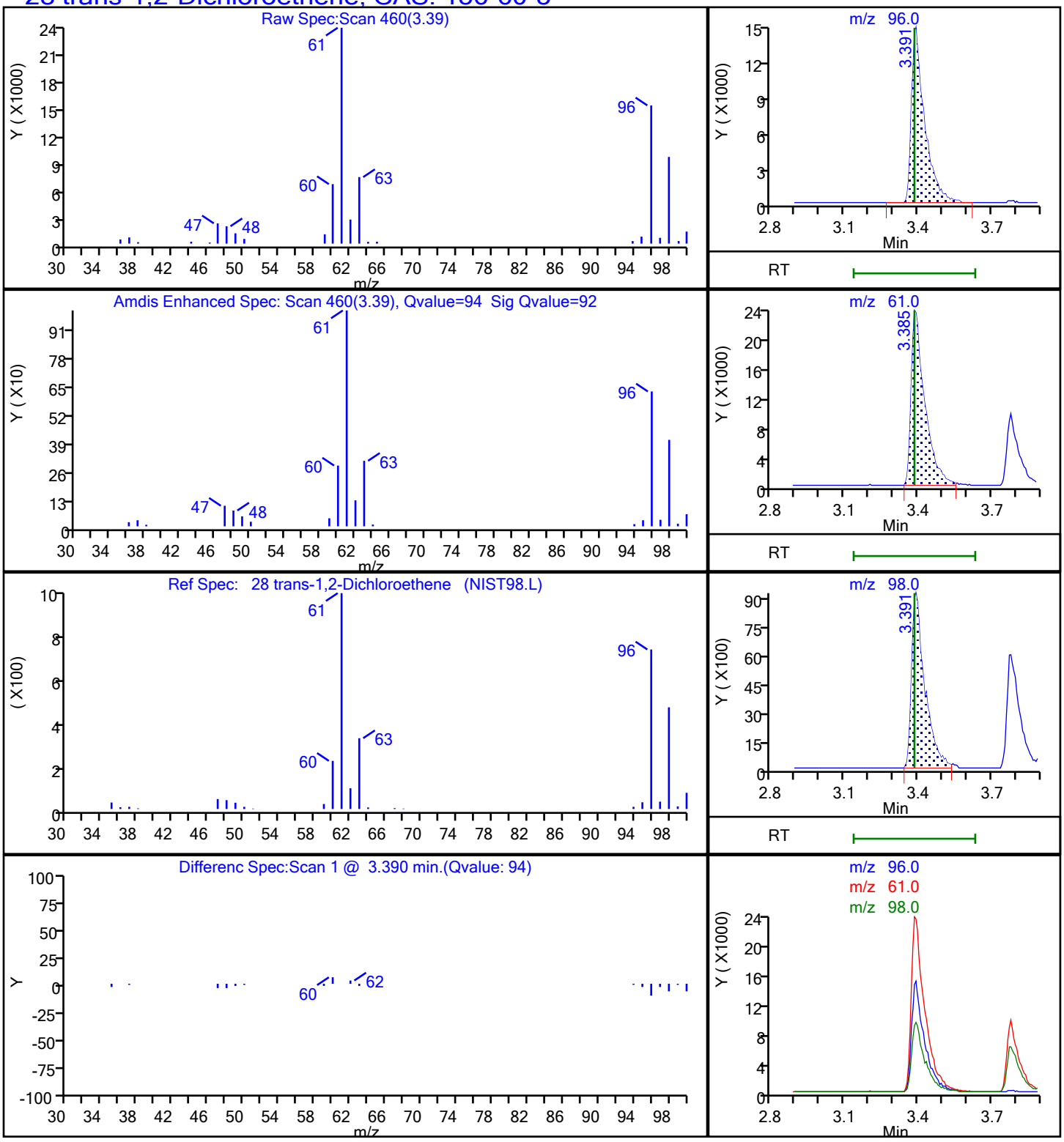


Report Date: 19-Nov-2020 11:16:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

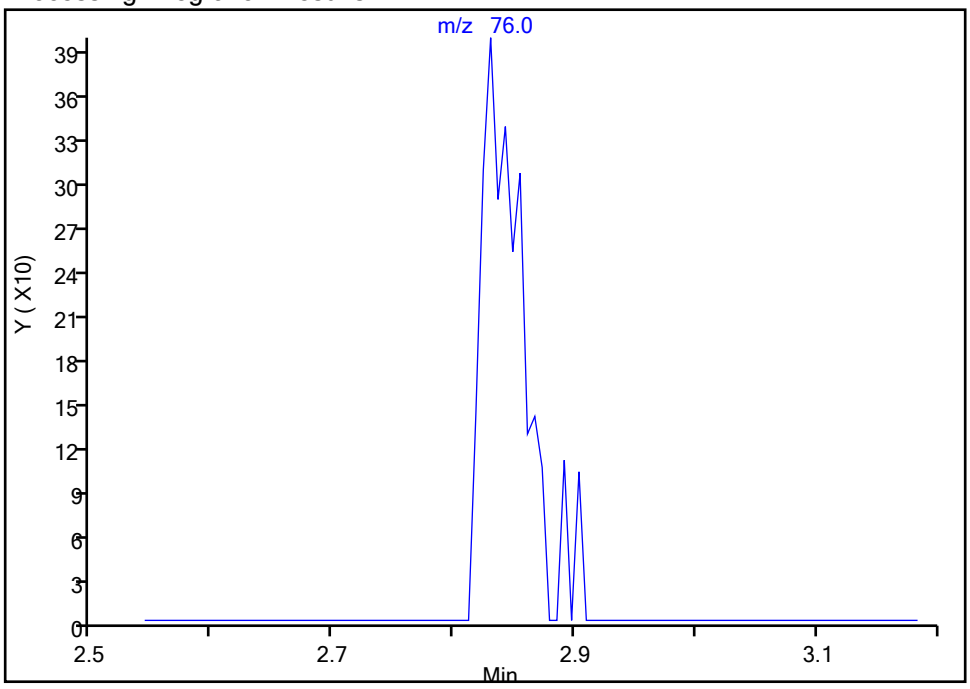
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

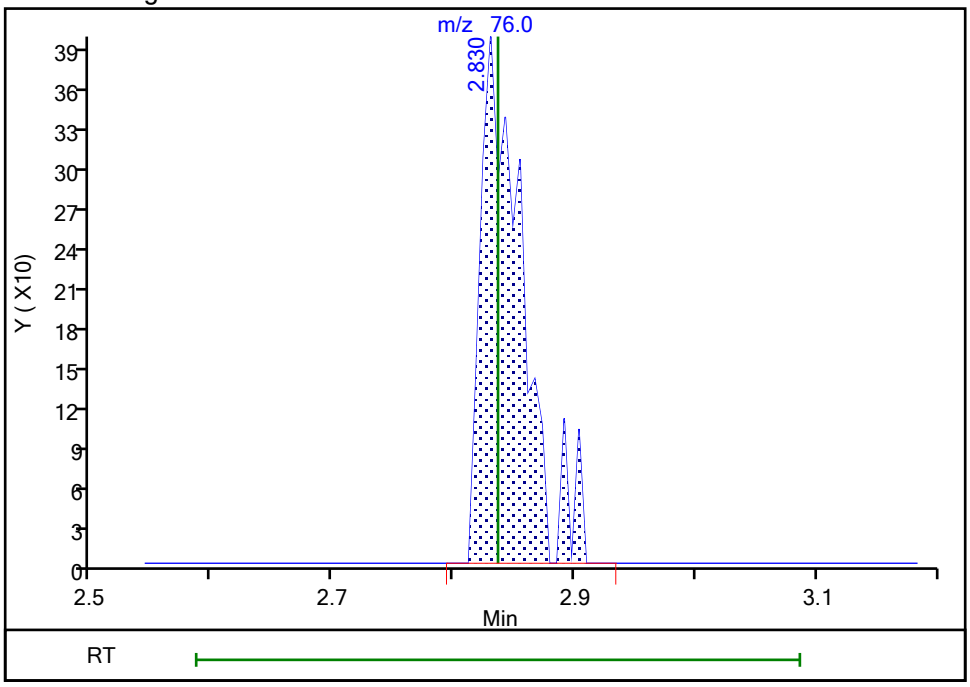
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.83
Area: 960
Amount: 0.180085
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:35:05
Audit Action: Manually Integrated Audit Reason: Wrong peak

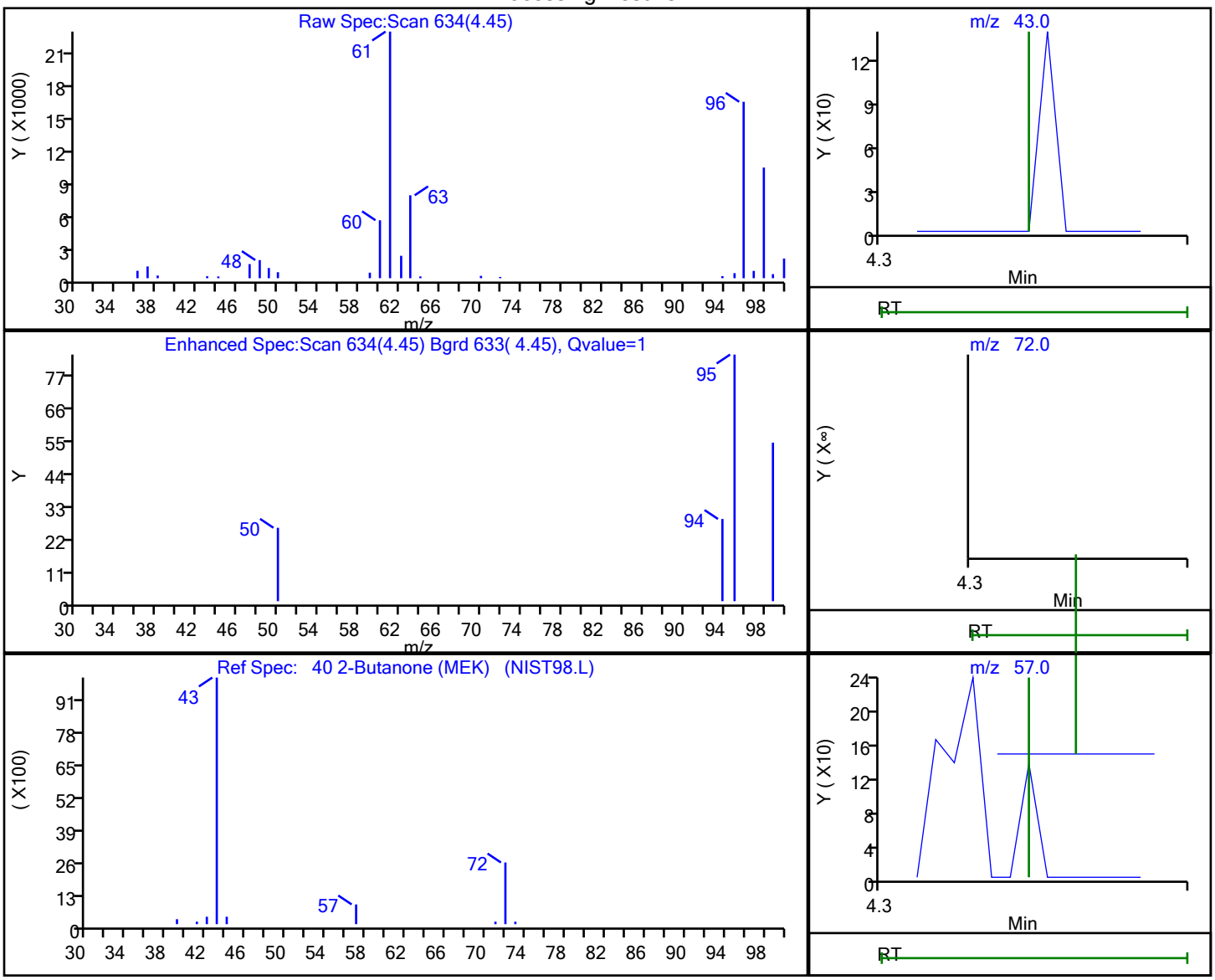
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D		
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:	sjn	ALS Bottle#:	9 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.45	43.00	128	0.174566
4.46	72.00	185	
4.35	57.00	0	

Reviewer: nelsonsa, 19-Nov-2020 10:35:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

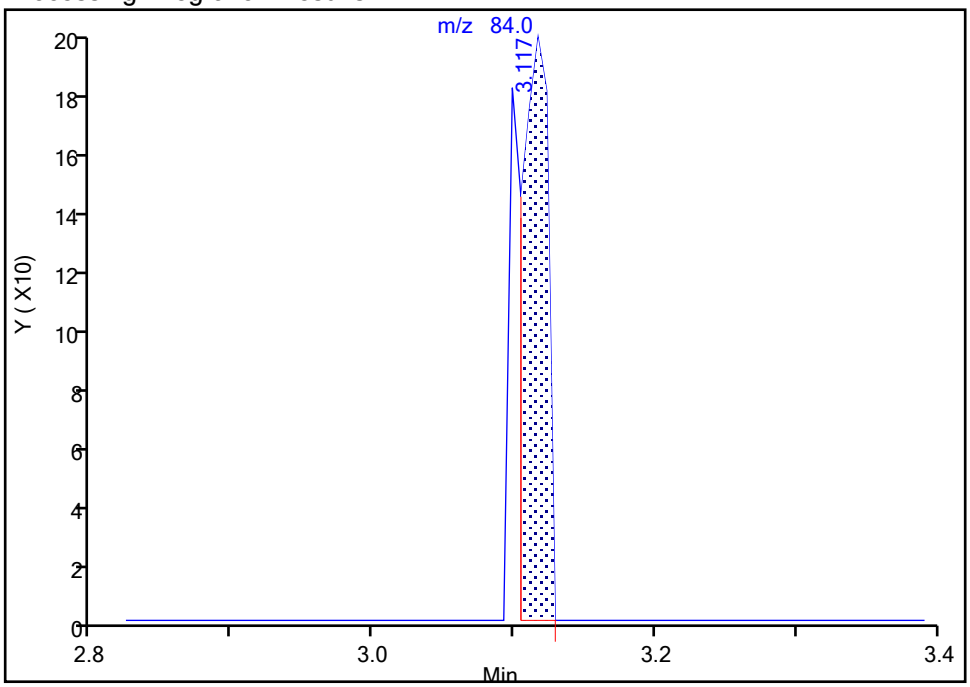
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

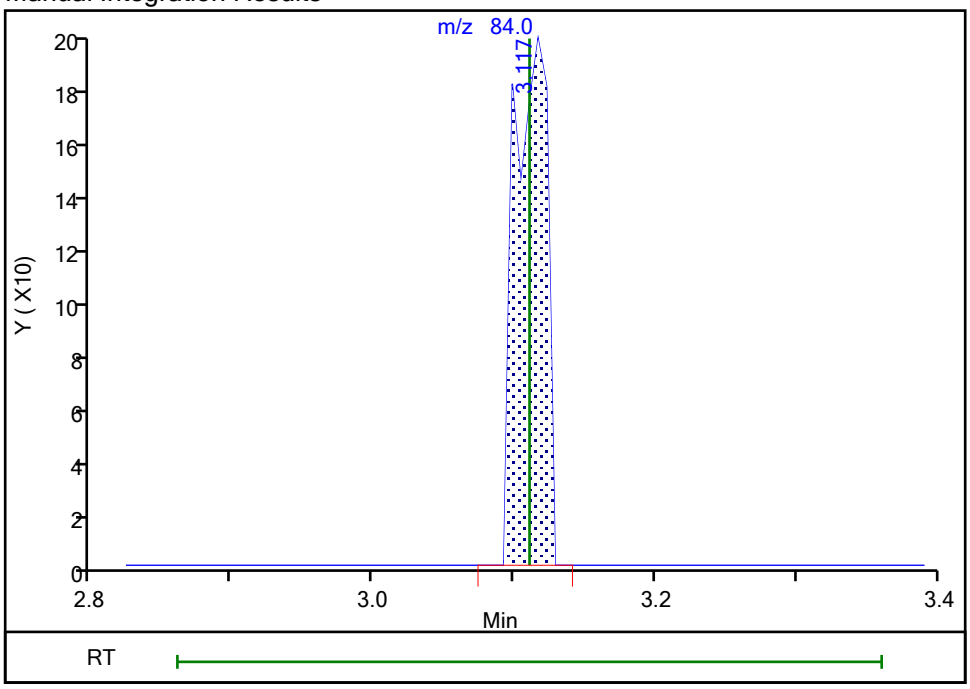
Processing Integration Results

RT: 3.12
Area: 255
Amount: 0.119625
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 321
Amount: 0.150587
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:35:16

Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

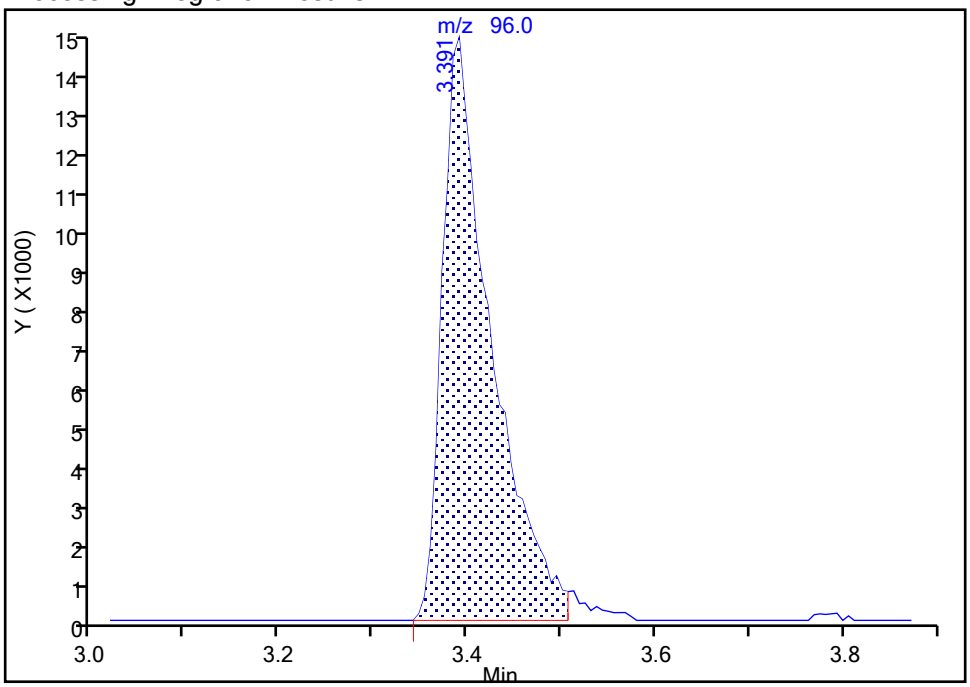
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

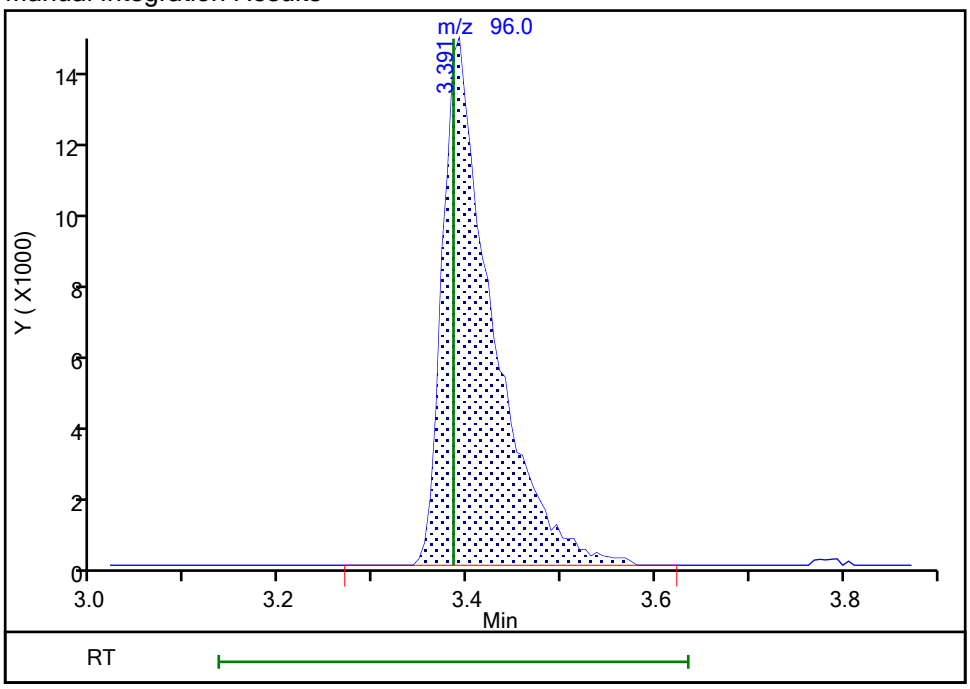
Processing Integration Results

RT: 3.39
Area: 53382
Amount: 25.988937
Amount Units: ug/l



Manual Integration Results

RT: 3.39
Area: 54619
Amount: 26.591168
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:35:24

Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

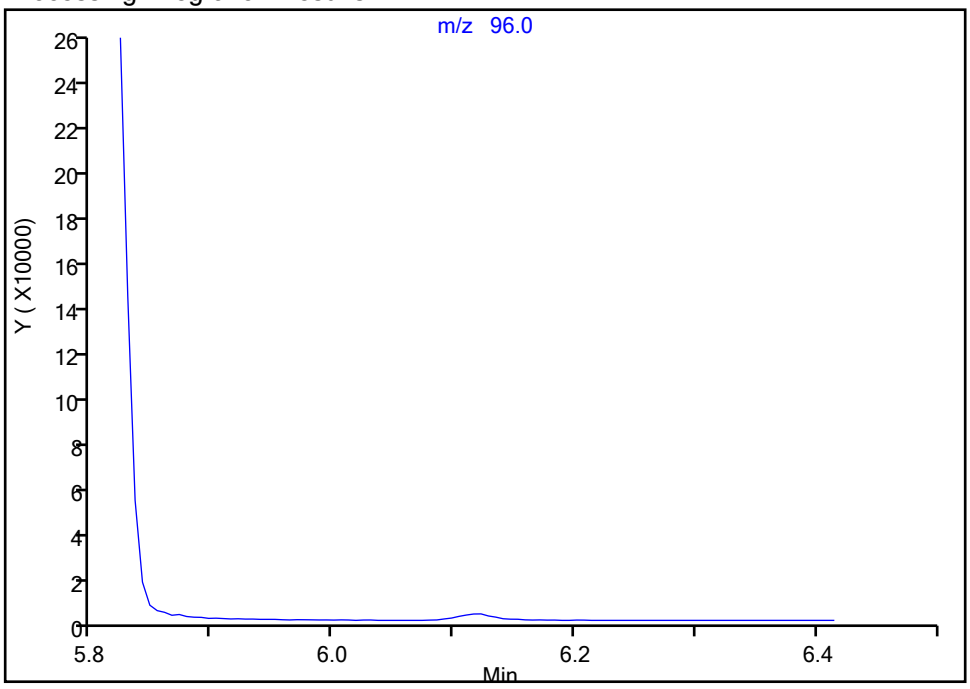
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8263.D				
Injection Date:	18-Nov-2020 19:59:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:	sjn	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

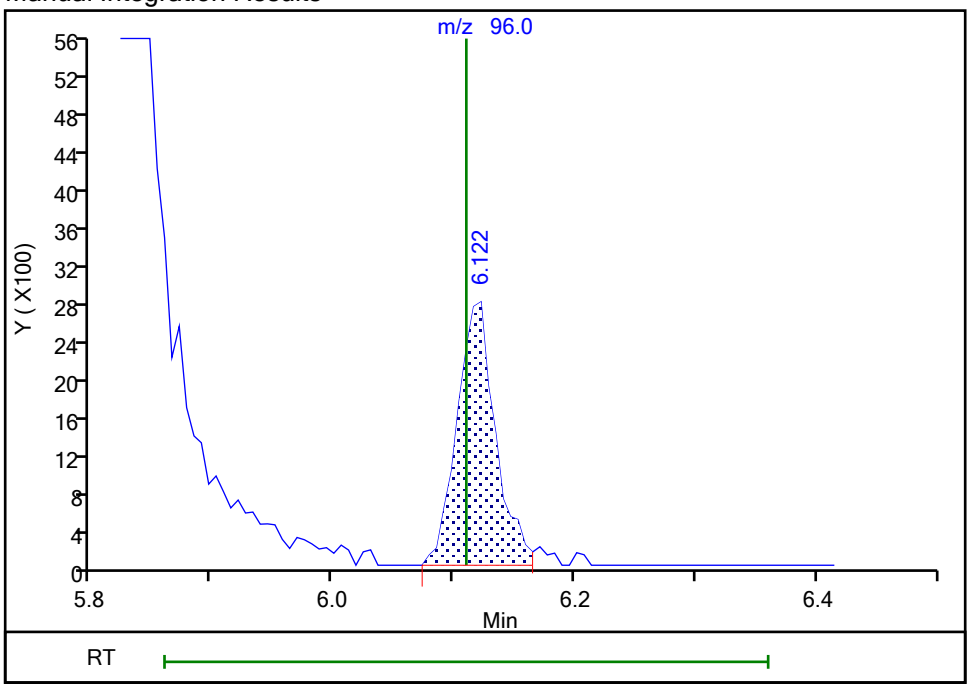
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 6147
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:34:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-038 Lab Sample ID: 240-140187-21

Matrix: Water Lab File ID: H4295.D

Analysis Method: 8260D Date Collected: 11/12/2020 09:50

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 09:10

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	80	U	80	16
156-59-2	cis-1,2-Dichloroethene	1900		20	4.2
79-01-6	Trichloroethene	2500		20	8.6
75-01-4	Vinyl chloride	41		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	97		79-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D
Lims ID: 240-140187-B-21
Client ID: GW-111220-BE-038
Sample Type: Client
Inject. Date: 19-Nov-2020 09:10:30 ALS Bottle#: 29 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062726-023
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:40:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	42434	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.862	4.868	-0.006	0	17575	0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	97	55948	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	87	5152	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	92	52001	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	35152	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	48	10673	45.8	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	56861	48.7	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	22647	50.1	
$ 8 BFB	95	9.678	9.684	-0.006	79	29236	NR	
9 Dichlorodifluoromethane	85		1.124				ND	U
10 Chloromethane	50		1.265				ND	
11 Vinyl chloride	62	1.350	1.350	0.000	97	5809	2.04	M
12 Butadiene	54		1.387				ND	
13 Bromomethane	94		1.612				ND	
14 Chloroethane	64		1.698				ND	
15 Dichlorofluoromethane	67		1.893				ND	
16 Trichlorofluoromethane	101		1.929				ND	
17 Ethanol	45		2.161				ND	
18 Ethyl ether	59		2.222				ND	
19 Acrolein	56		2.332				ND	
20 1,1-Dichloroethene	96	2.417	2.411	0.006	87	1601	1.64	M
21 112TCTFE	101		2.423				ND	
22 Acetone	43		2.490				ND	
23 Iodomethane	142		2.533				ND	
24 Carbon disulfide	76		2.582				ND	
105 Isopropyl alcohol	45		2.673				ND	
118 Acetonitrile	40		2.740				ND	
25 3-Chloro-1-propene	76		2.758				ND	
26 Methyl acetate	43		2.807				ND	
27 Methylene Chloride	84	2.868	2.874	-0.006	22	418	0.2975	M
35 2-Methyl-2-propanol	59		3.057				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124				ND	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	87	2069	1.45	M
29 Methyl tert-butyl ether	73		3.155				ND	
31 Hexane	57		3.392				ND	
32 1,1-Dichloroethane	63	3.533	3.526	0.007	95	13143	4.07	M
33 Vinyl acetate	86		3.618				ND	
34 2-Chloro-1,3-butadiene	53		3.618				ND	
36 Isopropyl ether	87		3.636				ND	
37 Tert-butyl ethyl ether	59		3.978				ND	
38 2,2-Dichloropropane	77		4.069				ND	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	87	167269	95.9	
40 2-Butanone (MEK)	43		4.136				ND	
41 Propionitrile	54		4.185				ND	
104 Ethyl acetate	43		4.203				ND	
42 Chlorobromomethane	128		4.307				ND	
43 Methacrylonitrile	67		4.325				ND	
44 Tetrahydrofuran	71		4.380				ND	
45 Chloroform	83	4.398	4.398	0.000	85	1529	0.5996	
46 1,1,1-Trichloroethane	97	4.557	4.551	0.006	93	40975	18.4	
47 Cyclohexane	56		4.599				ND	
48 Carbon tetrachloride	117		4.709				ND	U
49 1,1-Dichloropropene	75		4.721				ND	
50 Benzene	78		4.916				ND	
108 Isobutyl alcohol	43		4.923				ND	
51 1,2-Dichloroethane	62		4.941				ND	
116 n-Butanol	56		5.008				ND	
52 Tert-amyl methyl ether	73		5.057				ND	
53 n-Heptane	43		5.203				ND	
54 Trichloroethene	132	5.557	5.550	0.007	92	218099	125.9	
117 Ethyl acrylate	55		5.709				ND	
114 Methylcyclohexane	83		5.733				ND	
55 1,2-Dichloropropane	63		5.776				ND	
56 Dibromomethane	93		5.886				ND	
57 Methyl methacrylate	69		5.935				ND	
115 1,4-Dioxane	58		5.935				ND	
58 Dichlorobromomethane	83		6.063				ND	
106 2-Nitropropane	43		6.306				ND	
59 2-Chloroethyl vinyl ether	63		6.398				ND	
60 cis-1,3-Dichloropropene	75		6.520				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709				ND	
62 Toluene	92	6.861	6.861	0.000	88	822	0.2230	
63 trans-1,3-Dichloropropene	75		7.111				ND	
64 Ethyl methacrylate	69		7.239				ND	
65 1,1,2-Trichloroethane	83		7.300				ND	
66 Tetrachloroethene	166	7.440	7.434	0.006	85	544	0.3913	
67 1,3-Dichloropropane	76		7.477				ND	
68 2-Hexanone	43		7.599				ND	
69 Chlorodibromomethane	129	7.709	7.709	0.000	1	282	0.4332	a
109 n-Butyl acetate	43		7.751				ND	
70 Ethylene Dibromide	107		7.818				ND	
71 Chlorobenzene	112		8.373				ND	
72 1,1,1,2-Tetrachloroethane	131		8.471				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.507	8.507	0.000	1	1243	0.1844	Ma
74 m-Xylene & p-Xylene	106	8.641	8.647	-0.006	92	867	0.3248	
75 o-Xylene	106		9.086				ND	
120 Methyl n-amyl ketone TIC	1		9.100				ND	
76 Styrene	104	9.105	9.105	0.000	94	15281	3.52	
77 Bromoform	173		9.294				ND	
78 Isopropylbenzene	105		9.519				ND	
79 Bromobenzene	156		9.842				ND	
80 1,1,2,2-Tetrachloroethane	83		9.873				ND	
81 1,2,3-Trichloropropane	75		9.909				ND	
82 trans-1,4-Dichloro-2-butene	53		9.940				ND	
83 N-Propylbenzene	91	9.995	10.001	-0.006	1	512	0.0773	M
84 2-Chlorotoluene	91		10.080				ND	
85 4-Chlorotoluene	91		10.208				ND	
86 1,3,5-Trimethylbenzene	105		10.214				ND	
87 tert-Butylbenzene	119		10.586				ND	
88 1,2,4-Trimethylbenzene	105	10.647	10.647	0.000	90	1354	0.2629	
89 sec-Butylbenzene	105		10.854				ND	
90 1,3-Dichlorobenzene	146		10.952				ND	
91 4-Isopropyltoluene	119		11.037				ND	
92 1,4-Dichlorobenzene	146		11.062				ND	
110 1,2,3-Trimethylbenzene	105	11.135	11.141	-0.006	1	585	-0.2877	a
113 Benzyl chloride	126		11.232				ND	
93 1,2-Dichlorobenzene	146		11.501				ND	
94 n-Butylbenzene	91		11.519				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.439				ND	
112 1,3,5-Trichlorobenzene	180		12.695				ND	
96 1,2,4-Trichlorobenzene	180		13.445				ND	
97 Hexachlorobutadiene	225		13.671				ND	
98 Naphthalene	128		13.726				ND	
99 1,2,3-Trichlorobenzene	180		14.024				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
139 C6-C12	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
137 C6-C10	1		0.000				ND	
136 n-Decane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
S 101 1,2-Dichloroethene, Total	1				0		97.4	
S 100 Xylenes, Total	1				0		0.3248	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 128 1,1-Dichloroacetone TIC	43		6.477				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

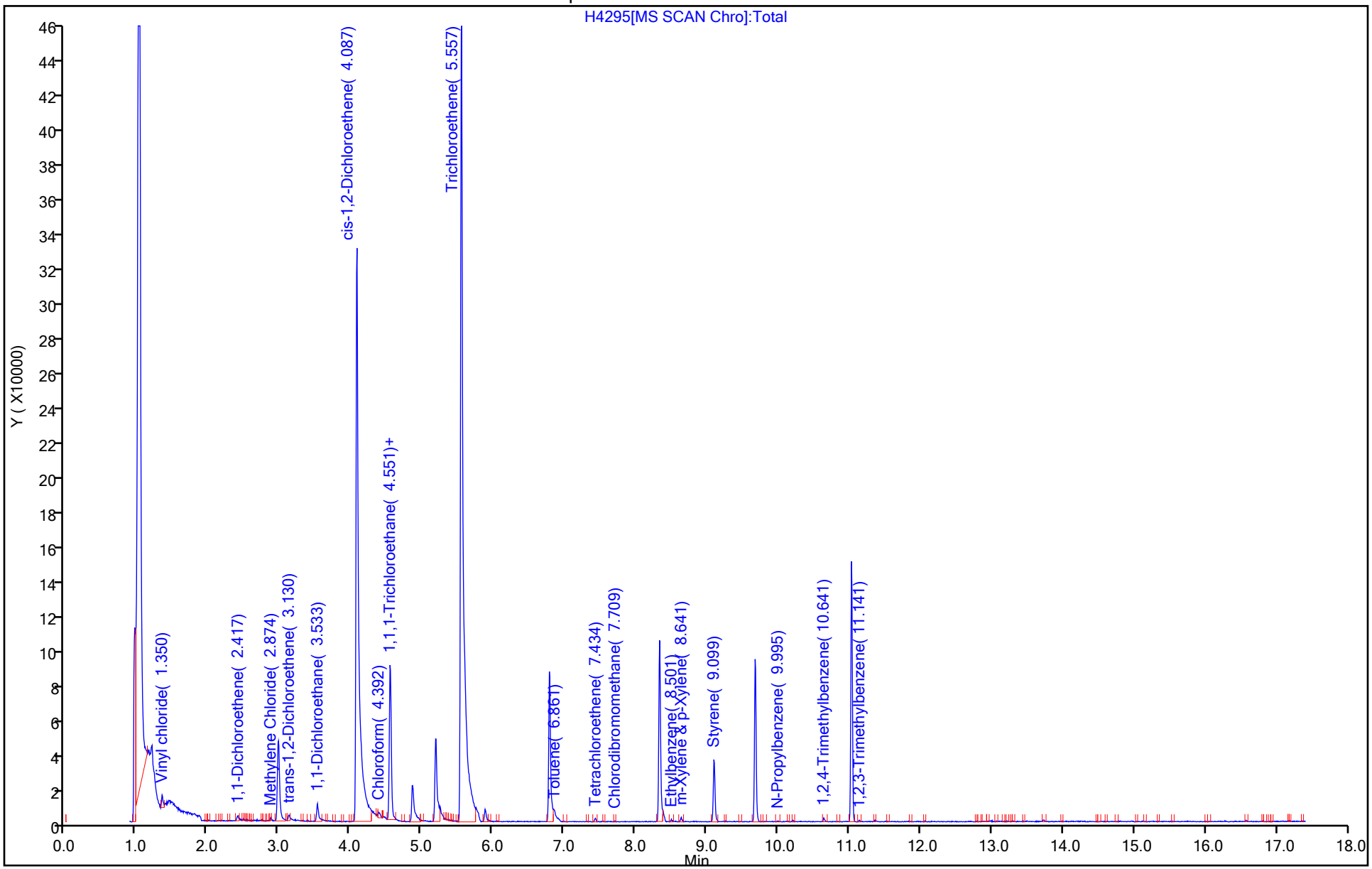
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:57:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D				
Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21	Worklist Smp#:	23
Client ID:	GW-111220-BE-038				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	29
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D
Lims ID: 240-140187-B-21
Client ID: GW-111220-BE-038
Sample Type: Client
Inject. Date: 19-Nov-2020 09:10:30 ALS Bottle#: 29 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062726-023
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:40:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	45.8	1831.21
$ 6 Toluene-d8 (Surr)	50.0	48.7	1946.21
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.1	2002.55

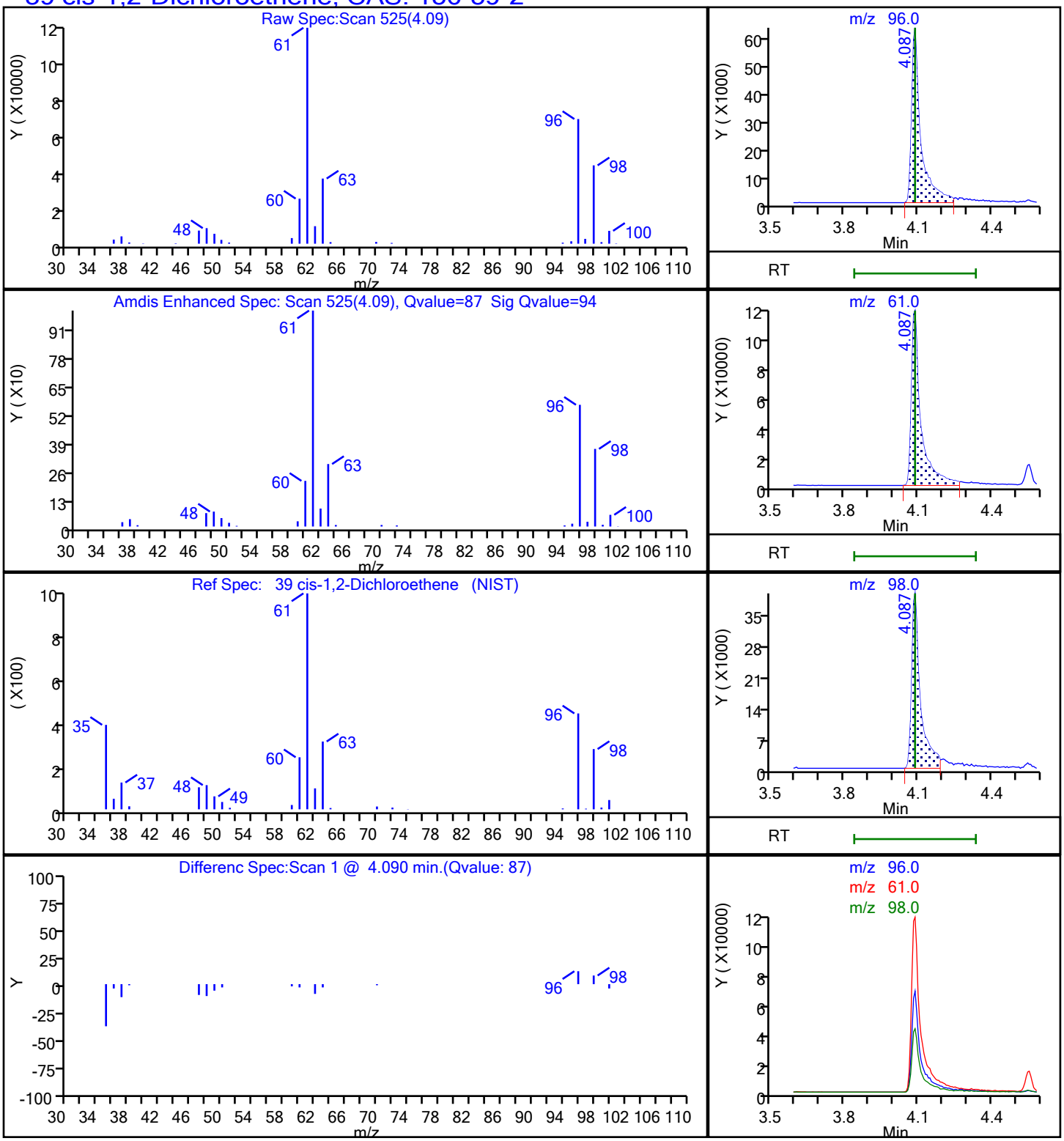
Report Date: 20-Nov-2020 06:57:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D

Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



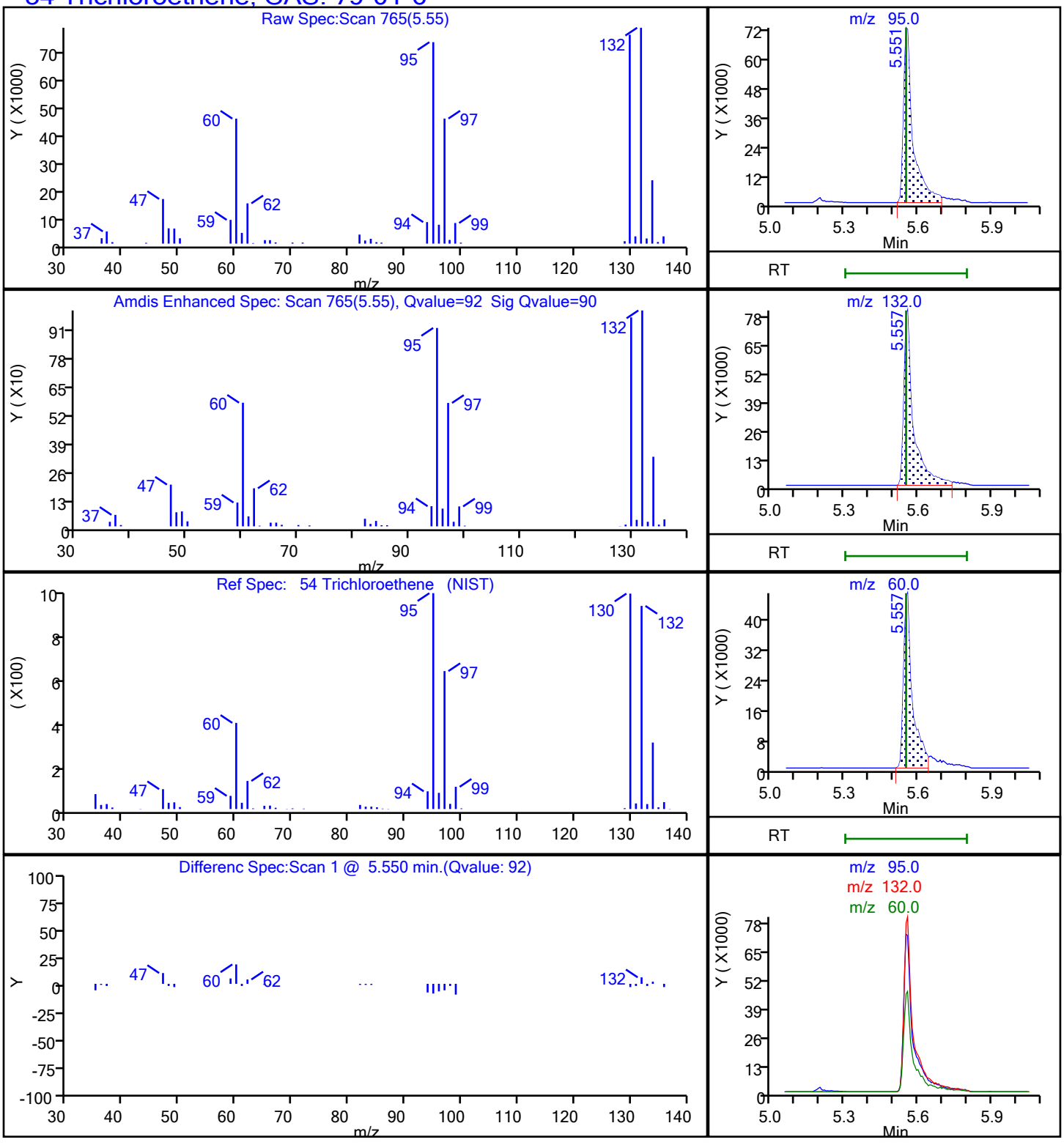
Report Date: 20-Nov-2020 06:57:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D

Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:		ALS Bottle#:	29 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6



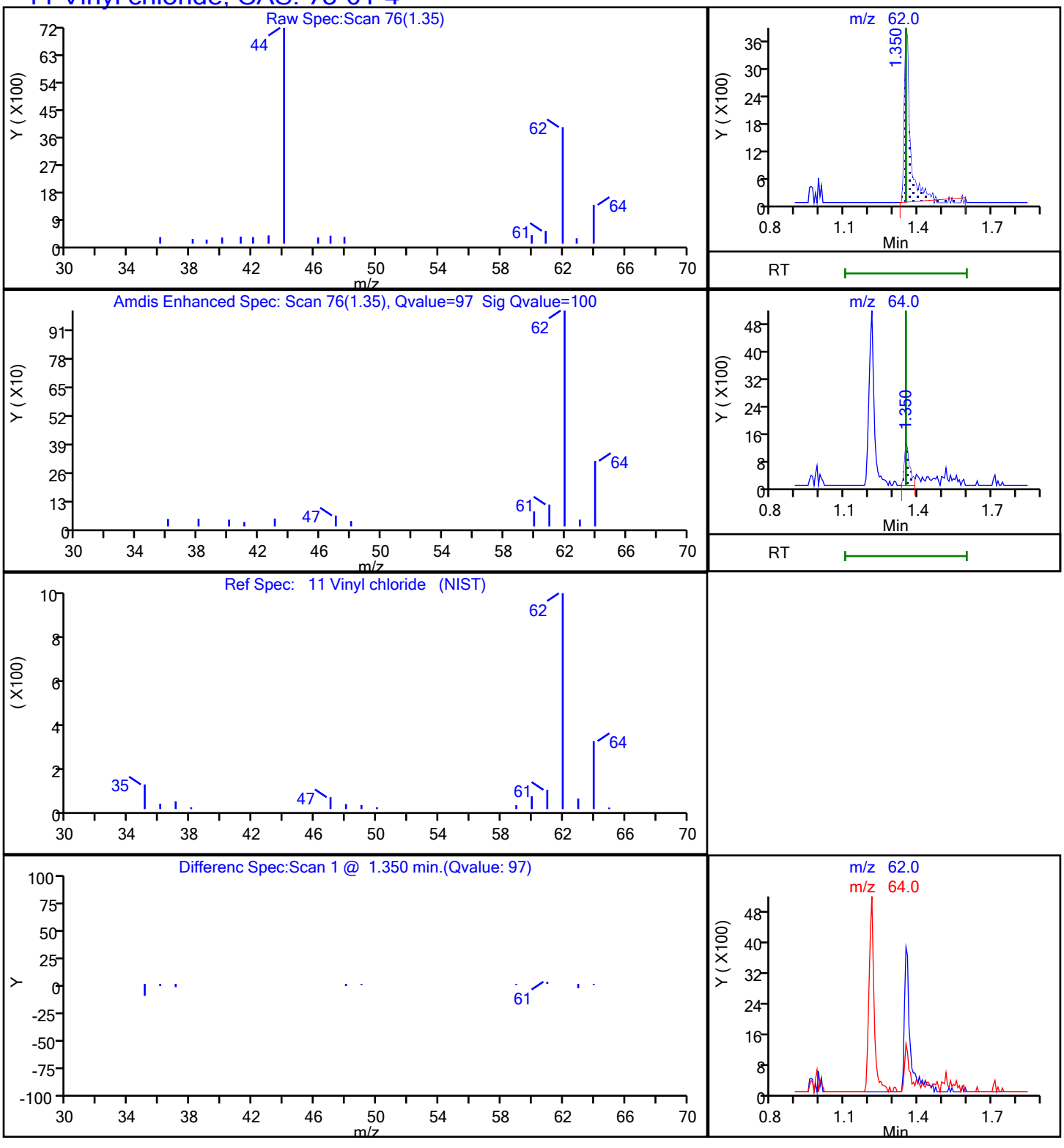
Report Date: 20-Nov-2020 06:57:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D

Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:		ALS Bottle#:	29 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

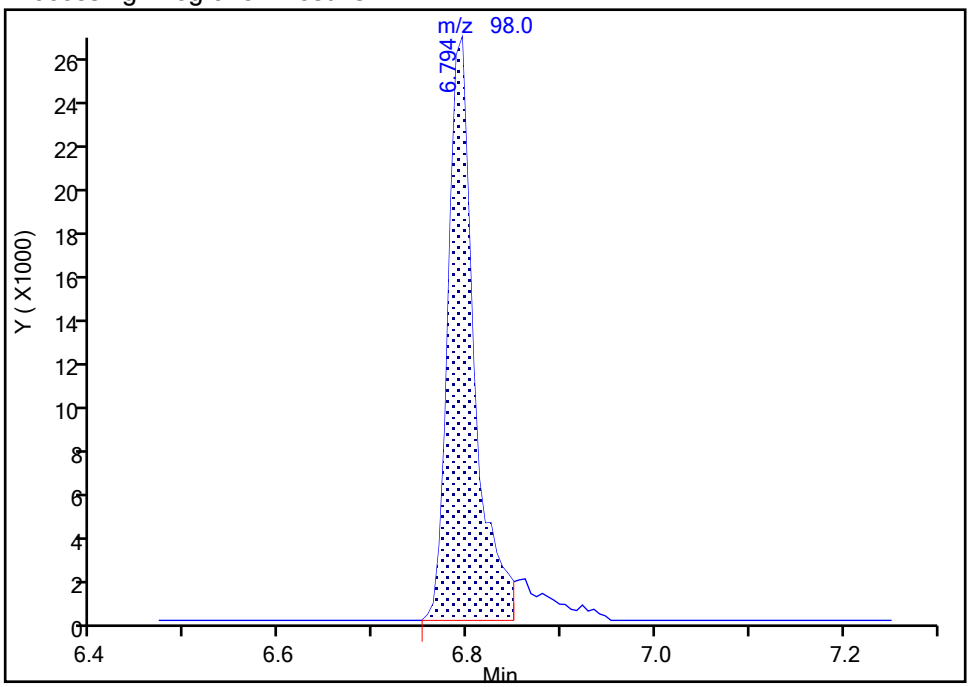
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D		
Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:		ALS Bottle#:	29 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

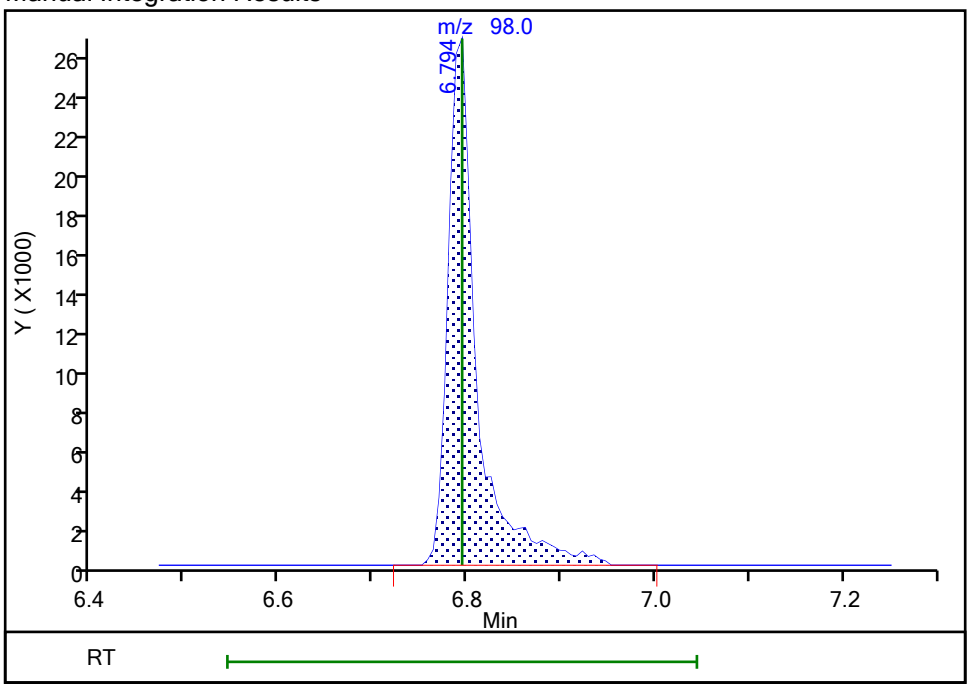
Processing Integration Results

RT: 6.79
Area: 51771
Amount: 44.299855
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 56861
Amount: 48.655310
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:38:39

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

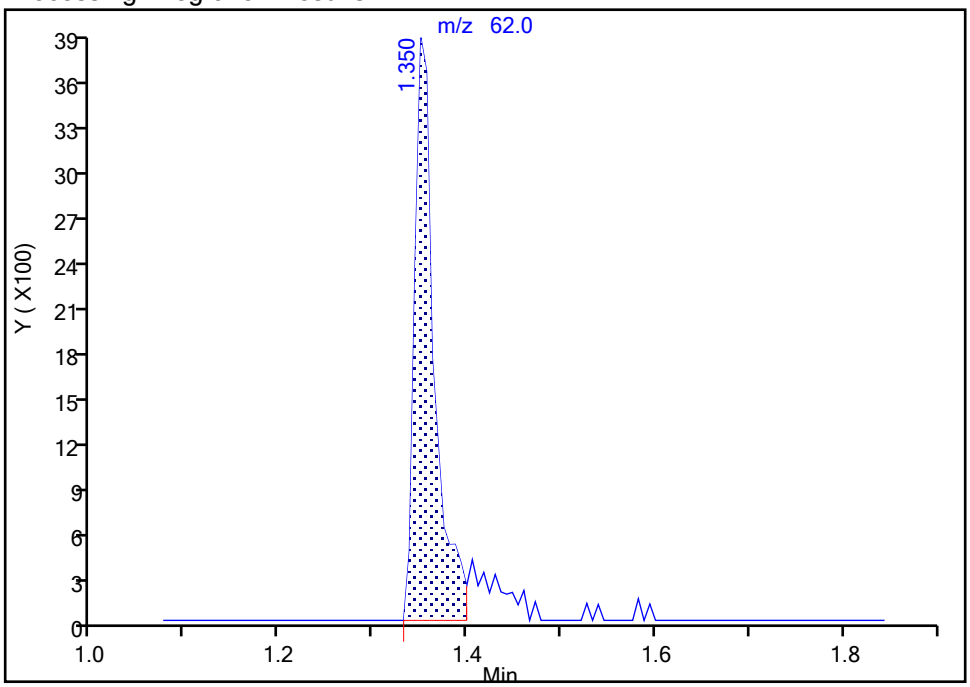
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D		
Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:		ALS Bottle#:	29 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

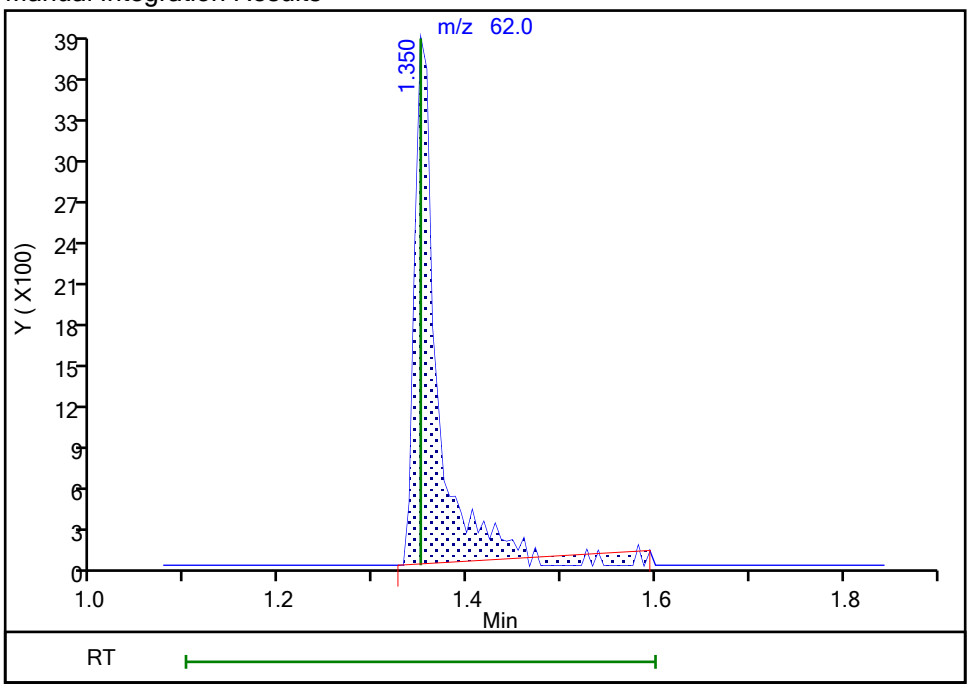
Processing Integration Results

RT: 1.35
Area: 5649
Amount: 1.983184
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 5809
Amount: 2.039355
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:38:46

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D

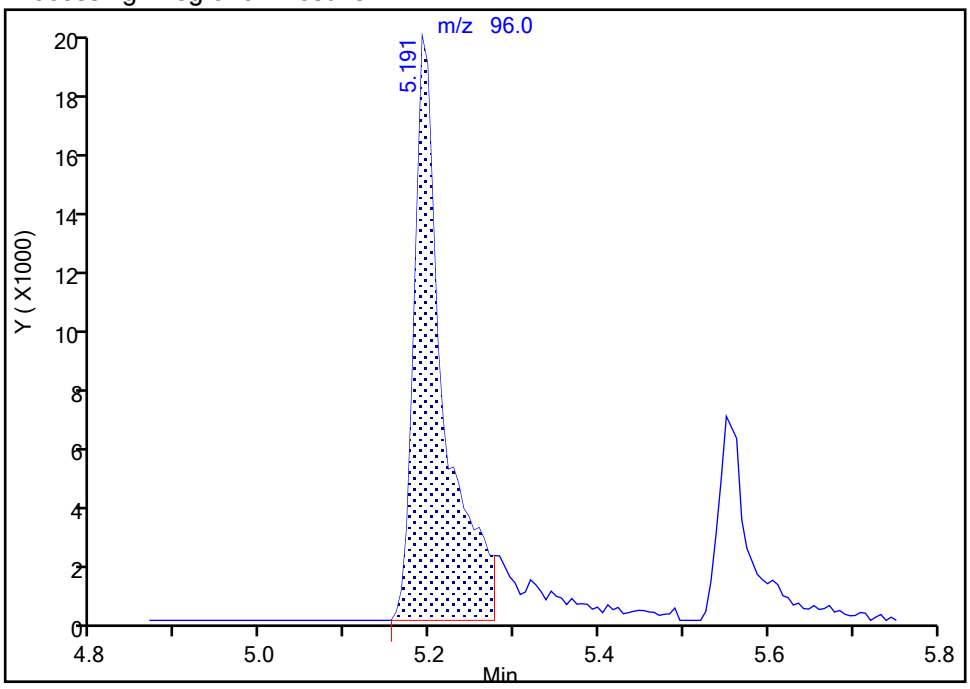
Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21
Client ID:	GW-111220-BE-038		
Operator ID:		ALS Bottle#:	29 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

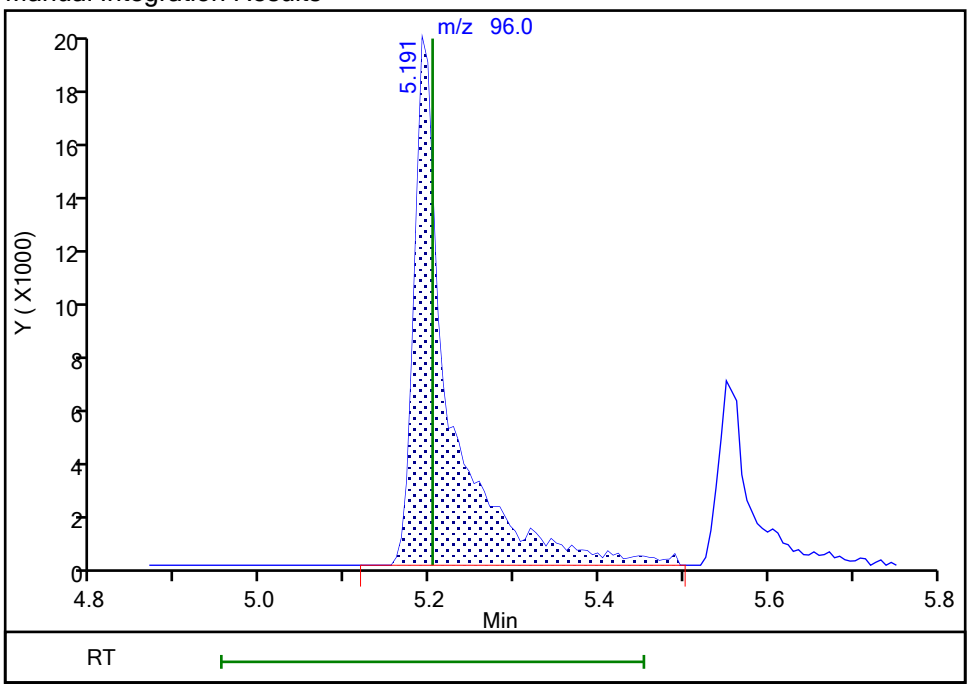
Processing Integration Results

RT: 5.19
Area: 47346
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 55948
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:38:29

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

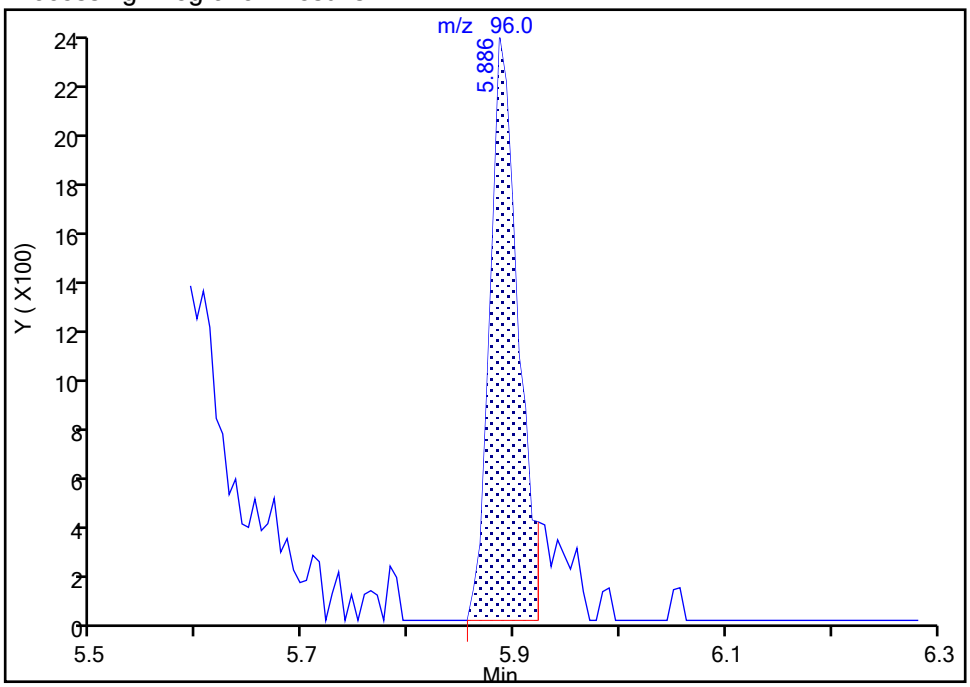
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4295.D				
Injection Date:	19-Nov-2020 09:10:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-21	Lab Sample ID:	310-140187-21		
Client ID:	GW-111220-BE-038				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

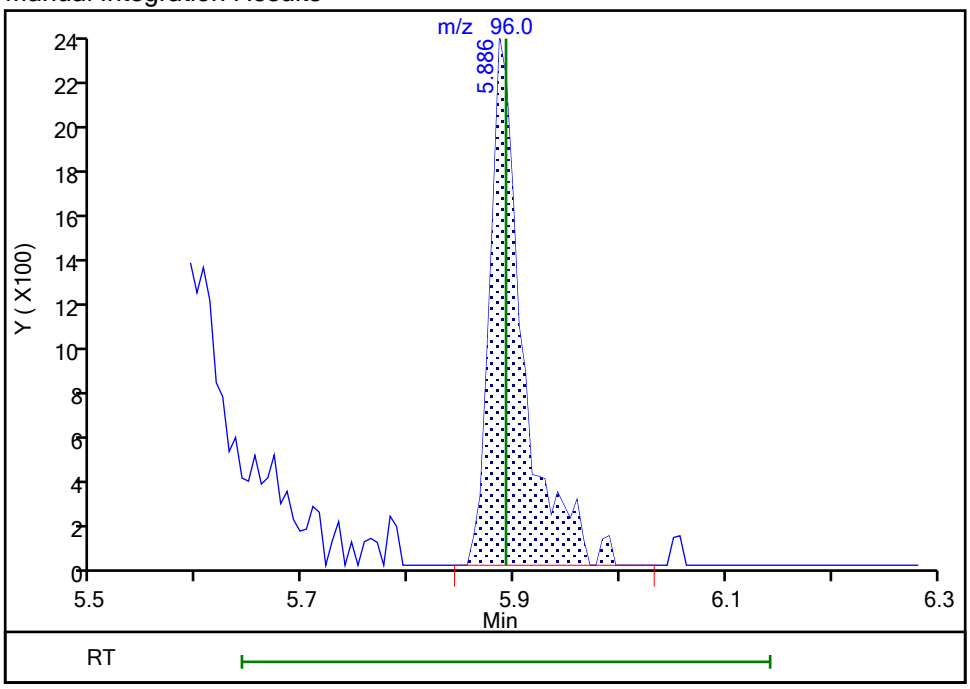
Processing Integration Results

RT: 5.89
Area: 4393
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5152
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:38:34

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-039 Lab Sample ID: 240-140187-22

Matrix: Water Lab File ID: c8264.D

Analysis Method: 8260D Date Collected: 11/12/2020 10:38

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	62		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.79		0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.49	J	0.50	0.22
75-35-4	1,1-Dichloroethene	48		2.0	0.56
107-06-2	1,2-Dichloroethane	2.6		1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	3.4		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	34		3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	3.0	J	10	2.1
75-09-2	Methylene Chloride	5.6		1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.1		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	53		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D
Lims ID: 240-140187-A-22
Client ID: GW-111220-BE-039
Sample Type: Client
Inject. Date: 18-Nov-2020 20:23:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-010
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:40:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.403	3.409	-0.006	0	252	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	98	183372	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	94	6365	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	133941	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	62238	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.787	0.006	91	43508	52.9	M
$ 6 Toluene-d8 (Surr)	98	7.055	7.049	0.006	96	175461	51.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	50425	49.5	
$ 8 BFB	95	9.920	9.920	0.000	81	68694	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50	1.532	1.526	0.006	30	93947	34.0	
11 Vinyl chloride	62	1.532	1.532	0.000	99	12855486	3804.4	E
12 Butadiene	54		1.568				ND	U
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64	1.916	1.916	0.000	98	123787	63.3	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.458				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.659	2.653	0.006	93	91319	48.4	
21 112TCTFE	101		2.672				ND	
22 Acetone	43	2.714	2.714	0.000	95	2676	2.37	M
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.836				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40	2.958	2.958	0.000	73	303	1.71	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	97	12528	5.61	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.385	0.006	93	113847	52.9	
29 Methyl tert-butyl ether	73		3.397				ND	
31 Hexane	57	3.696	3.702	-0.006	61	2159	0.7400	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	98	2365704	586.2	E
33 Vinyl acetate	86		3.848				ND	U
34 2-Chloro-1,3-butadiene	53		3.873				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.342	4.330	0.012	76	33254915	13507	EM
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	U
104 Ethyl acetate	61		4.421				ND	
43 Methacrylonitrile	67		4.543				ND	U
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.647	4.641	0.006	93	3466	0.8212	M
46 1,1,1-Trichloroethane	97	4.811	4.805	0.006	97	214760	62.1	
47 Cyclohexane	56	4.860	4.860	0.000	88	2800	0.6787	
48 Carbon tetrachloride	117		4.964				ND	U
49 1,1-Dichloropropene	75	4.970	4.976	-0.006	88	771	0.2381	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	49	7735	2.58	
50 Benzene	78	5.177	5.177	0.000	98	32406	3.42	
116 n-Butanol	56		5.293				ND	U
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.805	5.805	0.000	96	135957	56.1	
117 Ethyl acrylate	55		5.933				ND	U
114 Methylcyclohexane	83	6.012	6.012	0.000	71	6648	1.67	a
55 1,2-Dichloropropane	63		6.019				ND	U
56 Dibromomethane	93		6.122				ND	
57 Methyl methacrylate	69		6.165				ND	
115 1,4-Dioxane	58	6.171	6.165	0.006	36	831	0	
58 Dichlorobromomethane	83		6.293				ND	U
106 2-Nitropropane	43		6.525				ND	U
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	97	5250	2.97	
62 Toluene	92	7.134	7.116	0.018	96	15487516	2403.4	EeM
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83	7.524	7.530	-0.006	67	757	0.4920	
66 Tetrachloroethene	166	7.689	7.689	0.000	93	2848	1.07	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	99	6885096	585.7	E
74 m-Xylene & p-Xylene	106	8.896	8.890	0.006	98	5947758	1299.6	E
75 o-Xylene	106	9.335	9.335	0.000	99	2602562	597.5	E
76 Styrene	104		9.347				ND	U
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	192351	17.0	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83	10.115	10.103	0.012	58	1565	0.7859	a
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	U
83 N-Propylbenzene	91	10.243	10.243	0.000	99	370624	28.4	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	95	490073	54.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	92	6751	0.8615	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	1688601	181.4	
89 sec-Butylbenzene	105	11.097	11.097	0.000	92	57371	5.15	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	81	72268	7.80	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105	11.389	11.389	0.000	100	815182	92.5	
113 Benzyl chloride	126		11.475				ND	U
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91	11.761	11.767	-0.006	93	116825	14.3	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.980	13.980	0.000	98	160653	31.1	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
139 C6-C12	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43	4.677	4.690	-0.013	1	45	NR	
S 101 1,2-Dichloroethene, Total	1				0		13560	E
S 100 Xylenes, Total	1				0		1897.1	E
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

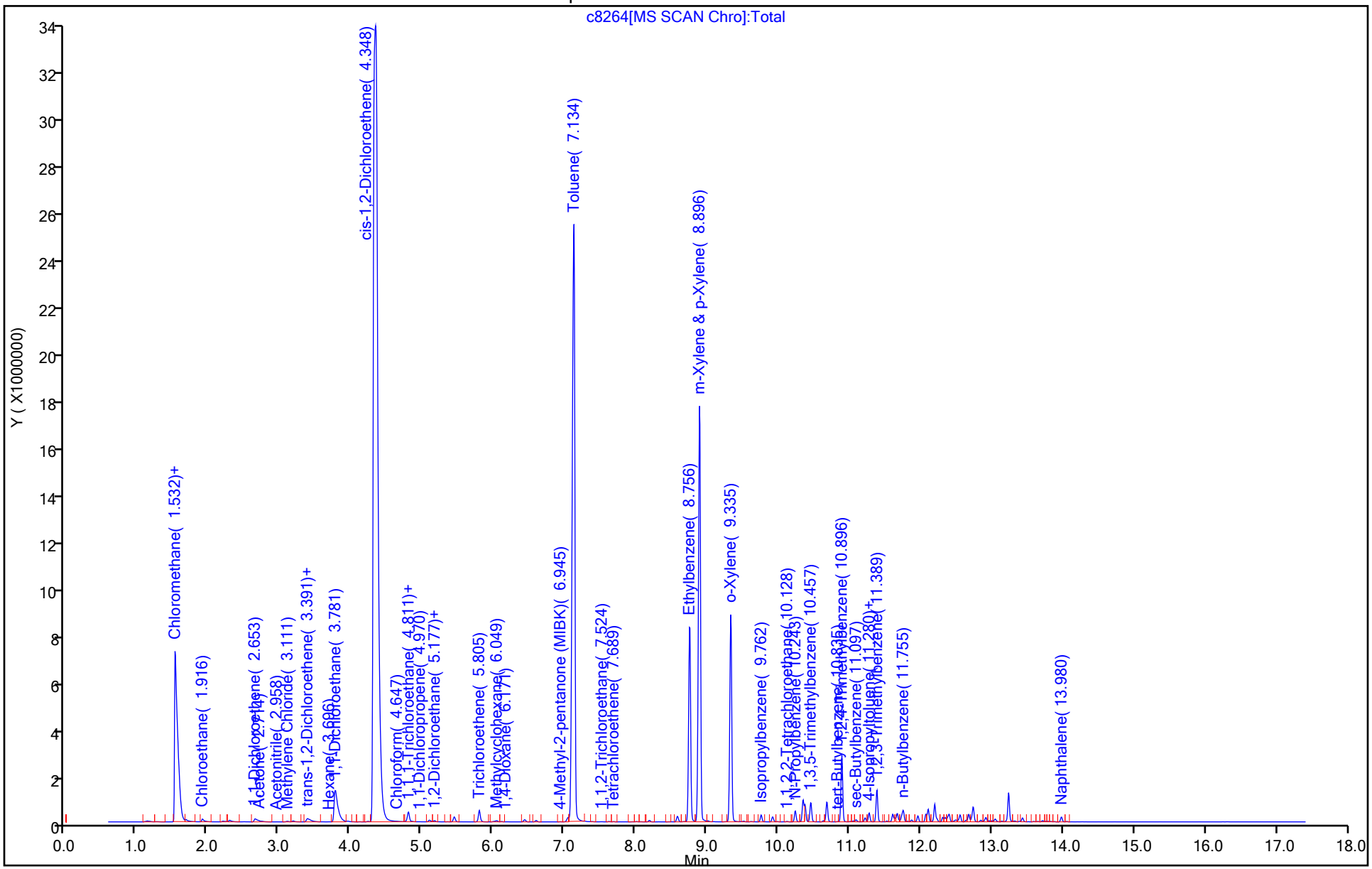
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 11:16:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22	Worklist Smp#:	10
Client ID:	GW-111220-BE-039				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D
Lims ID: 240-140187-A-22
Client ID: GW-111220-BE-039
Sample Type: Client
Inject. Date: 18-Nov-2020 20:23:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-010
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:40:00

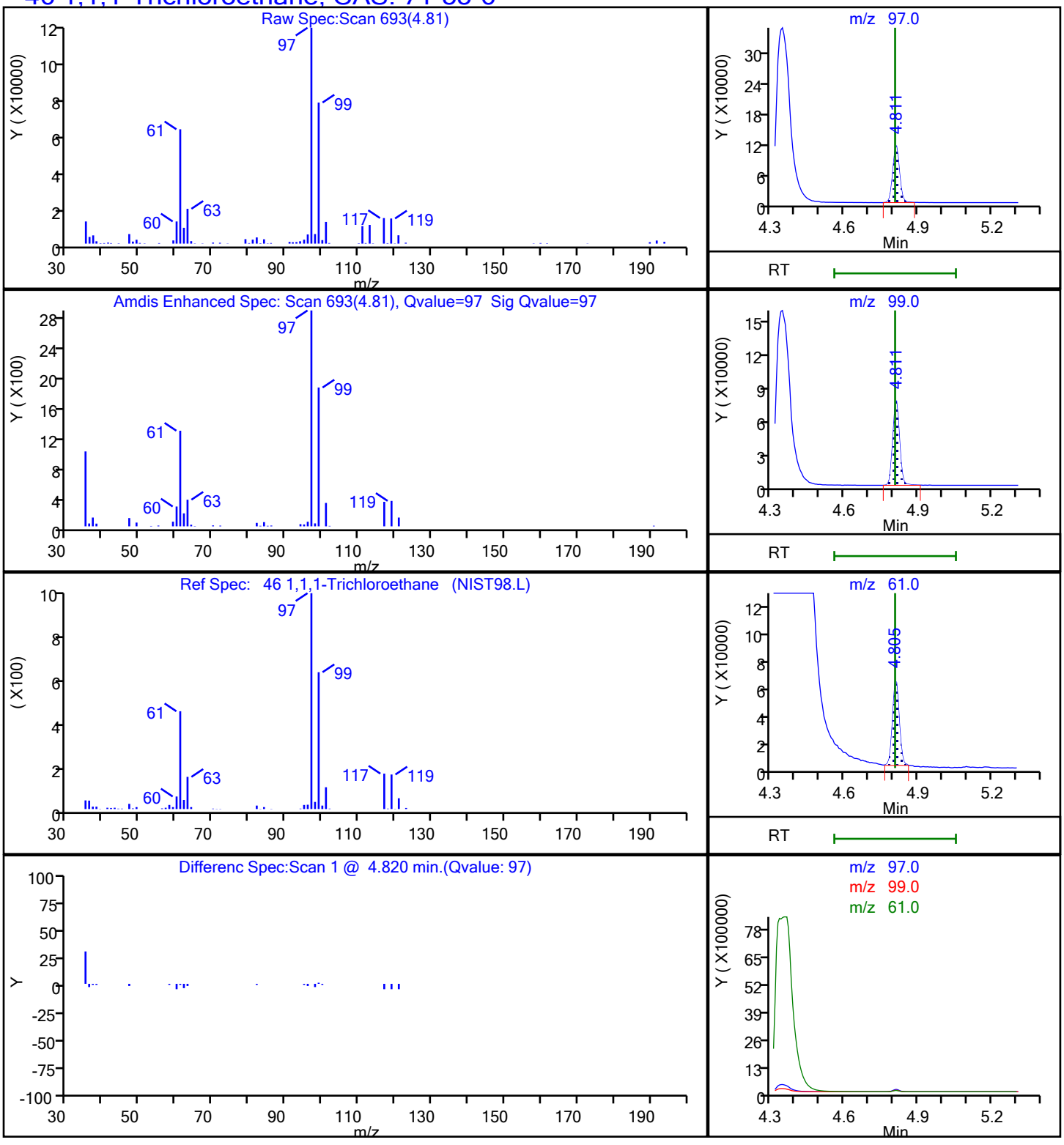
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.9	105.88
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.19
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.5	99.05

Report Date: 19-Nov-2020 11:16:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

46 1,1,1-Trichloroethane, CAS: 71-55-6

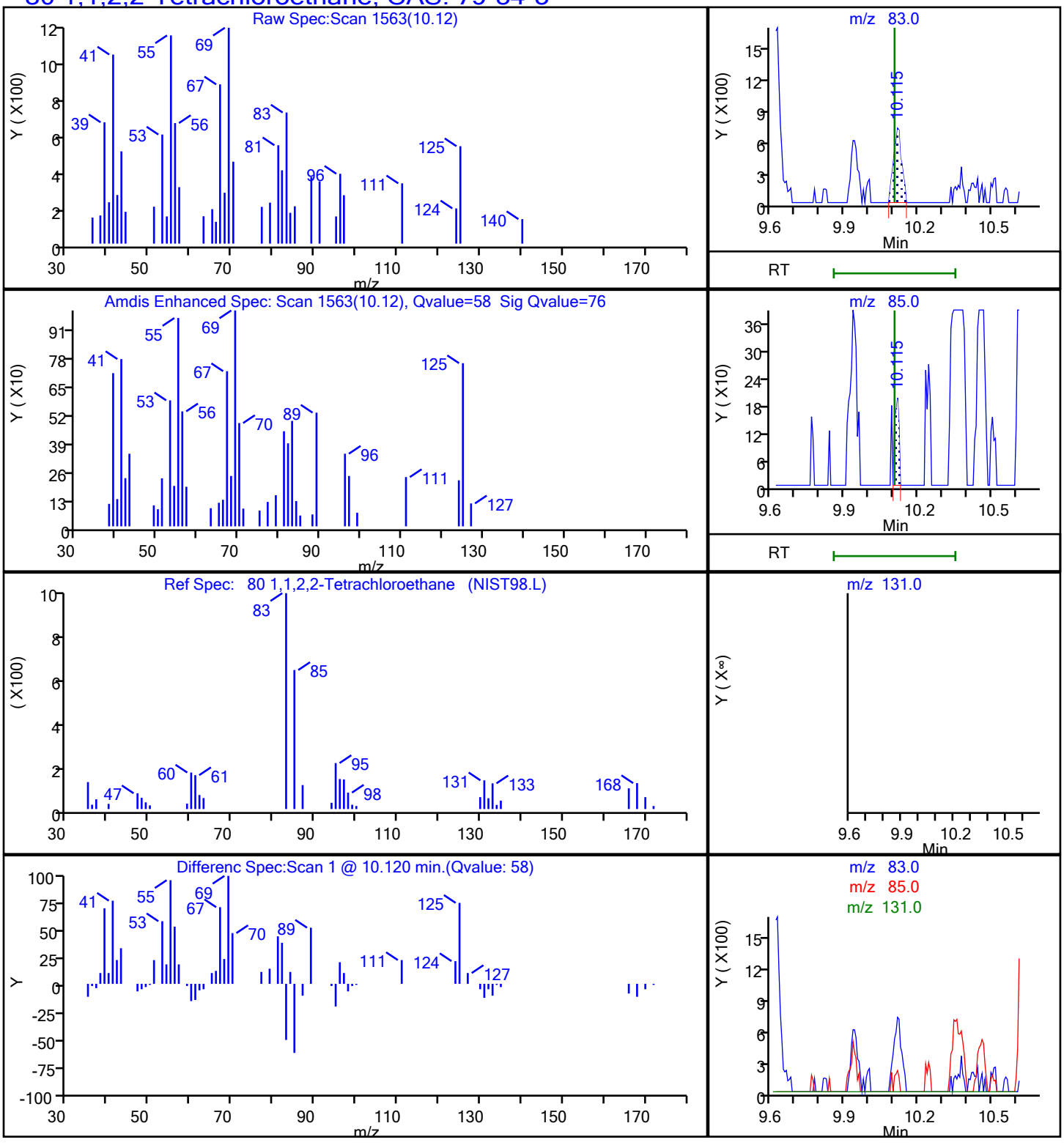


Report Date: 19-Nov-2020 11:16:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

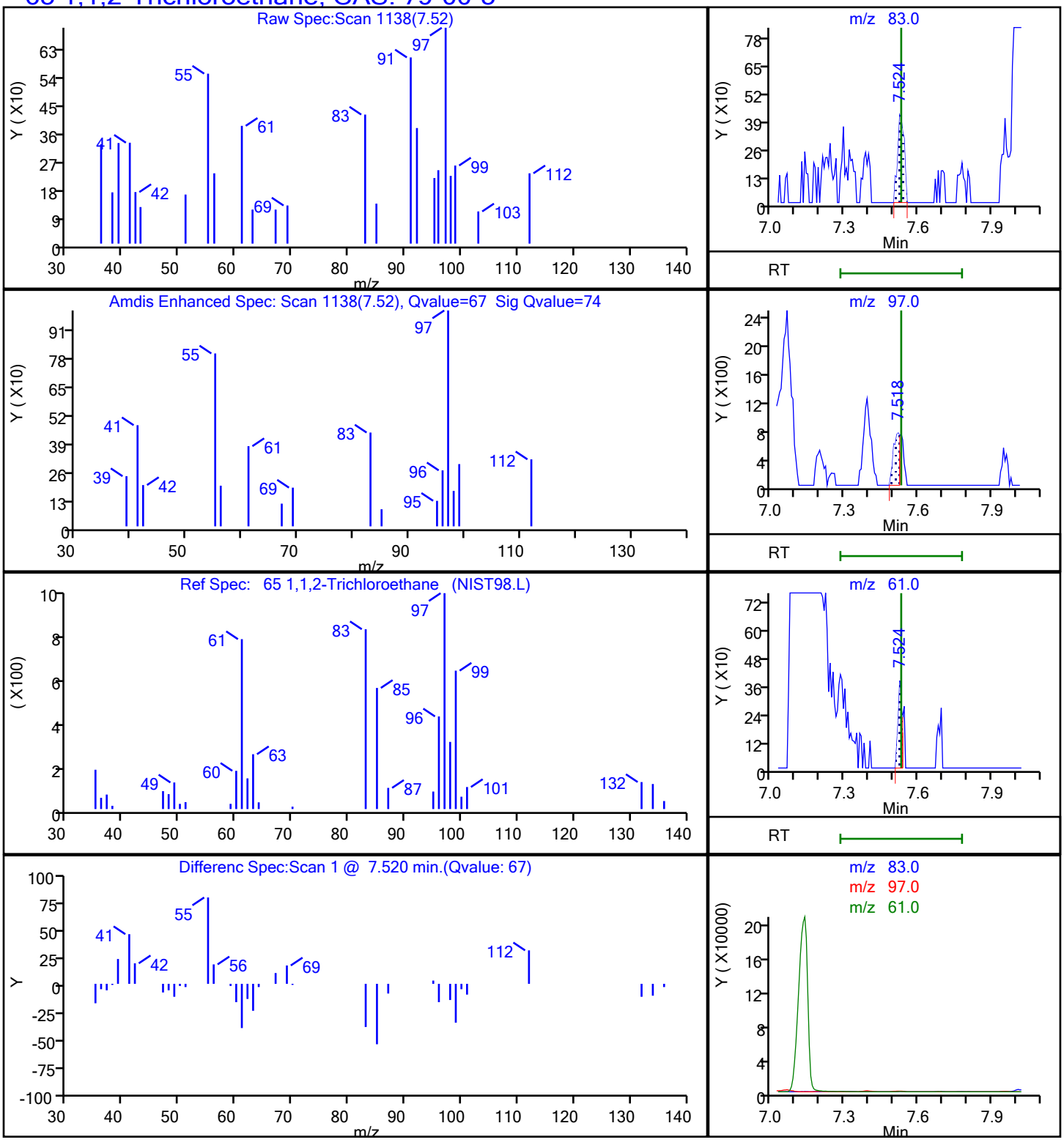


Report Date: 19-Nov-2020 11:16:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

65 1,1,2-Trichloroethane, CAS: 79-00-5

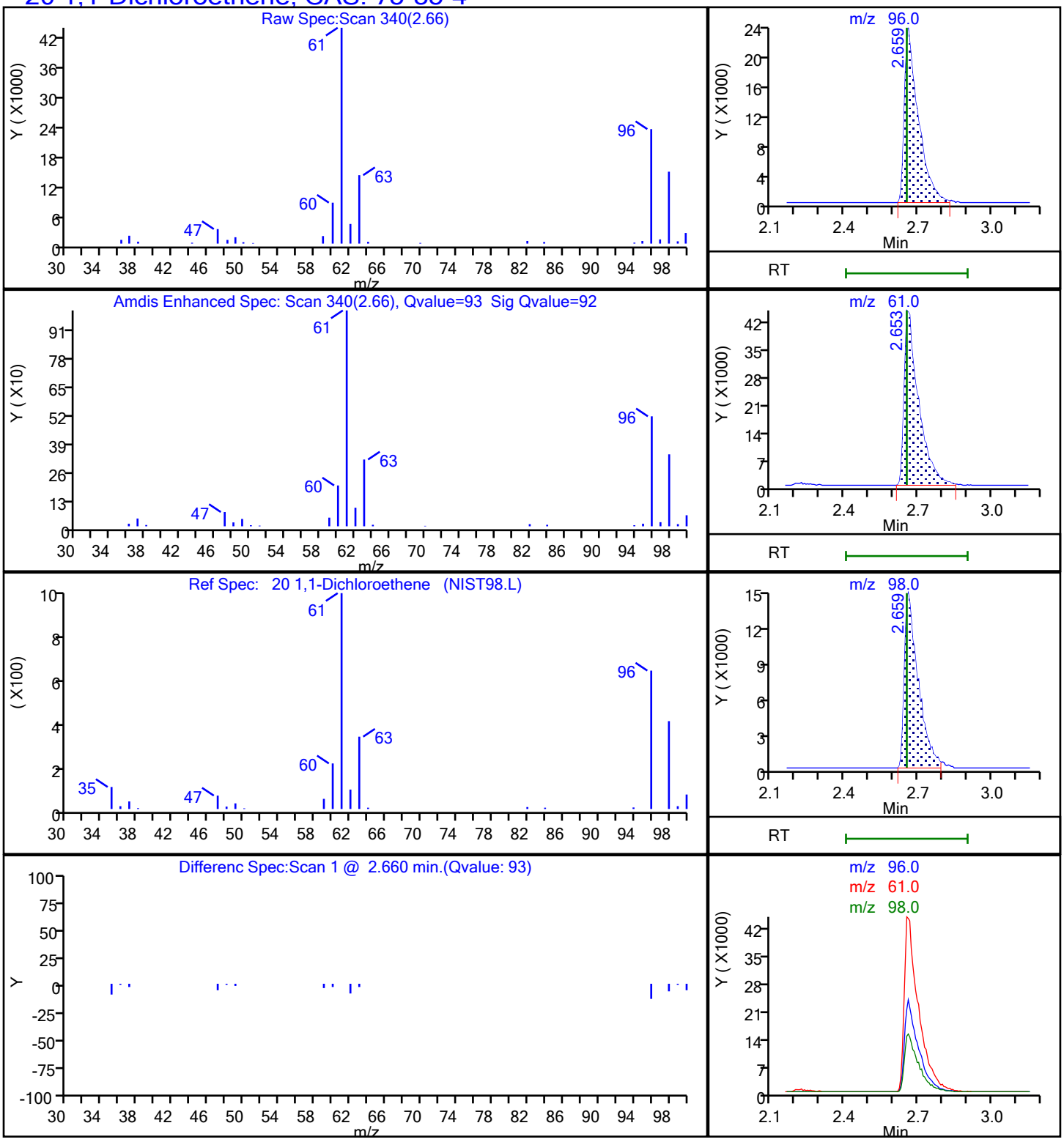


Report Date: 19-Nov-2020 11:16:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

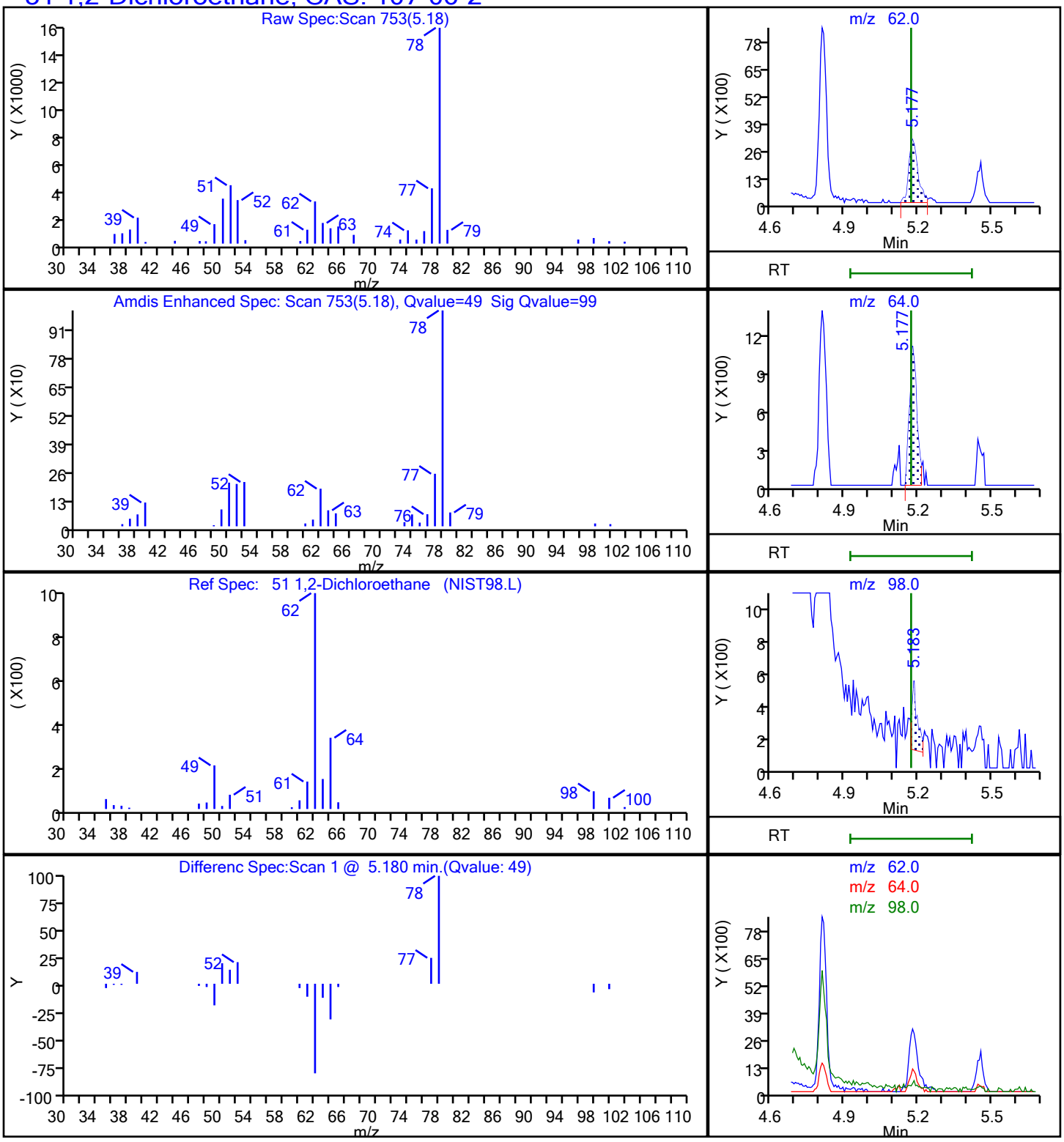


Report Date: 19-Nov-2020 11:16:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

51 1,2-Dichloroethane, CAS: 107-06-2

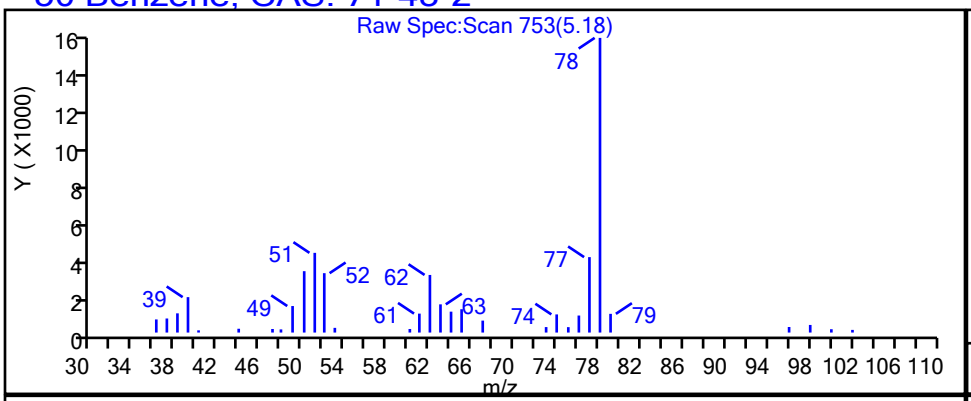


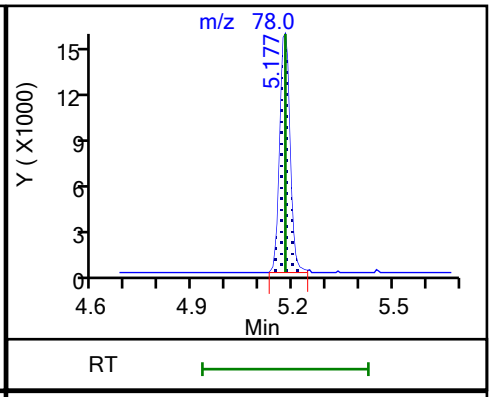
Report Date: 19-Nov-2020 11:16:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

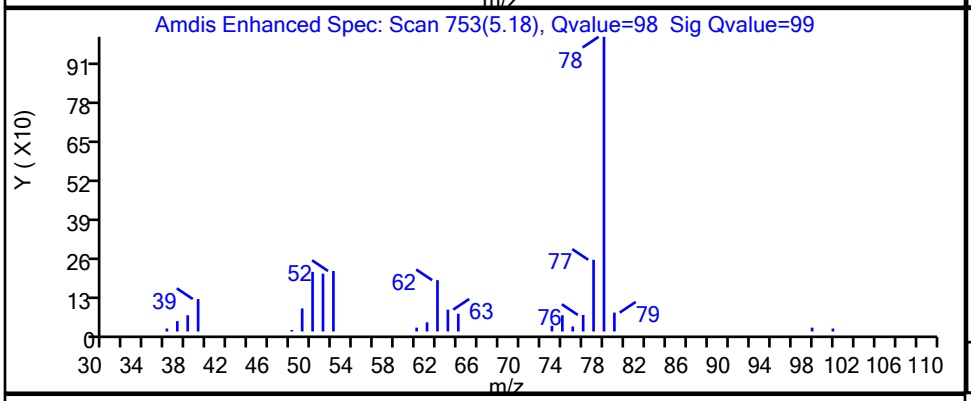
Eurofins TestAmerica, Cedar Falls

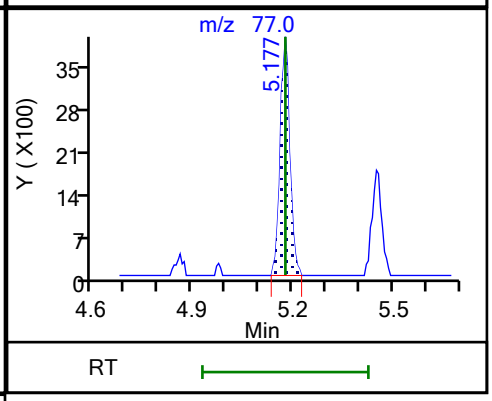
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

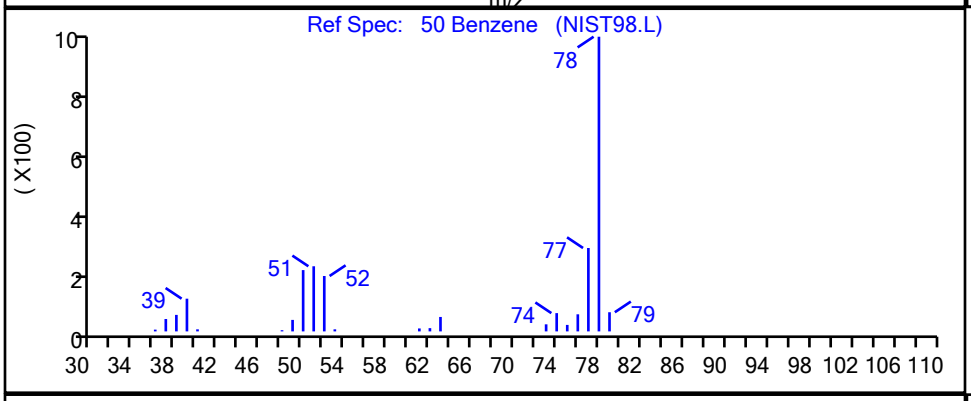
50 Benzene, CAS: 71-43-2

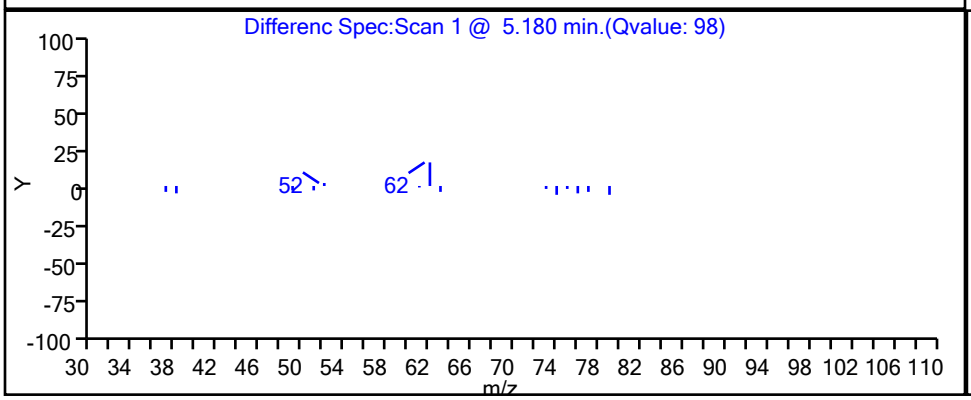


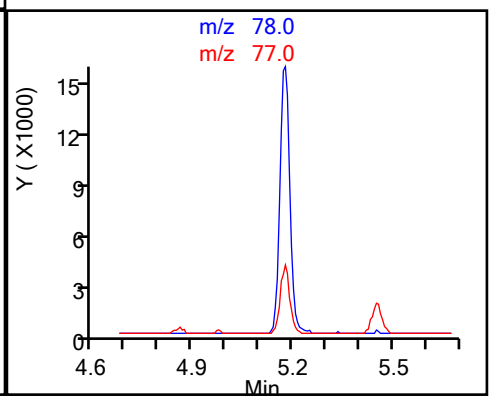










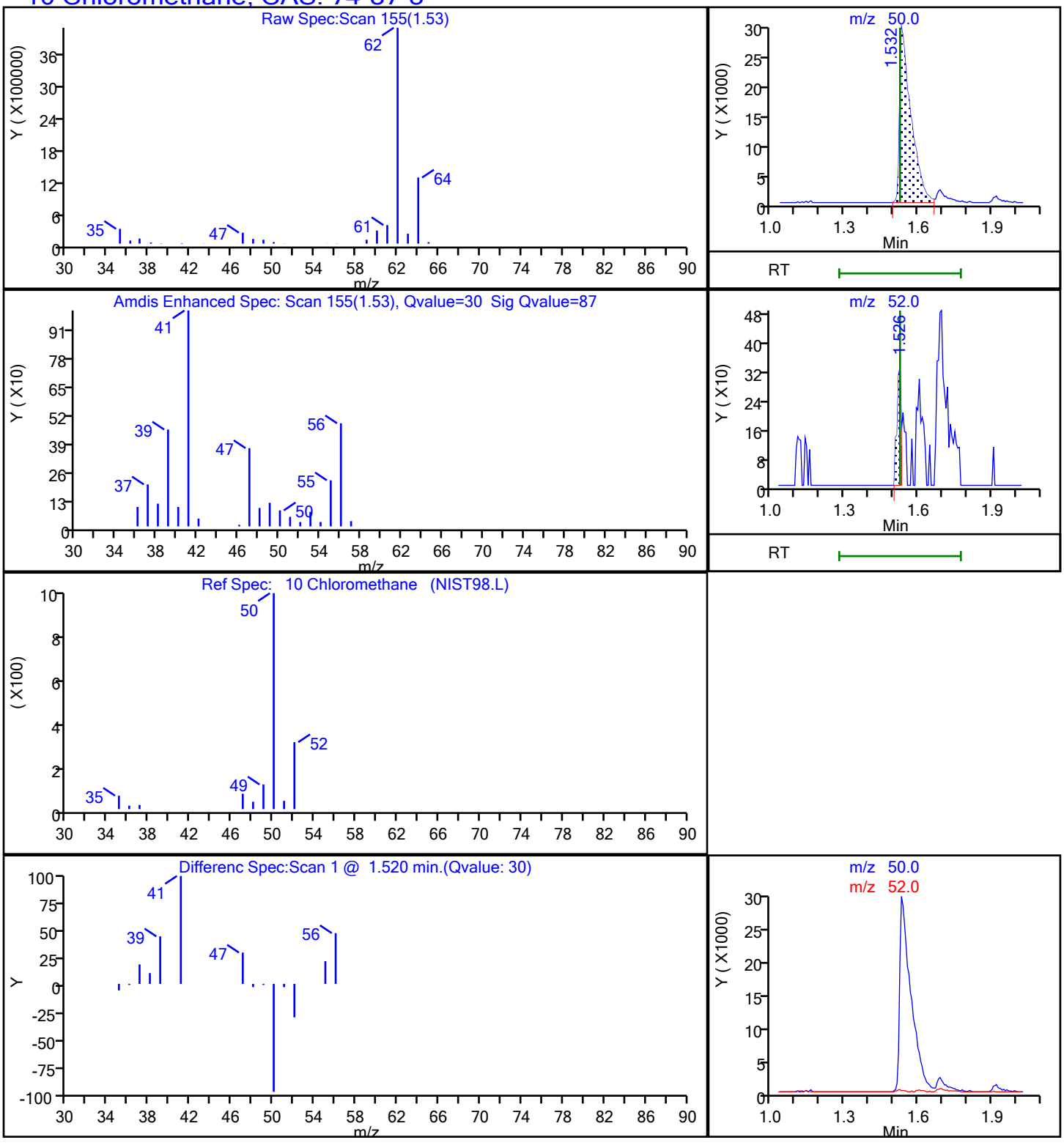


Report Date: 19-Nov-2020 11:16:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

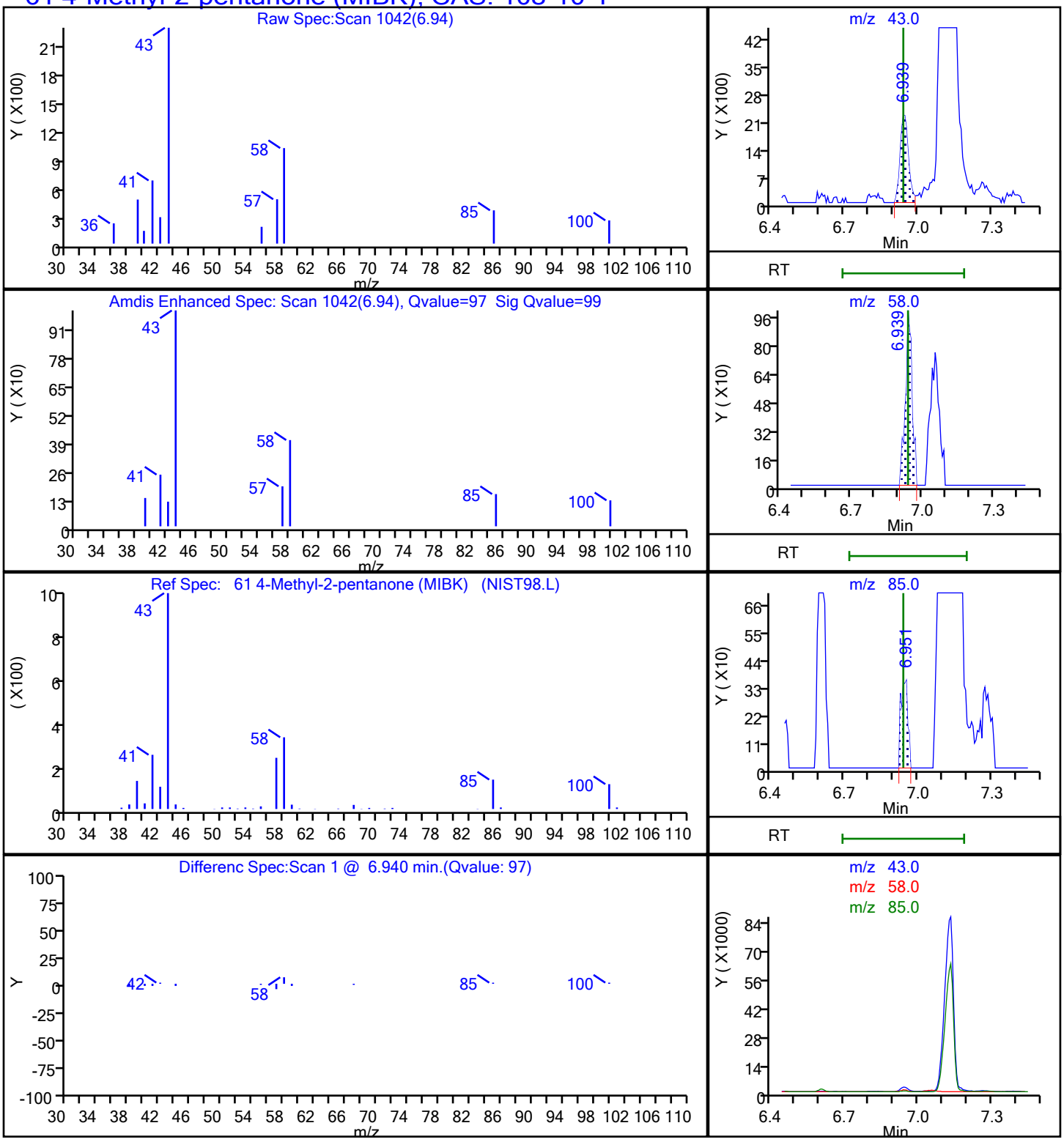


Report Date: 19-Nov-2020 11:16:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

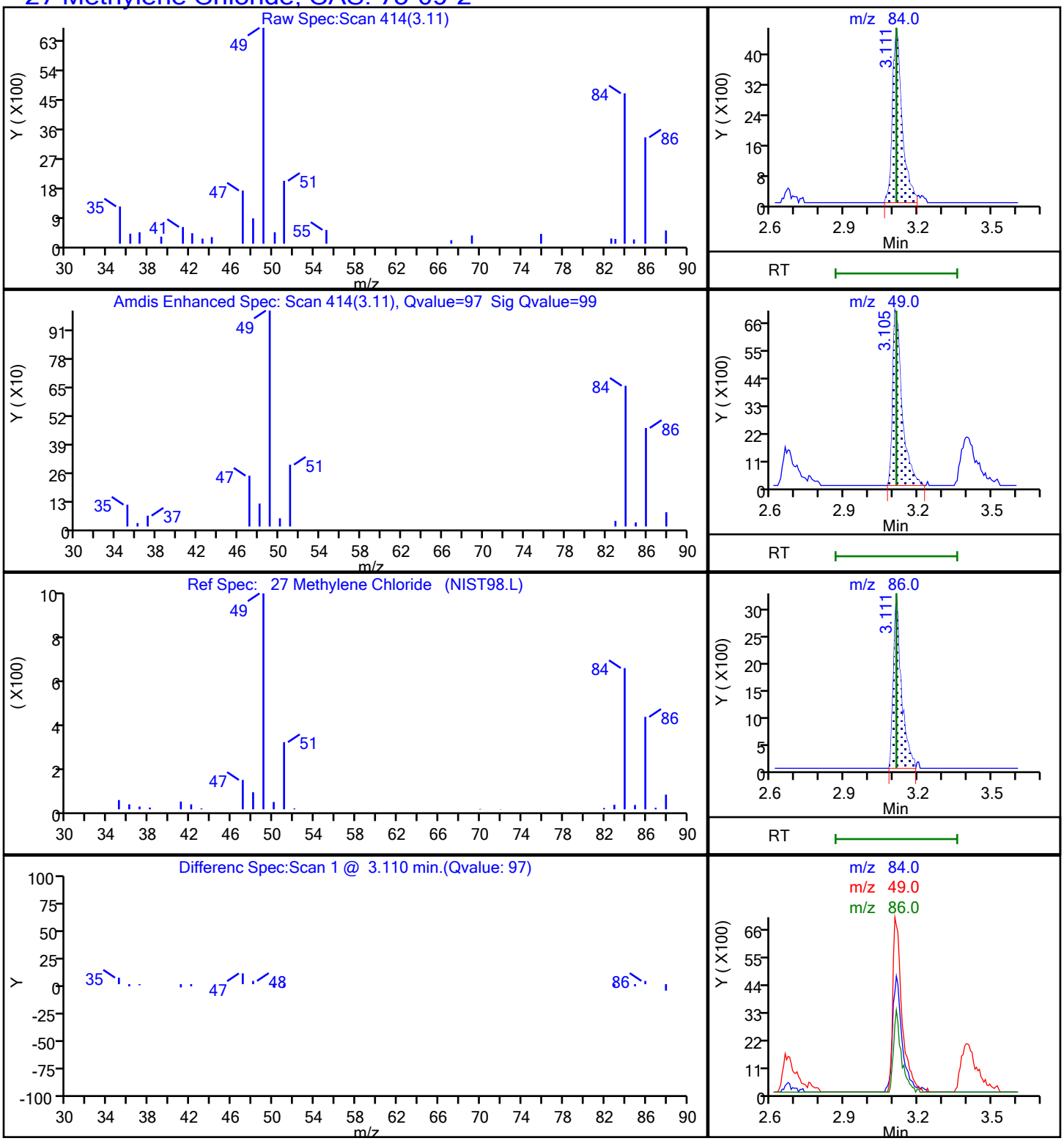


Report Date: 19-Nov-2020 11:16:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

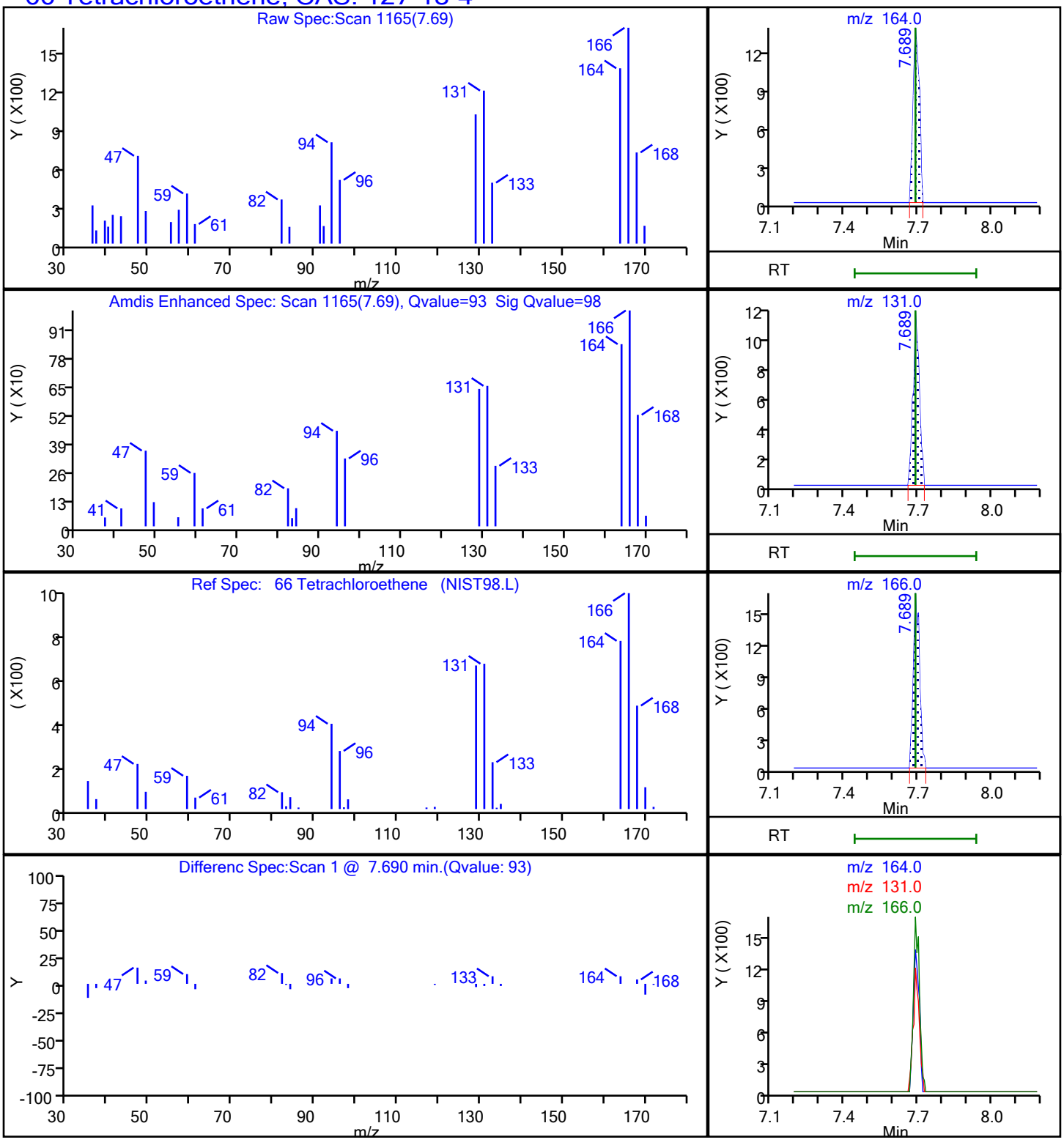


Report Date: 19-Nov-2020 11:16:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

66 Tetrachloroethene, CAS: 127-18-4

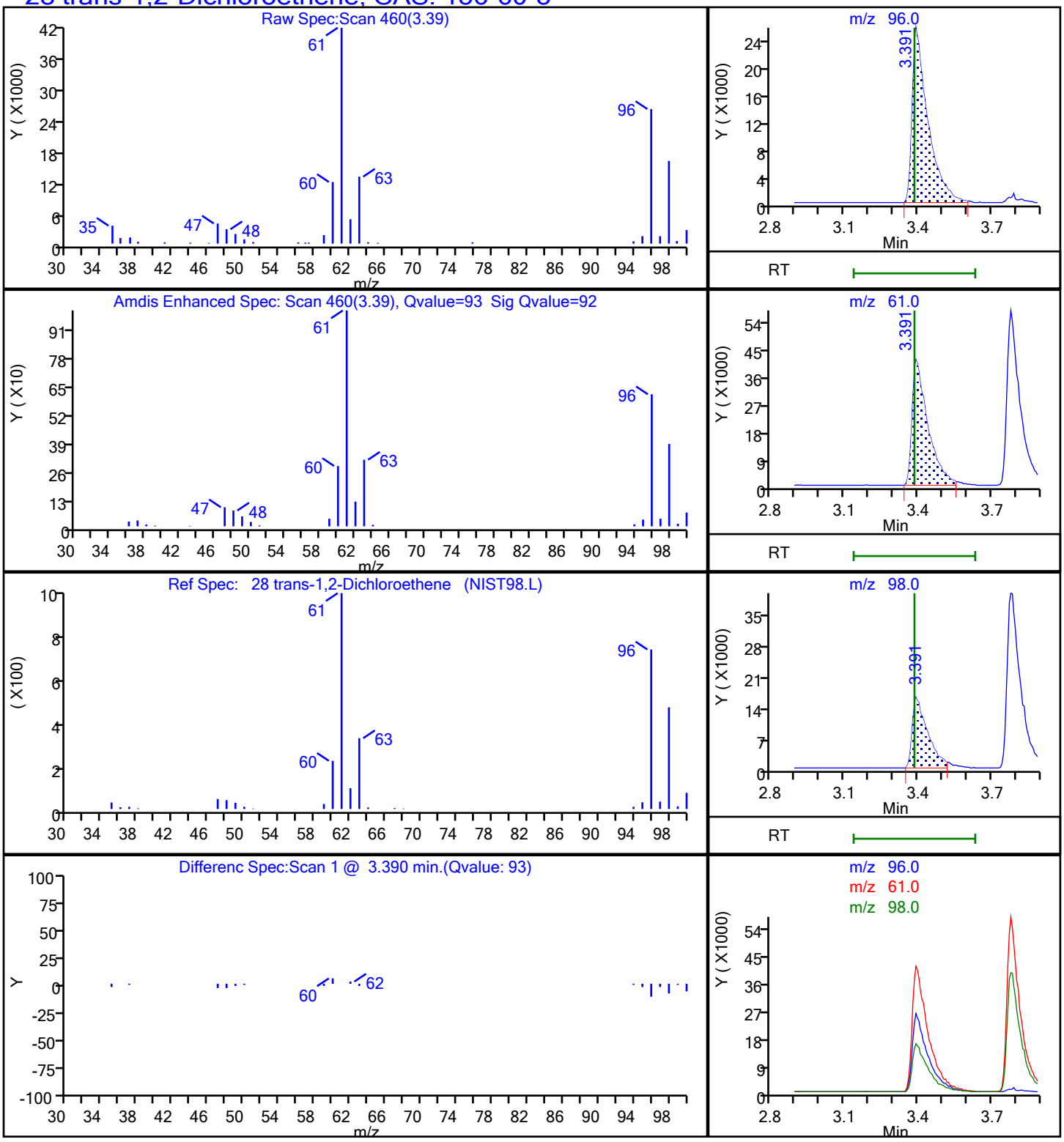


Report Date: 19-Nov-2020 11:16:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

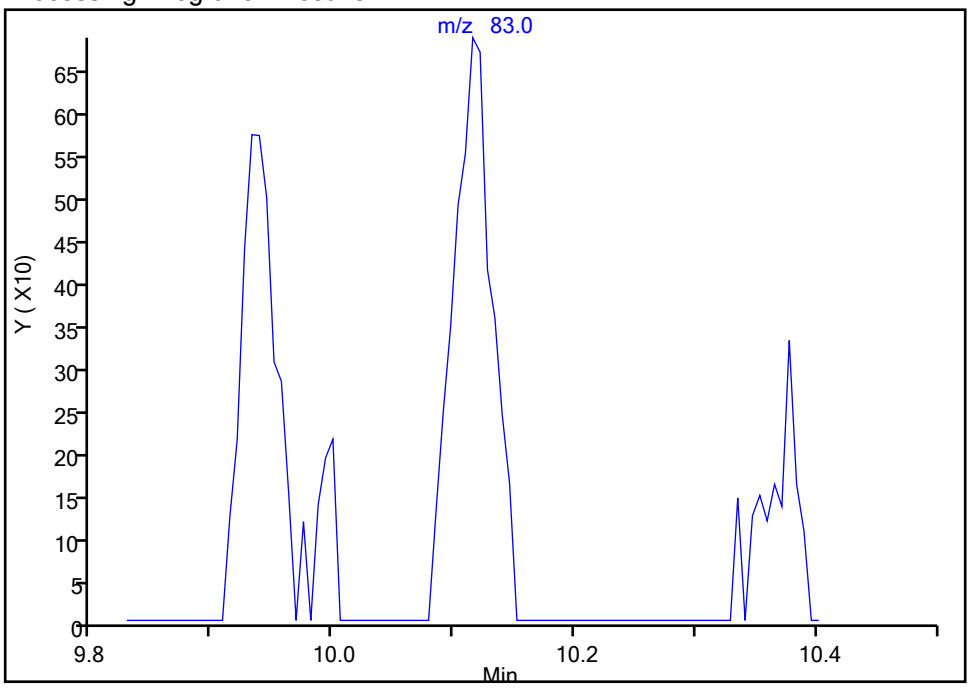
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

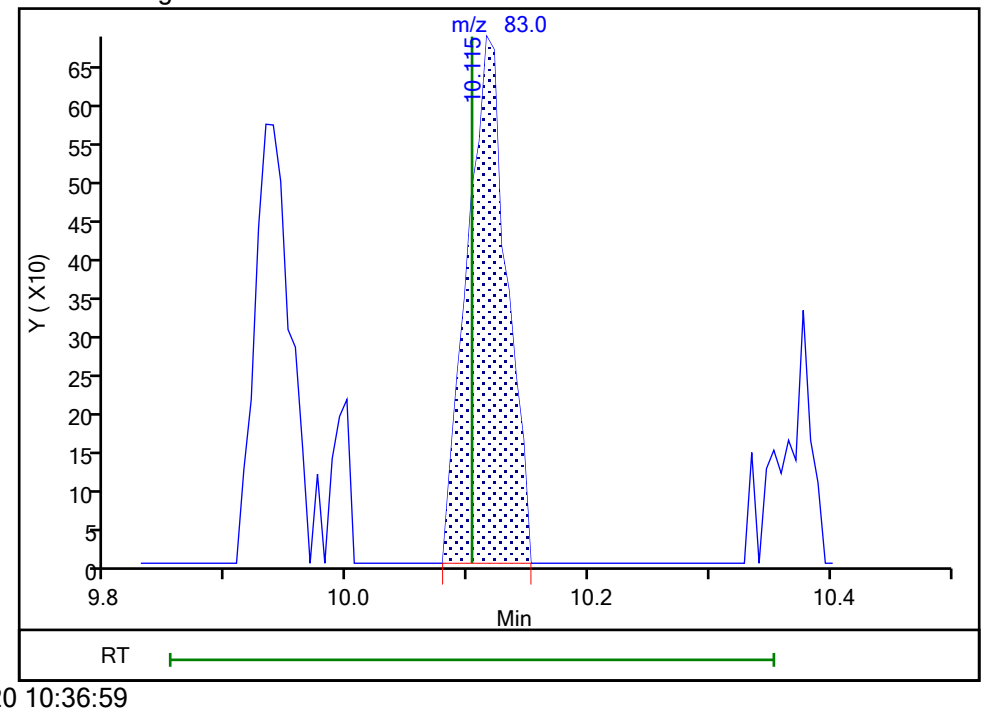
Not Detected
Expected RT: 10.10

Processing Integration Results



Manual Integration Results

RT: 10.12
Area: 1565
Amount: 0.785941
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:36:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

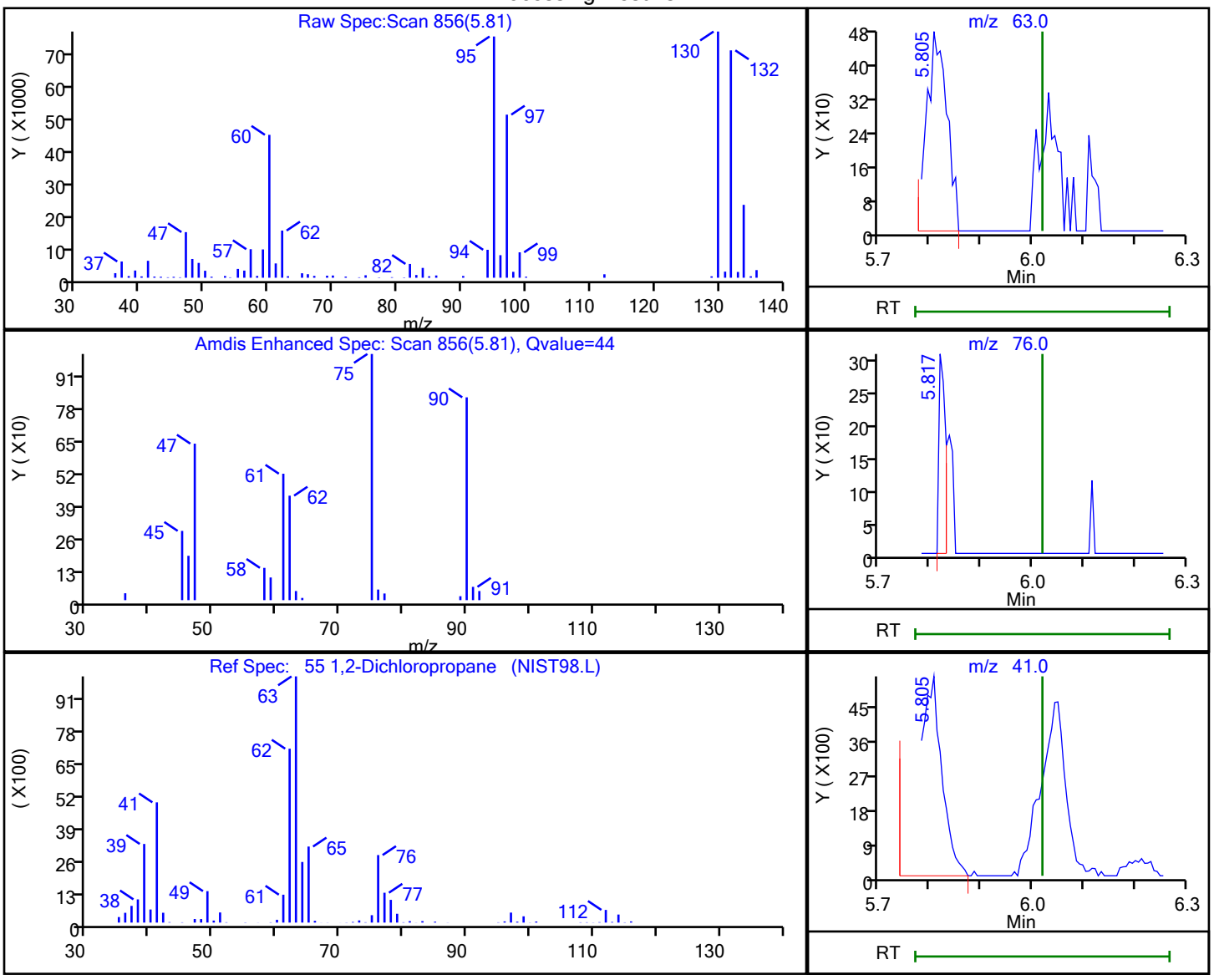
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

55 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
5.81	63.00	1262	0.545367
5.82	76.00	269	
5.81	41.00	15778	

Reviewer: nelsonsa, 19-Nov-2020 10:37:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

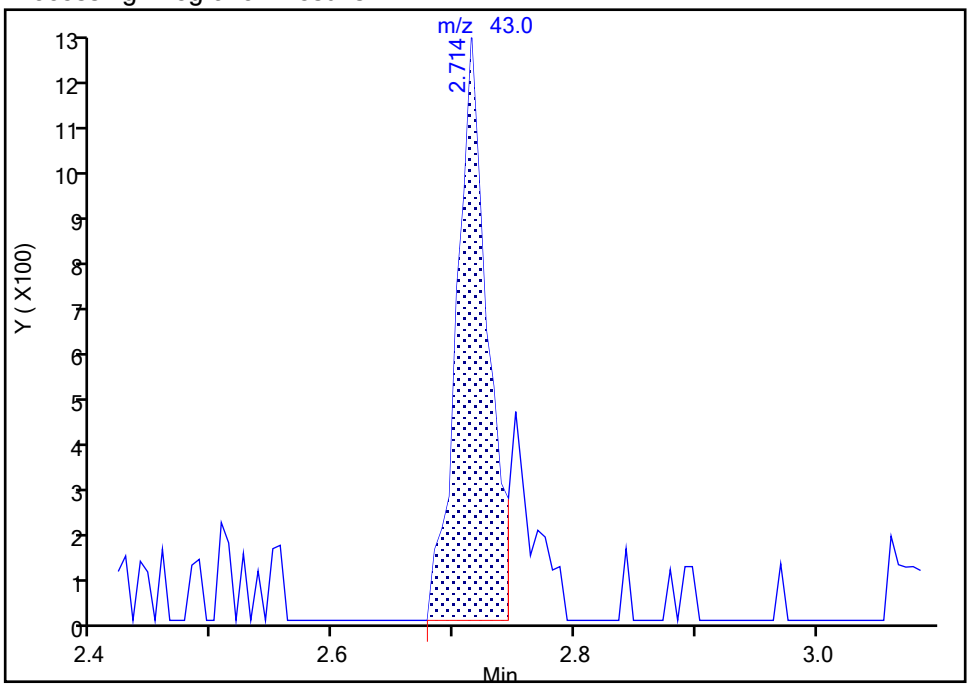
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

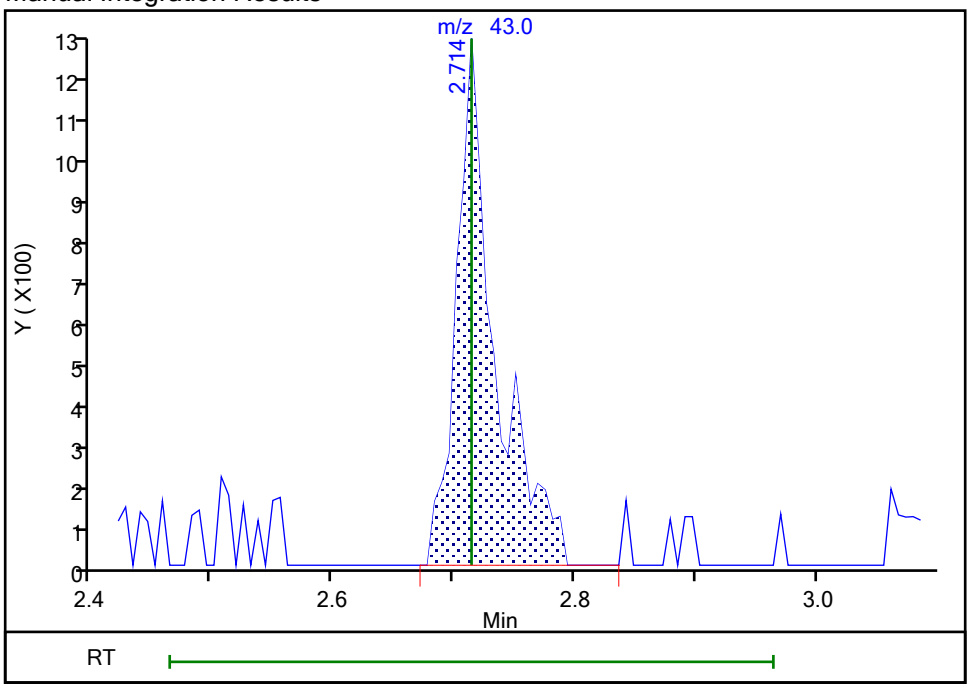
Processing Integration Results

RT: 2.71
Area: 2157
Amount: 1.250752
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 2676
Amount: 2.368179
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:39:09

Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 19-Nov-2020 11:16:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

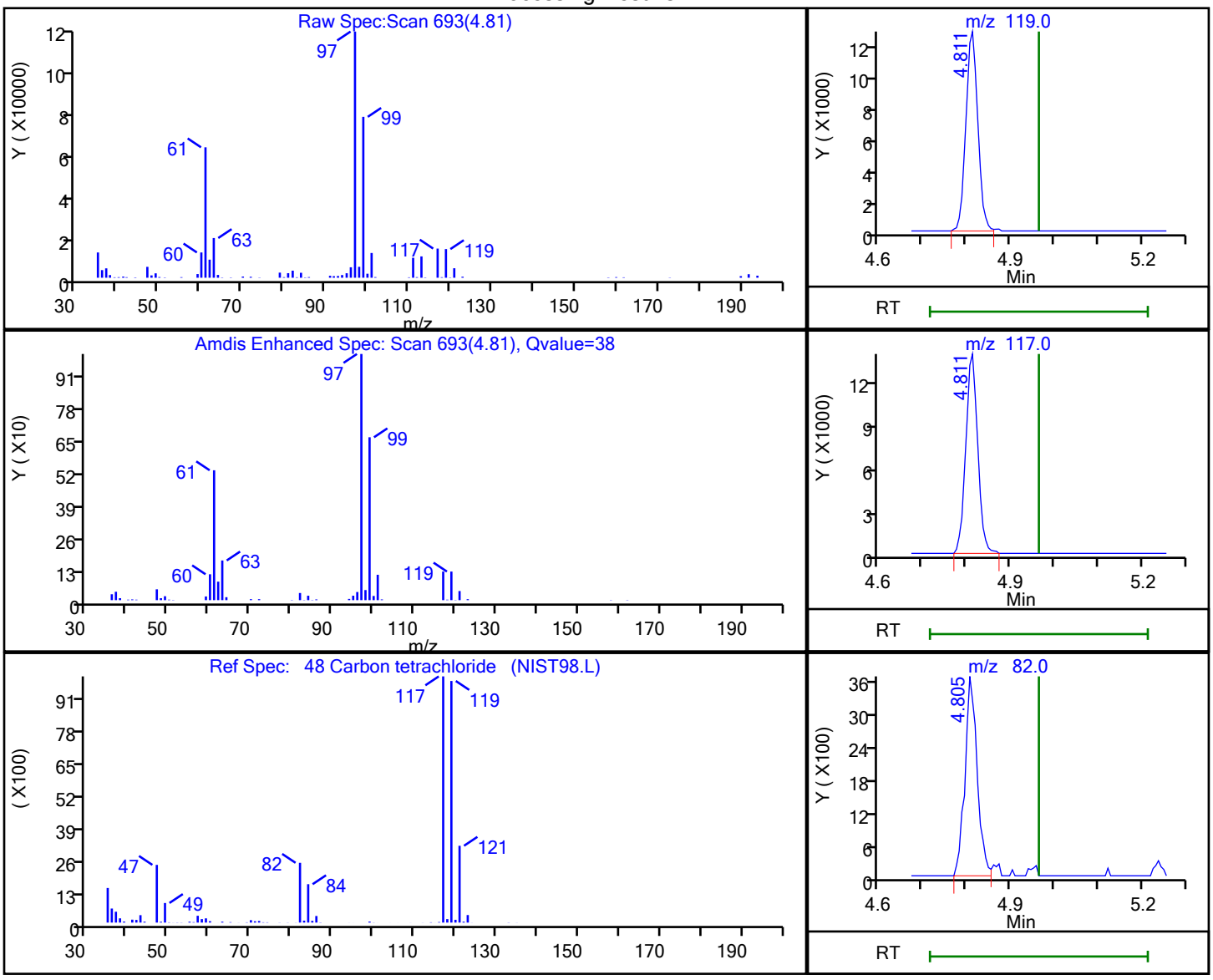
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

48 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
4.81	119.00	24683	
4.81	117.00	25126	8.393858
4.81	82.00	7058	

Reviewer: nelsonsa, 19-Nov-2020 10:38:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

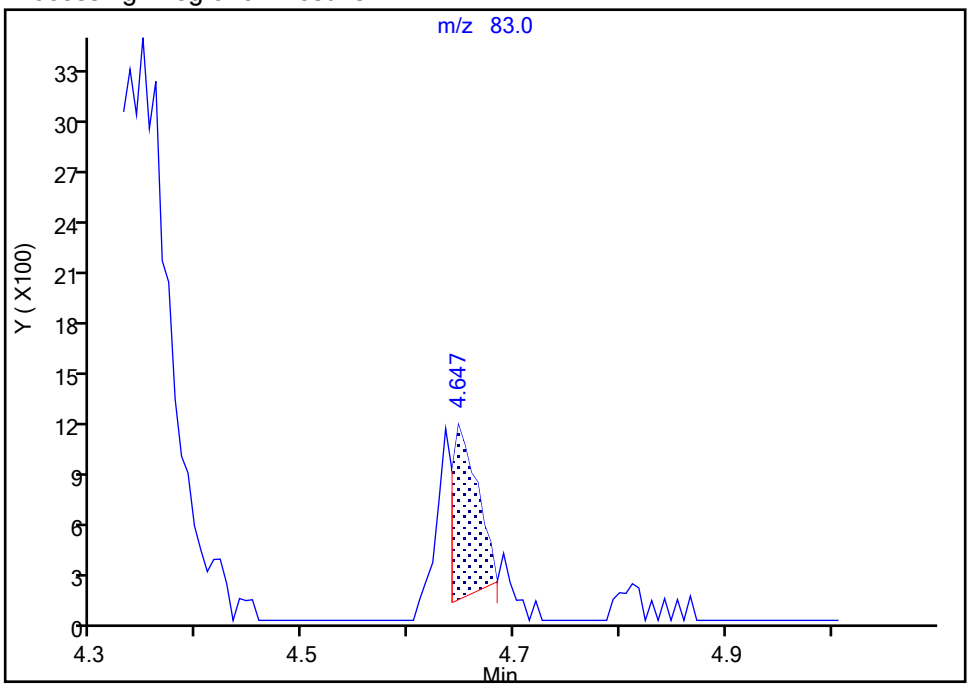
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D		
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:	sjn	ALS Bottle#:	10 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

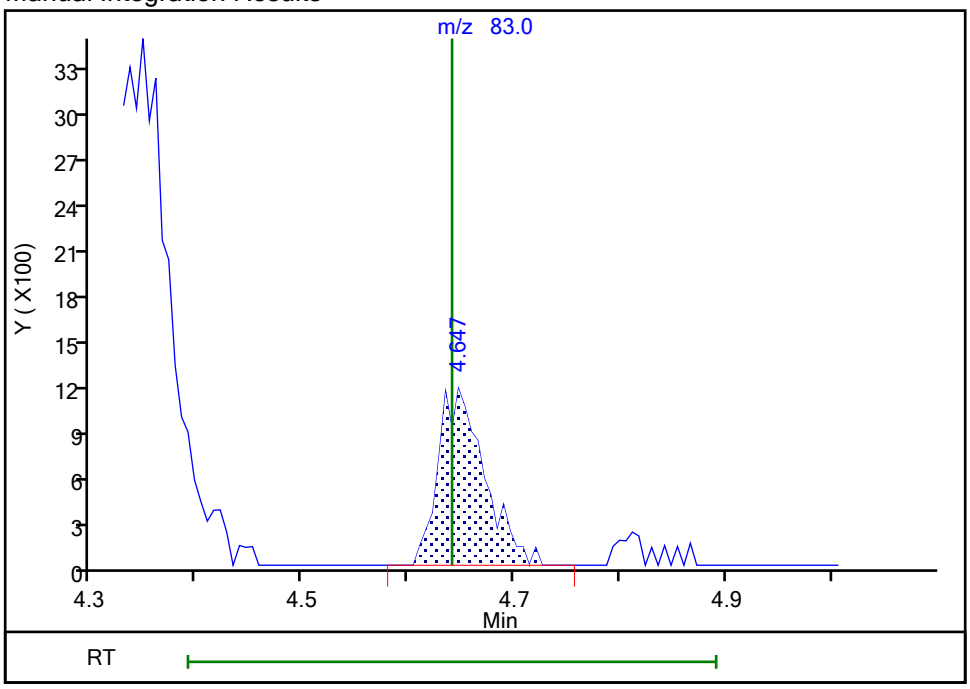
Processing Integration Results

RT: 4.65
Area: 1701
Amount: 0.403017
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 3466
Amount: 0.821197
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:38:20

Audit Action: Manually Integrated Audit Reason: Split Peak

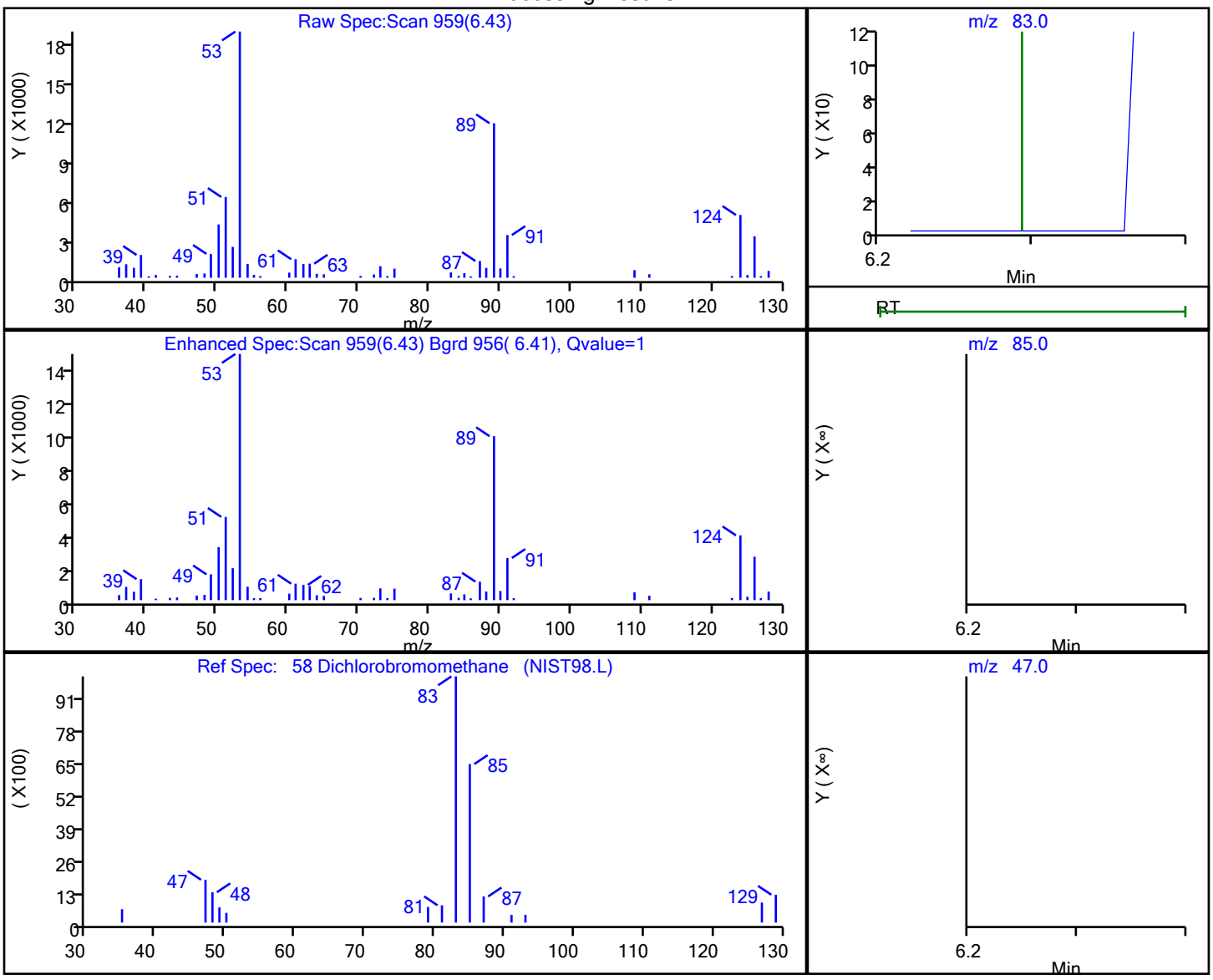
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

58 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
6.43	83.00	478	0.171053
6.44	85.00	730	
6.44	47.00	474	

Reviewer: nelsonsa, 19-Nov-2020 10:37:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

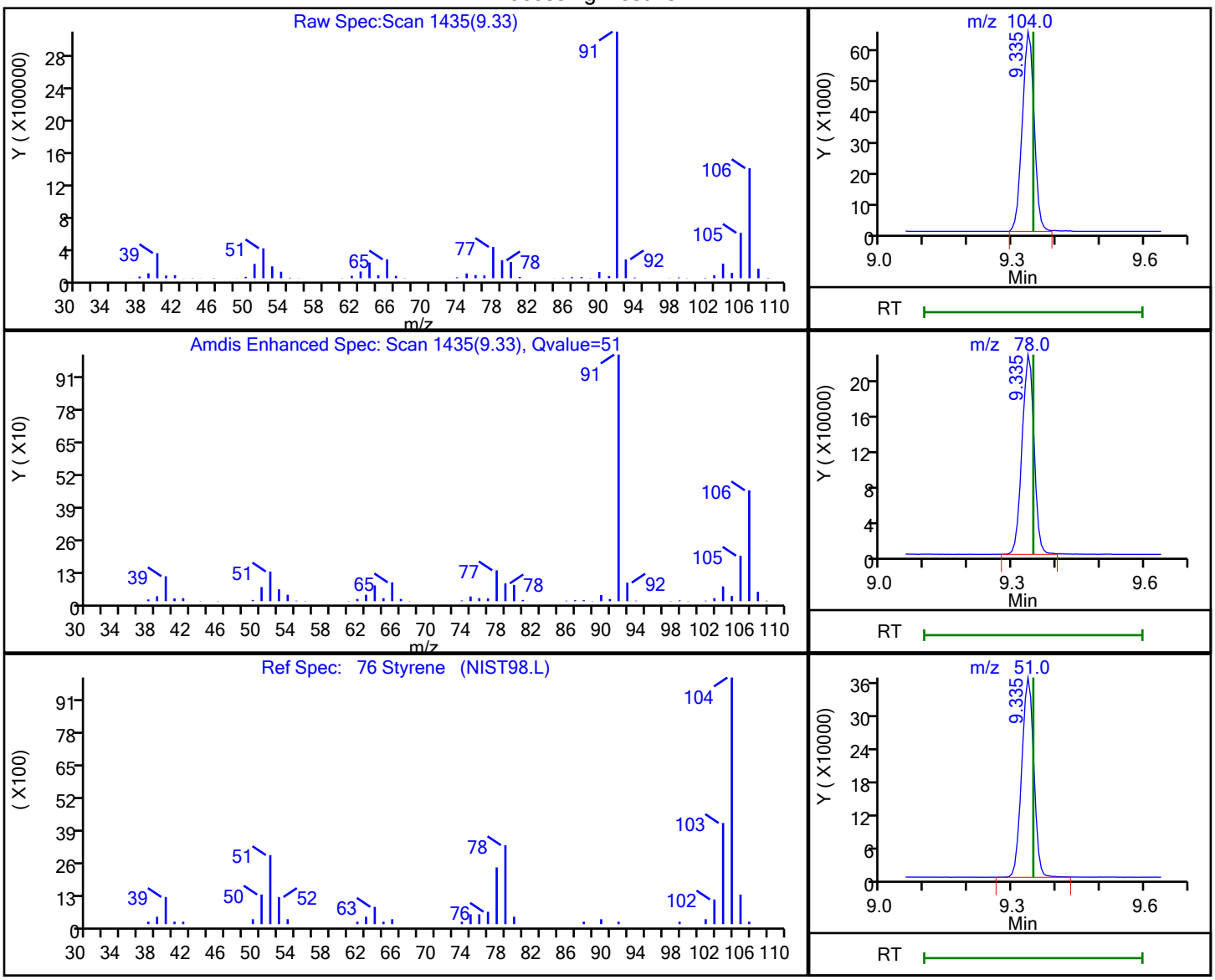
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

76 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
9.33	104.00	122554	16.985508
9.33	78.00	418688	
9.33	51.00	707481	

Reviewer: nelsonsa, 19-Nov-2020 10:37:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

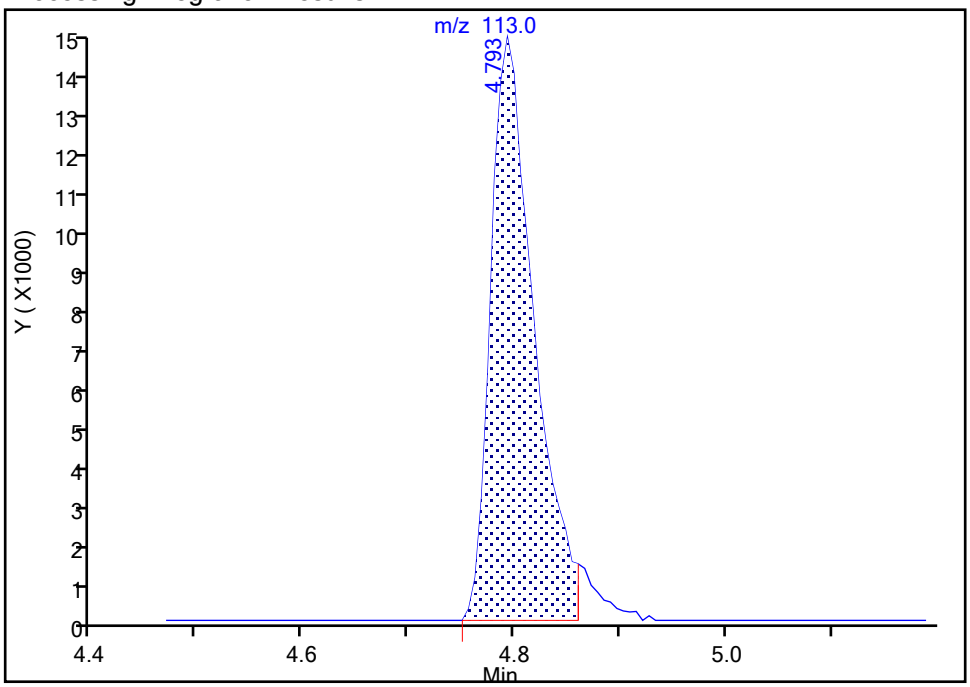
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

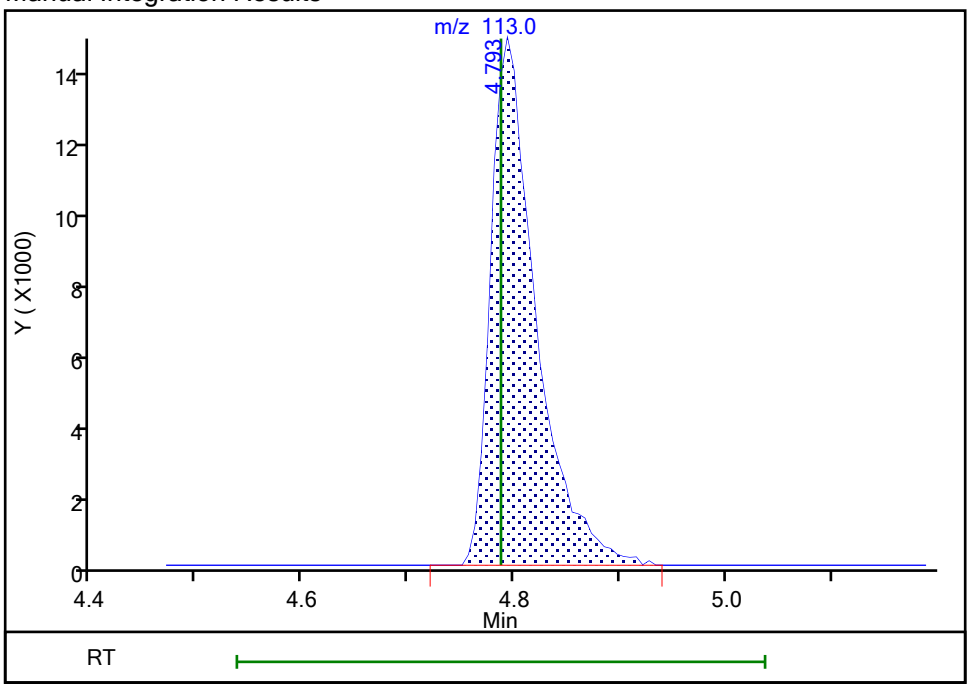
Processing Integration Results

RT: 4.79
Area: 41698
Amount: 50.737249
Amount Units: ug/l



Manual Integration Results

RT: 4.79
Area: 43508
Amount: 52.939619
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:39:40

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

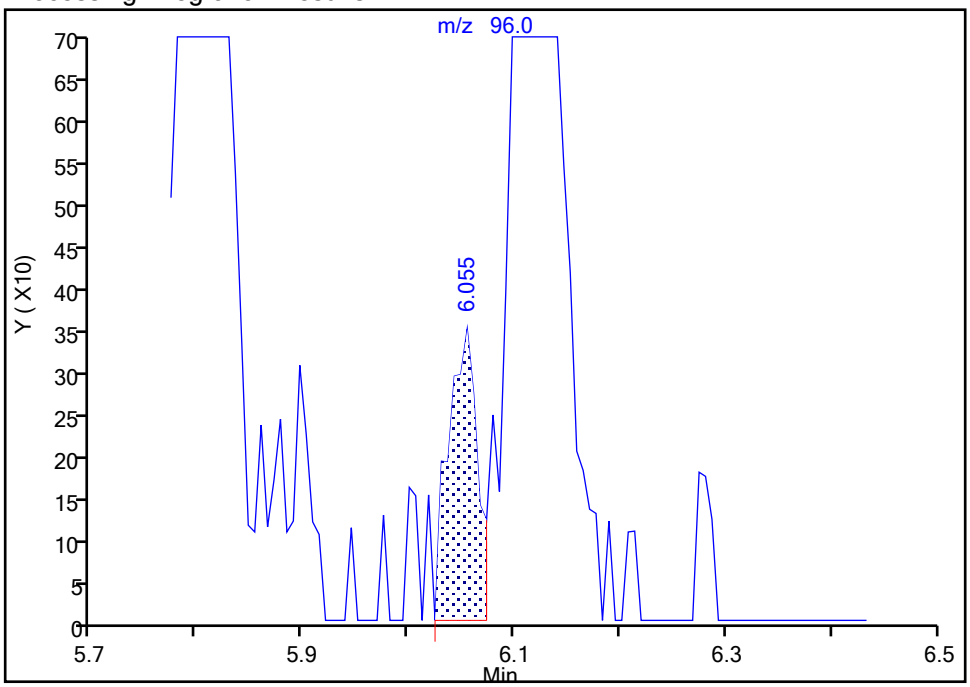
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8264.D				
Injection Date:	18-Nov-2020 20:23:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-22	Lab Sample ID:	310-140187-22		
Client ID:	GW-111220-BE-039				
Operator ID:	sjn	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

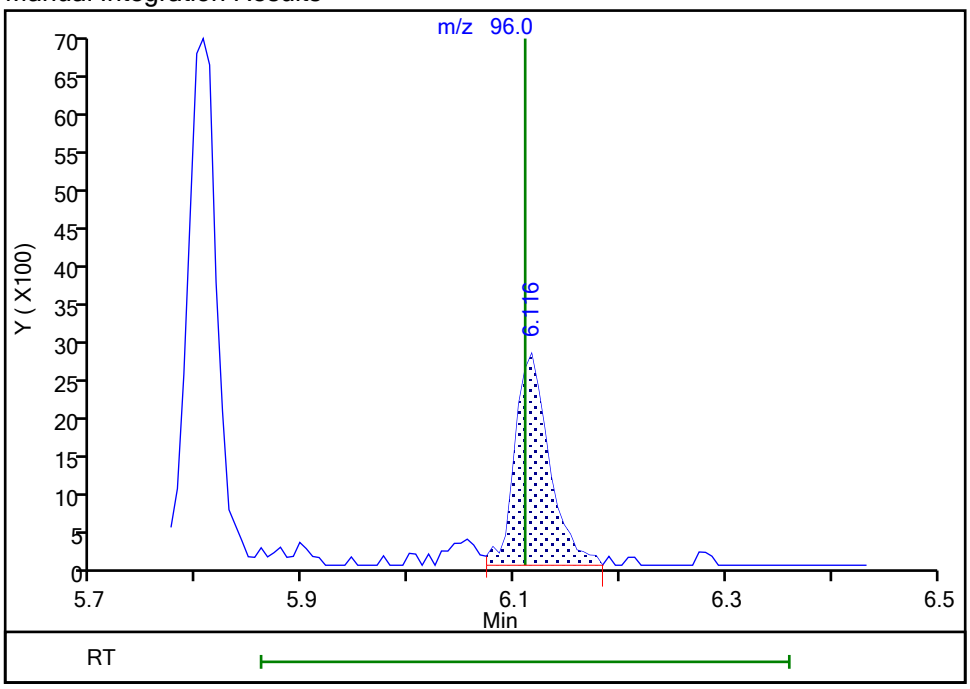
Processing Integration Results

RT: 6.06
Area: 669
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.12
Area: 6365
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:39:50

Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-039 Lab Sample ID: 240-140187-22

Matrix: Water Lab File ID: H4296.D

Analysis Method: 8260D Date Collected: 11/12/2020 10:38

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 09:33

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	460		50	11
75-00-3	Chloroethane	74	J	200	40
156-59-2	cis-1,2-Dichloroethene	16000		50	11
100-41-4	Ethylbenzene	570		50	16
108-88-3	Toluene	2400		50	22
79-01-6	Trichloroethene	38	J	50	22
75-01-4	Vinyl chloride	3500		50	9.0
1330-20-7	Xylenes, Total	2100		150	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	94		79-120
1868-53-7	Dibromofluoromethane (Surr)	110		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D
Lims ID: 240-140187-B-22
Client ID: GW-111220-BE-039
Sample Type: Client
Inject. Date: 19-Nov-2020 09:33:30 ALS Bottle#: 30 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-024
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:42:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	45177	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.868	4.868	0.000	0	16202	0	
* 122 Fluorobenzene	96	5.197	5.203	-0.006	97	55064	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	87	5105	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.343	0.000	92	47610	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	32688	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	92	12634	55.1	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	50090	46.8	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	19940	47.4	
$ 8 BFB	95	9.678	9.684	-0.006	79	26591	NR	
9 Dichlorodifluoromethane	85		1.124				ND	U
10 Chloromethane	50	1.265	1.265	0.000	41	1049	0.2100	
11 Vinyl chloride	62	1.350	1.350	0.000	98	194222	69.3	
12 Butadiene	54		1.387				ND	
13 Bromomethane	94		1.612				ND	
14 Chloroethane	64	1.710	1.698	0.012	93	1941	1.49	
15 Dichlorofluoromethane	67		1.893				ND	
16 Trichlorofluoromethane	101		1.929				ND	
17 Ethanol	45		2.161				ND	
18 Ethyl ether	59		2.222				ND	
19 Acrolein	56		2.332				ND	
20 1,1-Dichloroethene	96	2.423	2.411	0.012	1	796	1.04	M
21 112TCTFE	101		2.423				ND	
22 Acetone	43		2.490				ND	
23 Iodomethane	142		2.533				ND	
24 Carbon disulfide	76		2.582				ND	
105 Isopropyl alcohol	45		2.673				ND	
118 Acetonitrile	40		2.740				ND	
25 3-Chloro-1-propene	76		2.758				ND	
26 Methyl acetate	43		2.807				ND	
27 Methylene Chloride	84		2.874				ND	
35 2-Methyl-2-propanol	59		3.057				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124				ND	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	92	6923	4.92	M
29 Methyl tert-butyl ether	73		3.155				ND	
31 Hexane	57		3.392				ND	
32 1,1-Dichloroethane	63	3.526	3.526	0.000	95	29500	9.28	M
33 Vinyl acetate	86		3.618				ND	
34 2-Chloro-1,3-butadiene	53		3.618				ND	
36 Isopropyl ether	87		3.636				ND	
37 Tert-butyl ethyl ether	59		3.978				ND	
38 2,2-Dichloropropane	77		4.069				ND	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	87	539655	314.5	
40 2-Butanone (MEK)	43	4.130	4.136	-0.006	29	97	0.0714	
41 Propionitrile	54		4.185				ND	
104 Ethyl acetate	43		4.203				ND	
42 Chlorobromomethane	128		4.307				ND	
43 Methacrylonitrile	67		4.325				ND	
44 Tetrahydrofuran	71		4.380				ND	
45 Chloroform	83		4.398				ND	
46 1,1,1-Trichloroethane	97	4.551	4.551	0.000	50	2704	1.24	
47 Cyclohexane	56		4.599				ND	
48 Carbon tetrachloride	117		4.709				ND	
49 1,1-Dichloropropene	75		4.721				ND	
50 Benzene	78		4.916				ND	
108 Isobutyl alcohol	43		4.923				ND	
51 1,2-Dichloroethane	62		4.941				ND	
116 n-Butanol	56		5.008				ND	
52 Tert-amyl methyl ether	73		5.057				ND	
53 n-Heptane	43		5.203				ND	
54 Trichloroethene	132	5.544	5.550	-0.006	91	1298	0.7613	M
117 Ethyl acrylate	55		5.709				ND	
114 Methylcyclohexane	83		5.733				ND	
55 1,2-Dichloropropane	63		5.776				ND	
56 Dibromomethane	93		5.886				ND	
57 Methyl methacrylate	69		5.935				ND	
115 1,4-Dioxane	58		5.935				ND	
58 Dichlorobromomethane	83		6.063				ND	
106 2-Nitropropane	43		6.306				ND	
59 2-Chloroethyl vinyl ether	63		6.398				ND	
60 cis-1,3-Dichloropropene	75		6.520				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709				ND	
62 Toluene	92	6.861	6.861	0.000	96	174853	48.2	
63 trans-1,3-Dichloropropene	75		7.111				ND	
64 Ethyl methacrylate	69		7.239				ND	
65 1,1,2-Trichloroethane	83		7.300				ND	
66 Tetrachloroethene	166		7.434				ND	
67 1,3-Dichloropropane	76		7.477				ND	
68 2-Hexanone	43		7.599				ND	
69 Chlorodibromomethane	129		7.709				ND	
109 n-Butyl acetate	43	7.751	7.751	0.000	11	433	2.15	a
70 Ethylene Dibromide	107		7.818				ND	
71 Chlorobenzene	112		8.373				ND	
72 1,1,1,2-Tetrachloroethane	131		8.471				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.507	8.507	0.000	98	70006	11.3	
74 m-Xylene & p-Xylene	106	8.641	8.647	-0.006	97	67769	27.7	
75 o-Xylene	106	9.080	9.086	-0.006	98	30971	13.4	
120 Methyl n-amyl ketone TIC	1		9.100				ND	
76 Styrene	104		9.105				ND	U
77 Bromoform	173		9.294				ND	
78 Isopropylbenzene	105	9.519	9.519	0.000	93	2474	0.4530	
79 Bromobenzene	156		9.842				ND	
80 1,1,2,2-Tetrachloroethane	83		9.873				ND	
81 1,2,3-Trichloropropane	75		9.909				ND	
82 trans-1,4-Dichloro-2-butene	53		9.940				ND	
83 N-Propylbenzene	91	9.995	10.001	-0.006	97	3939	0.6495	
84 2-Chlorotoluene	91		10.080				ND	
85 4-Chlorotoluene	91		10.208				ND	
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	95	6340	1.24	
87 tert-Butylbenzene	119		10.586				ND	
88 1,2,4-Trimethylbenzene	105	10.647	10.647	0.000	97	21976	4.66	
89 sec-Butylbenzene	105		10.854				ND	
90 1,3-Dichlorobenzene	146		10.952				ND	
91 4-Isopropyltoluene	119		11.037				ND	Ua
92 1,4-Dichlorobenzene	146		11.062				ND	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	99	12261	1.65	
113 Benzyl chloride	126		11.232				ND	
93 1,2-Dichlorobenzene	146		11.501				ND	
94 n-Butylbenzene	91	11.519	11.519	0.000	57	1604	0.3368	M
95 1,2-Dibromo-3-Chloropropane	75		12.439				ND	
112 1,3,5-Trichlorobenzene	180		12.695				ND	
96 1,2,4-Trichlorobenzene	180		13.445				ND	
97 Hexachlorobutadiene	225		13.671				ND	
98 Naphthalene	128	13.732	13.726	0.006	96	5108	0.8075	
99 1,2,3-Trichlorobenzene	180		14.024				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
139 C6-C12	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
137 C6-C10	1		0.000				ND	
136 n-Decane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
S 101 1,2-Dichloroethene, Total	1				0		319.4	
S 100 Xylenes, Total	1				0		41.2	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 128 1,1-Dichloroacetone TIC	43		6.477				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

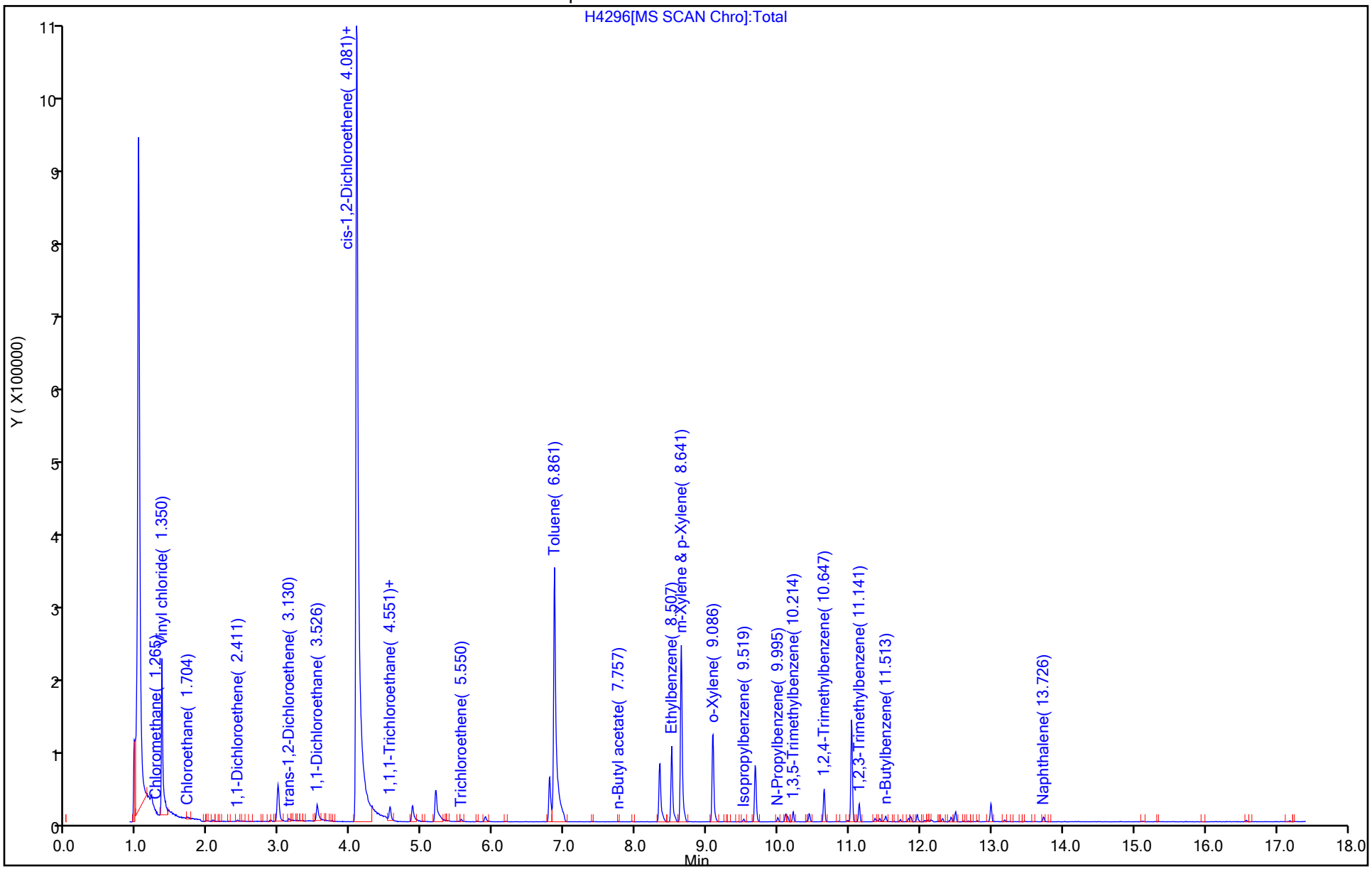
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:58:01 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D				
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22	Worklist Smp#:	24
Client ID:	GW-111220-BE-039				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	30
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D
Lims ID: 240-140187-B-22
Client ID: GW-111220-BE-039
Sample Type: Client
Inject. Date: 19-Nov-2020 09:33:30 ALS Bottle#: 30 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-024
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:42:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	55.1	5506.16
$ 6 Toluene-d8 (Surr)	50.0	46.8	4681.45
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.4	4740.22

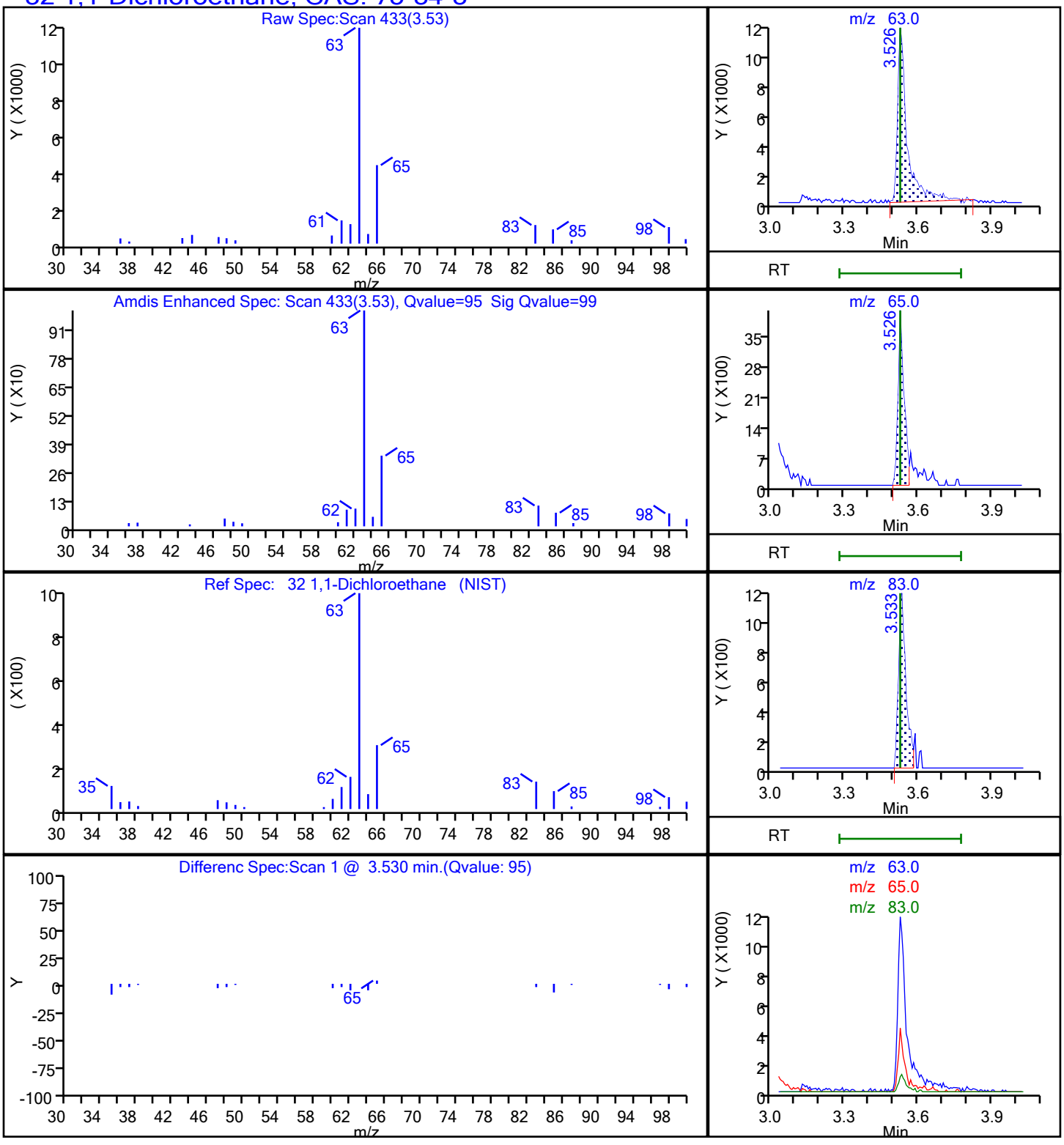
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3



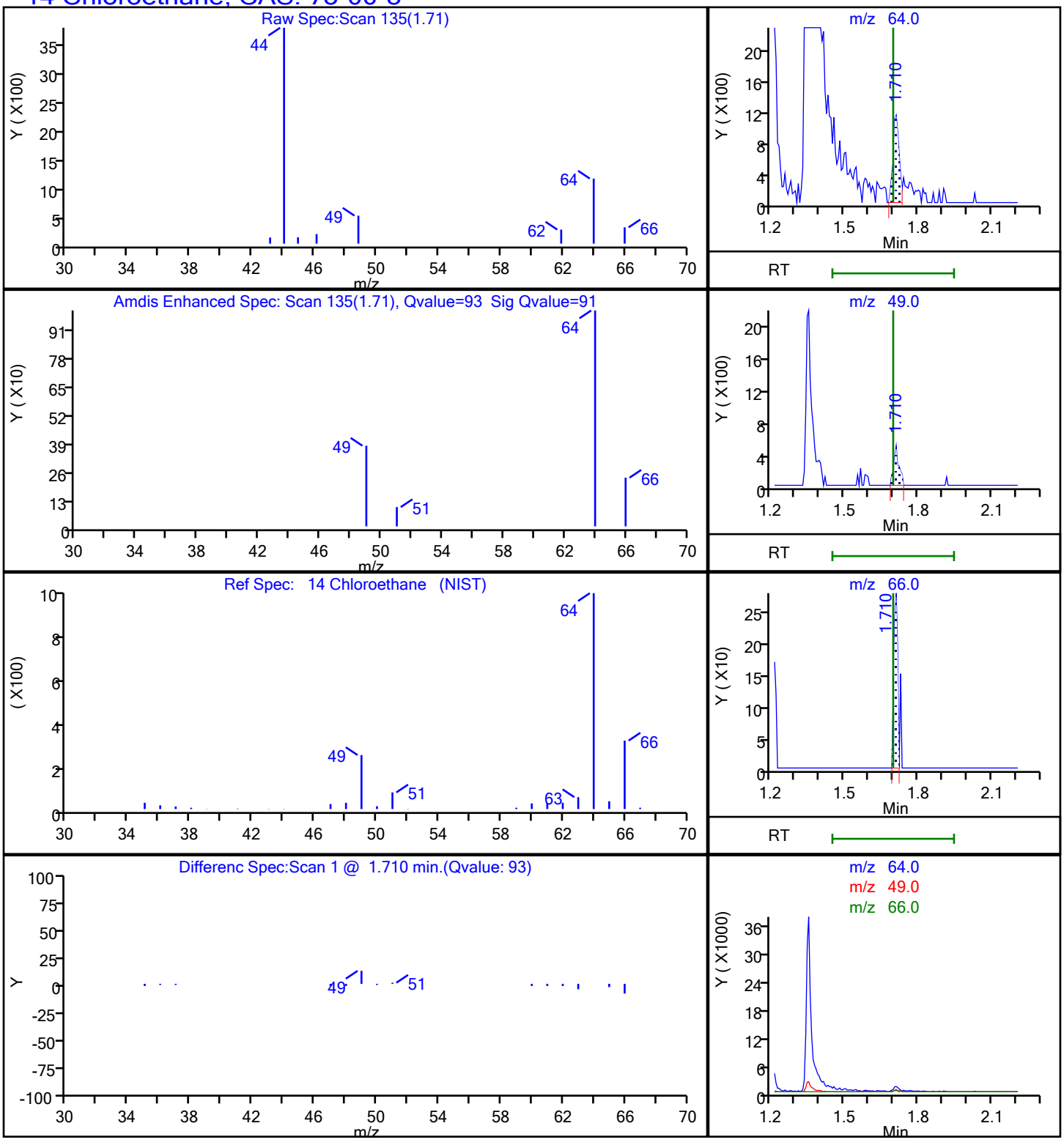
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

14 Chloroethane, CAS: 75-00-3

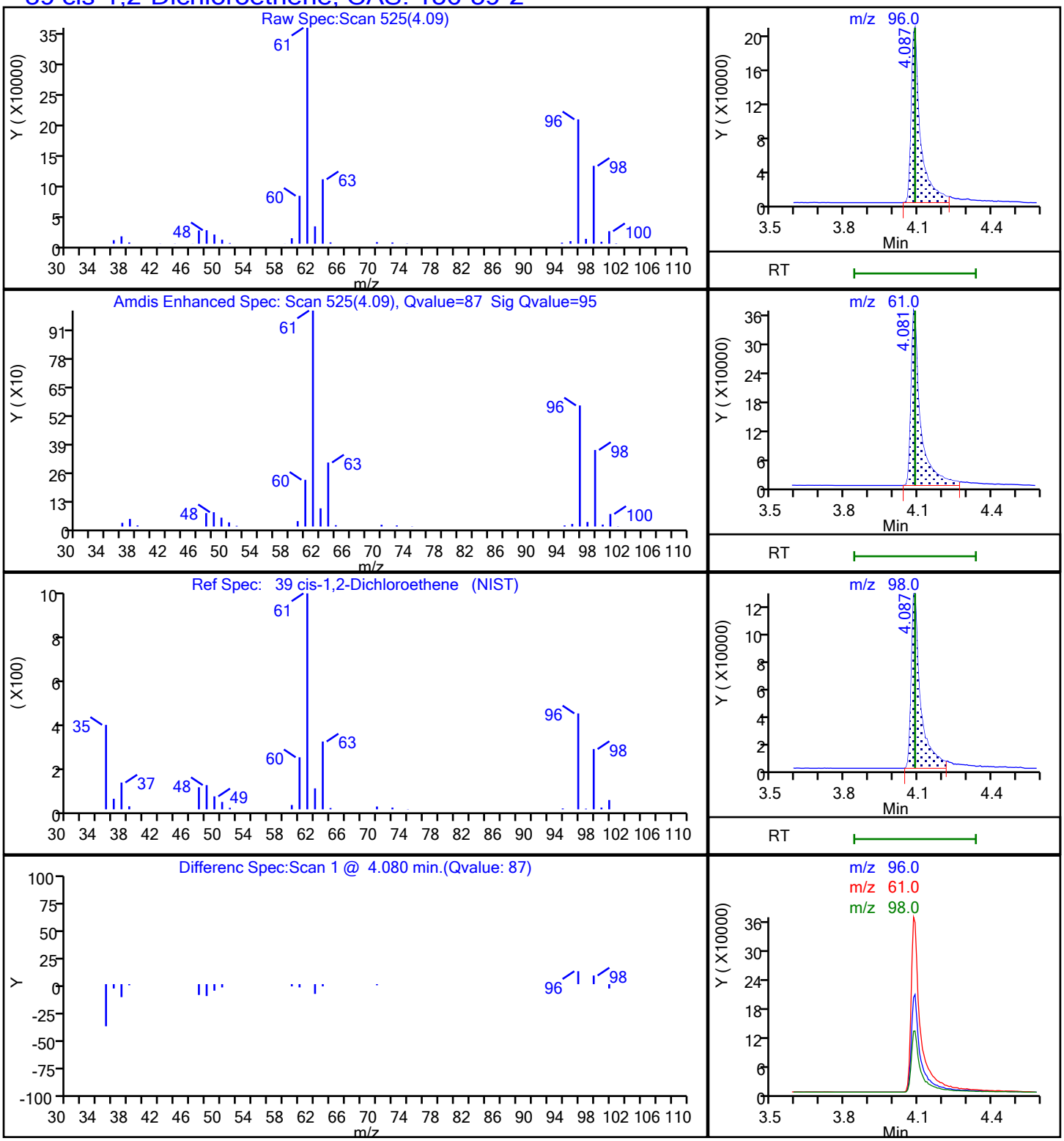


Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



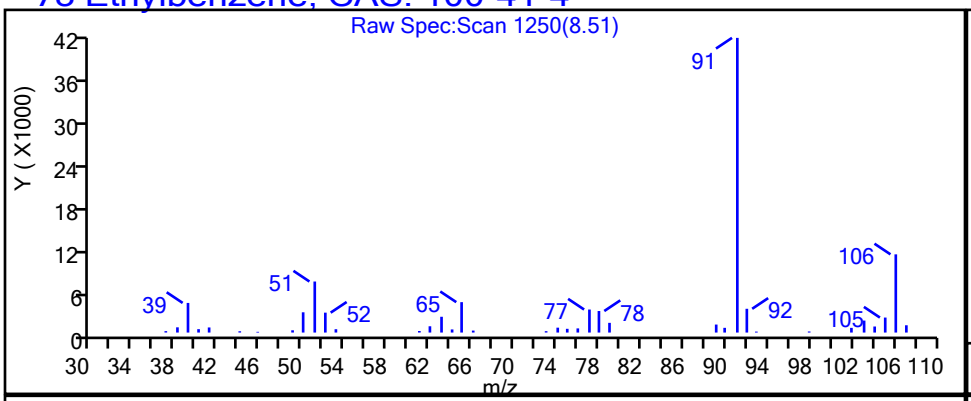
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

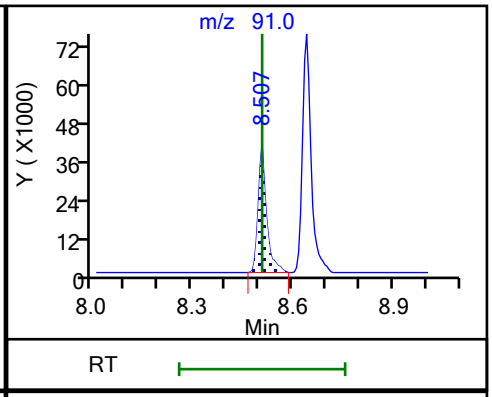
Eurofins TestAmerica, Cedar Falls

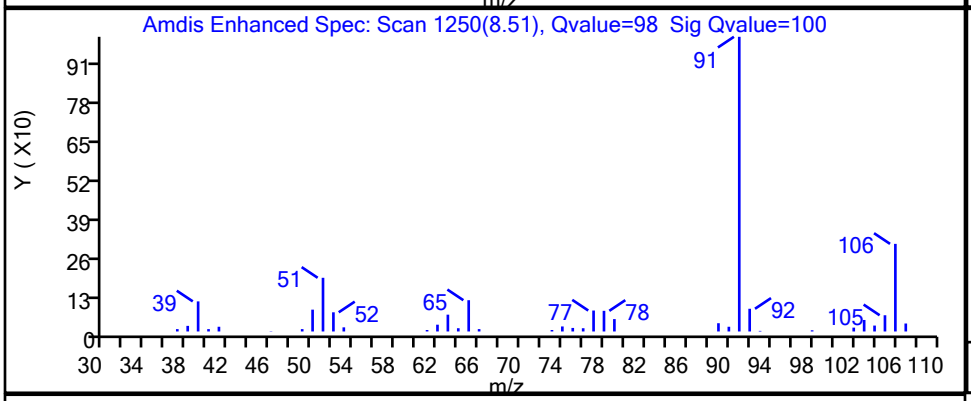
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

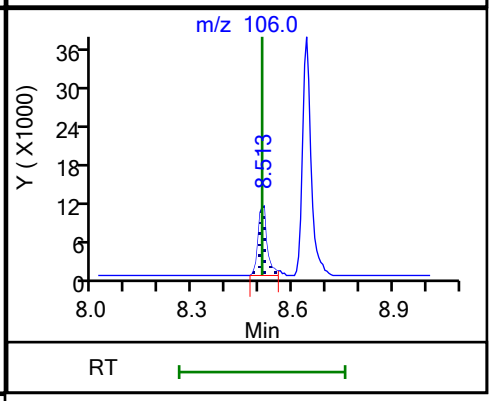
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

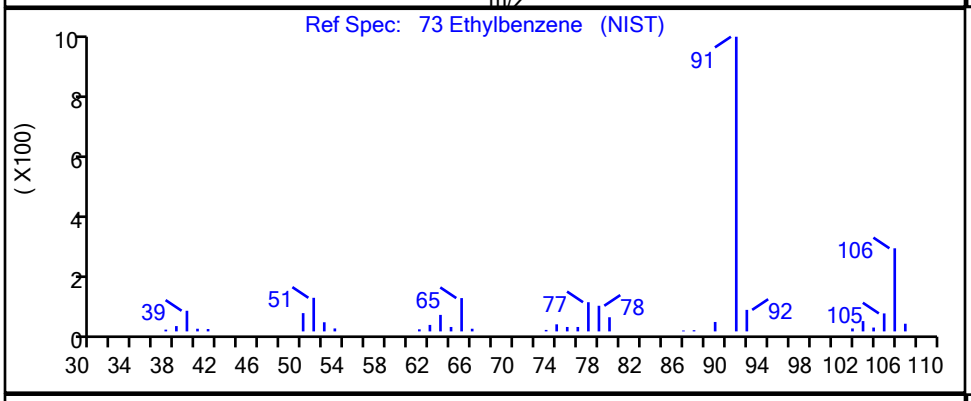
73 Ethylbenzene, CAS: 100-41-4

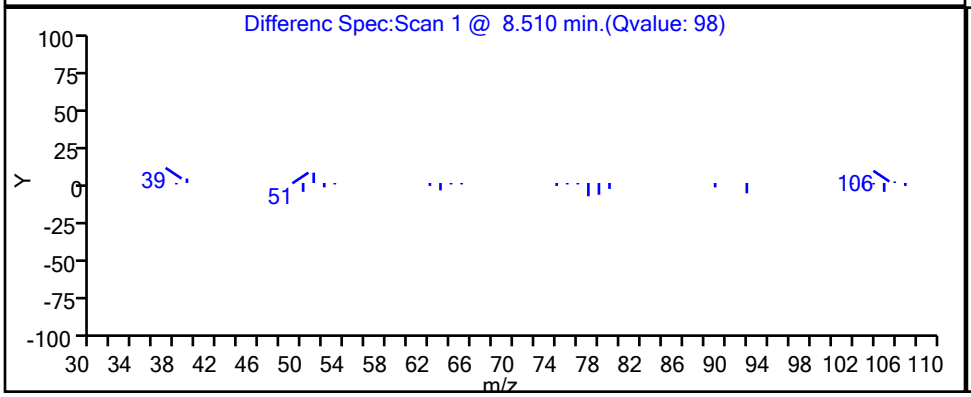


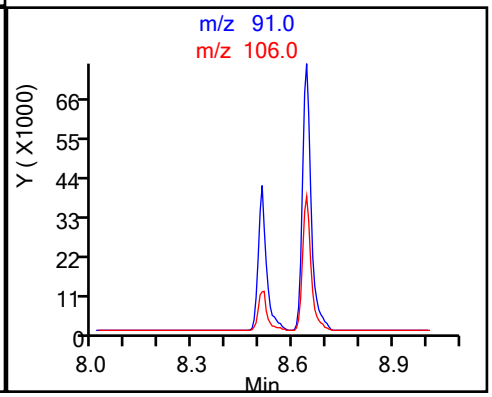












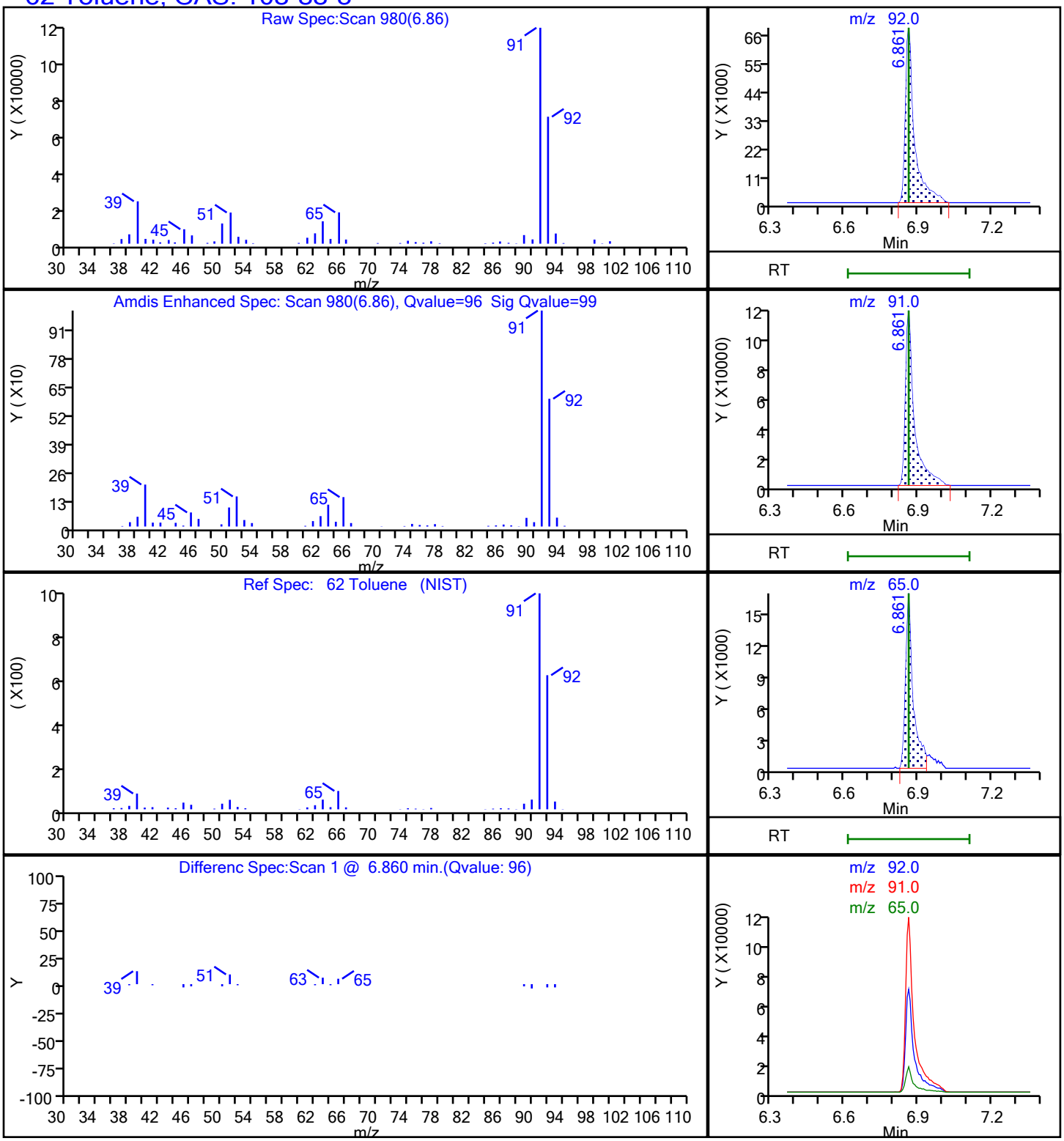
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

62 Toluene, CAS: 108-88-3



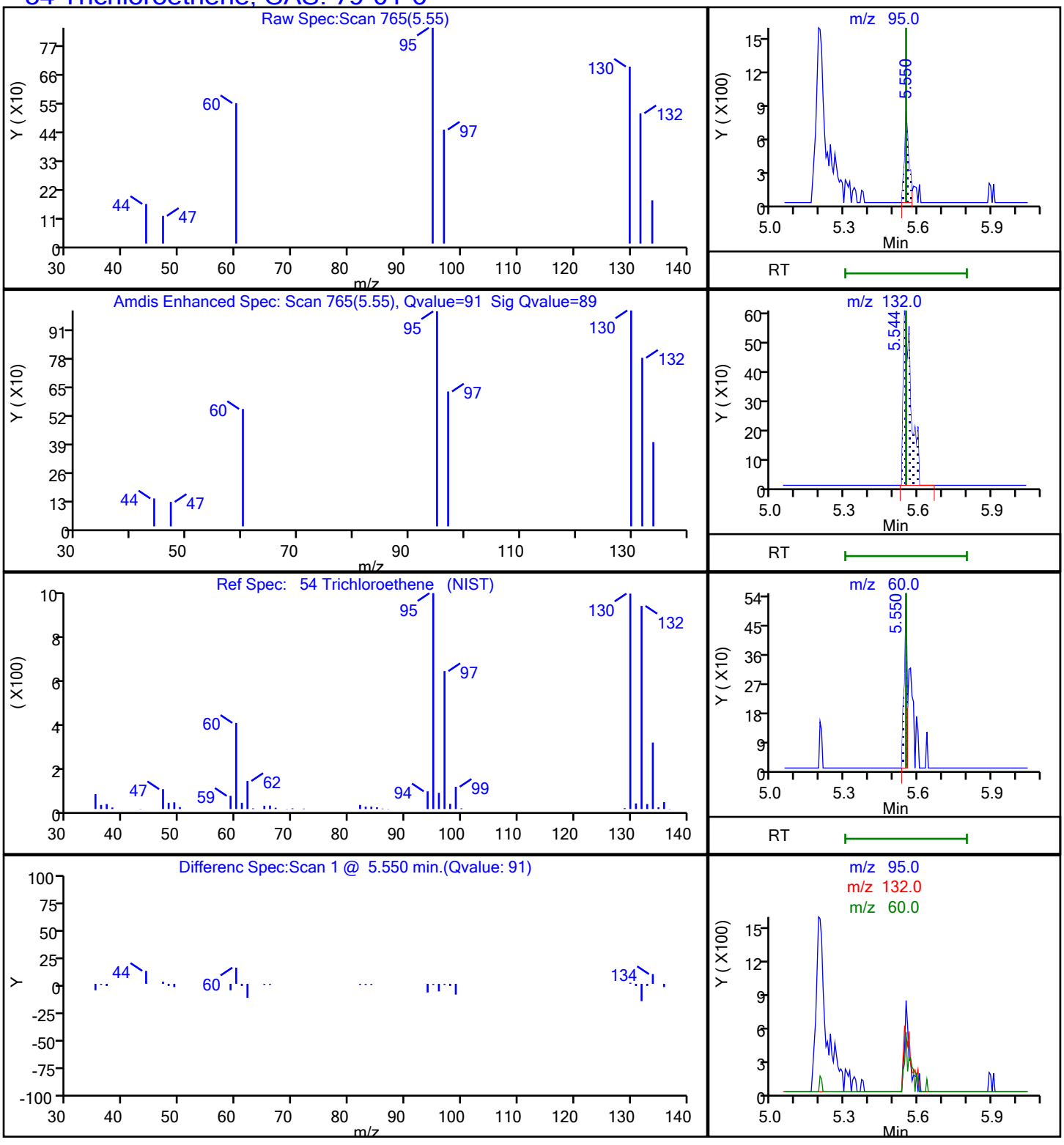
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6



Report Date: 20-Nov-2020 06:58:01 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date: 19-Nov-2020 09:33:30 Instrument ID: Hobbes

Lims ID: 240-140187-B-22 Lab Sample ID: 310-140187-22

Client ID: GW-111220-BE-039

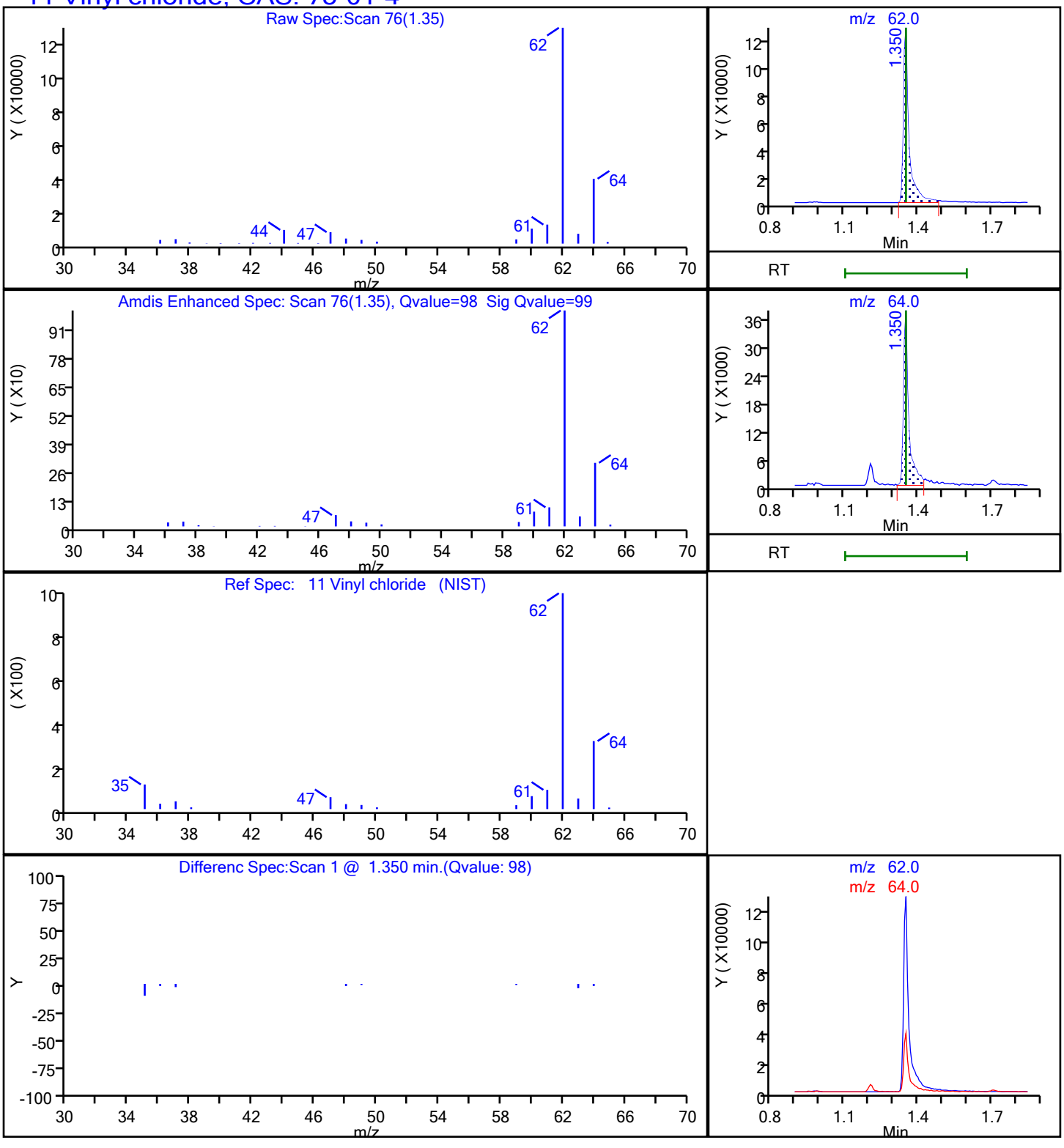
Operator ID: ALS Bottle#: 30 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 50.0000

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



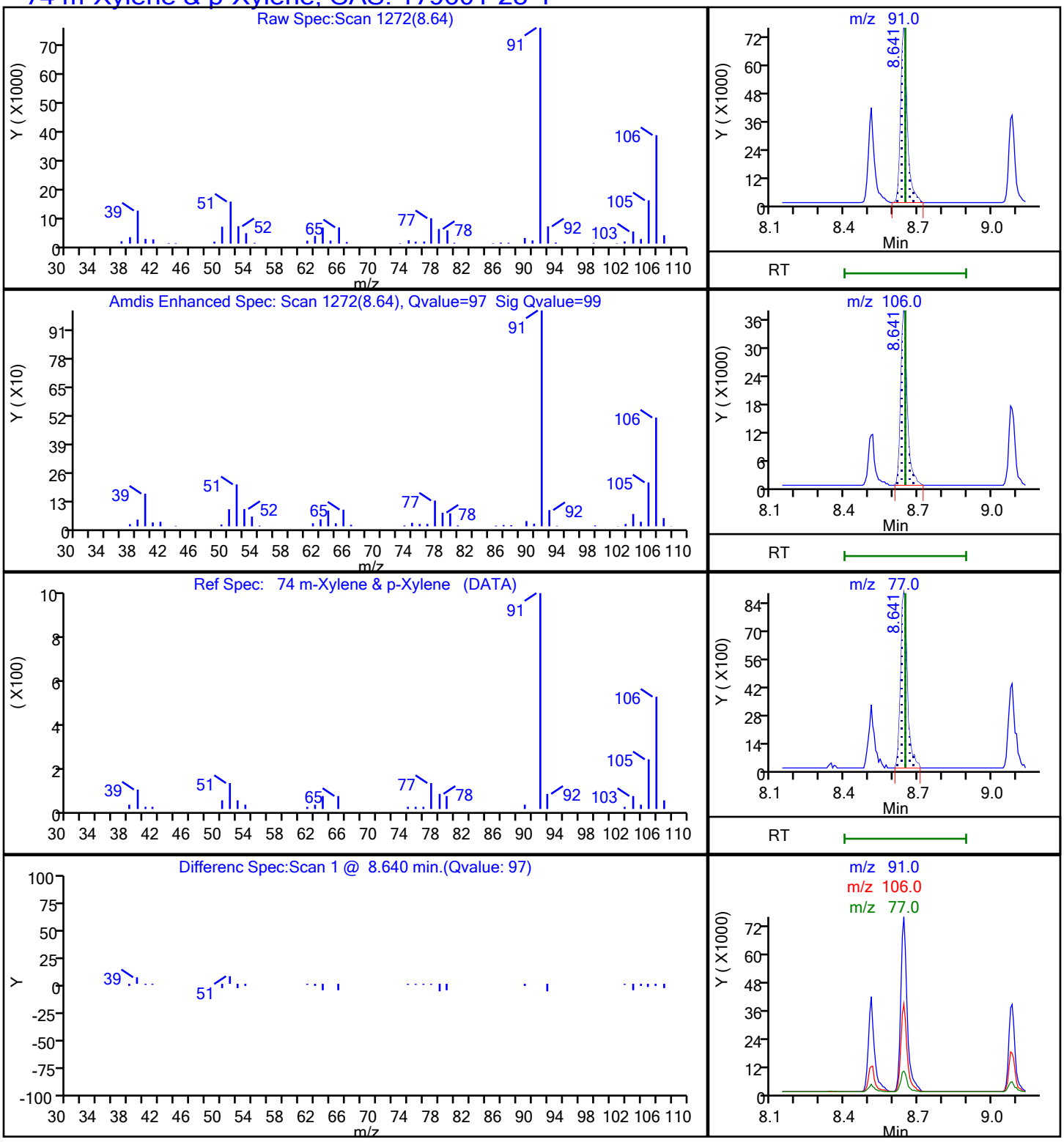
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1



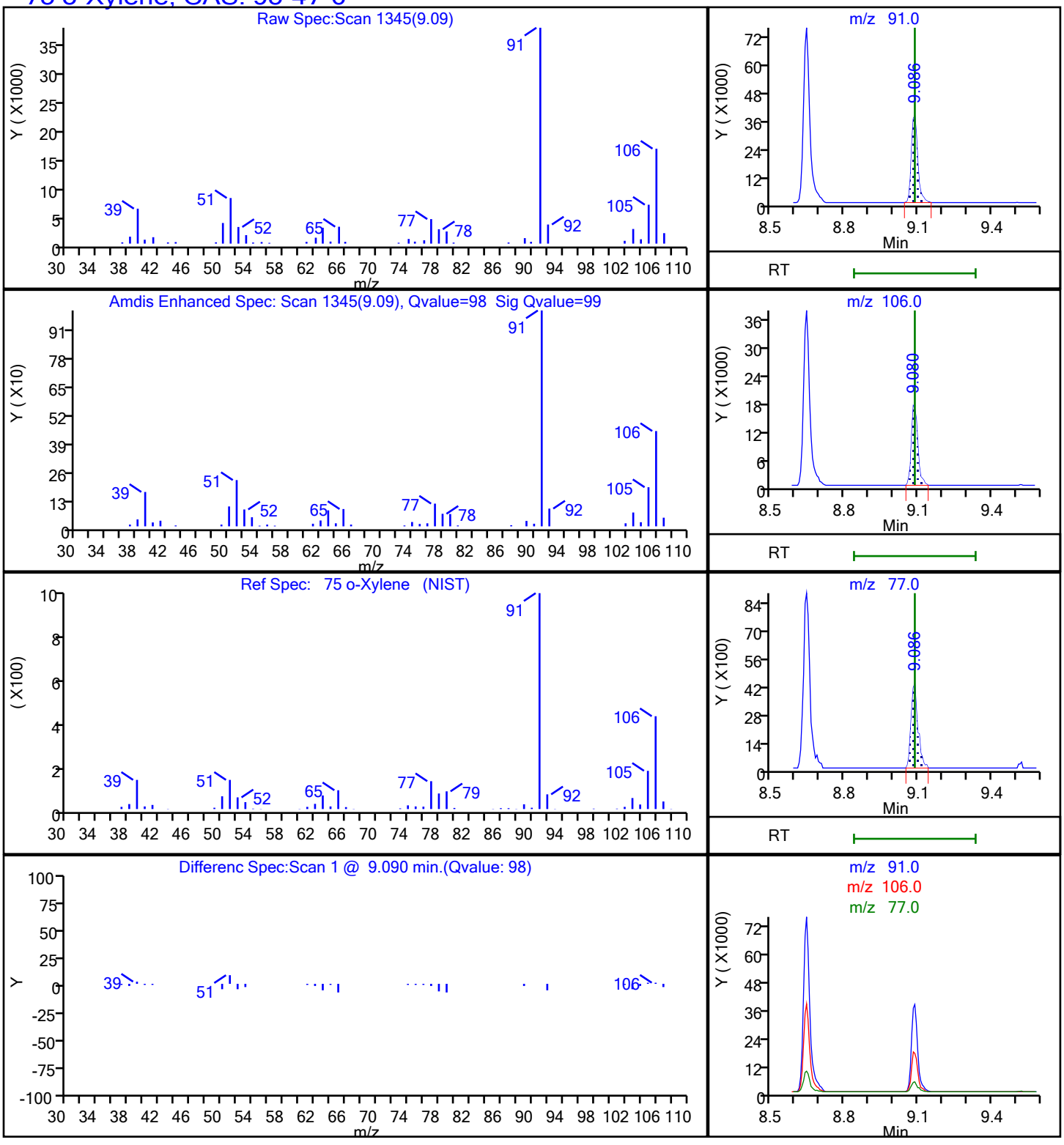
Report Date: 20-Nov-2020 06:58:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D

Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

75 o-Xylene, CAS: 95-47-6



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

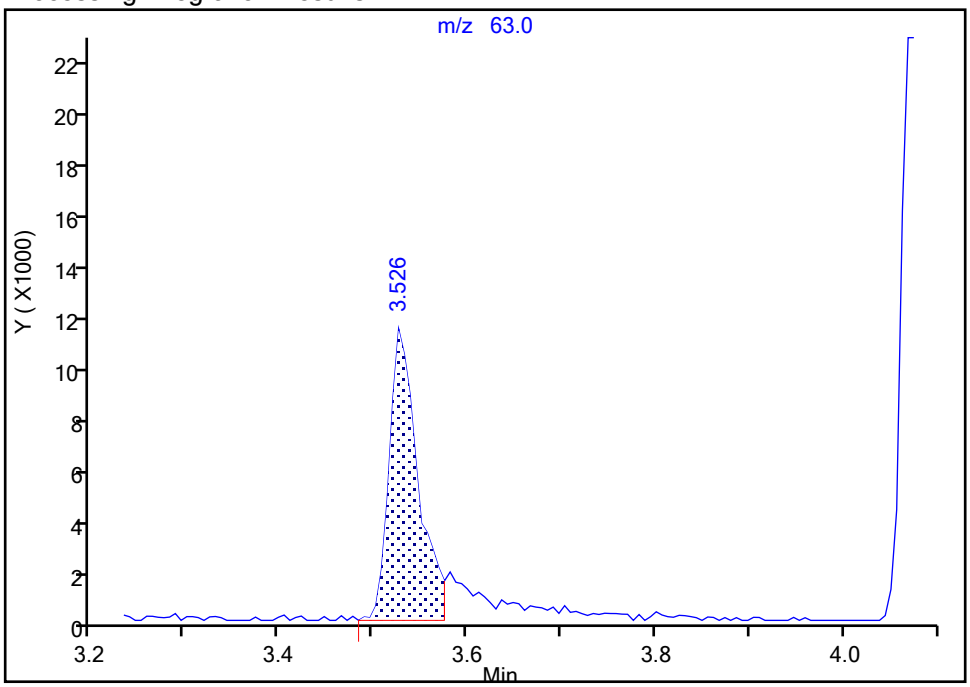
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

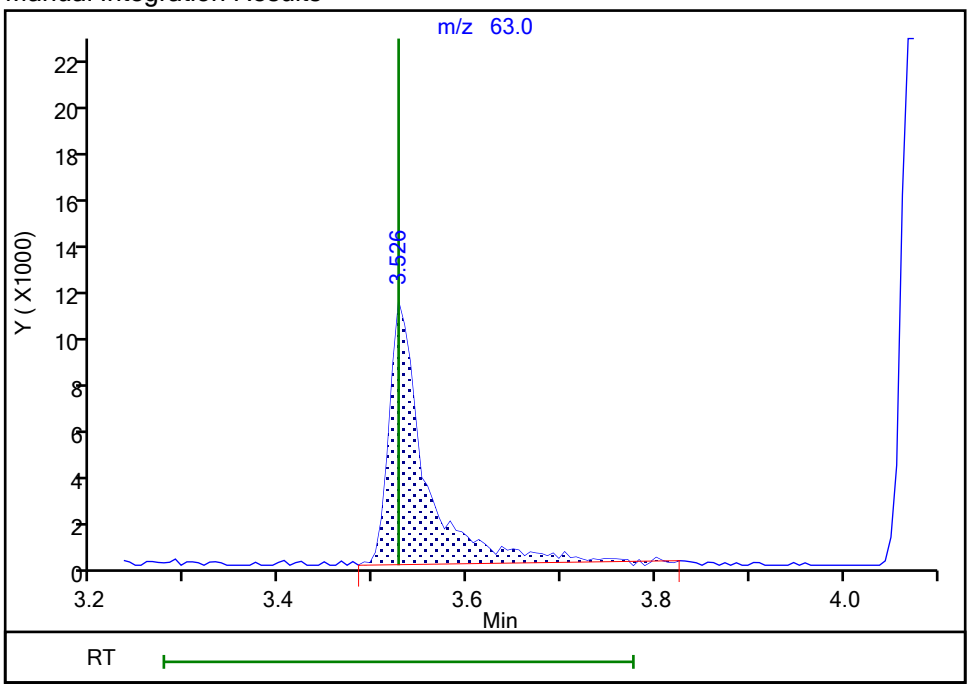
Processing Integration Results

RT: 3.53
Area: 23972
Amount: 9.788930
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 29500
Amount: 9.279512
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:41:33

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

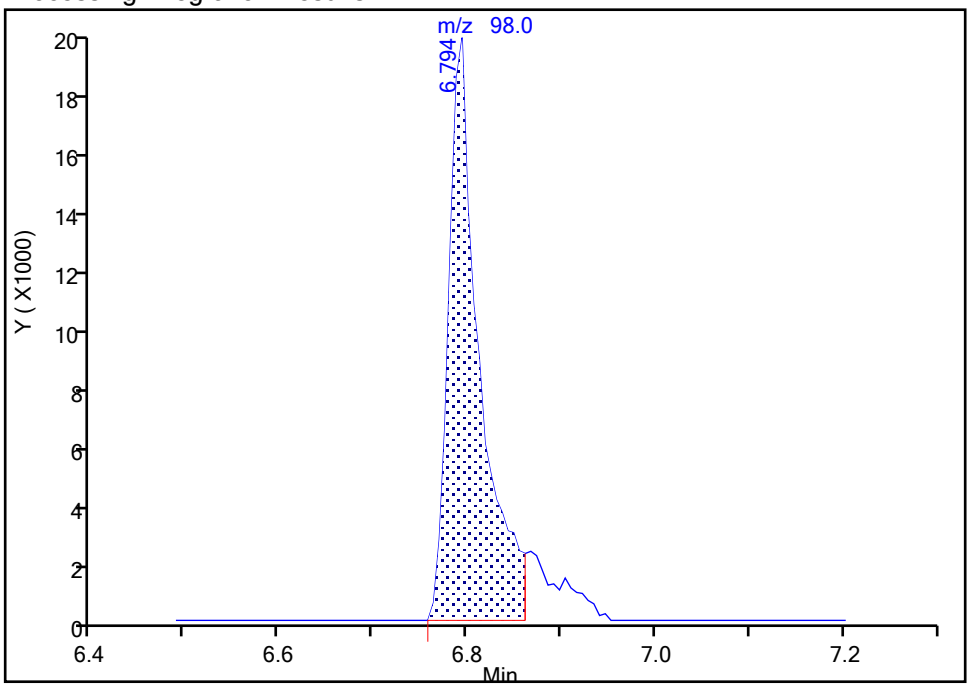
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

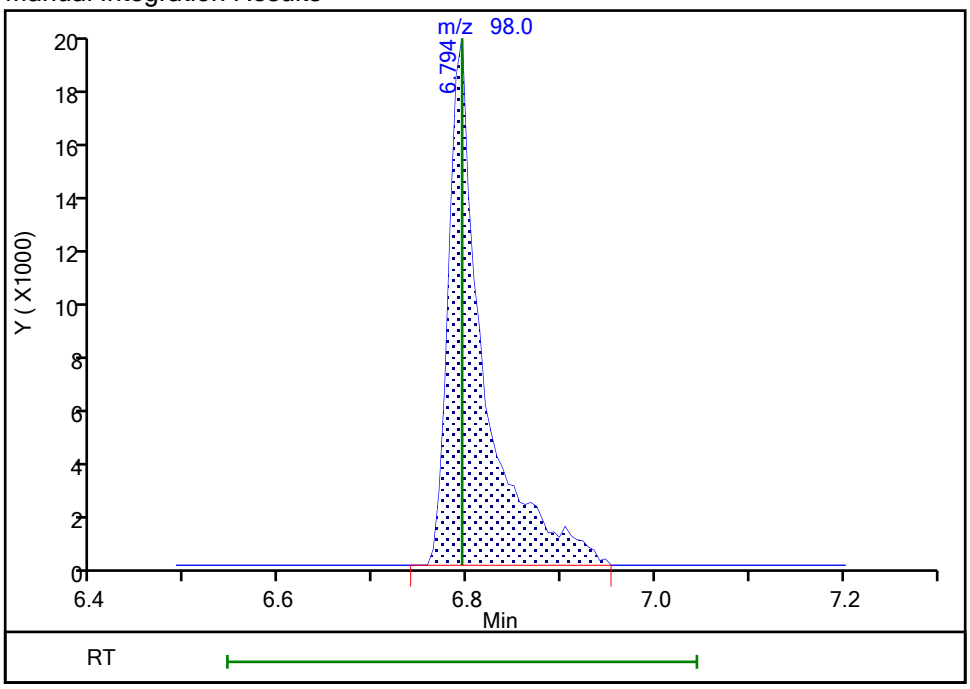
Processing Integration Results

RT: 6.79
Area: 44458
Amount: 41.550780
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 50090
Amount: 46.814490
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:17

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

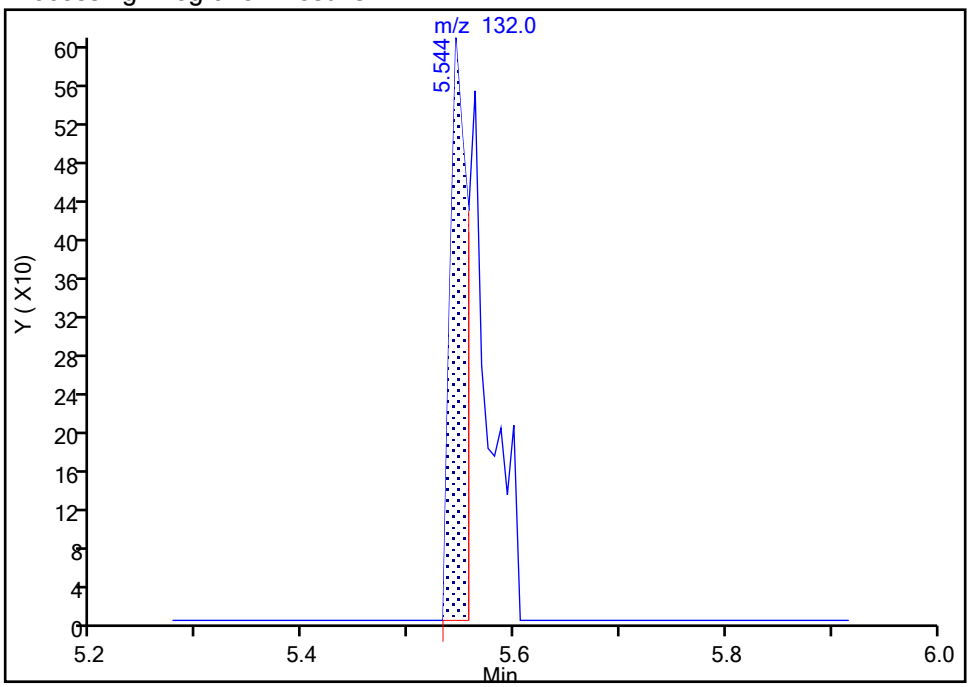
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

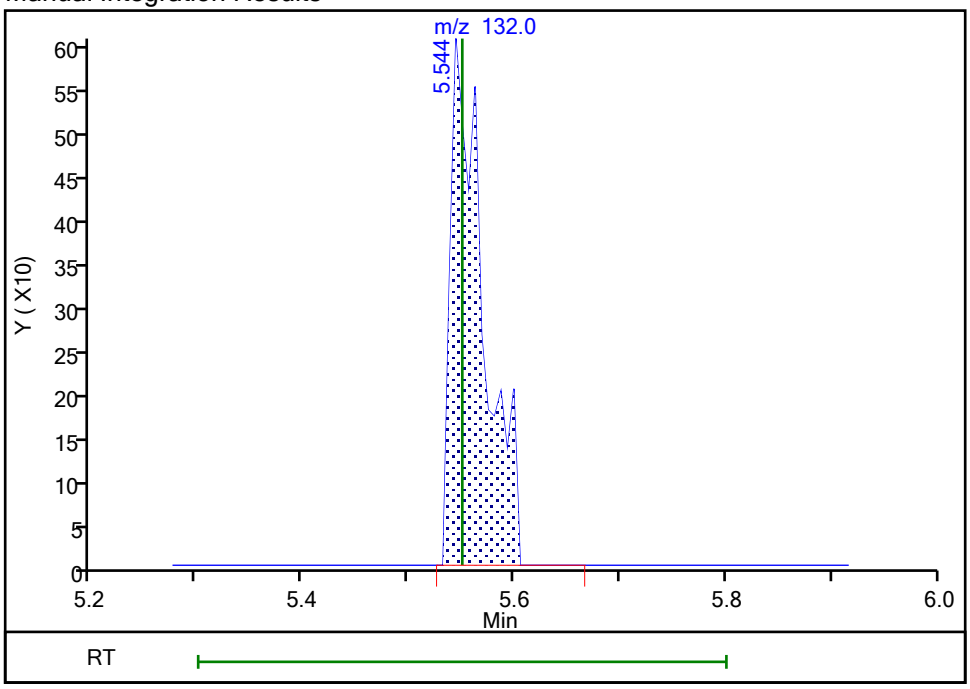
Processing Integration Results

RT: 5.54
Area: 680
Amount: 0.517770
Amount Units: ug/l



Manual Integration Results

RT: 5.54
Area: 1298
Amount: 0.761333
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:41:17

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

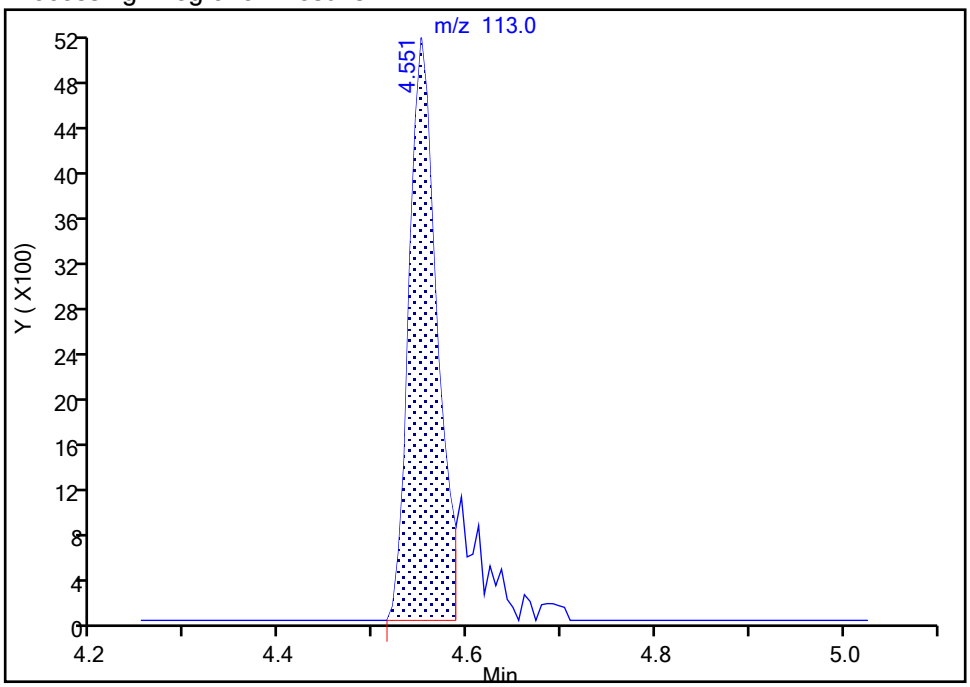
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

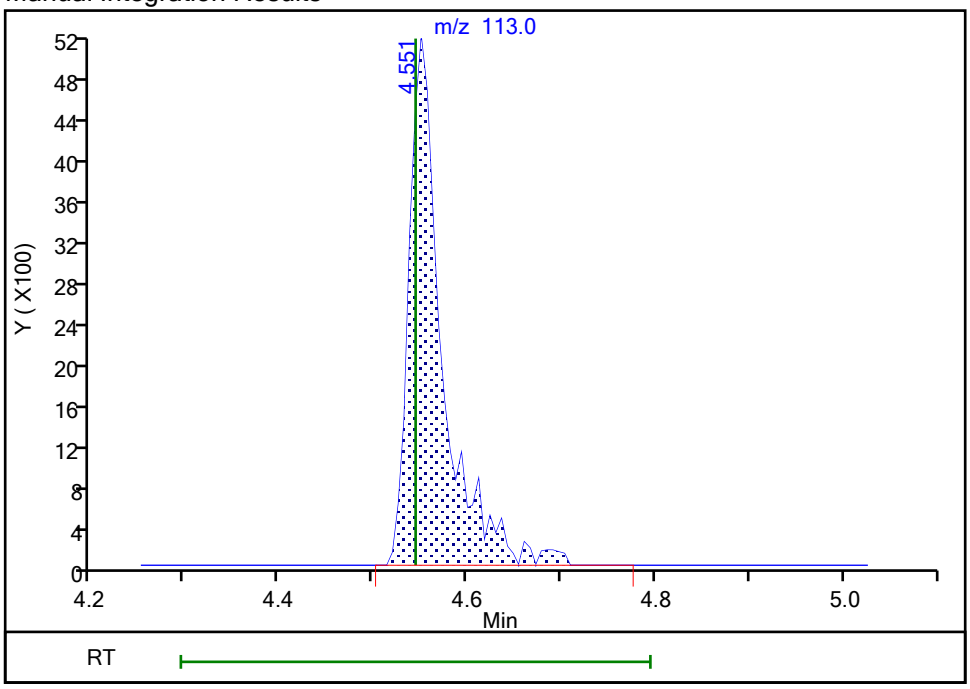
Processing Integration Results

RT: 4.55
Area: 10487
Amount: 59.331771
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 12634
Amount: 55.061635
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:22

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

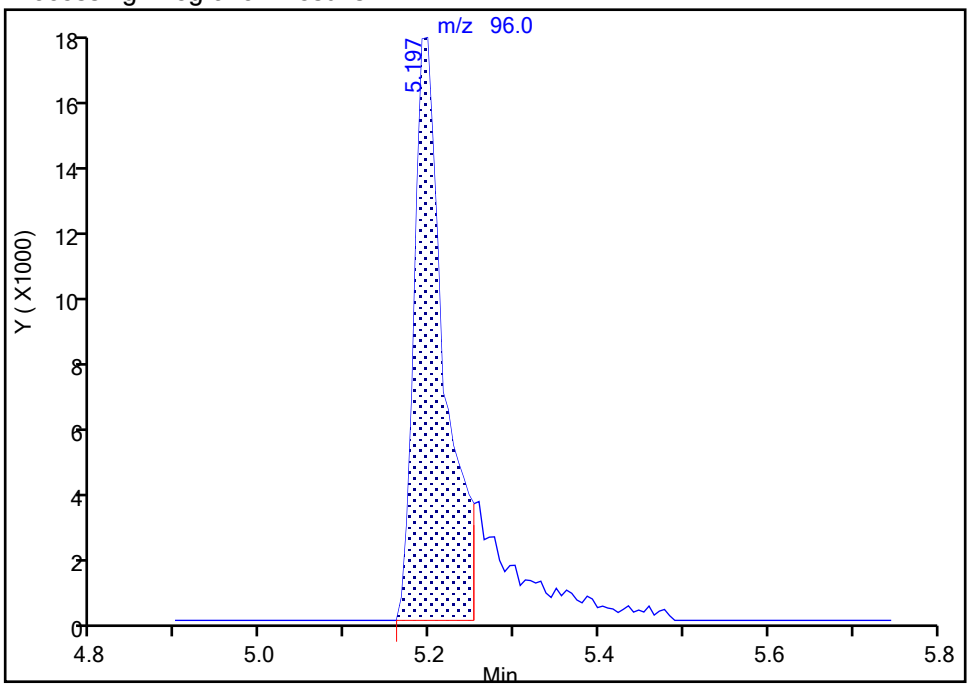
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

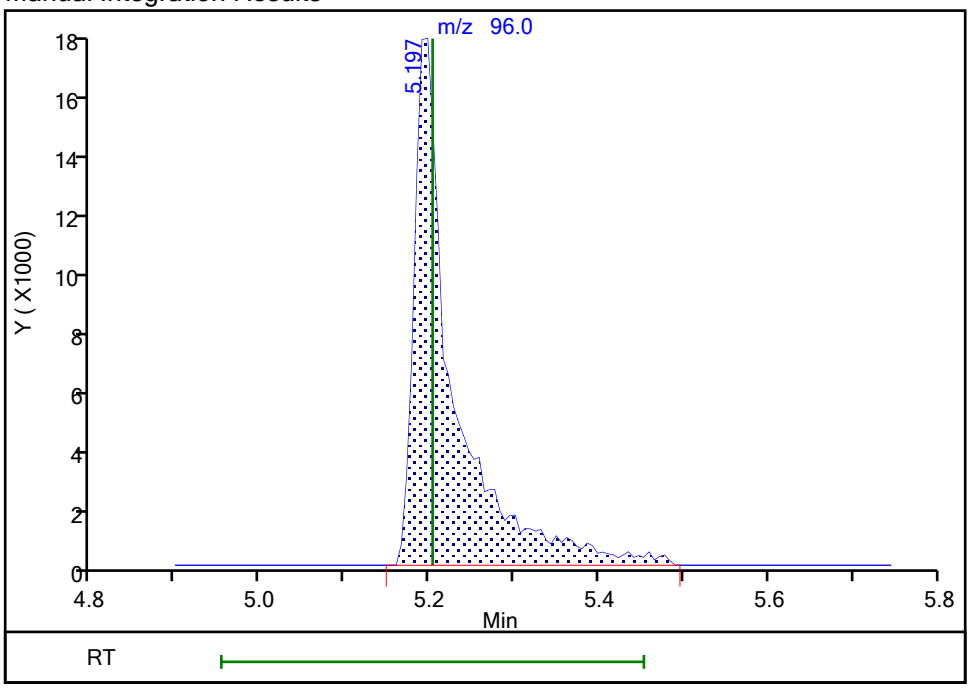
Processing Integration Results

RT: 5.20
Area: 42417
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 55064
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:32

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

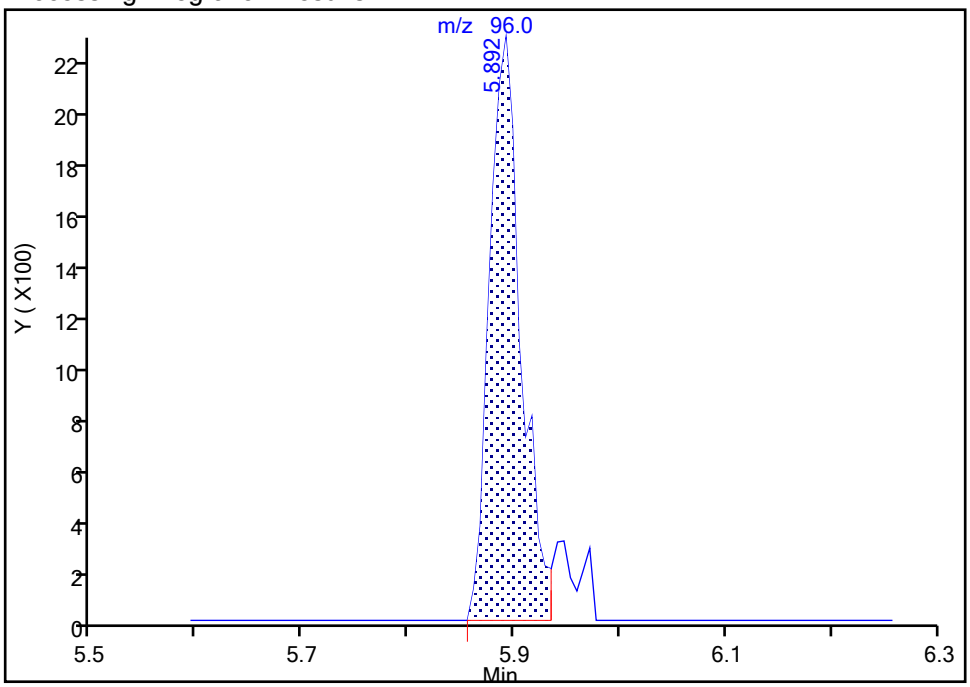
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4296.D		
Injection Date:	19-Nov-2020 09:33:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-22	Lab Sample ID:	310-140187-22
Client ID:	GW-111220-BE-039		
Operator ID:		ALS Bottle#:	30 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

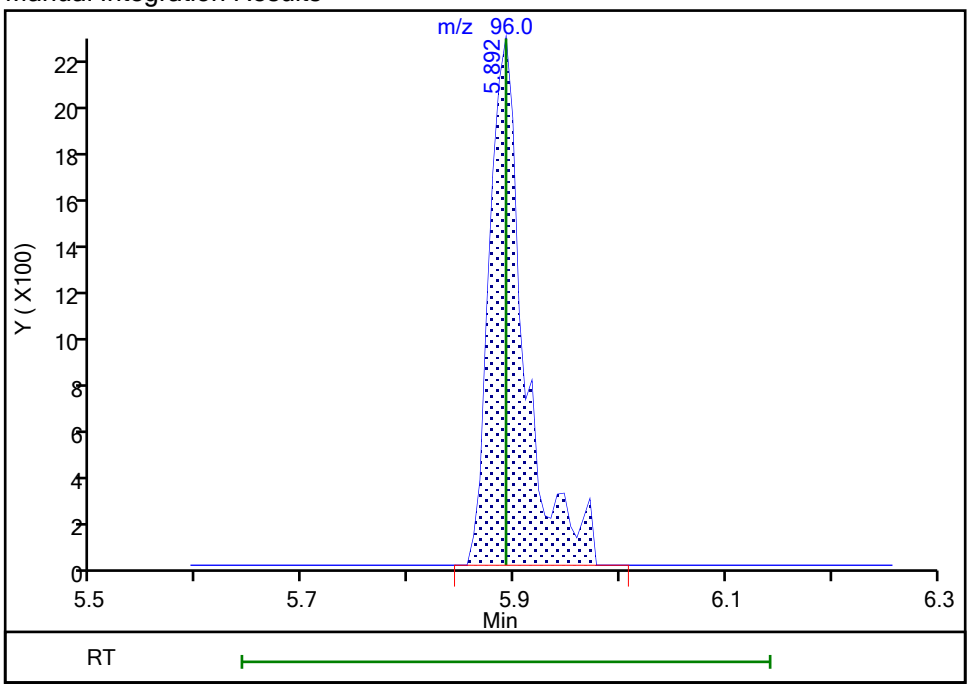
Processing Integration Results

RT: 5.89
Area: 4613
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5105
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:28

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-040 Lab Sample ID: 240-140187-23

Matrix: Water Lab File ID: c8265.D

Analysis Method: 8260D Date Collected: 11/12/2020 11:36

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 20:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	280		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-35-4	1,1-Dichloroethene	15		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	0.76	J	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	1.8	J	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	2.7		1.0	0.48
156-60-5	trans-1,2-Dichloroethene	12		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	109		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D
Lims ID: 240-140187-A-23
Client ID: GW-111220-BE-040
Sample Type: Client
Inject. Date: 18-Nov-2020 20:48:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:43:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.379	3.409	-0.030	0	307	1000.0	
* 122 Fluorobenzene	96	5.458	5.452	0.006	98	181792	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	94	5732	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	130075	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	58144	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	93	44350	54.4	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	172992	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	92	46814	49.2	
$ 8 BFB	95	9.920	9.920	0.000	83	63138	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	101875	30.4	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64	1.922	1.916	0.006	96	1914	0.9876	M
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.458				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.666	2.653	0.013	95	28126	15.0	M
21 112TCTFE	101		2.672				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.836				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.958				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.385	0.006	94	24869	11.7	M
29 Methyl tert-butyl ether	73		3.397				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	97	295768	73.9	
33 Vinyl acetate	86		3.848				ND	U
34 2-Chloro-1,3-butadiene	53		3.873				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	86	2008809	823.0	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.421				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83	4.641	4.641	0.000	95	7451	1.78	
46 1,1,1-Trichloroethane	97	4.812	4.805	0.007	97	959365	279.7	
47 Cyclohexane	56		4.860				ND	
48 Carbon tetrachloride	117	4.970	4.964	0.006	96	2251	0.7585	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.177	5.177	0.000	82	917	0.0976	M
116 n-Butanol	56		5.293				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.818	5.805	0.013	98	6642109	2766.1	E
117 Ethyl acrylate	55		5.933				ND	U
114 Methylcyclohexane	83		6.012				ND	U
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
57 Methyl methacrylate	69		6.165				ND	
115 1,4-Dioxane	58		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92	7.116	7.116	0.000	97	9576	1.50	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	7124	2.71	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.750	8.756	-0.006	97	6028	0.5280	
74 m-Xylene & p-Xylene	106	8.884	8.890	-0.006	96	5741	1.29	
75 o-Xylene	106	9.323	9.335	-0.012	98	2517	0.5950	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	1	1021	0.1163	Ma
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105	10.890	10.896	-0.006	96	4016	0.4442	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105	11.390	11.389	0.001	96	2808	0.3410	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91	11.768	11.767	0.001	55	547	0.0718	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.981	13.980	0.001	97	15167	3.14	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
139 C6-C12	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		834.6	E
S 100 Xylenes, Total	1				0		1.89	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

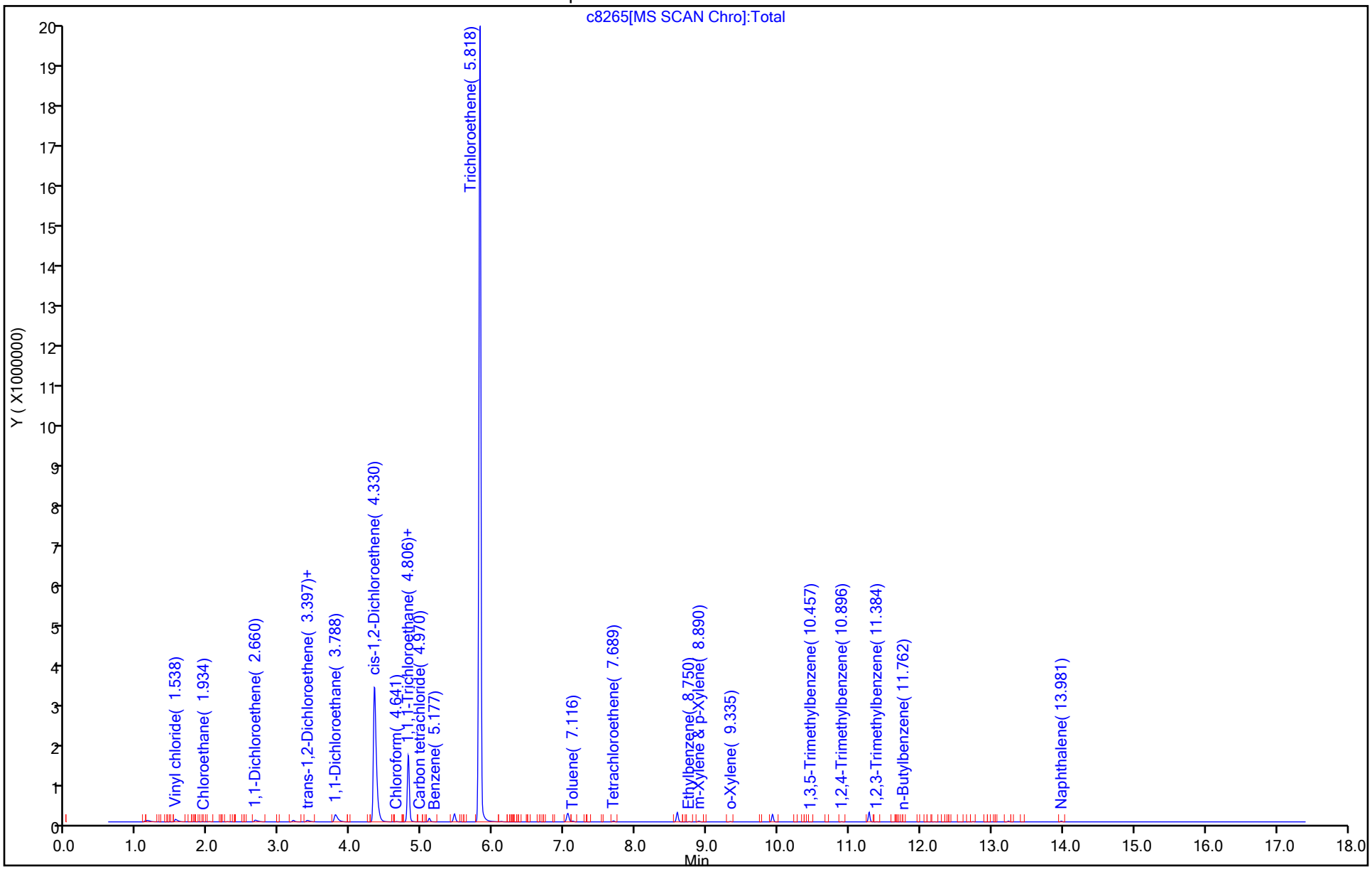
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:16:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23	Worklist Smp#:	11
Client ID:	GW-111220-BE-040				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D
Lims ID: 240-140187-A-23
Client ID: GW-111220-BE-040
Sample Type: Client
Inject. Date: 18-Nov-2020 20:48:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-011
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:43:37

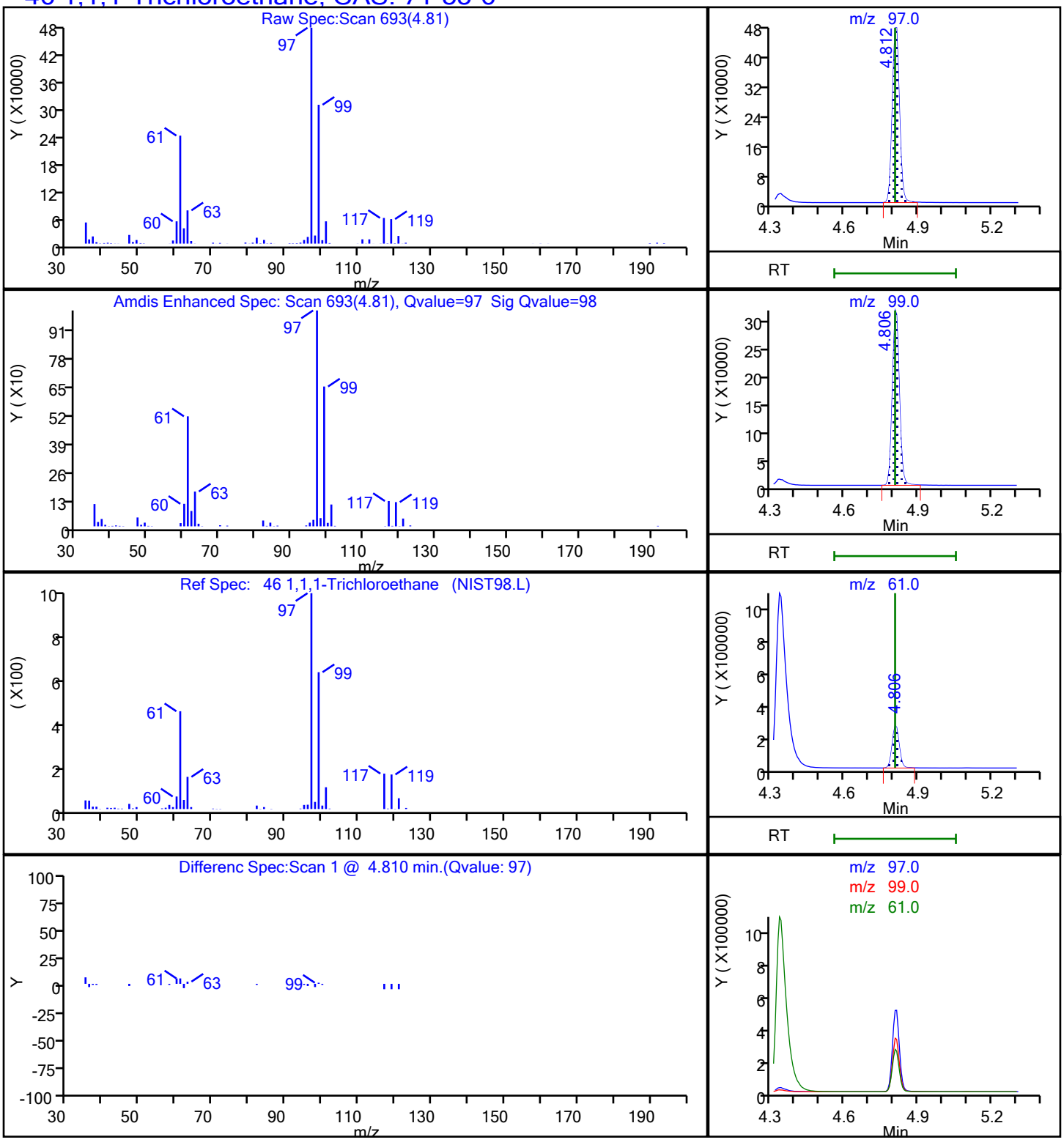
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.4	108.87
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.74
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.2	98.43

Report Date: 19-Nov-2020 11:16:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

46 1,1,1-Trichloroethane, CAS: 71-55-6

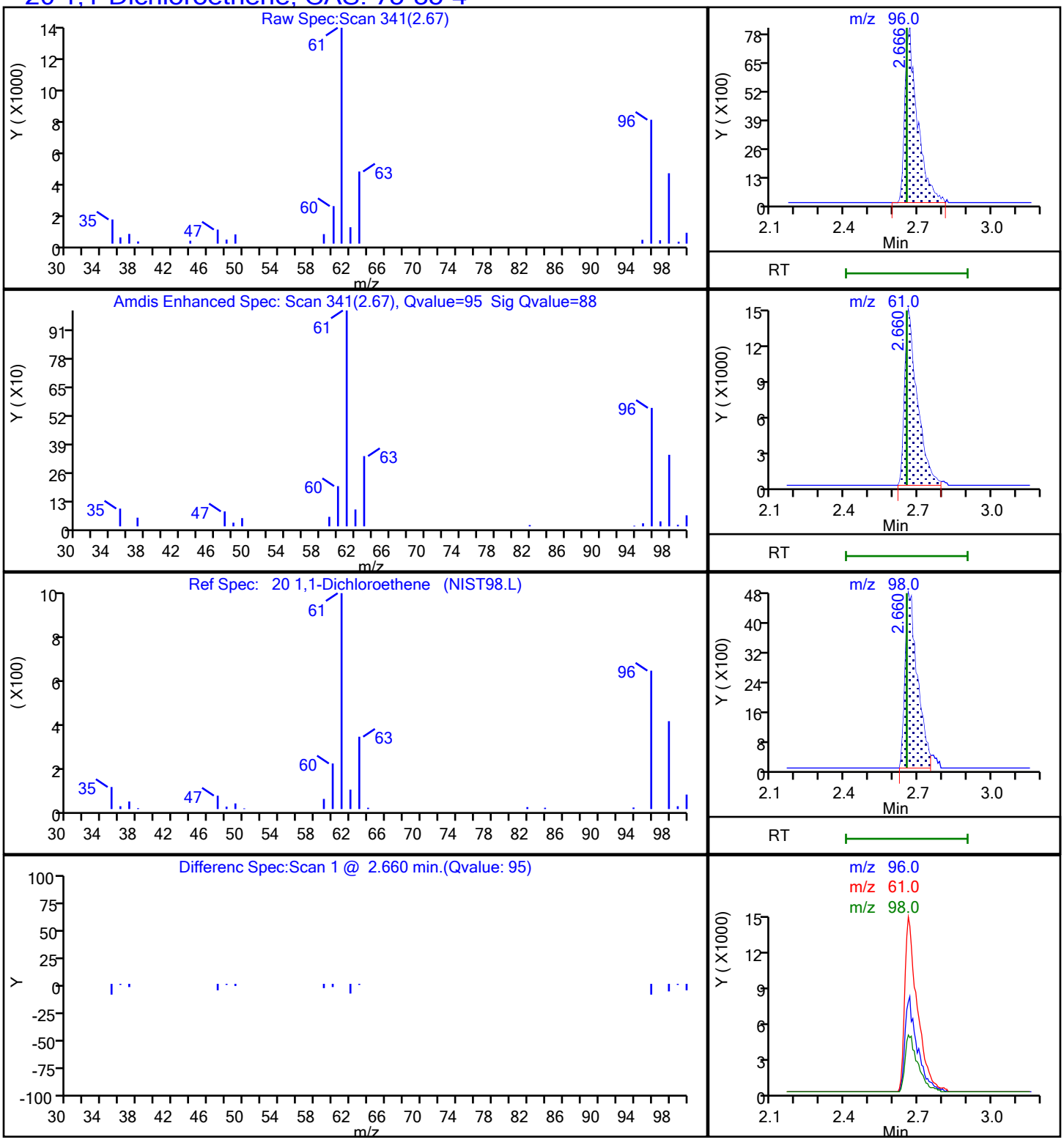


Report Date: 19-Nov-2020 11:16:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

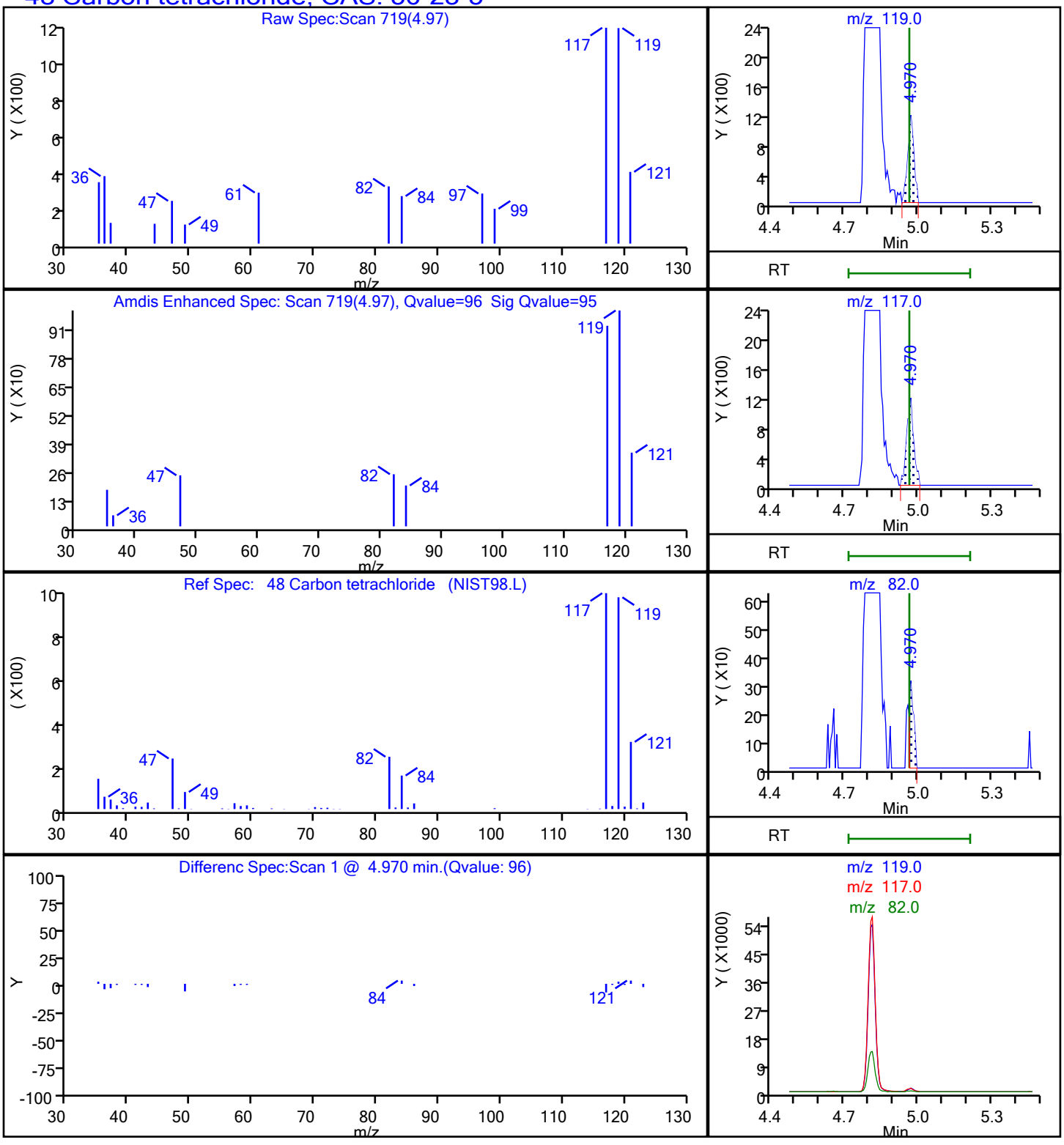


Report Date: 19-Nov-2020 11:16:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

48 Carbon tetrachloride, CAS: 56-23-5

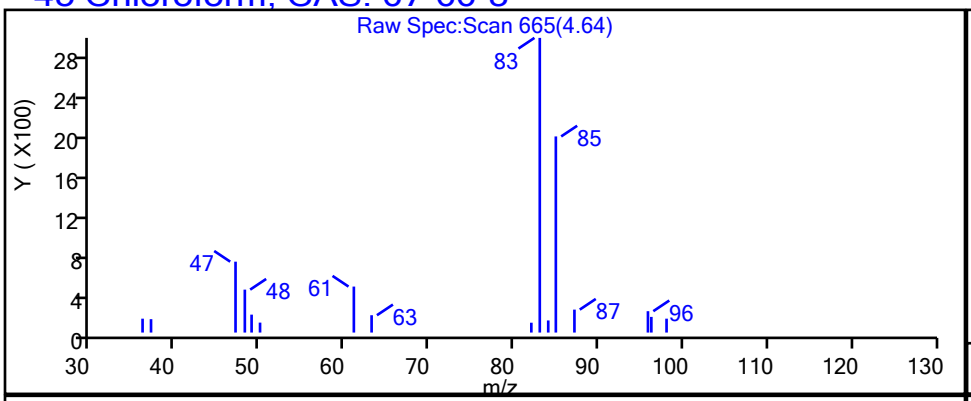


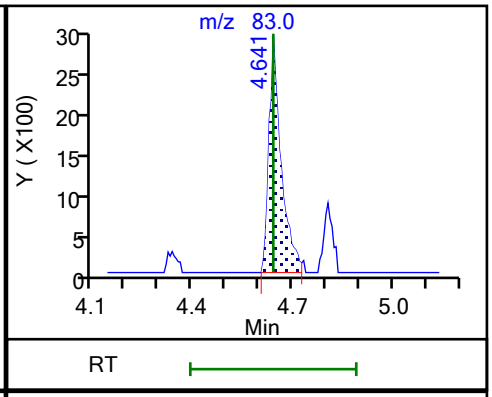
Report Date: 19-Nov-2020 11:16:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

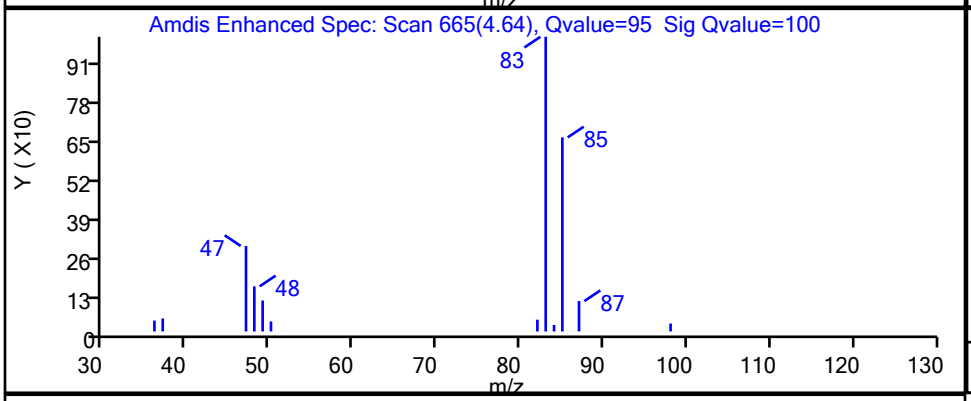
Eurofins TestAmerica, Cedar Falls

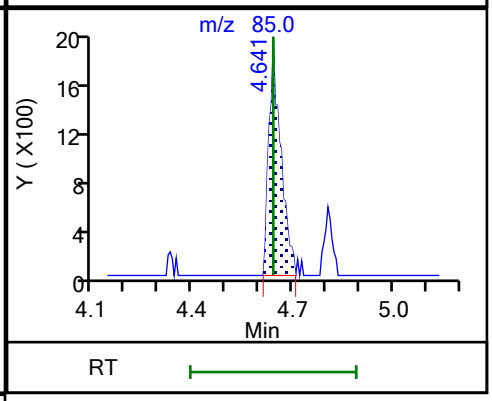
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

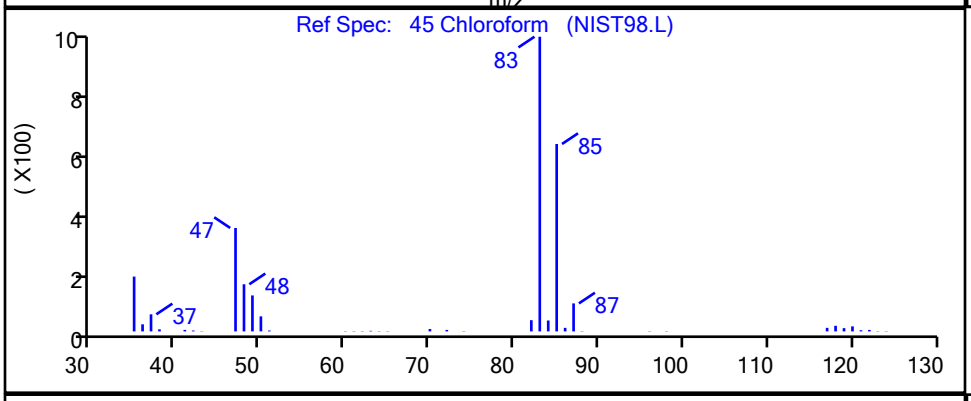
45 Chloroform, CAS: 67-66-3

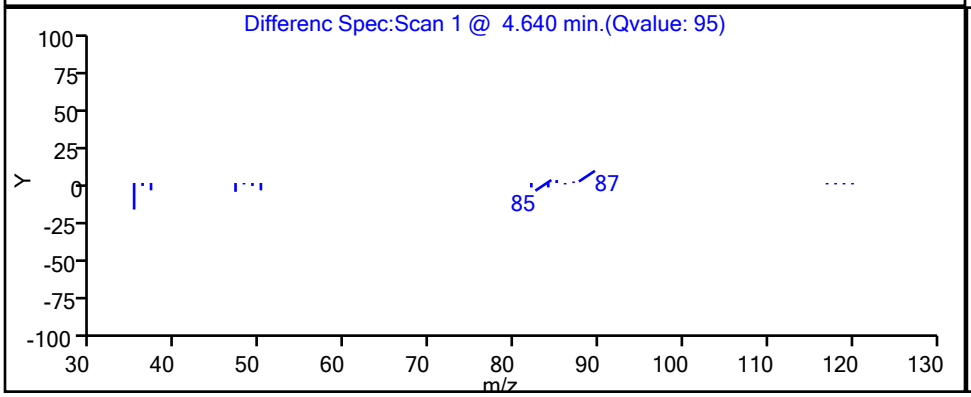


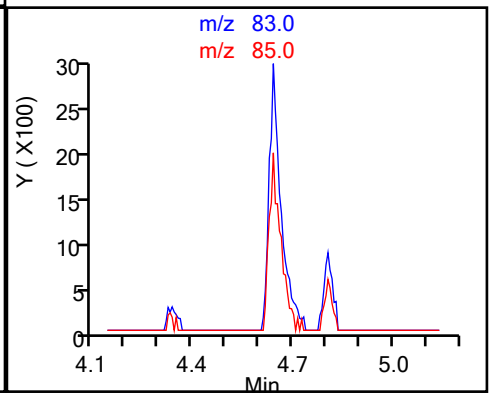










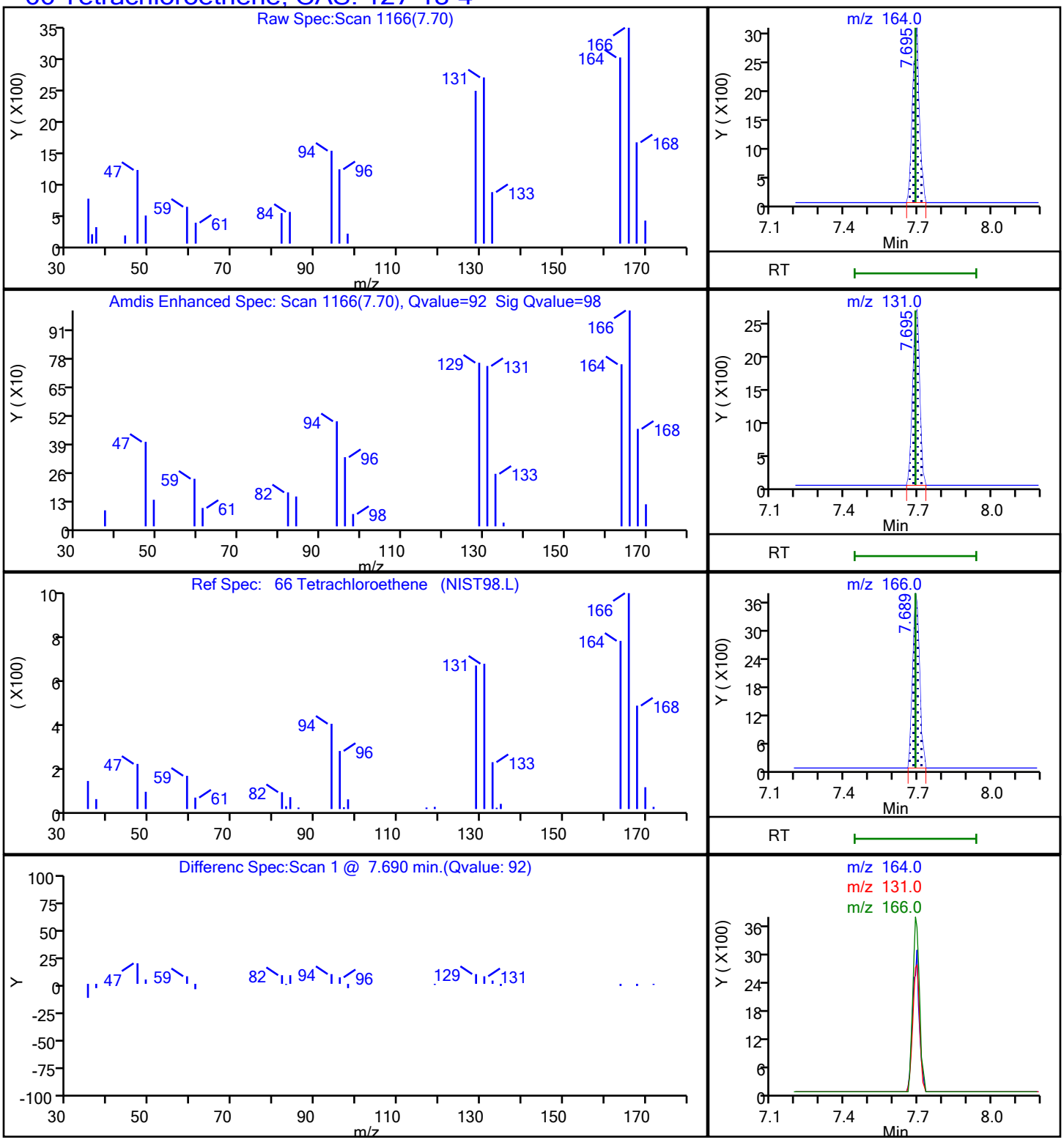


Report Date: 19-Nov-2020 11:16:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D		
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:	sjn	ALS Bottle#:	11 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

66 Tetrachloroethene, CAS: 127-18-4

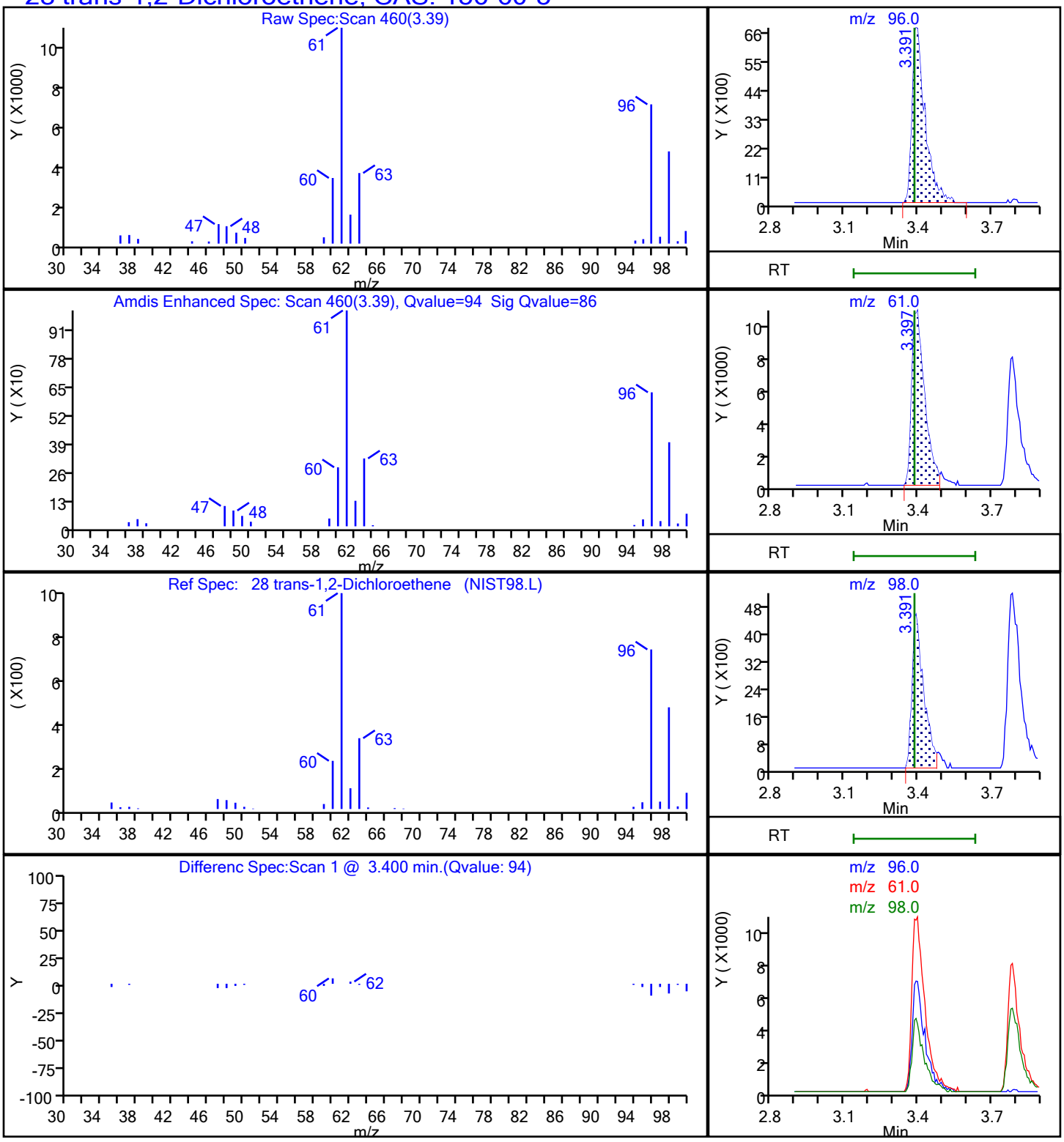


Report Date: 19-Nov-2020 11:16:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

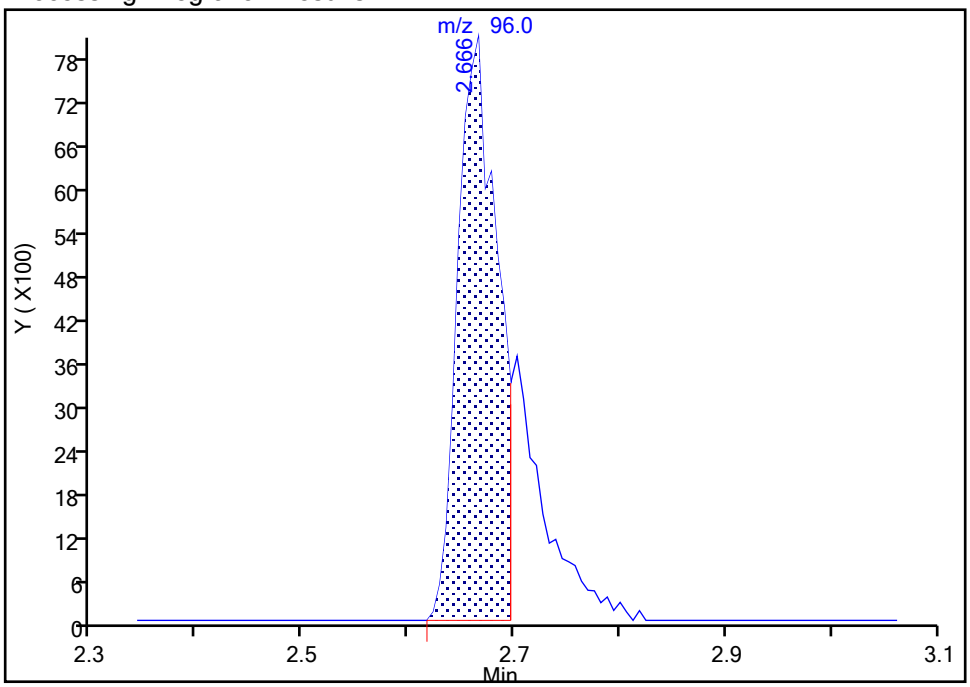
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

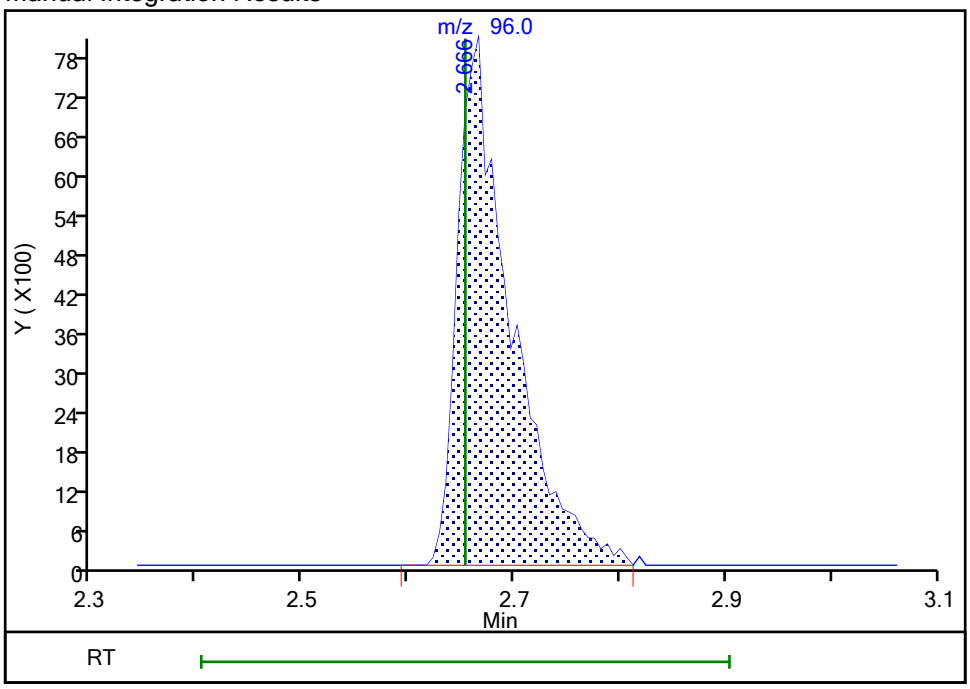
Processing Integration Results

RT: 2.67
Area: 20984
Amount: 11.221292
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 28126
Amount: 15.040510
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:40:39

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

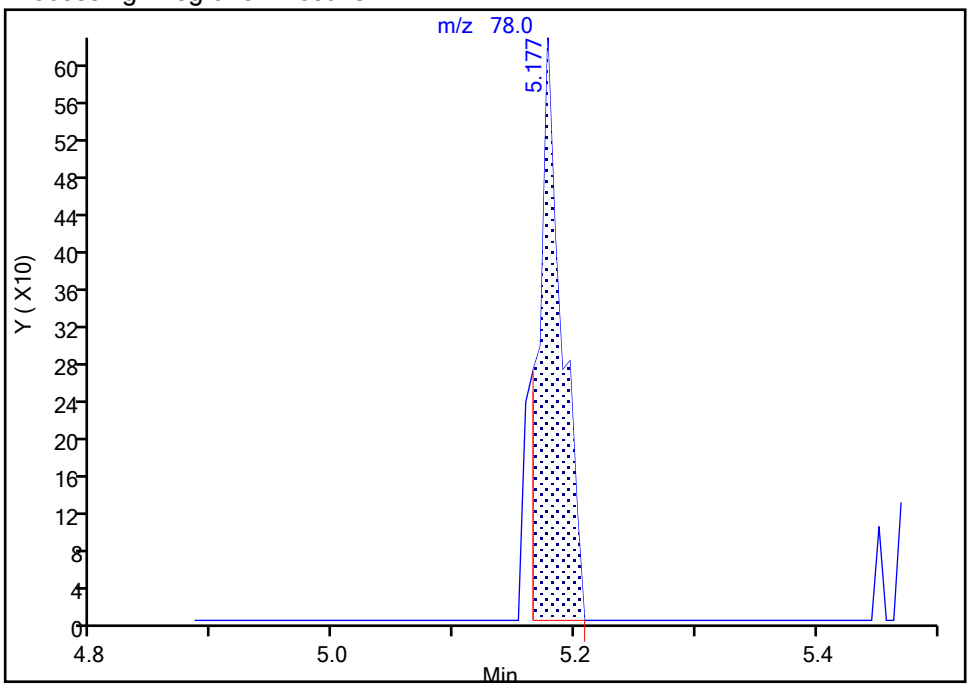
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

50 Benzene, CAS: 71-43-2

Signal: 1

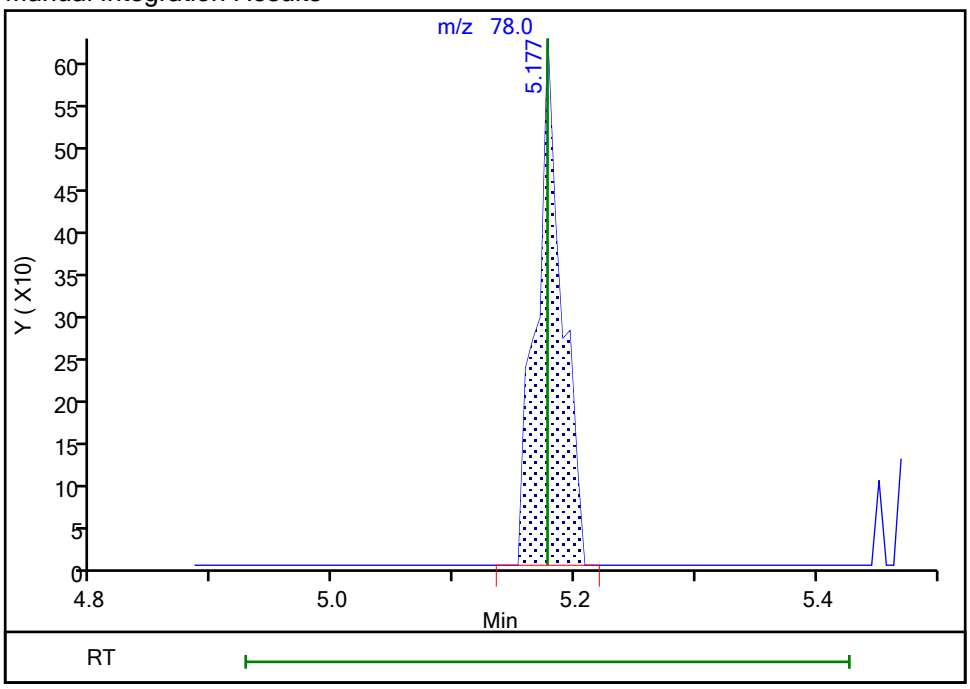
Processing Integration Results

RT: 5.18
Area: 831
Amount: 0.088463
Amount Units: ug/l



Manual Integration Results

RT: 5.18
Area: 917
Amount: 0.097619
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:42:01

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

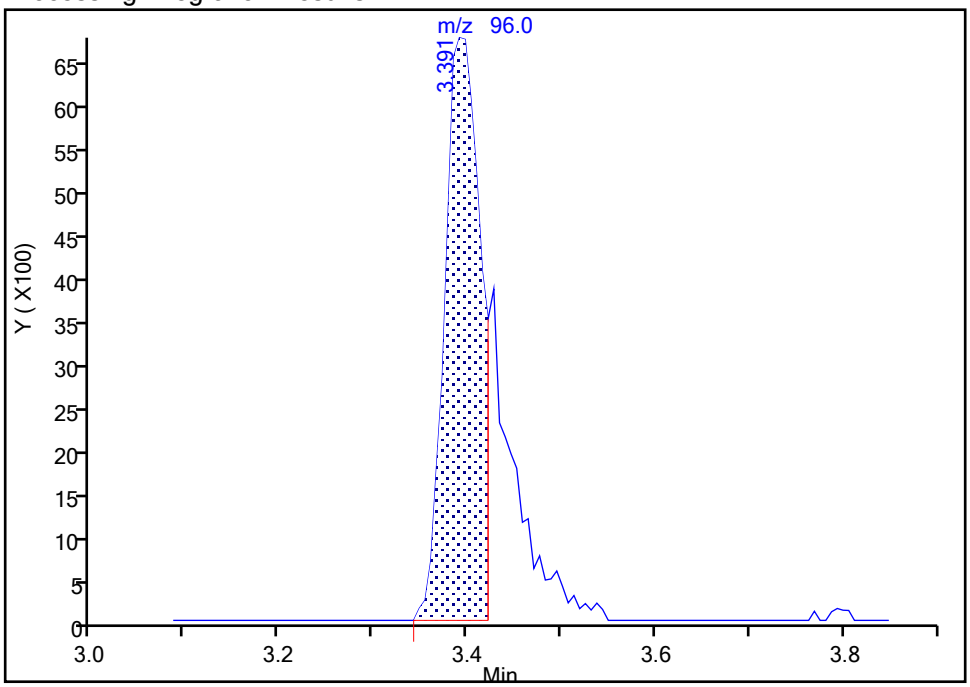
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D				
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:	sjn	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

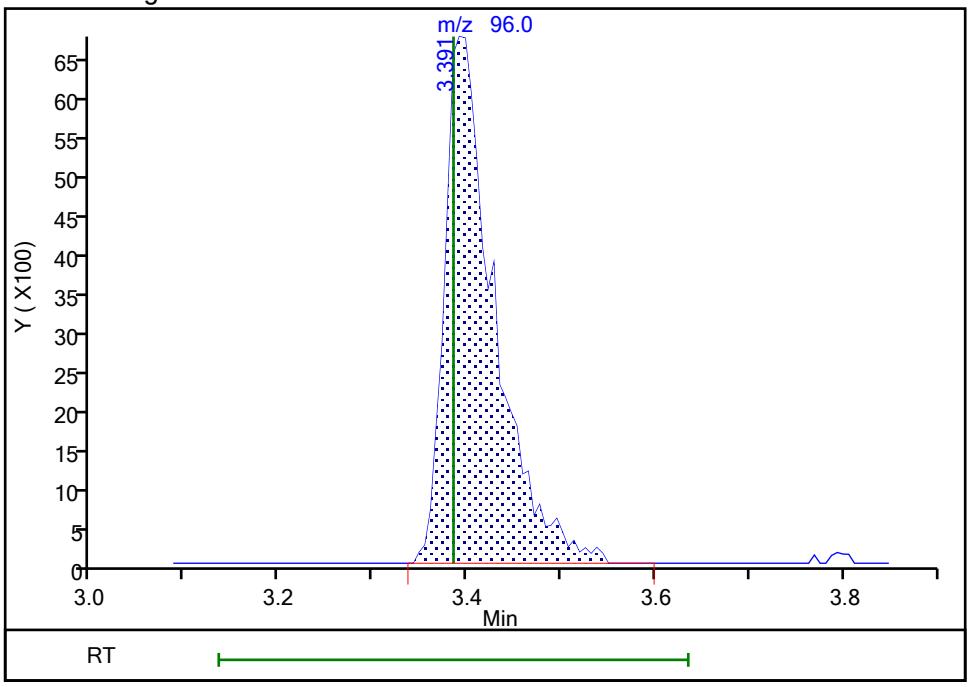
Processing Integration Results

RT: 3.39
Area: 17984
Amount: 8.430531
Amount Units: ug/l



Manual Integration Results

RT: 3.39
Area: 24869
Amount: 11.658077
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:40:51

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

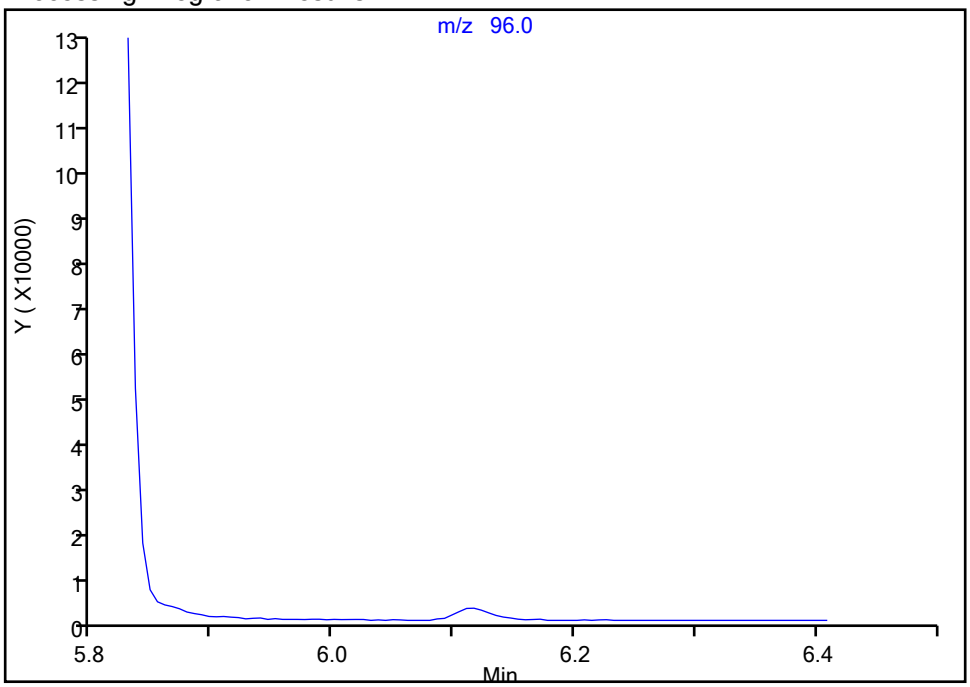
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8265.D		
Injection Date:	18-Nov-2020 20:48:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:	sjn	ALS Bottle#:	11 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

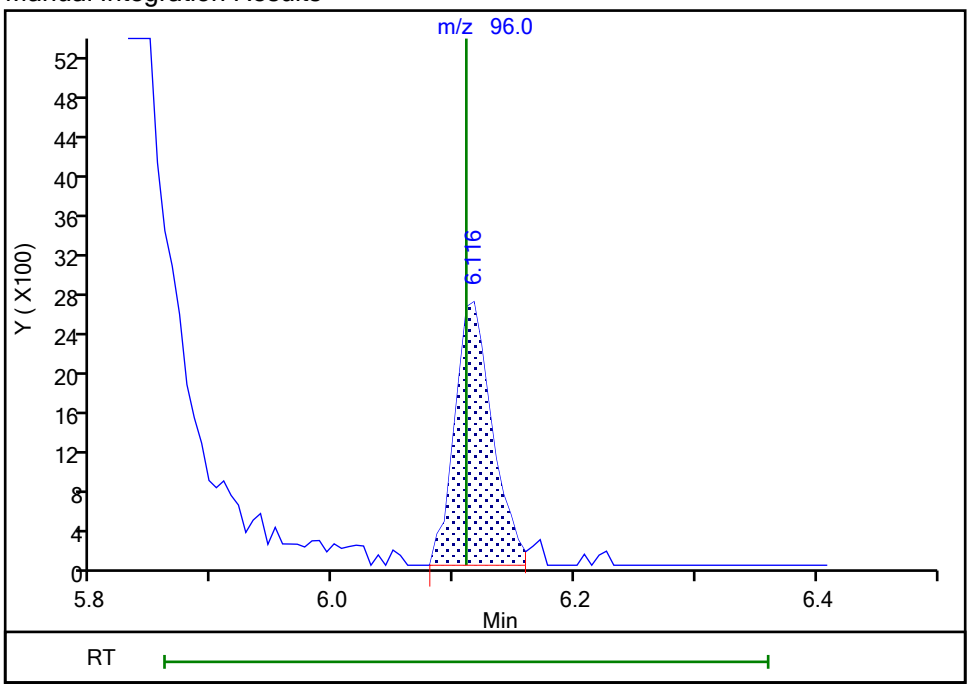
Processing Integration Results

Not Detected
Expected RT: 6.11



Manual Integration Results

RT: 6.12
Area: 5732
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:40:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-040 Lab Sample ID: 240-140187-23

Matrix: Water Lab File ID: H4293.D

Analysis Method: 8260D Date Collected: 11/12/2020 11:36

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 08:26

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	62		10	2.2
75-00-3	Chloroethane	40	U	40	7.9
156-59-2	cis-1,2-Dichloroethene	630		10	2.1
100-41-4	Ethylbenzene	10	U	10	3.1
108-88-3	Toluene	10	U	10	4.3
79-01-6	Trichloroethene	2100		10	4.3
75-01-4	Vinyl chloride	26		10	1.8
1330-20-7	Xylenes, Total	30	U	30	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	96		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D
Lims ID: 240-140187-B-23
Client ID: GW-111220-BE-040
Sample Type: Client
Inject. Date: 19-Nov-2020 08:26:30 ALS Bottle#: 27 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 310-0062726-021
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:36:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	44682	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.862	4.868	-0.006	0	14615	0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	97	56768	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	84	5034	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	91	53735	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	95	35122	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	45	12795	54.1	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	58113	48.1	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	22873	50.6	
$ 8 BFB	95	9.678	9.684	-0.006	80	29053	NR	
9 Dichlorodifluoromethane	85		1.124				ND	U
10 Chloromethane	50	1.271	1.265	0.006	41	1221	0.2371	M
11 Vinyl chloride	62	1.350	1.350	0.000	96	7411	2.56	M
12 Butadiene	54		1.387				ND	
13 Bromomethane	94		1.612				ND	
14 Chloroethane	64		1.698				ND	
15 Dichlorofluoromethane	67		1.893				ND	
16 Trichlorofluoromethane	101		1.929				ND	
17 Ethanol	45		2.161				ND	
18 Ethyl ether	59		2.222				ND	
19 Acrolein	56		2.332				ND	
20 1,1-Dichloroethene	96	2.423	2.411	0.012	86	1525	1.57	M
21 112TCTFE	101		2.423				ND	
22 Acetone	43		2.490				ND	
23 Iodomethane	142		2.533				ND	
24 Carbon disulfide	76		2.582				ND	
105 Isopropyl alcohol	45		2.673				ND	
118 Acetonitrile	40		2.740				ND	U
25 3-Chloro-1-propene	76		2.758				ND	
26 Methyl acetate	43		2.807				ND	
27 Methylene Chloride	84		2.874				ND	
35 2-Methyl-2-propanol	59		3.057				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124				ND	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	91	1684	1.16	M
29 Methyl tert-butyl ether	73		3.155				ND	
31 Hexane	57		3.392				ND	U
32 1,1-Dichloroethane	63	3.527	3.526	0.001	97	20426	6.23	M
33 Vinyl acetate	86		3.618				ND	
34 2-Chloro-1,3-butadiene	53		3.618				ND	
36 Isopropyl ether	87		3.636				ND	
37 Tert-butyl ethyl ether	59		3.978				ND	
38 2,2-Dichloropropane	77		4.069				ND	
39 cis-1,2-Dichloroethene	96	4.088	4.087	0.001	87	110952	62.7	M
40 2-Butanone (MEK)	43		4.136				ND	
41 Propionitrile	54		4.185				ND	
104 Ethyl acetate	43		4.203				ND	
42 Chlorobromomethane	128		4.307				ND	
43 Methacrylonitrile	67		4.325				ND	
44 Tetrahydrofuran	71		4.380				ND	
45 Chloroform	83	4.392	4.398	-0.006	30	692	0.2674	
46 1,1,1-Trichloroethane	97	4.557	4.551	0.006	95	52030	23.1	
47 Cyclohexane	56		4.599				ND	
48 Carbon tetrachloride	117		4.709				ND	U
49 1,1-Dichloropropene	75		4.721				ND	
50 Benzene	78		4.916				ND	
108 Isobutyl alcohol	43		4.923				ND	
51 1,2-Dichloroethane	62		4.941				ND	
116 n-Butanol	56		5.008				ND	
52 Tert-amyl methyl ether	73		5.057				ND	
53 n-Heptane	43		5.203				ND	
54 Trichloroethene	132	5.551	5.550	0.001	92	367660	209.2	M
117 Ethyl acrylate	55		5.709				ND	
114 Methylcyclohexane	83		5.733				ND	
55 1,2-Dichloropropane	63		5.776				ND	
56 Dibromomethane	93		5.886				ND	
57 Methyl methacrylate	69		5.935				ND	
115 1,4-Dioxane	58		5.935				ND	
58 Dichlorobromomethane	83		6.063				ND	
106 2-Nitropropane	43		6.306				ND	
59 2-Chloroethyl vinyl ether	63		6.398				ND	
60 cis-1,3-Dichloropropene	75		6.520				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709				ND	
62 Toluene	92	6.867	6.861	0.006	20	412	0.1102	M
63 trans-1,3-Dichloropropene	75		7.111				ND	
64 Ethyl methacrylate	69		7.239				ND	
65 1,1,2-Trichloroethane	83		7.300				ND	
66 Tetrachloroethene	166	7.434	7.434	0.000	1	342	0.2425	
67 1,3-Dichloropropane	76		7.477				ND	
68 2-Hexanone	43		7.599				ND	
69 Chlorodibromomethane	129		7.709				ND	
109 n-Butyl acetate	43		7.751				ND	
70 Ethylene Dibromide	107		7.818				ND	
71 Chlorobenzene	112		8.373				ND	
72 1,1,1,2-Tetrachloroethane	131		8.471				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.507	8.507	0.000	1	605	0.0868	M
74 m-Xylene & p-Xylene	106	8.648	8.647	0.001	27	612	0.2219	M
75 o-Xylene	106	9.087	9.086	0.001	1	44	0.0169	M
120 Methyl n-amyl ketone TIC	1		9.100				ND	
76 Styrene	104		9.105				ND	
77 Bromoform	173		9.294				ND	
78 Isopropylbenzene	105		9.519				ND	
79 Bromobenzene	156		9.842				ND	
80 1,1,2,2-Tetrachloroethane	83		9.873				ND	
81 1,2,3-Trichloropropane	75		9.909				ND	
82 trans-1,4-Dichloro-2-butene	53		9.940				ND	
83 N-Propylbenzene	91		10.001				ND	
84 2-Chlorotoluene	91		10.080				ND	
85 4-Chlorotoluene	91		10.208				ND	
86 1,3,5-Trimethylbenzene	105		10.214				ND	
87 tert-Butylbenzene	119		10.586				ND	
88 1,2,4-Trimethylbenzene	105	10.647	10.647	0.000	1	0	0	M
89 sec-Butylbenzene	105		10.854				ND	
90 1,3-Dichlorobenzene	146		10.952				ND	
91 4-Isopropyltoluene	119		11.037				ND	
92 1,4-Dichlorobenzene	146		11.062				ND	
110 1,2,3-Trimethylbenzene	105		11.141				ND	
113 Benzyl chloride	126		11.232				ND	
93 1,2-Dichlorobenzene	146		11.501				ND	
94 n-Butylbenzene	91		11.519				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.439				ND	
112 1,3,5-Trichlorobenzene	180		12.695				ND	
96 1,2,4-Trichlorobenzene	180		13.445				ND	
97 Hexachlorobutadiene	225		13.671				ND	
98 Naphthalene	128		13.726				ND	
99 1,2,3-Trichlorobenzene	180		14.024				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
139 C6-C12	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
137 C6-C10	1		0.000				ND	
136 n-Decane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
S 101 1,2-Dichloroethene, Total	1				0		63.9	
S 100 Xylenes, Total	1				0		0.2388	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 128 1,1-Dichloroacetone TIC	43		6.477				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

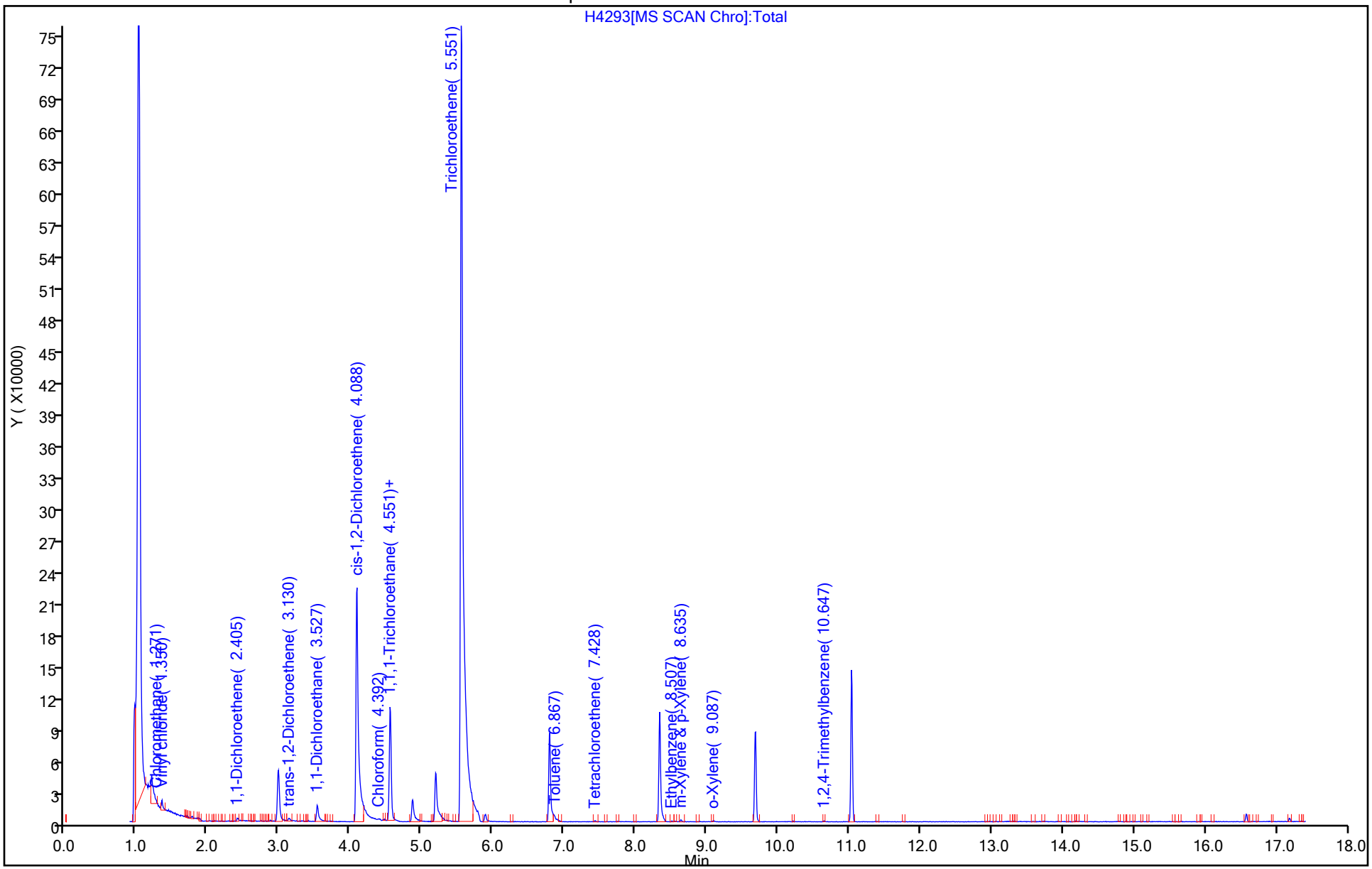
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:57:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D				
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23	Worklist Smp#:	21
Client ID:	GW-111220-BE-040				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	27
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D
Lims ID: 240-140187-B-23
Client ID: GW-111220-BE-040
Sample Type: Client
Inject. Date: 19-Nov-2020 08:26:30 ALS Bottle#: 27 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 310-0062726-021
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:36:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.1	1081.79
$ 6 Toluene-d8 (Surr)	50.0	48.1	962.44
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.6	1012.13

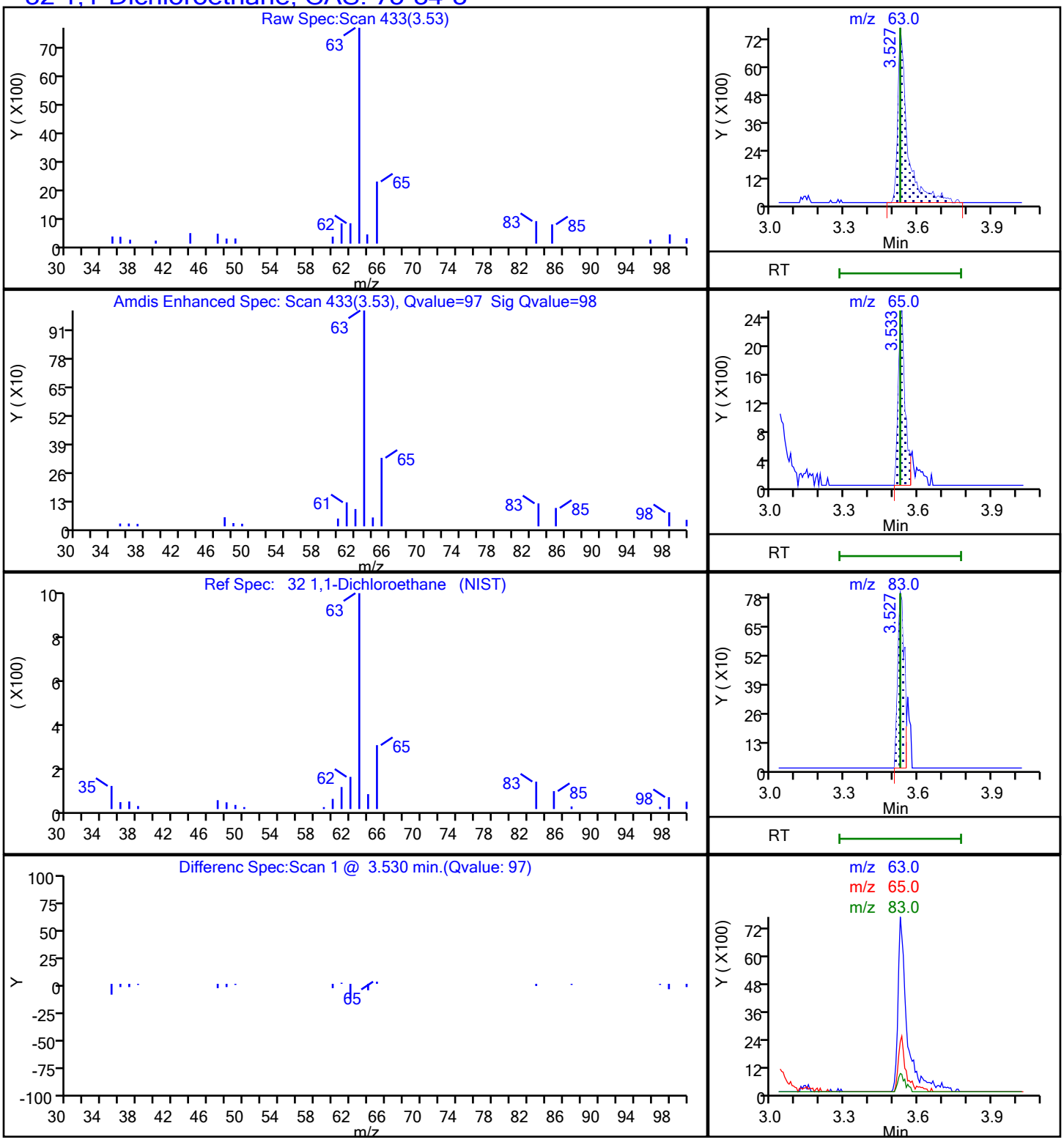
Report Date: 20-Nov-2020 06:57:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D

Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

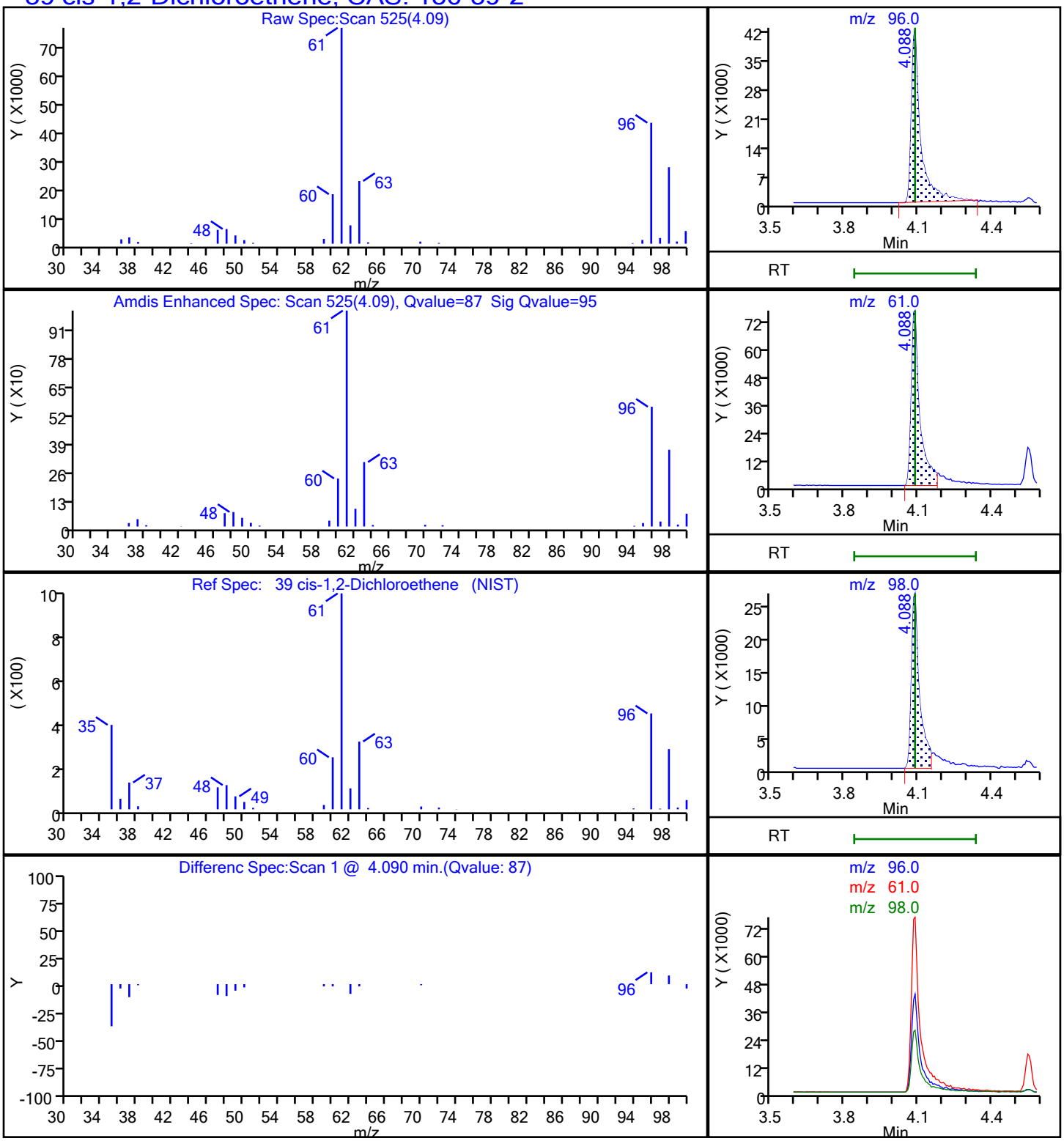


Report Date: 20-Nov-2020 06:57:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D				
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

39 cis-1,2-Dichloroethene, CAS: 156-59-2



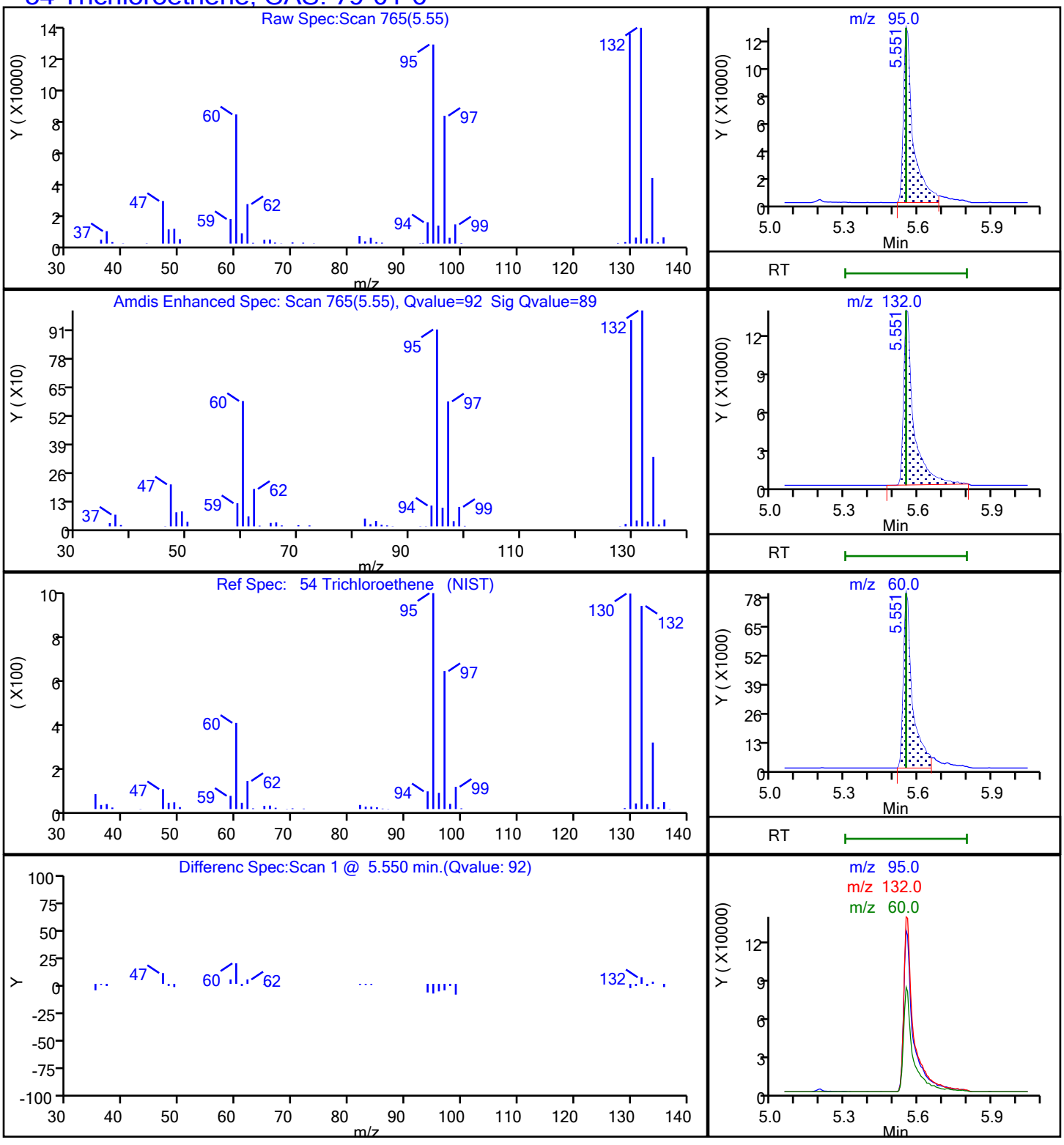
Report Date: 20-Nov-2020 06:57:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D

Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6



Report Date: 20-Nov-2020 06:57:53 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D

Injection Date: 19-Nov-2020 08:26:30 Instrument ID: Hobbes

Lims ID: 240-140187-B-23 Lab Sample ID: 310-140187-23

Client ID: GW-111220-BE-040

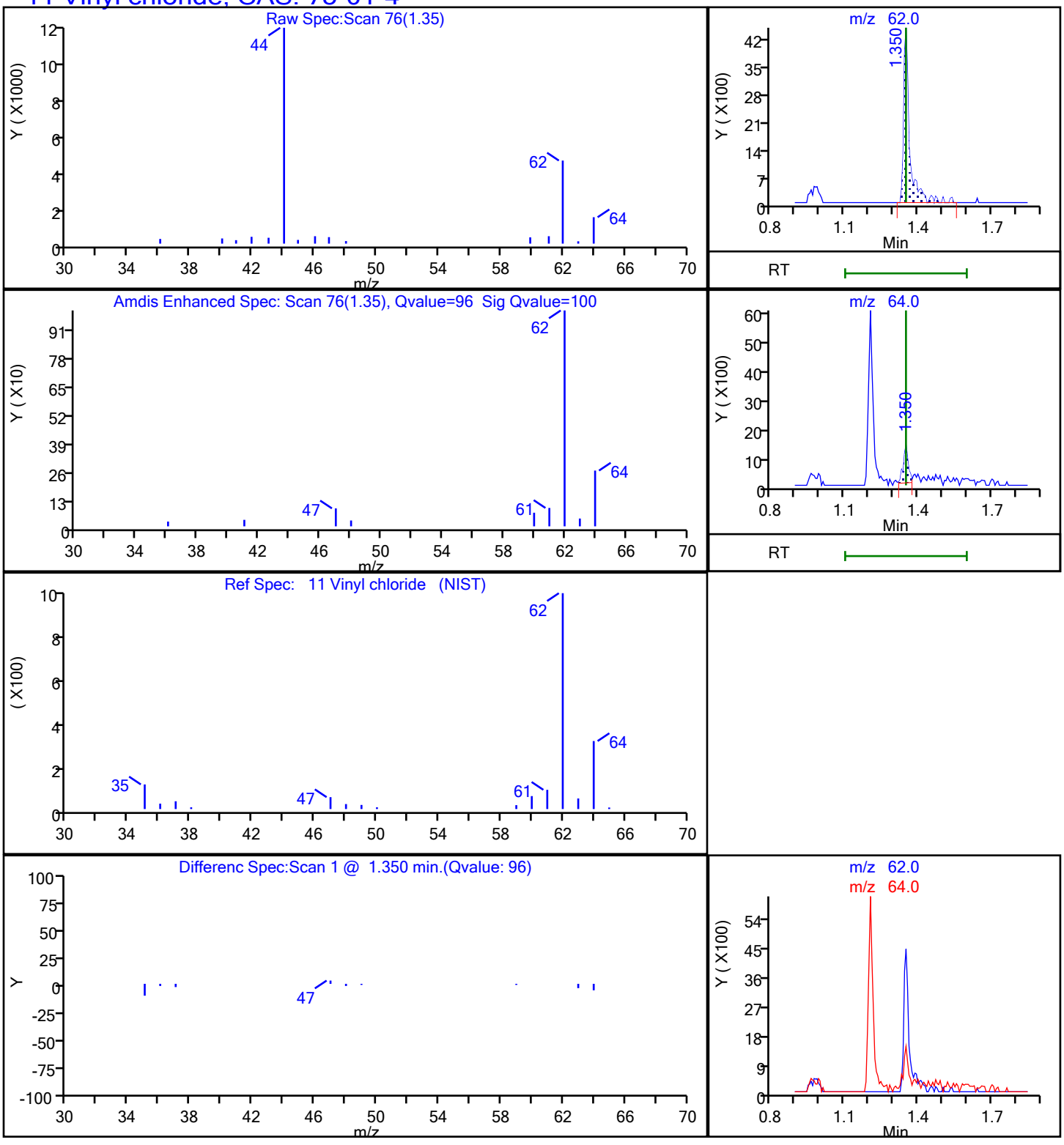
Operator ID: ALS Bottle#: 27 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 10.0000

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

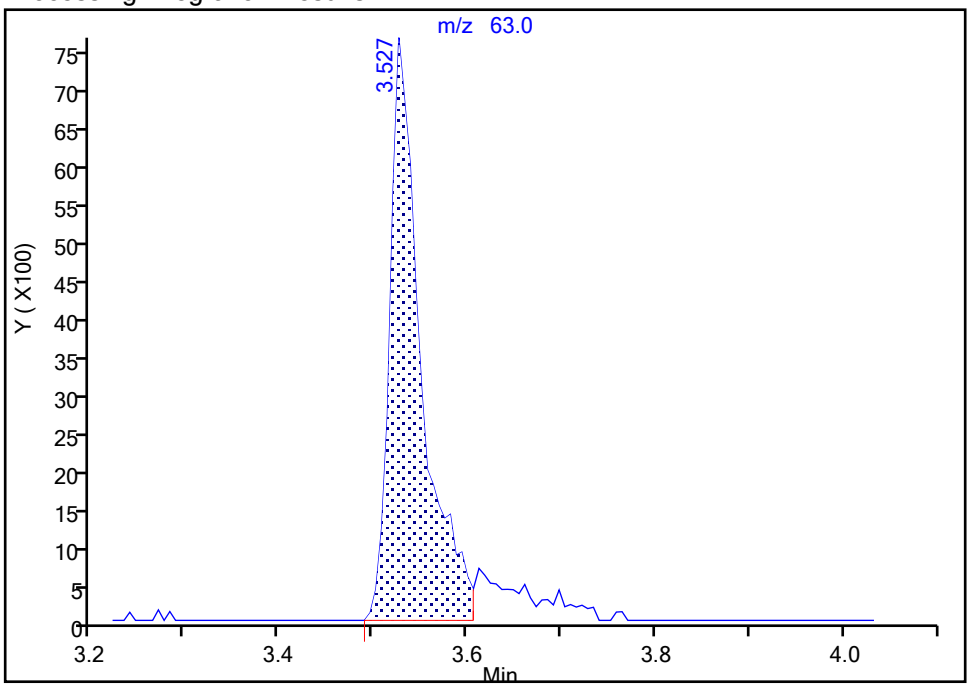
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

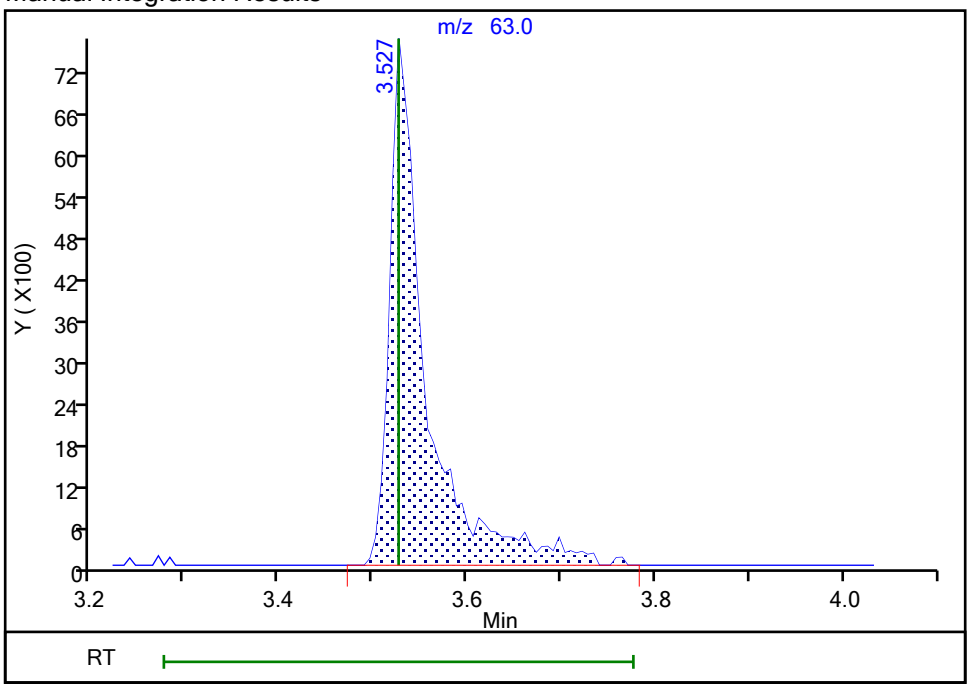
Processing Integration Results

RT: 3.53
Area: 17787
Amount: 5.427127
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 20426
Amount: 6.232333
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:35:25

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

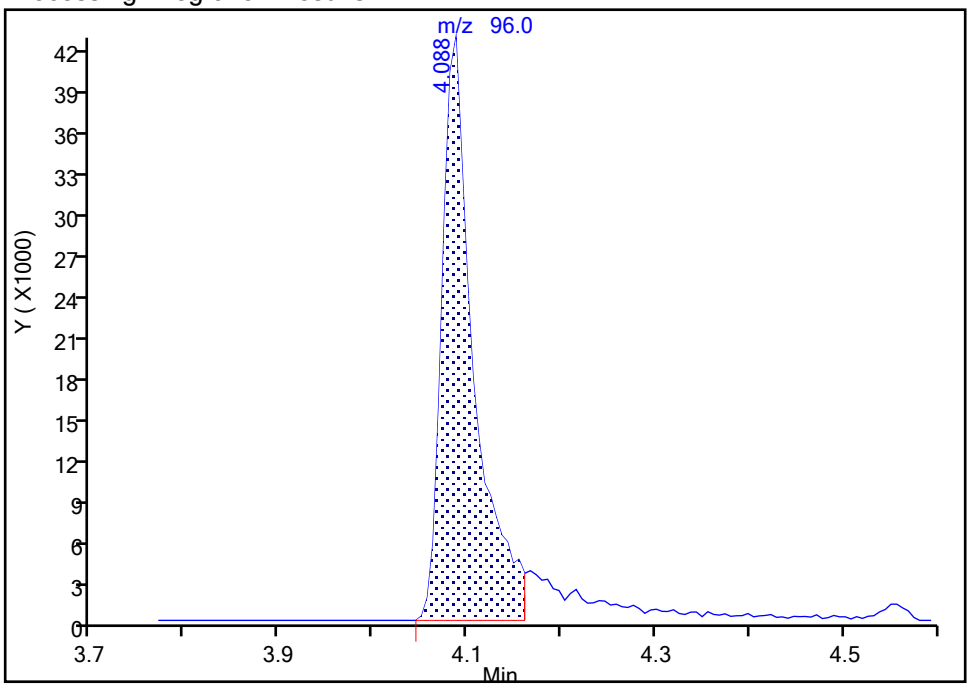
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

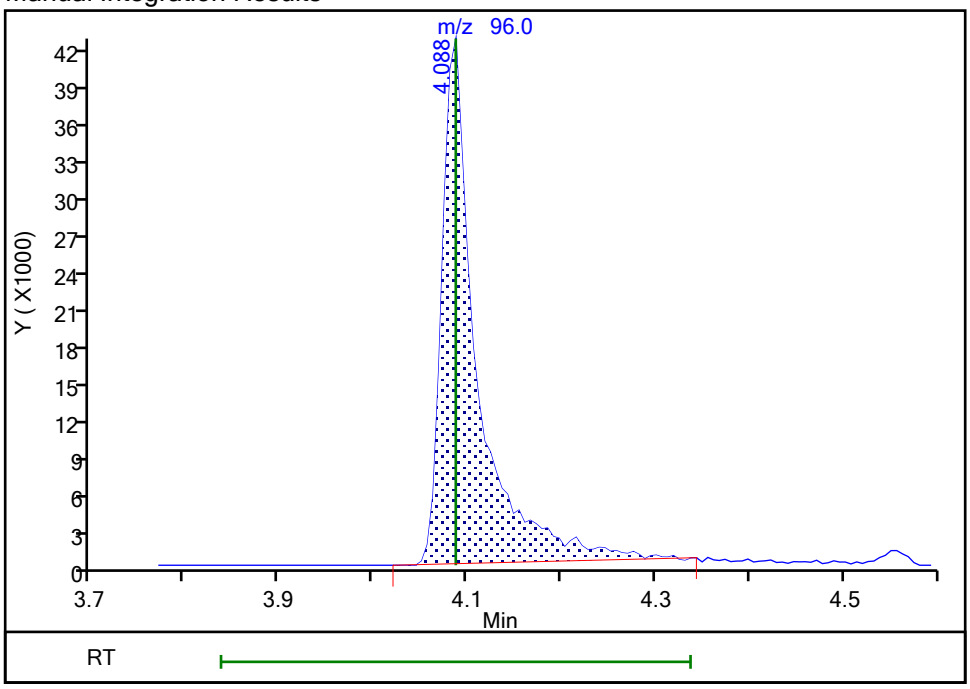
Processing Integration Results

RT: 4.09
Area: 101390
Amount: 57.310814
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 110952
Amount: 62.715746
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:35:32

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

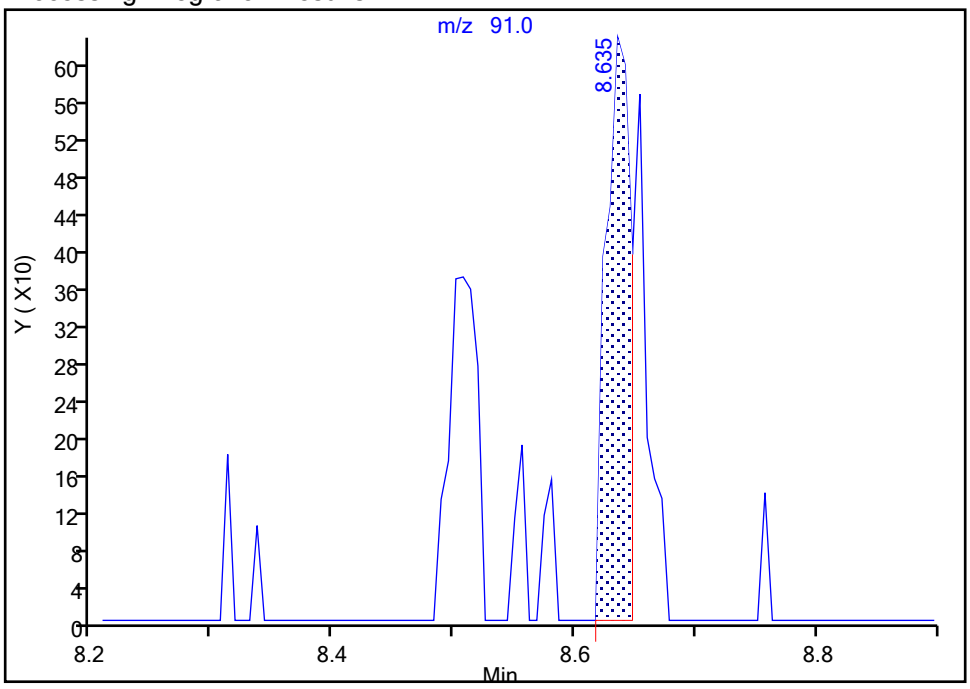
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

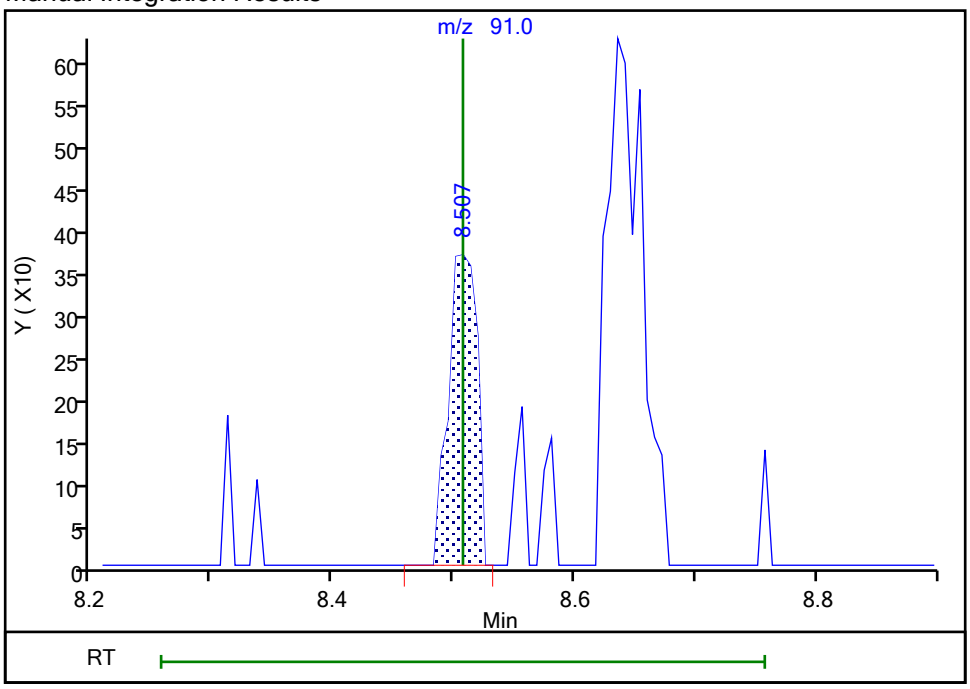
Processing Integration Results

RT: 8.64
Area: 890
Amount: 0.127755
Amount Units: ug/l



Manual Integration Results

RT: 8.51
Area: 605
Amount: 0.086845
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:36:08

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

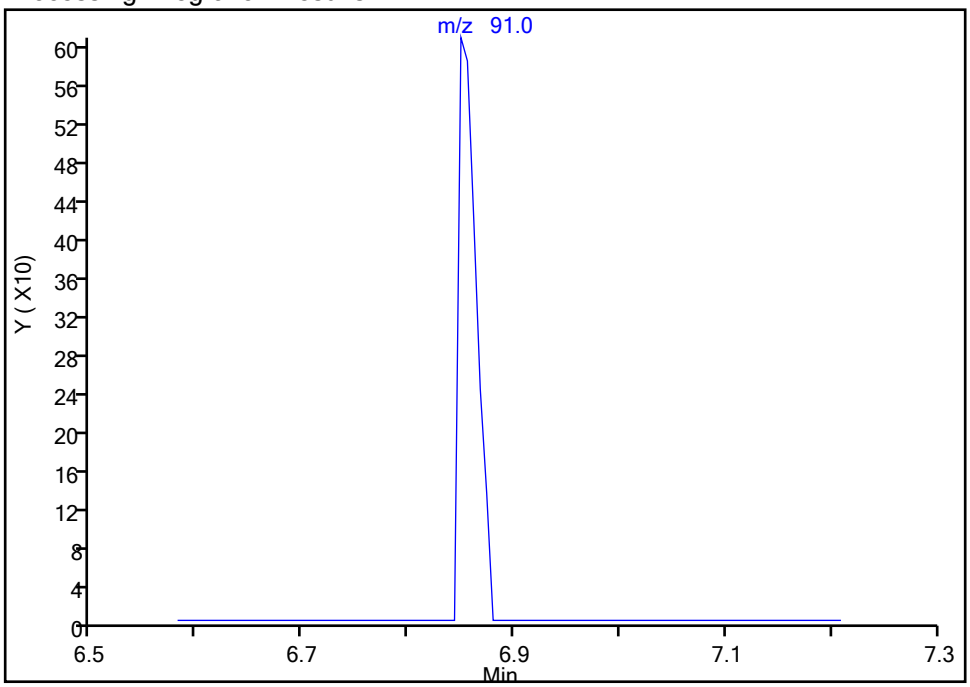
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 2

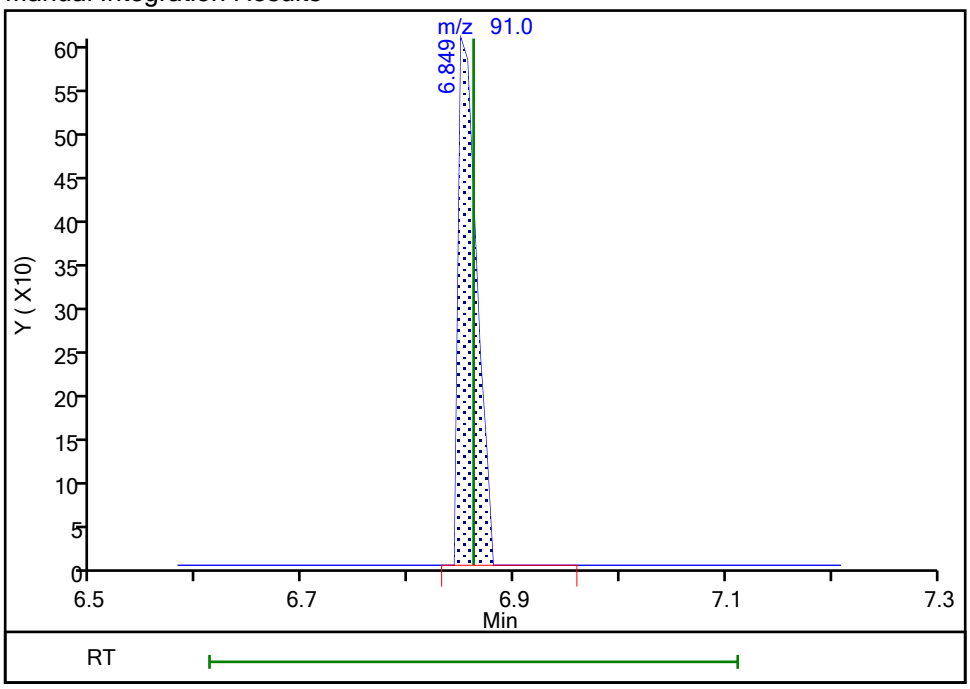
Not Detected
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 718
Amount: 0.110171
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:35:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

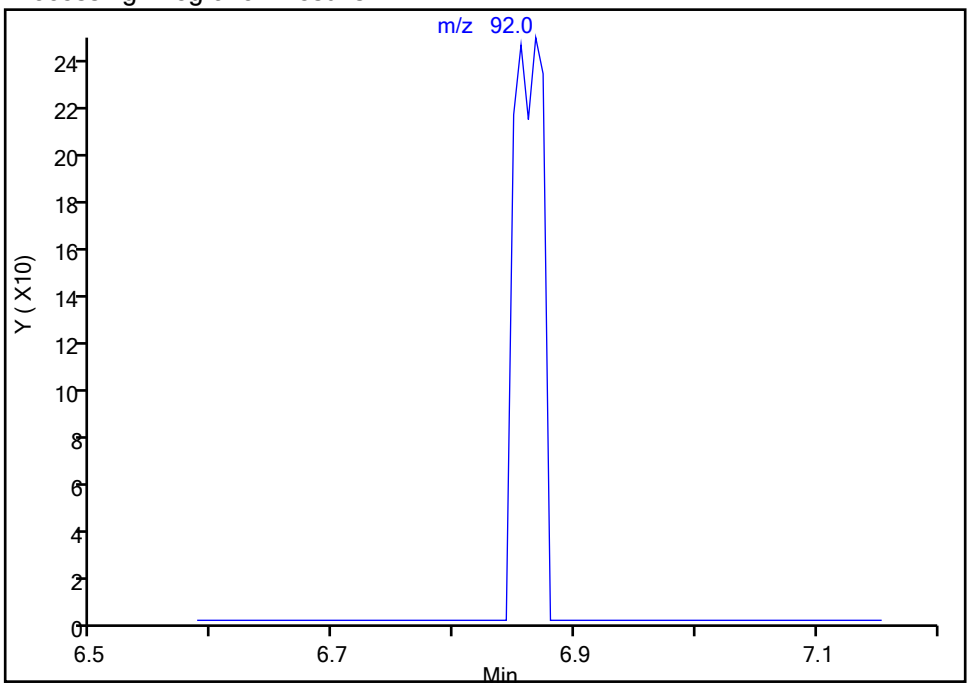
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D				
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23		
Client ID:	GW-111220-BE-040				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

62 Toluene, CAS: 108-88-3

Signal: 1

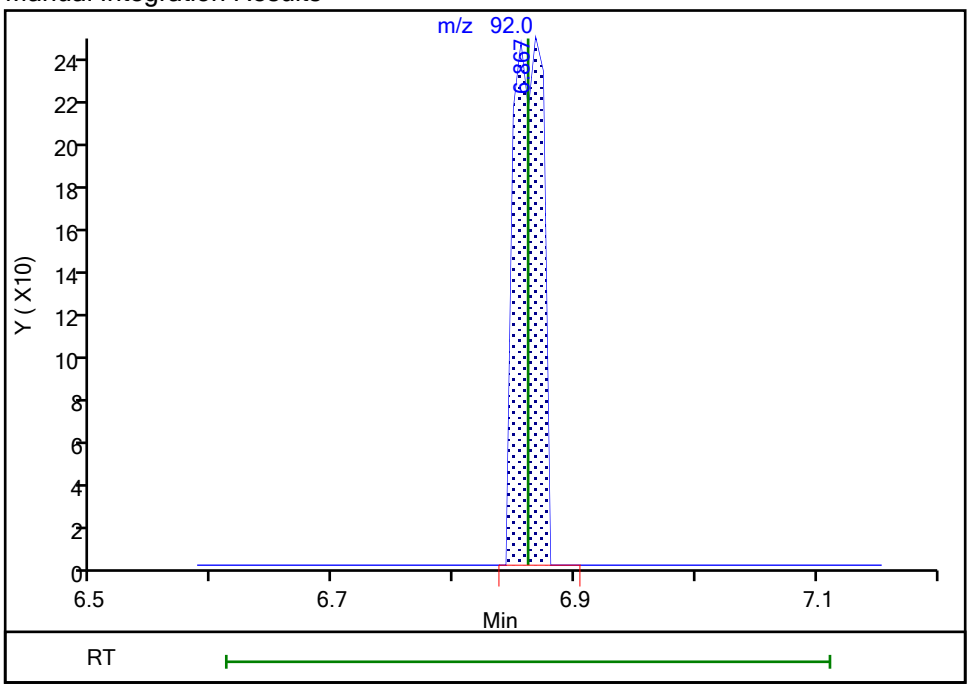
Not Detected
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.87
Area: 412
Amount: 0.110171
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:35:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

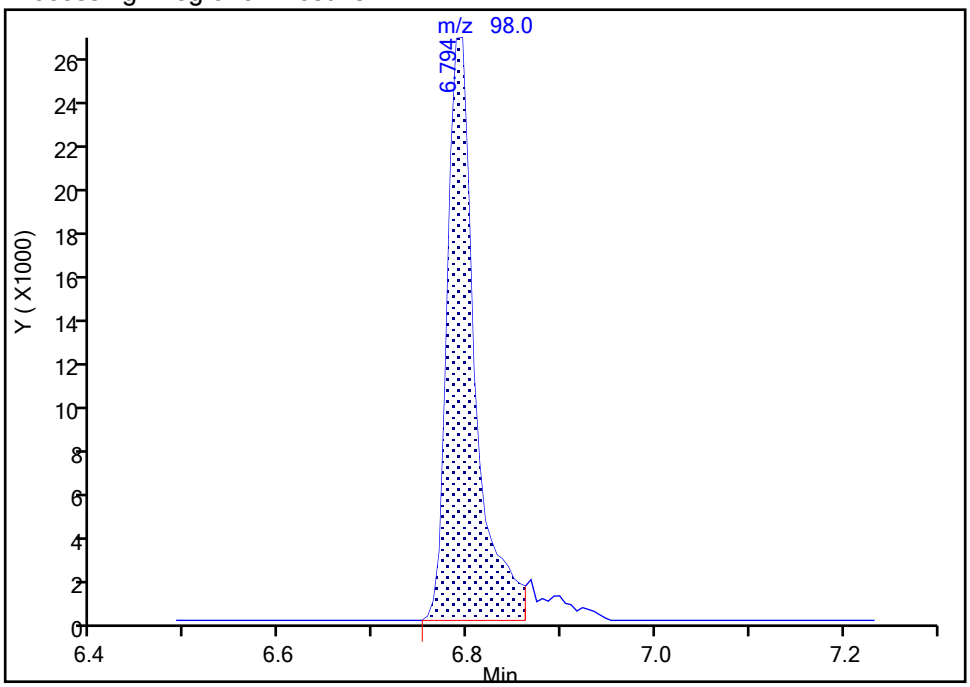
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

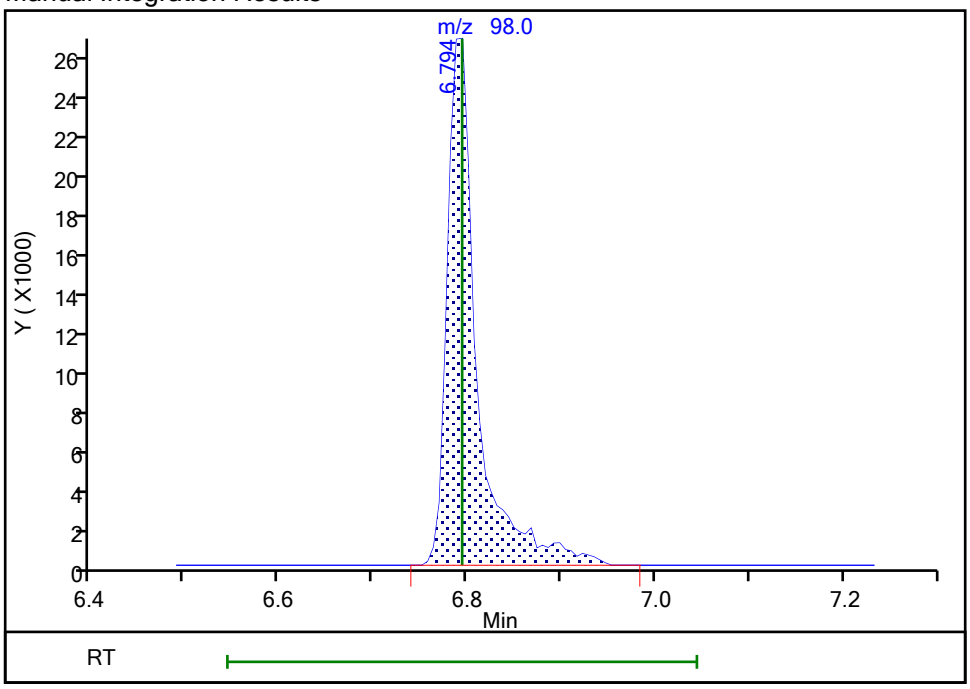
Processing Integration Results

RT: 6.79
Area: 54291
Amount: 44.957073
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 58113
Amount: 48.121980
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:34:44

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

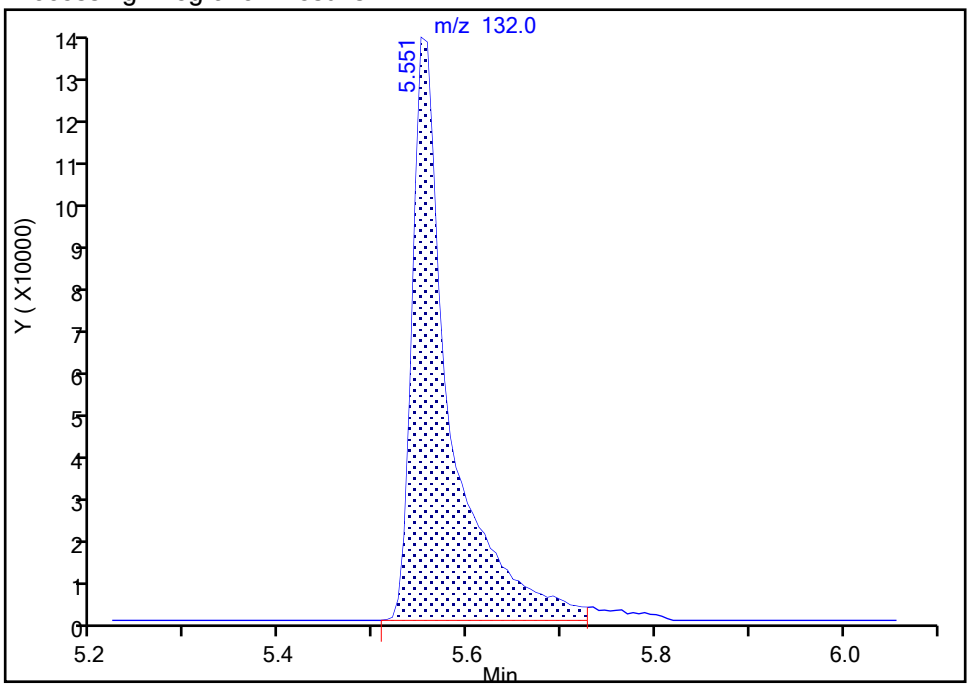
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

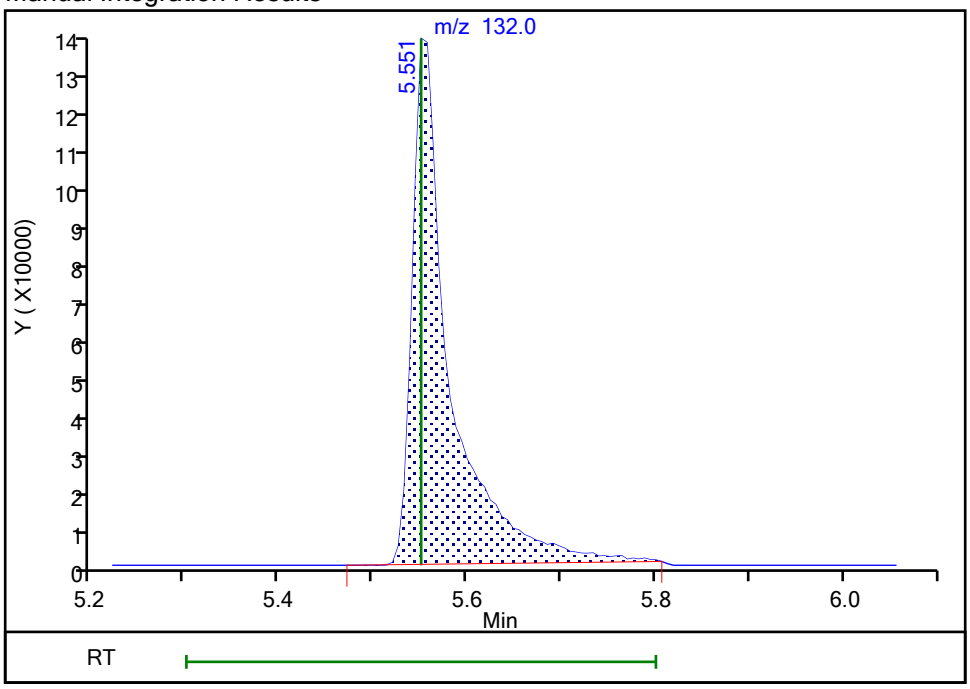
Processing Integration Results

RT: 5.55
Area: 368403
Amount: 209.5981
Amount Units: ug/l



Manual Integration Results

RT: 5.55
Area: 367660
Amount: 209.1754
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:35:46

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

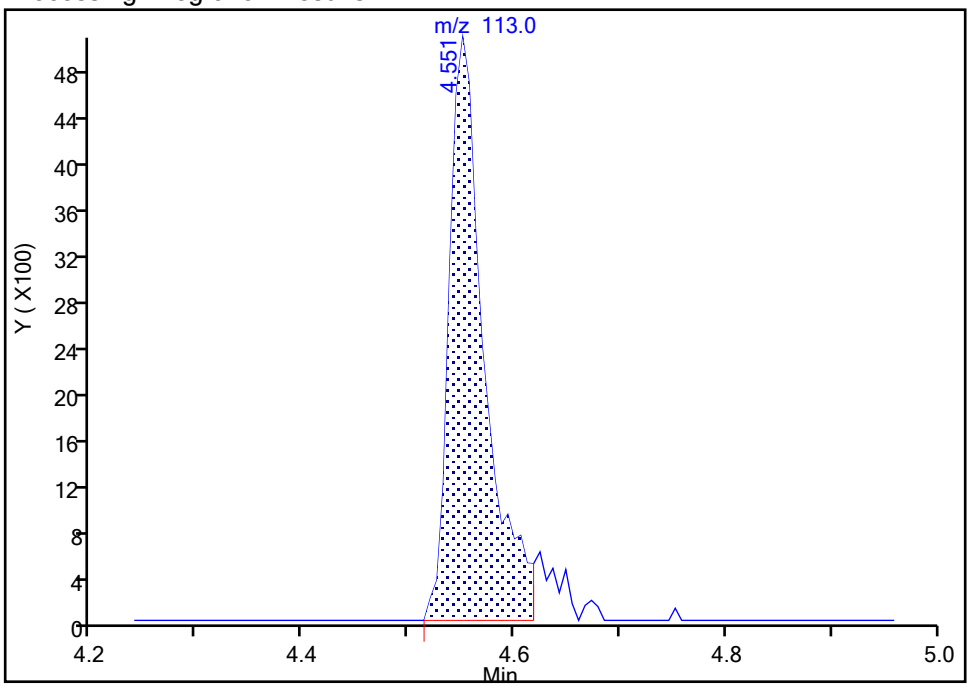
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

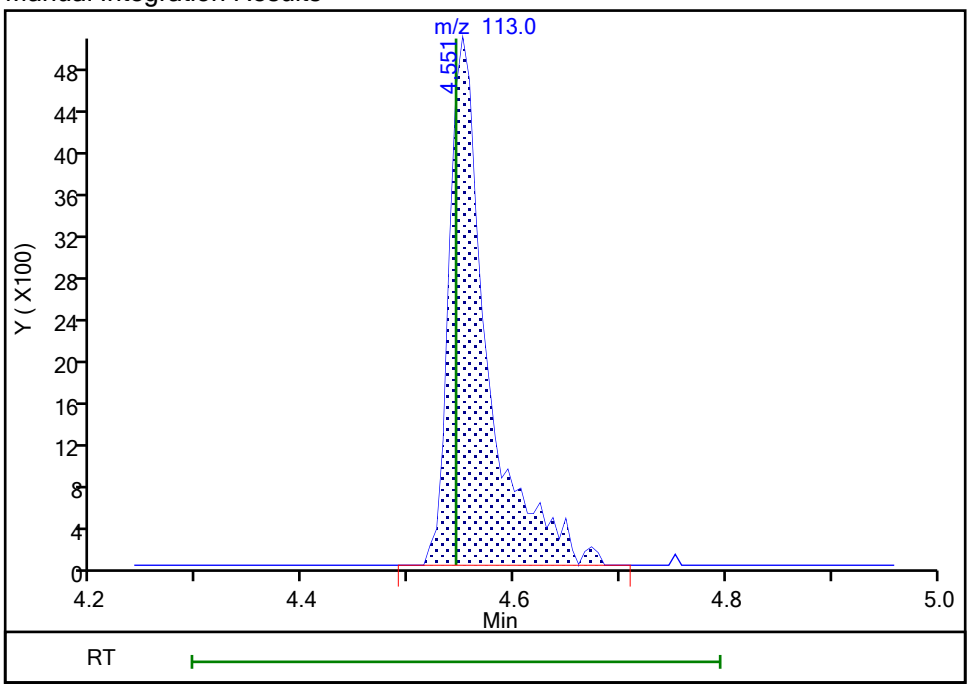
Processing Integration Results

RT: 4.55
Area: 11823
Amount: 49.980441
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 12795
Amount: 54.089465
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:34:40

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

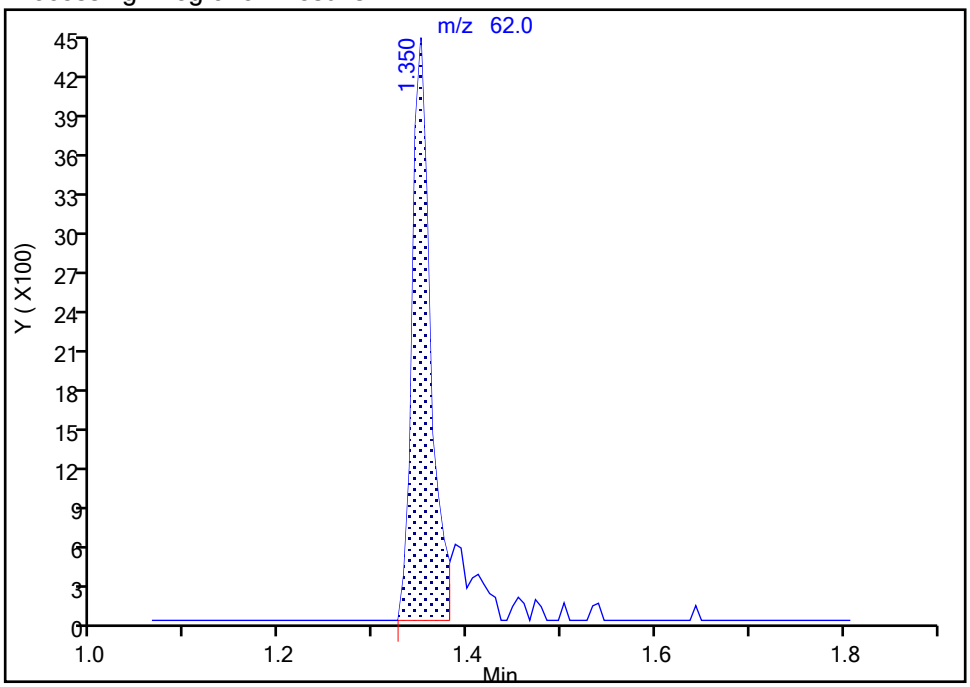
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

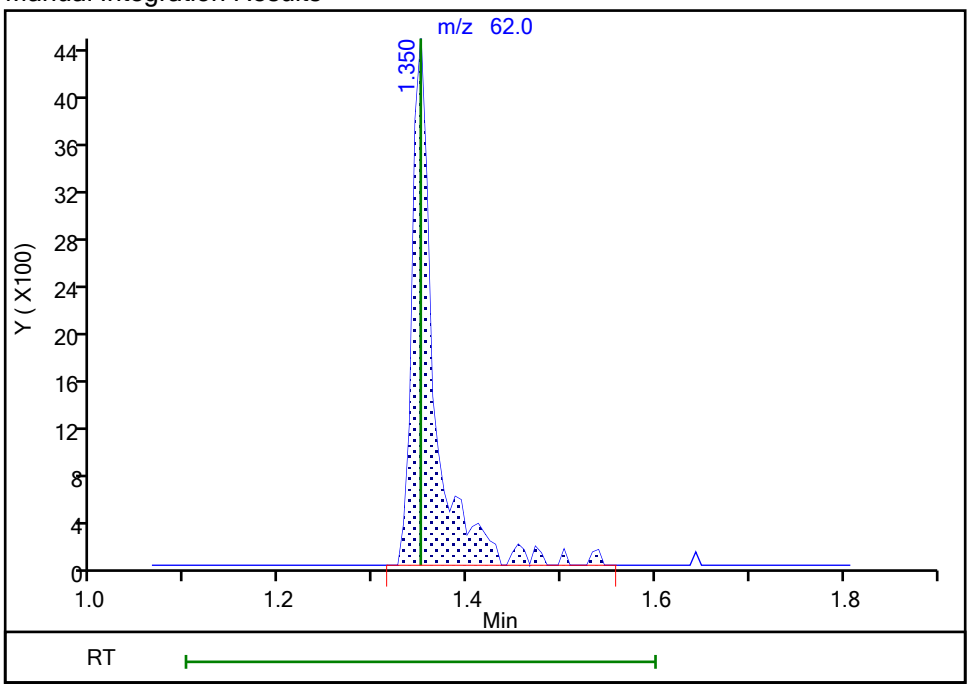
Processing Integration Results

RT: 1.35
Area: 6032
Amount: 2.087054
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 7411
Amount: 2.564184
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:35:00

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

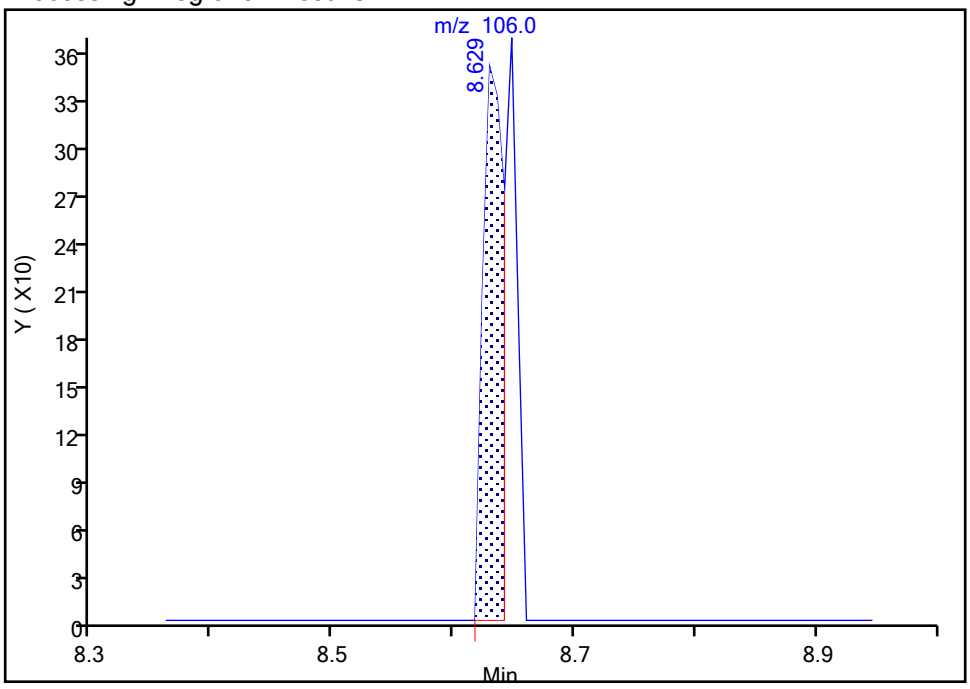
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 2

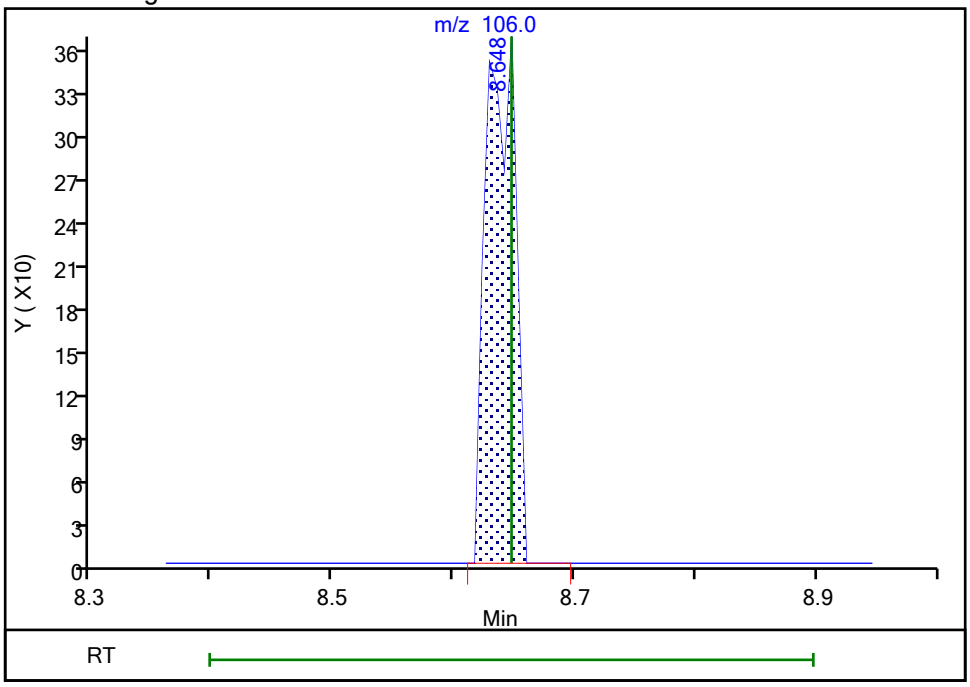
Processing Integration Results

RT: 8.63
Area: 417
Amount: 0.151181
Amount Units: ug/l



Manual Integration Results

RT: 8.65
Area: 612
Amount: 0.221878
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:36:11

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

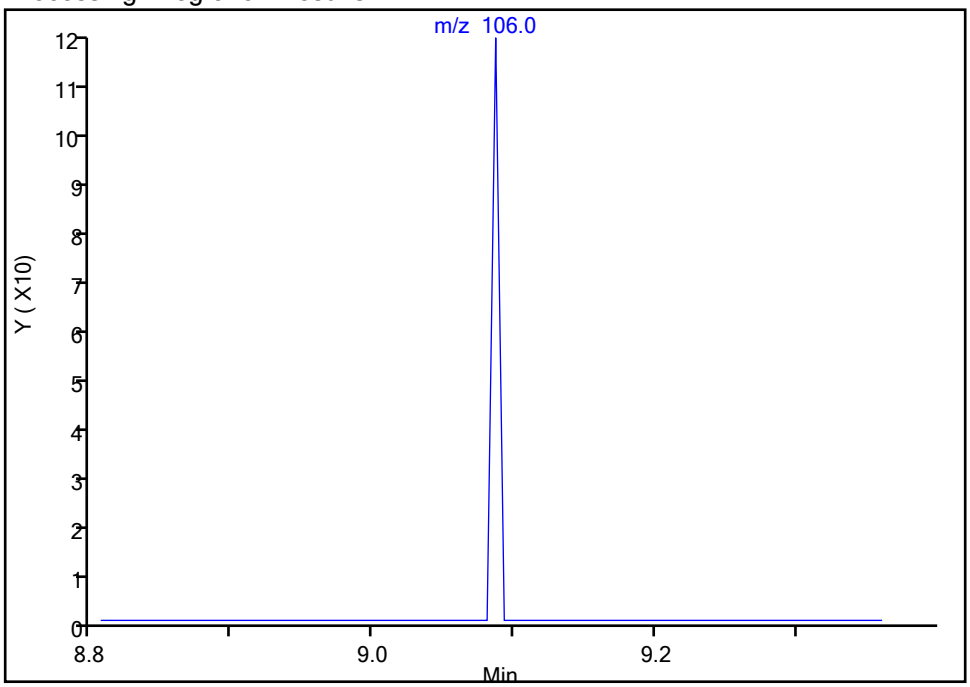
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

75 o-Xylene, CAS: 95-47-6

Signal: 2

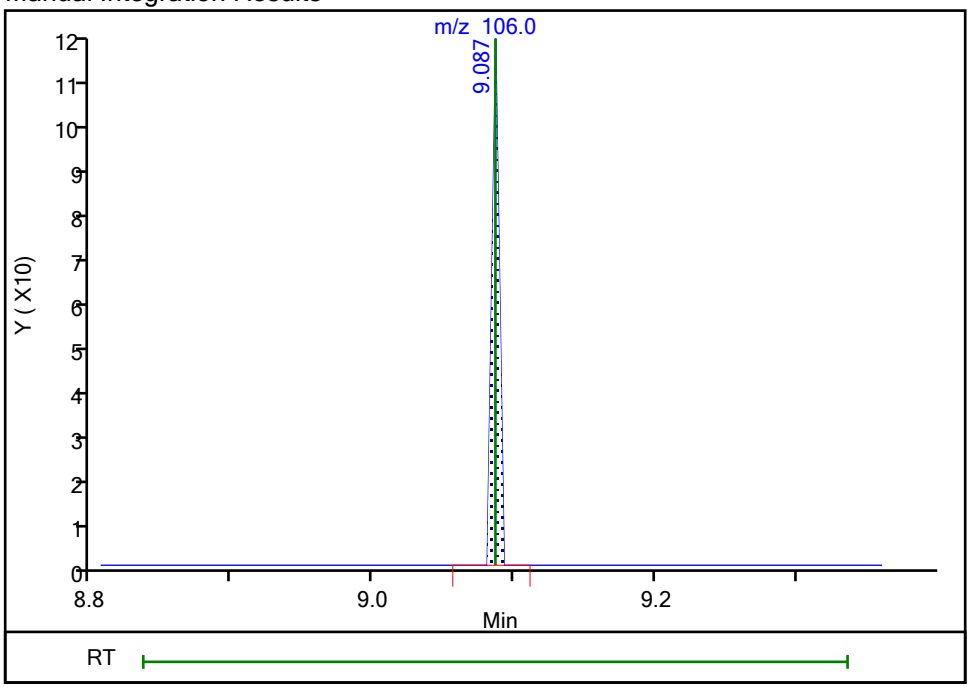
Not Detected
Expected RT: 9.09

Processing Integration Results



Manual Integration Results

RT: 9.09
Area: 44
Amount: 0.016923
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:36:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

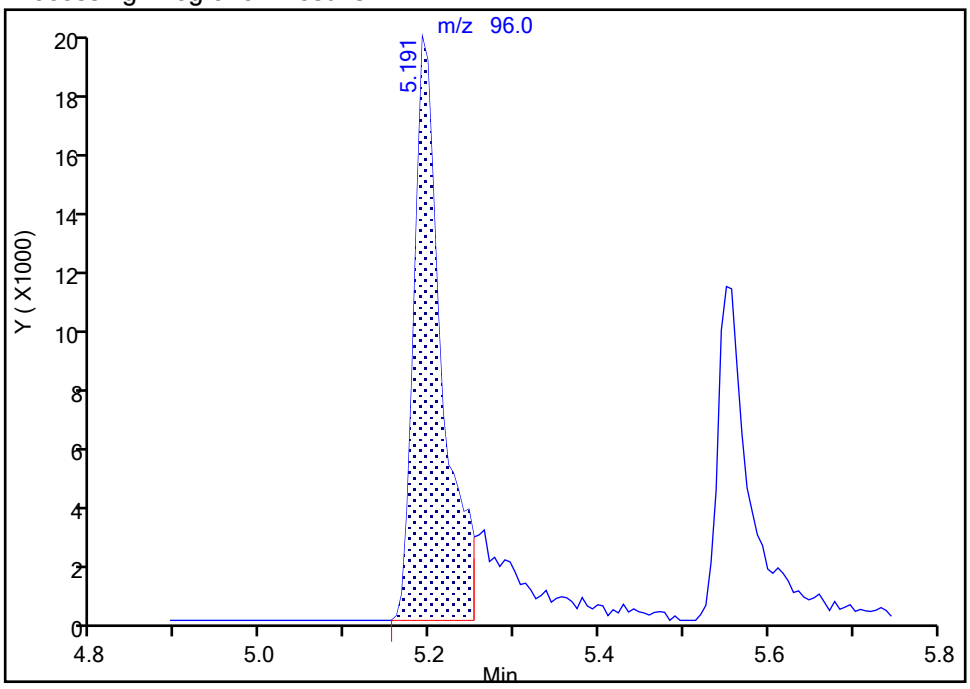
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

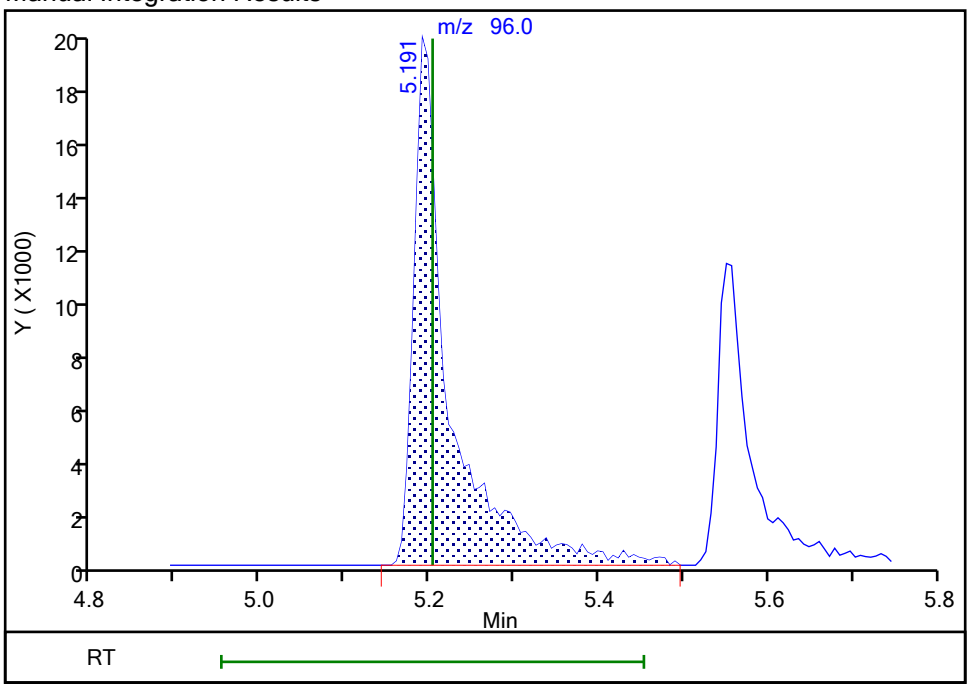
Processing Integration Results

RT: 5.19
Area: 44559
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 56768
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:34:31

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

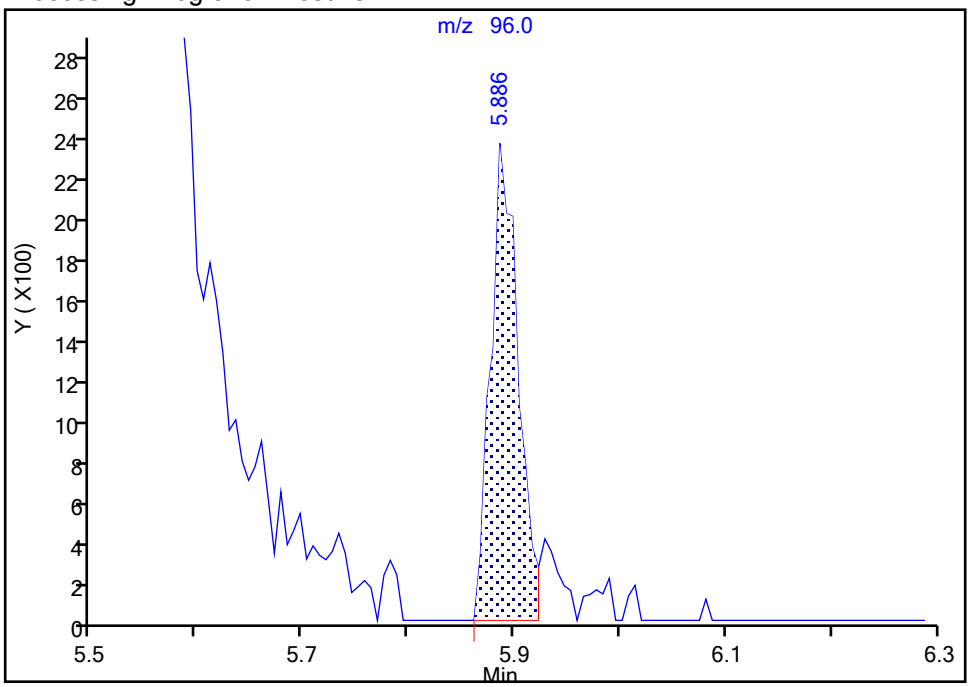
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4293.D		
Injection Date:	19-Nov-2020 08:26:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-23	Lab Sample ID:	310-140187-23
Client ID:	GW-111220-BE-040		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

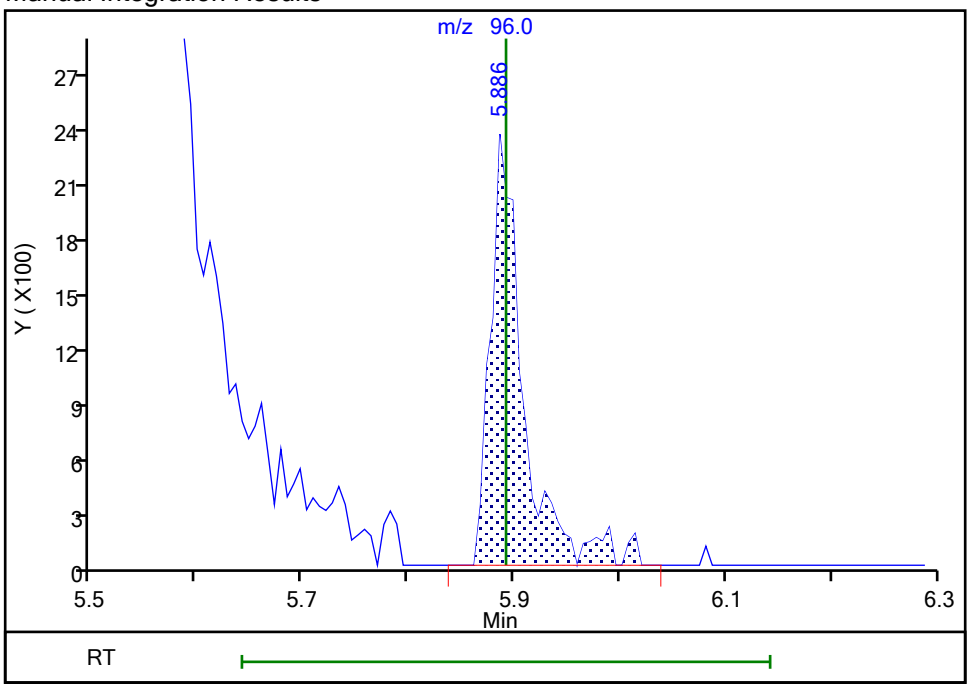
Processing Integration Results

RT: 5.89
Area: 4192
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5034
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:34:35

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-041 Lab Sample ID: 240-140187-24

Matrix: Water Lab File ID: c8266.D

Analysis Method: 8260D Date Collected: 11/12/2020 13:08

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 21:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	130		1.0	0.22
75-35-4	1,1-Dichloroethene	19		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	3.8		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	150		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-041 Lab Sample ID: 240-140187-24

Matrix: Water Lab File ID: c8266.D

Analysis Method: 8260D Date Collected: 11/12/2020 13:08

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 21:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	107		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D
Lims ID: 240-140187-A-24
Client ID: GW-111220-BE-041
Sample Type: Client
Inject. Date: 18-Nov-2020 21:12:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:46:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.391	3.409	-0.018	0	408	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	98	198076	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	96	6898	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	139907	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	61667	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.787	0.006	92	47446	53.4	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	183048	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	50527	50.1	
$ 8 BFB	95	9.920	9.920	0.000	81	69040	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	880649	241.3	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.458				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.659	2.653	0.006	95	38027	18.7	
21 112TCTFE	101		2.672				ND	
22 Acetone	43	2.727	2.714	0.013	20	585	-2.23	M
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.842	2.836	0.006	73	1588	0.2633	Ma
105 Isopropyl alcohol	45		2.885				ND	U
118 Acetonitrile	40		2.958				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.385	0.006	94	340142	146.3	
29 Methyl tert-butyl ether	73		3.397				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	98	559854	128.4	
33 Vinyl acetate	86		3.848				ND	U
34 2-Chloro-1,3-butadiene	53		3.873				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	85	9185226	3453.7	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.421				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	35	322	0.0862	
47 Cyclohexane	56		4.860				ND	
48 Carbon tetrachloride	117		4.964				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62		5.171				ND	
50 Benzene	78	5.177	5.177	0.000	99	38898	3.80	
116 n-Butanol	56		5.293				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.811	5.805	0.006	97	3825899	1462.3	E
117 Ethyl acrylate	55		5.933				ND	
114 Methylcyclohexane	83		6.012				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
57 Methyl methacrylate	69		6.165				ND	
115 1,4-Dioxane	58		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92	7.116	7.116	0.000	97	2650	0.3807	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	93	1142	0.0930	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	94	928	0.1941	
75 o-Xylene	106	9.329	9.335	-0.006	88	414	0.0910	a
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105	10.890	10.896	-0.006	89	721	0.0741	a
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.389				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.974	13.980	-0.006	91	1910	0.3726	a
99 1,2,3-Trichlorobenzene	180		14.279				ND	
139 C6-C12	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		3600.1	E
S 100 Xylenes, Total	1				0		0.2851	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

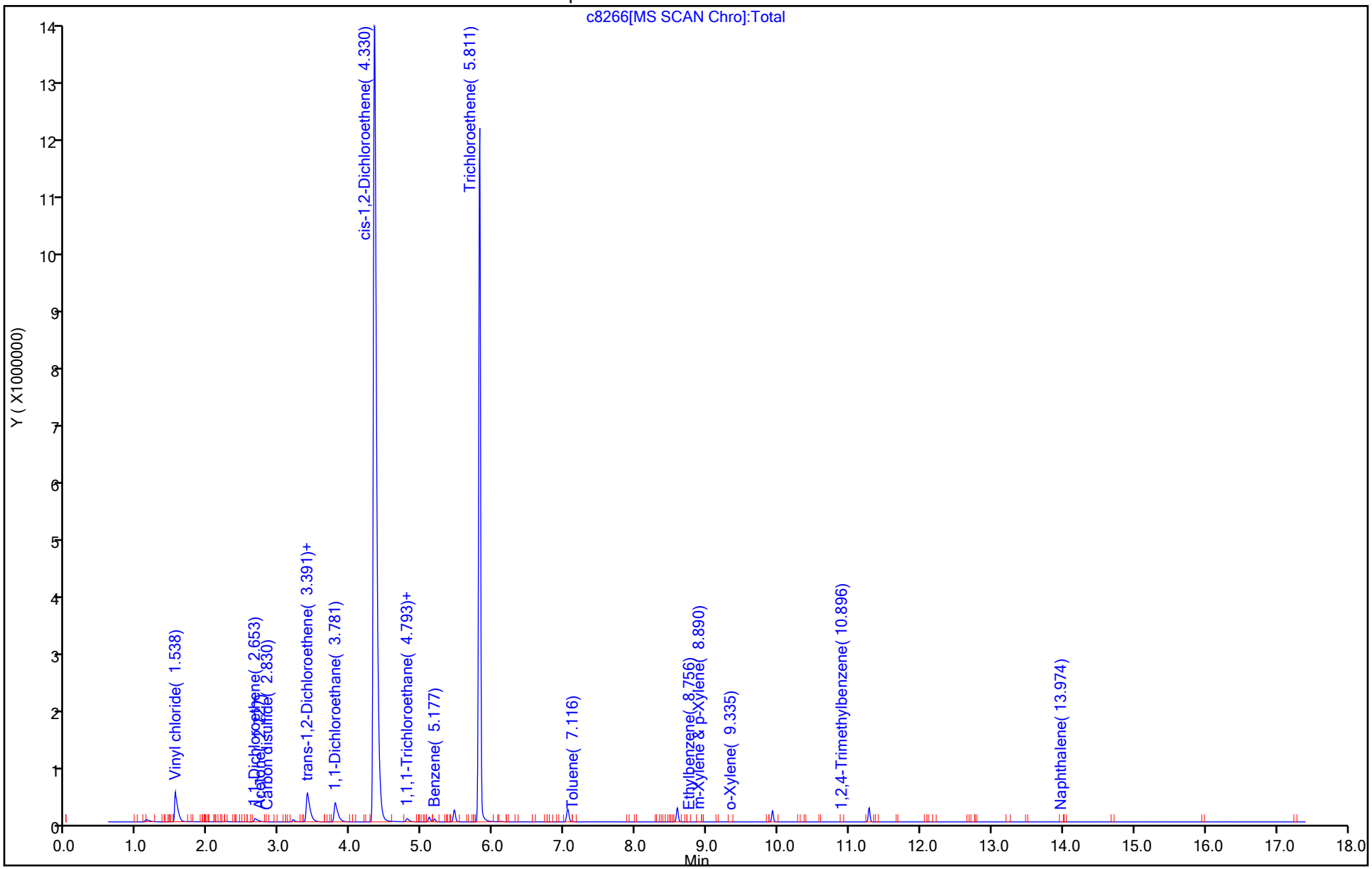
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 11:16:20 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24	Worklist Smp#:	12
Client ID:	GW-111220-BE-041				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D
Lims ID: 240-140187-A-24
Client ID: GW-111220-BE-041
Sample Type: Client
Inject. Date: 18-Nov-2020 21:12:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-012
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:46:16

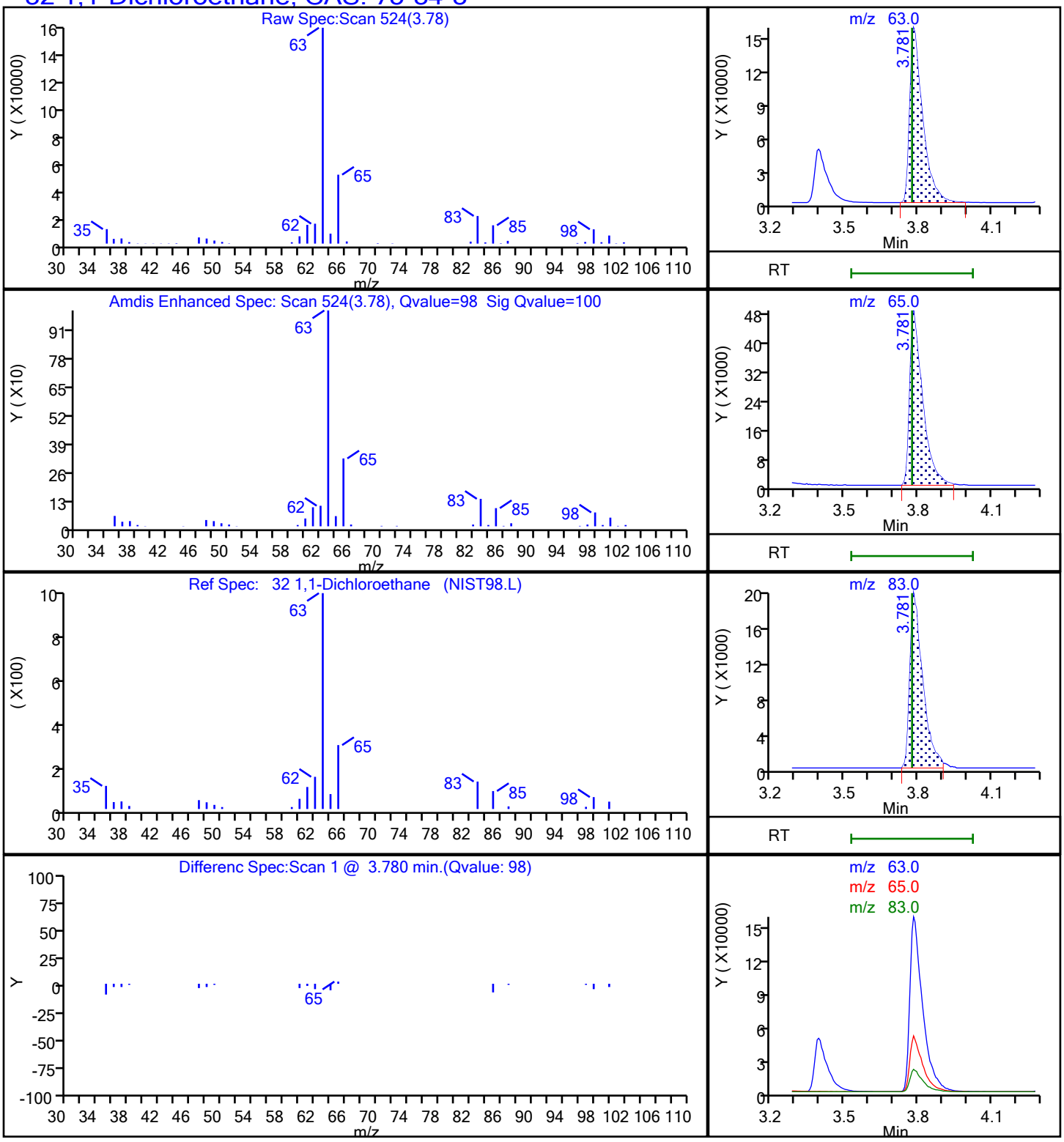
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.4	106.89
$ 6 Toluene-d8 (Surr)	50.0	51.0	102.06
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.1	100.16

Report Date: 19-Nov-2020 11:16:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

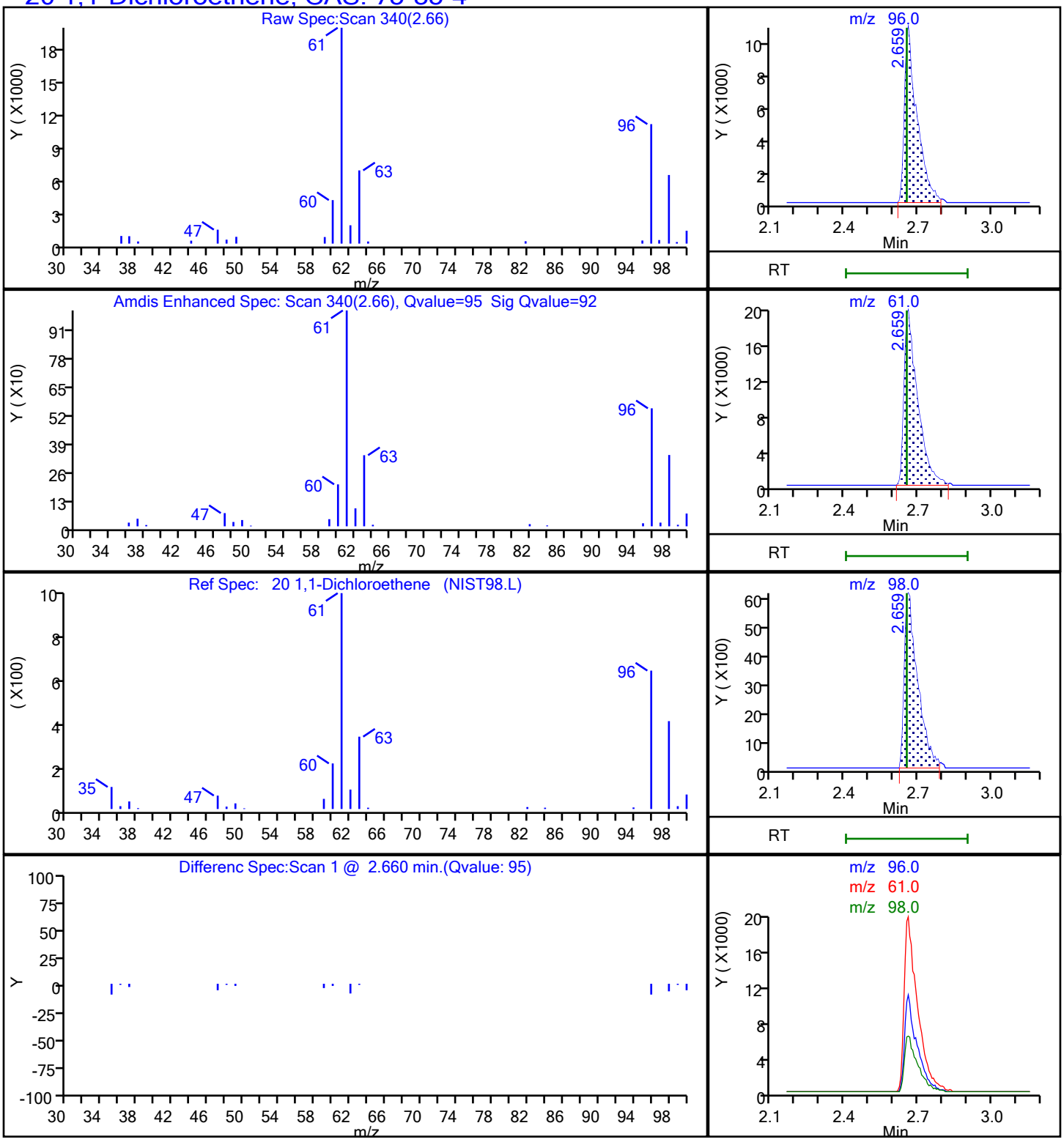


Report Date: 19-Nov-2020 11:16:20 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

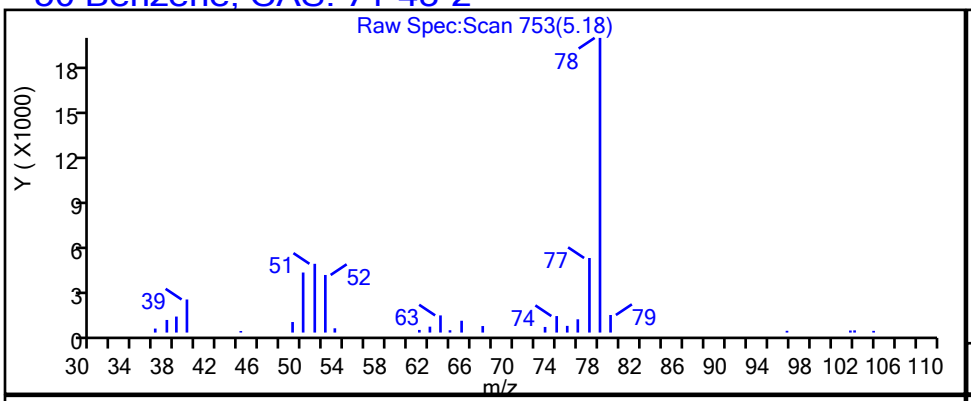


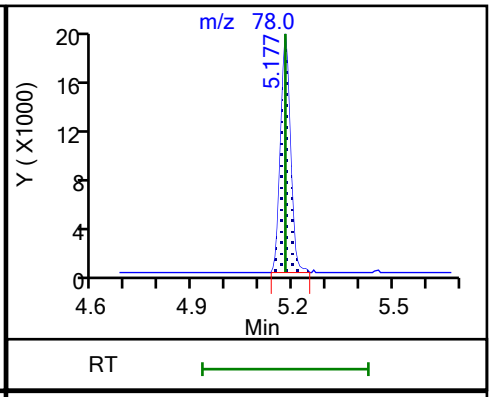
Report Date: 19-Nov-2020 11:16:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

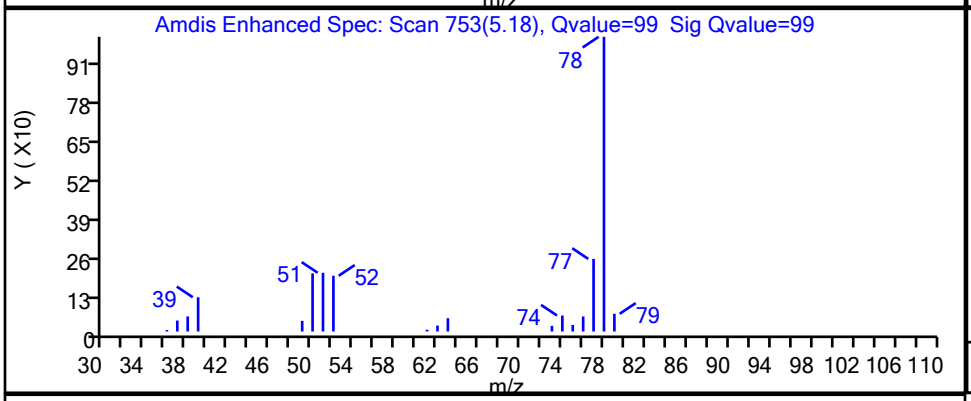
Eurofins TestAmerica, Cedar Falls

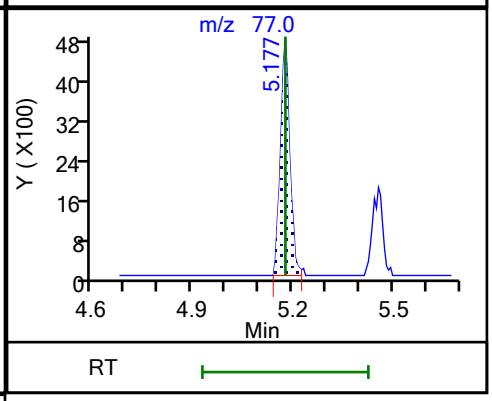
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

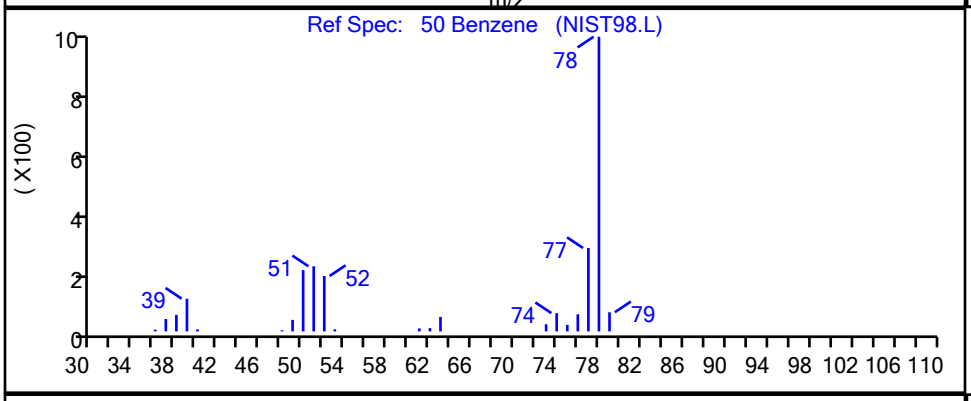
50 Benzene, CAS: 71-43-2

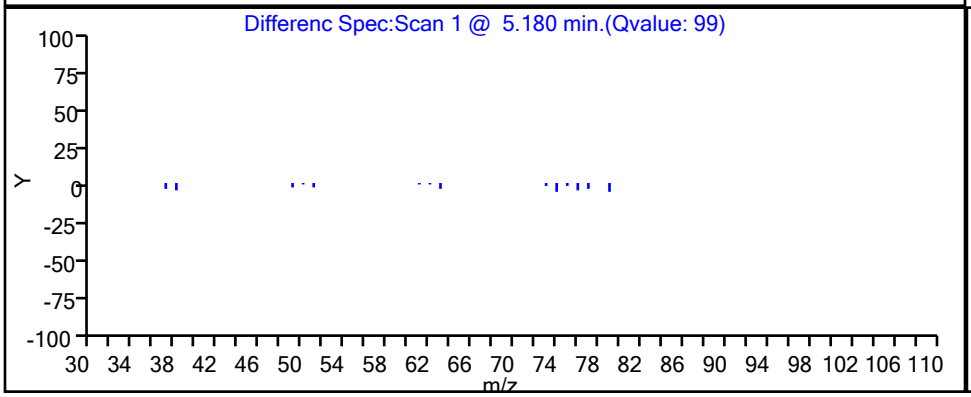


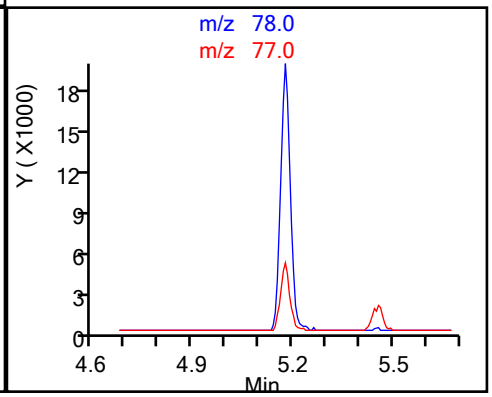










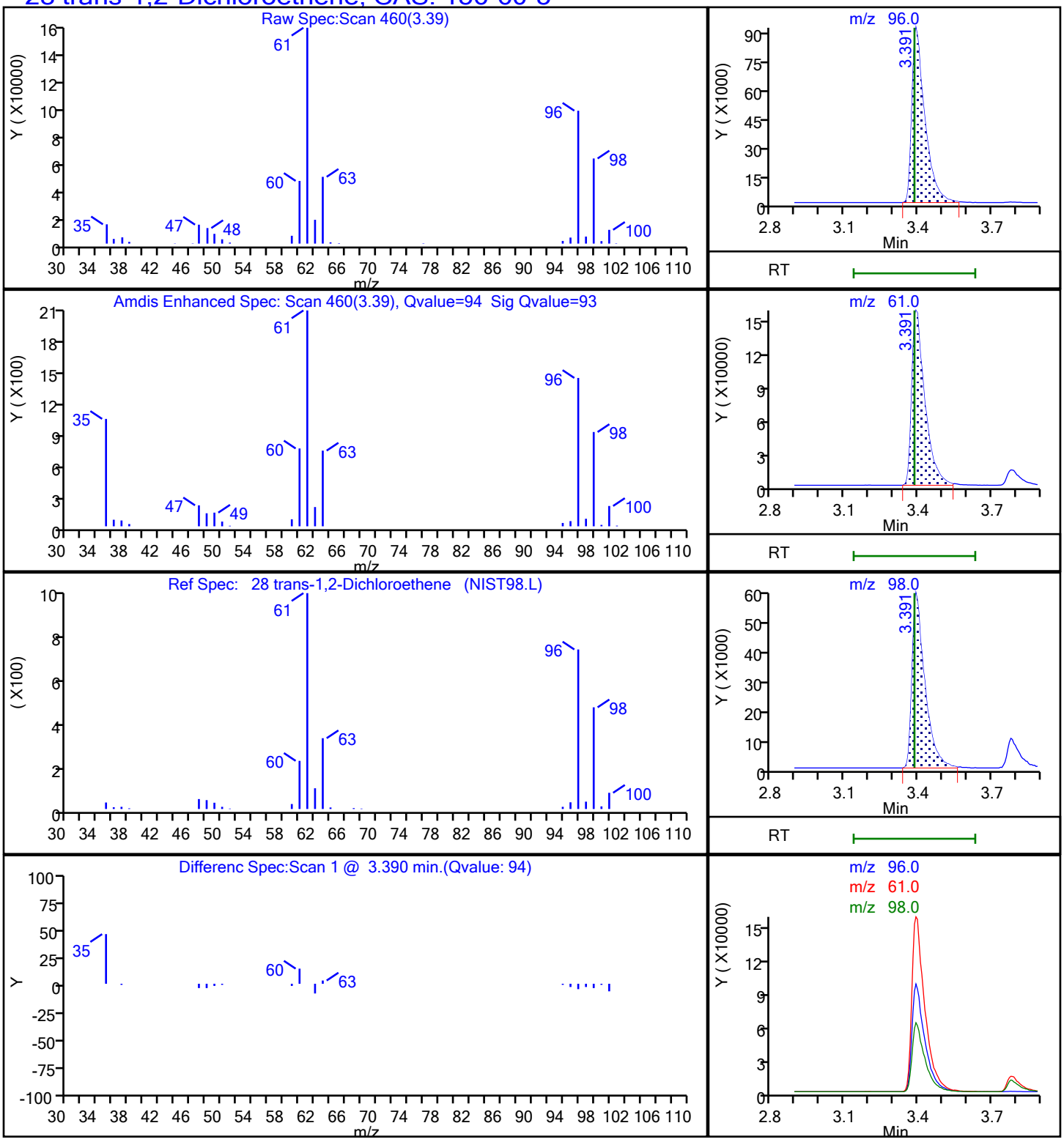


Report Date: 19-Nov-2020 11:16:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

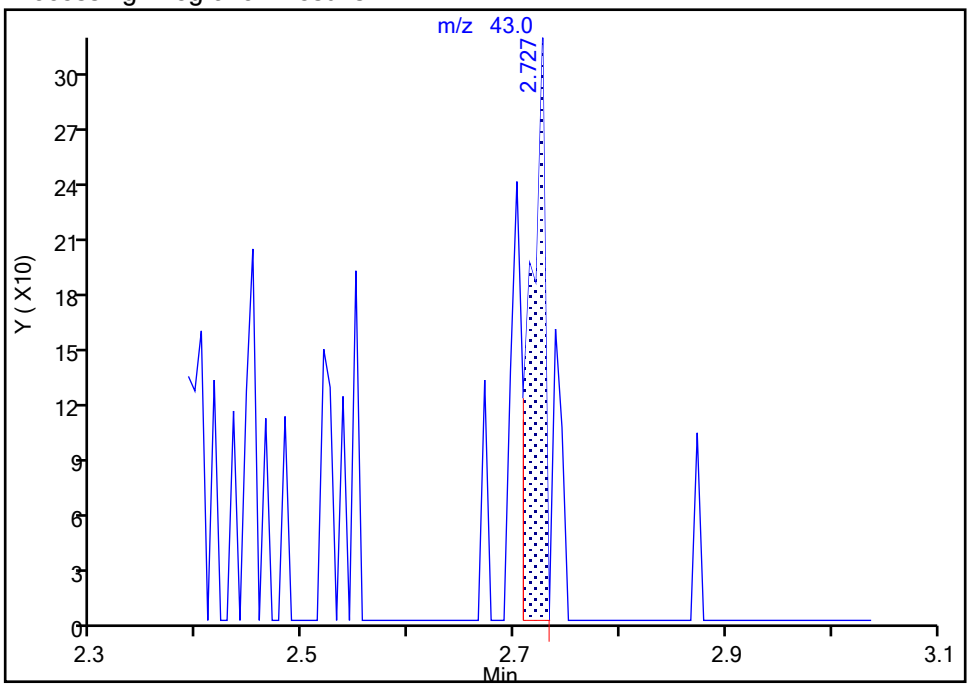
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

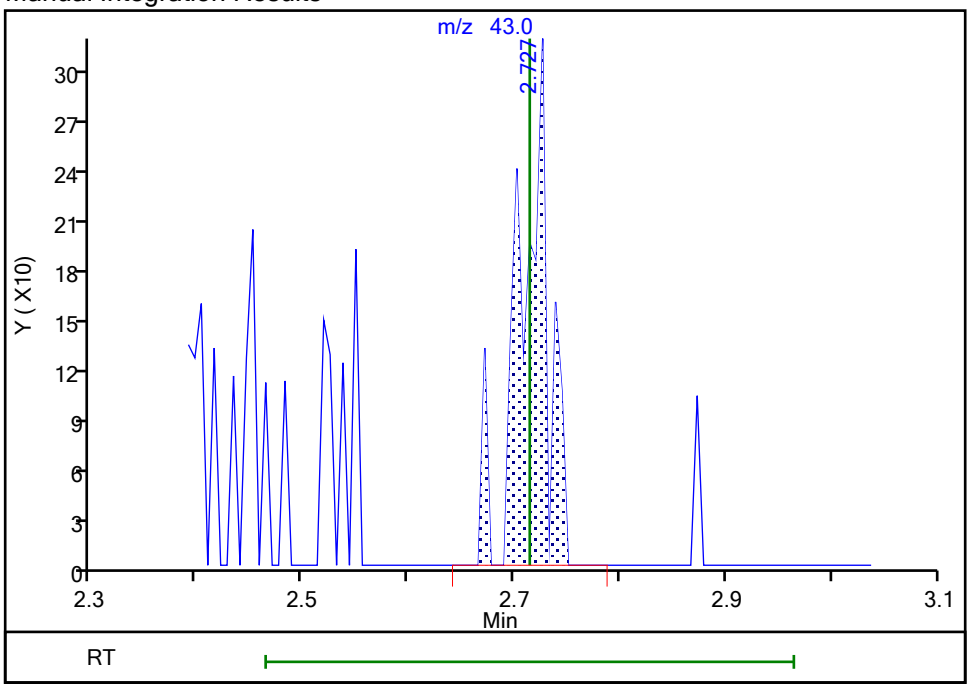
Processing Integration Results

RT: 2.73
Area: 301
Amount: -2.793393
Amount Units: ug/l



Manual Integration Results

RT: 2.73
Area: 585
Amount: -2.227322
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:45:43

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

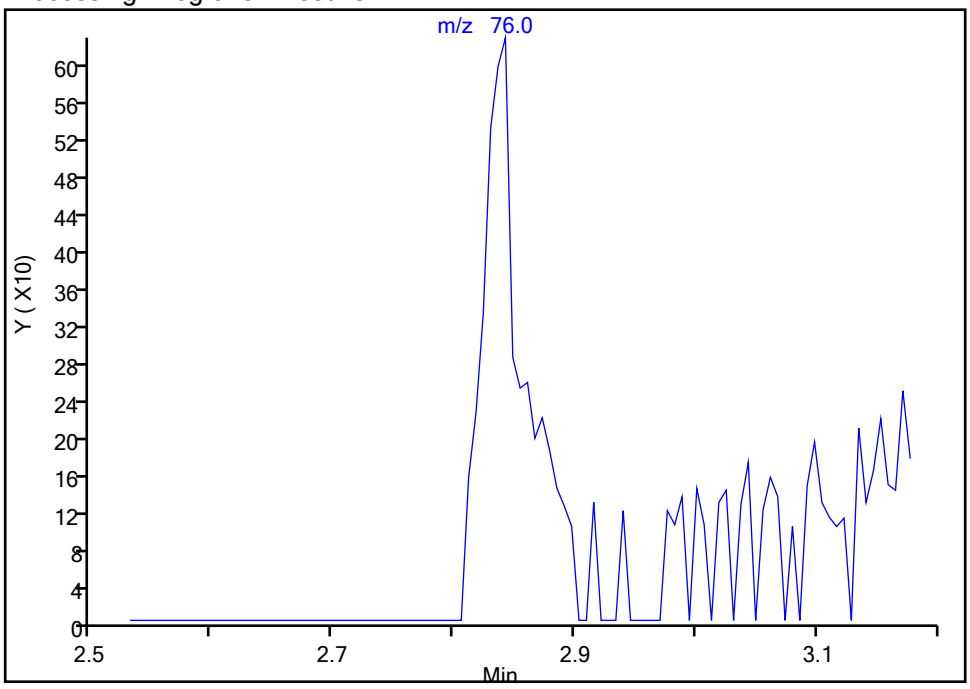
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

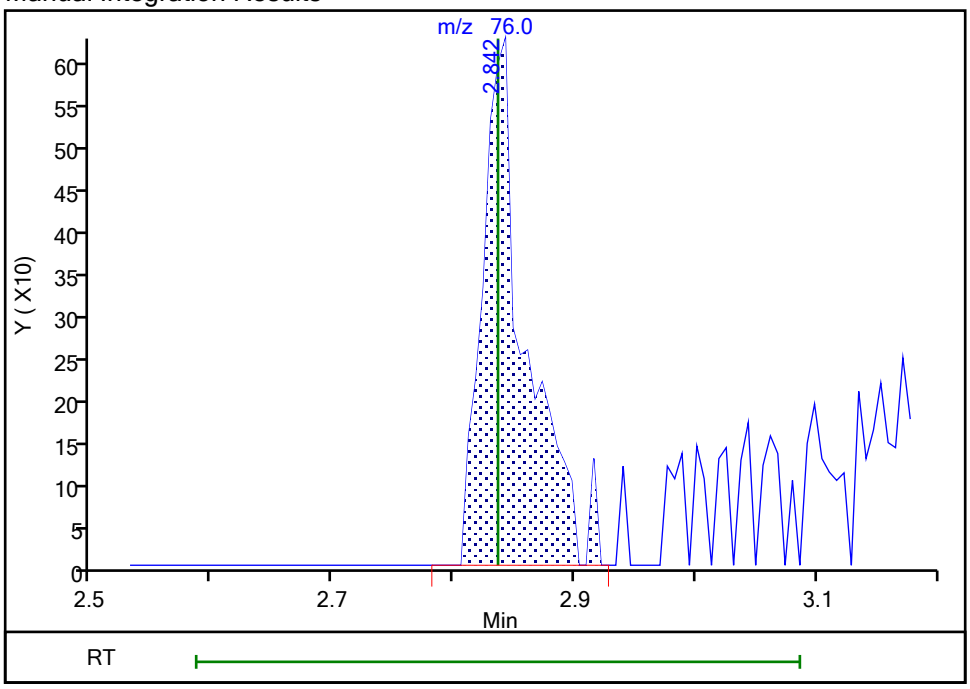
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 1588
Amount: 0.263254
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:45:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

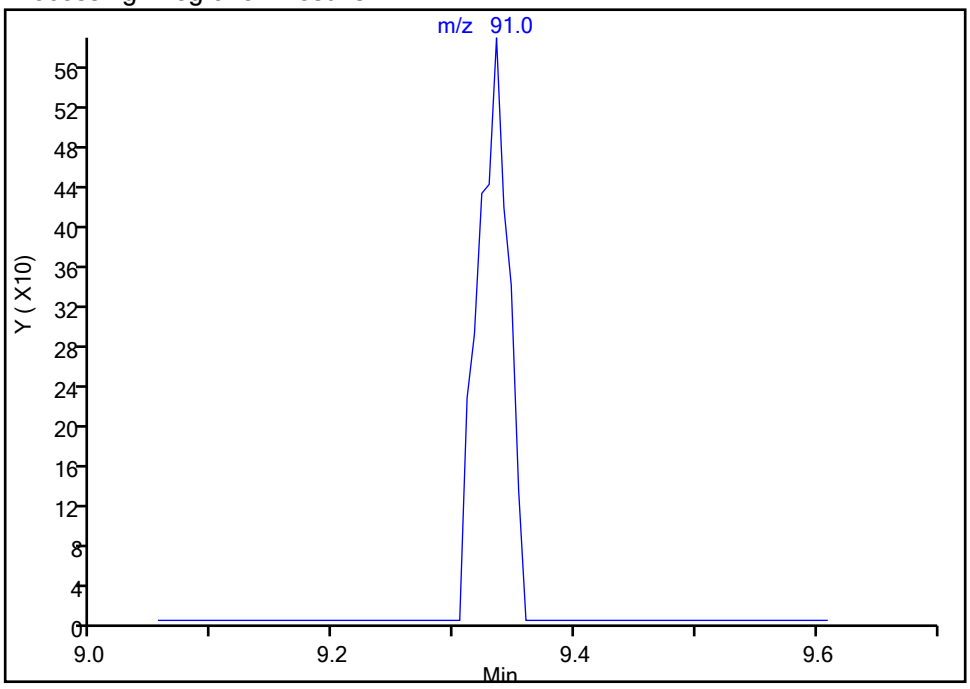
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

75 o-Xylene, CAS: 95-47-6

Signal: 1

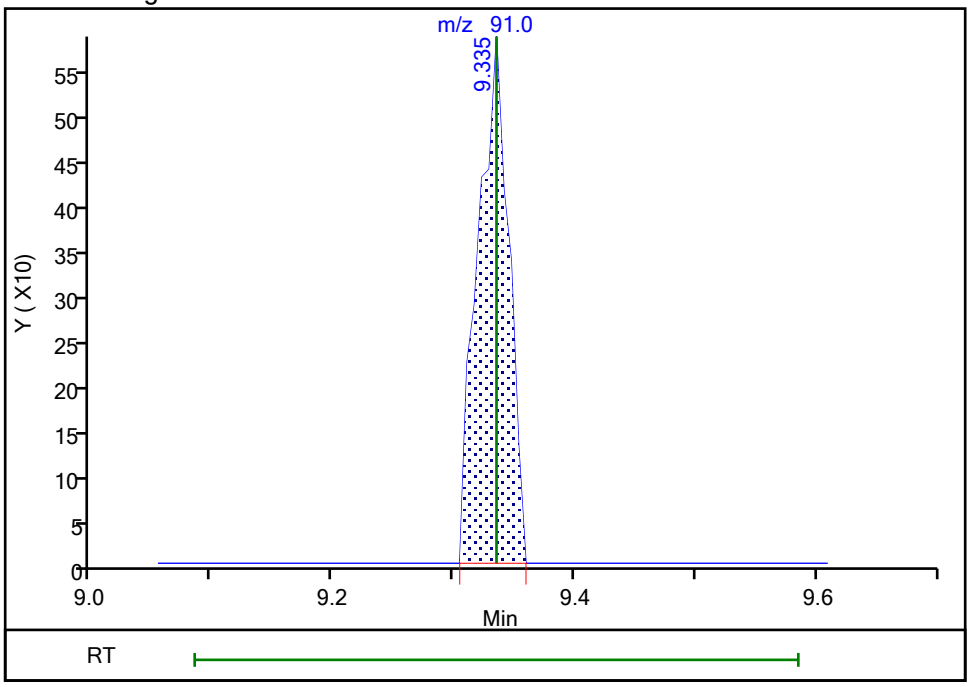
Not Detected
Expected RT: 9.33

Processing Integration Results



Manual Integration Results

RT: 9.34
Area: 1039
Amount: 0.090990
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:44:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

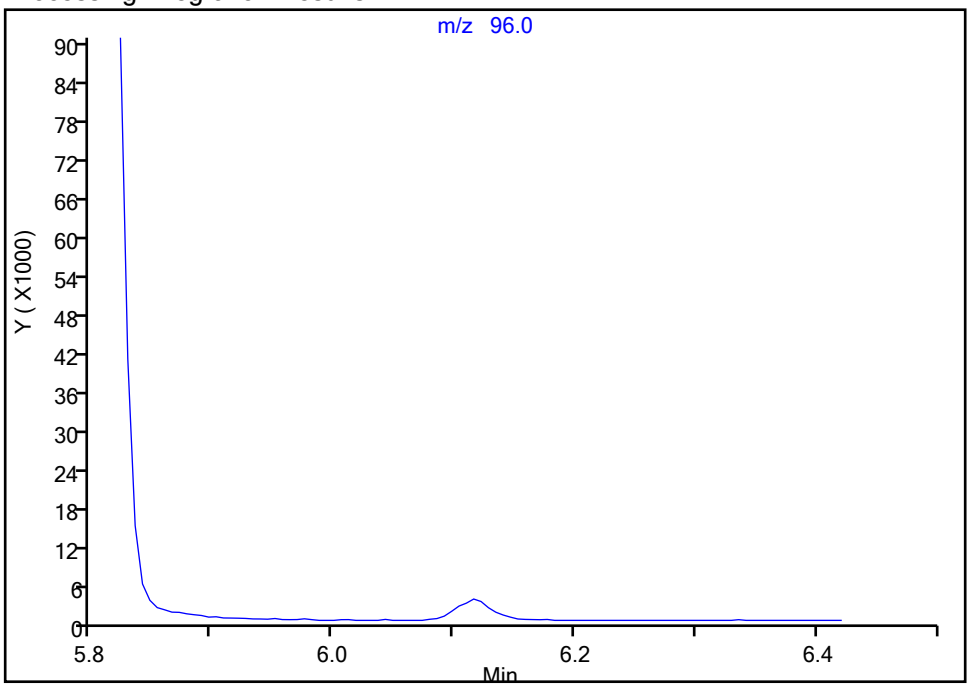
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8266.D				
Injection Date:	18-Nov-2020 21:12:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:	sjn	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

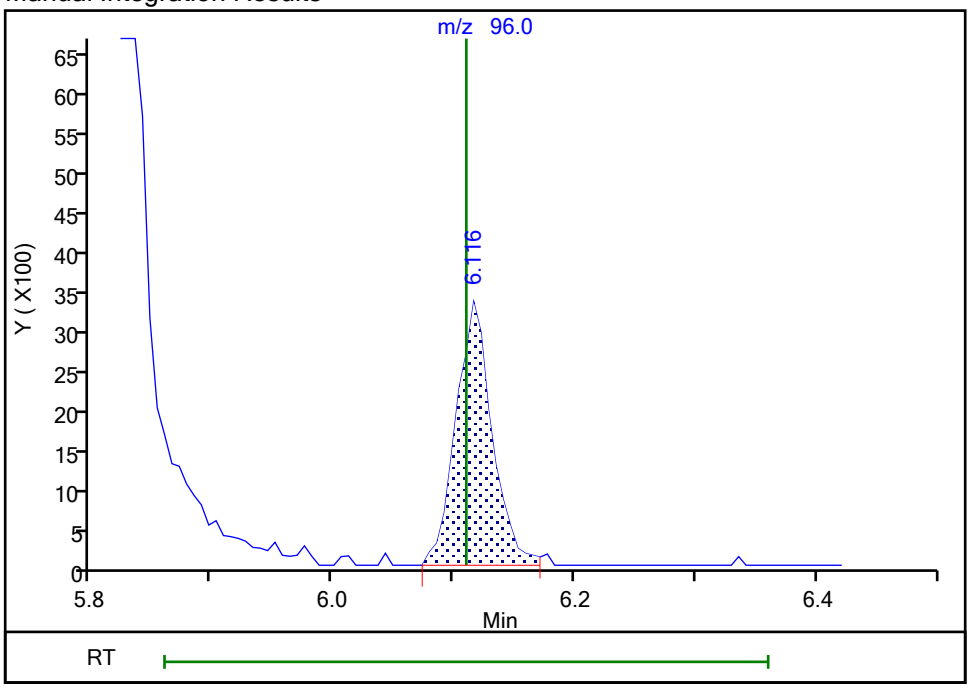
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 6898
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:46:11
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-041 Lab Sample ID: 240-140187-24

Matrix: Water Lab File ID: H4297.D

Analysis Method: 8260D Date Collected: 11/12/2020 13:08

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 09:55

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	200	U	200	40
156-59-2	cis-1,2-Dichloroethene	3000		50	11
79-01-6	Trichloroethene	1100		50	22
75-01-4	Vinyl chloride	220		50	9.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	92		79-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D
Lims ID: 240-140187-B-24
Client ID: GW-111220-BE-041
Sample Type: Client
Inject. Date: 19-Nov-2020 09:55:30 ALS Bottle#: 1 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-025
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:44:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	43752	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.868	4.868	0.000	0	17192	0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	98	57833	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	87	4207	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	92	56117	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	34663	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	91	11795	48.9	M
$ 6 Toluene-d8 (Surr)	98	6.788	6.794	-0.006	97	58171	46.1	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.684	-0.006	0	22826	51.2	
$ 8 BFB	95	9.678	9.684	-0.006	85	29359	NR	
9 Dichlorodifluoromethane	85		1.124				ND	U
10 Chloromethane	50	1.265	1.265	0.000	36	1170	0.2230	M
11 Vinyl chloride	62	1.350	1.350	0.000	97	12930	4.39	M
12 Butadiene	54		1.387				ND	
13 Bromomethane	94		1.612				ND	
14 Chloroethane	64		1.698				ND	
15 Dichlorofluoromethane	67		1.893				ND	
16 Trichlorofluoromethane	101		1.929				ND	
17 Ethanol	45		2.161				ND	
18 Ethyl ether	59		2.222				ND	
19 Acrolein	56		2.332				ND	
20 1,1-Dichloroethene	96		2.411				ND	
21 112TCTFE	101		2.423				ND	
22 Acetone	43		2.490				ND	
23 Iodomethane	142		2.533				ND	
24 Carbon disulfide	76		2.582				ND	
105 Isopropyl alcohol	45		2.673				ND	
118 Acetonitrile	40		2.740				ND	
25 3-Chloro-1-propene	76		2.758				ND	
26 Methyl acetate	43		2.807				ND	
27 Methylene Chloride	84	2.880	2.874	0.006	16	243	0.1673	a
35 2-Methyl-2-propanol	59		3.057				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124				ND	
28 trans-1,2-Dichloroethene	96	3.136	3.130	0.006	85	3448	2.33	M
29 Methyl tert-butyl ether	73		3.155				ND	
31 Hexane	57		3.392				ND	
32 1,1-Dichloroethane	63	3.527	3.526	0.001	96	7263	2.18	M
33 Vinyl acetate	86		3.618				ND	
34 2-Chloro-1,3-butadiene	53		3.618				ND	
36 Isopropyl ether	87		3.636				ND	
37 Tert-butyl ethyl ether	59		3.978				ND	
38 2,2-Dichloropropane	77		4.069				ND	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	87	106840	59.3	M
40 2-Butanone (MEK)	43		4.136				ND	
41 Propionitrile	54		4.185				ND	
104 Ethyl acetate	43		4.203				ND	
42 Chlorobromomethane	128		4.307				ND	
43 Methacrylonitrile	67		4.325				ND	
44 Tetrahydrofuran	71		4.380				ND	
45 Chloroform	83	4.392	4.398	-0.006	47	1045	0.3964	M
46 1,1,1-Trichloroethane	97		4.551				ND	
47 Cyclohexane	56		4.599				ND	
48 Carbon tetrachloride	117		4.709				ND	
49 1,1-Dichloropropene	75		4.721				ND	
50 Benzene	78		4.916				ND	
108 Isobutyl alcohol	43		4.923				ND	
51 1,2-Dichloroethane	62		4.941				ND	
116 n-Butanol	56		5.008				ND	
52 Tert-amyl methyl ether	73		5.057				ND	
53 n-Heptane	43		5.203				ND	
54 Trichloroethene	132	5.557	5.550	0.007	94	40160	22.4	M
117 Ethyl acrylate	55		5.709				ND	
114 Methylcyclohexane	83		5.733				ND	
55 1,2-Dichloropropane	63		5.776				ND	
56 Dibromomethane	93		5.886				ND	
57 Methyl methacrylate	69		5.935				ND	
115 1,4-Dioxane	58		5.935				ND	
58 Dichlorobromomethane	83		6.063				ND	
106 2-Nitropropane	43		6.306				ND	
59 2-Chloroethyl vinyl ether	63		6.398				ND	
60 cis-1,3-Dichloropropene	75		6.520				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709				ND	
62 Toluene	92	6.861	6.861	0.000	34	345	0.0906	M
63 trans-1,3-Dichloropropene	75		7.111				ND	
64 Ethyl methacrylate	69		7.239				ND	
65 1,1,2-Trichloroethane	83		7.300				ND	
66 Tetrachloroethene	166		7.434				ND	
67 1,3-Dichloropropane	76		7.477				ND	
68 2-Hexanone	43		7.599				ND	
69 Chlorodibromomethane	129	7.703	7.709	-0.006	1	184	0.2734	M
109 n-Butyl acetate	43		7.751				ND	
70 Ethylene Dibromide	107		7.818				ND	
71 Chlorobenzene	112		8.373				ND	
72 1,1,1,2-Tetrachloroethane	131		8.471				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.501	8.507	-0.006	1	588	0.0808	Ma
74 m-Xylene & p-Xylene	106	8.648	8.647	0.001	92	865	0.3003	
75 o-Xylene	106	9.080	9.086	-0.006	1	114	0.0420	M
120 Methyl n-amyl ketone TIC	1		9.100				ND	
76 Styrene	104		9.105				ND	
77 Bromoform	173		9.294				ND	
78 Isopropylbenzene	105		9.519				ND	
79 Bromobenzene	156		9.842				ND	
80 1,1,2,2-Tetrachloroethane	83		9.873				ND	
81 1,2,3-Trichloropropane	75		9.909				ND	
82 trans-1,4-Dichloro-2-butene	53		9.940				ND	
83 N-Propylbenzene	91		10.001				ND	
84 2-Chlorotoluene	91		10.080				ND	
85 4-Chlorotoluene	91		10.208				ND	
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	1	683	0.1130	M
87 tert-Butylbenzene	119		10.586				ND	
88 1,2,4-Trimethylbenzene	105	10.647	10.647	0.000	94	3372	0.6066	
89 sec-Butylbenzene	105		10.854				ND	
90 1,3-Dichlorobenzene	146		10.952				ND	
91 4-Isopropyltoluene	119		11.037				ND	
92 1,4-Dichlorobenzene	146		11.062				ND	
110 1,2,3-Trimethylbenzene	105	11.135	11.141	-0.006	1	691	-0.2700	M
113 Benzyl chloride	126		11.232				ND	
93 1,2-Dichlorobenzene	146		11.501				ND	
94 n-Butylbenzene	91		11.519				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.439				ND	
112 1,3,5-Trichlorobenzene	180		12.695				ND	
96 1,2,4-Trichlorobenzene	180		13.445				ND	
97 Hexachlorobutadiene	225		13.671				ND	
98 Naphthalene	128	13.732	13.726	0.006	90	1262	0.1881	M
99 1,2,3-Trichlorobenzene	180		14.024				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
139 C6-C12	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
137 C6-C10	1		0.000				ND	
136 n-Decane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
S 101 1,2-Dichloroethene, Total	1				0		61.6	
S 100 Xylenes, Total	1				0		0.3423	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 128 1,1-Dichloroacetone TIC	43		6.477				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

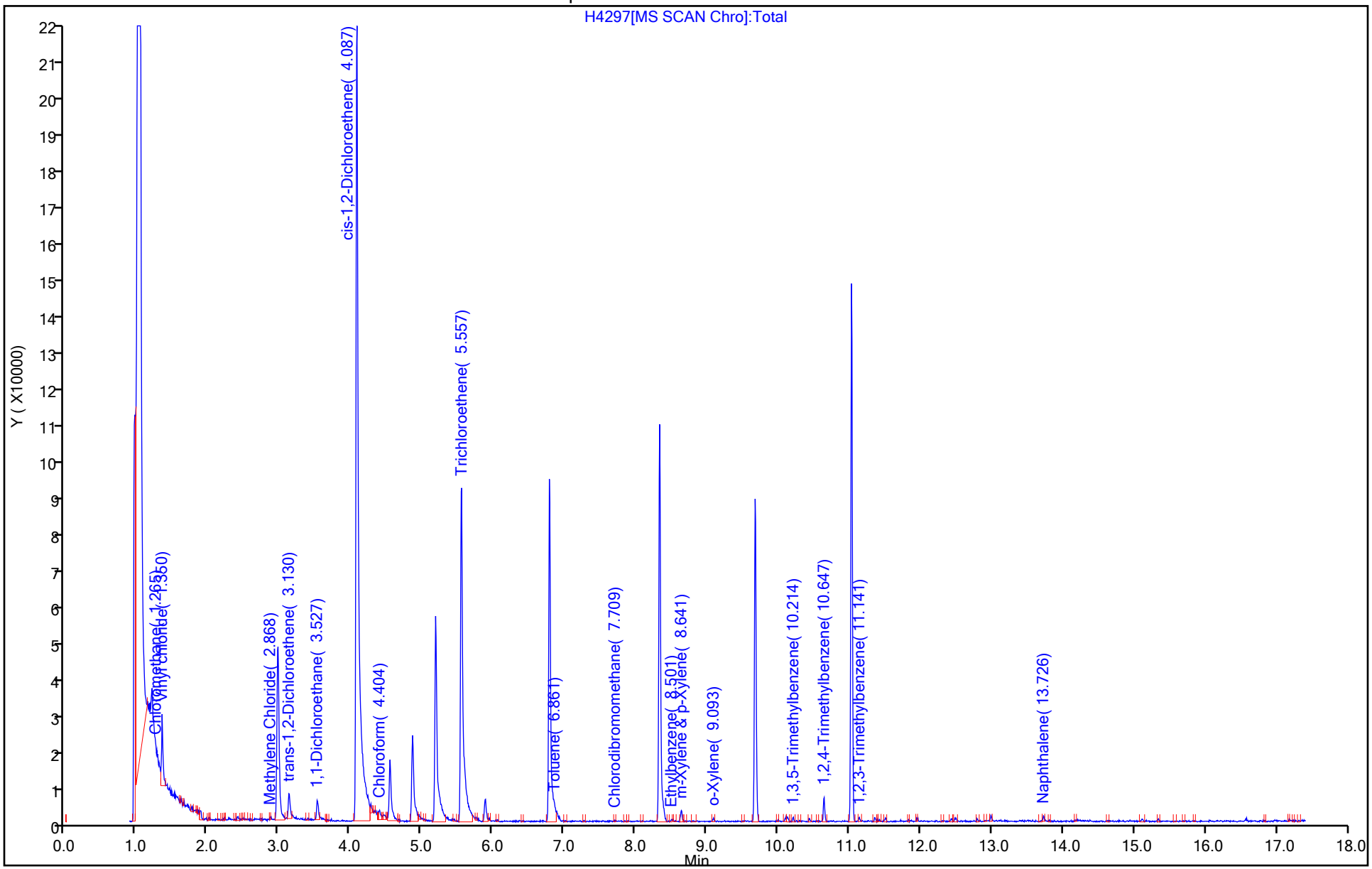
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:58:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D				
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24	Worklist Smp#:	25
Client ID:	GW-111220-BE-041				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	1
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D
Lims ID: 240-140187-B-24
Client ID: GW-111220-BE-041
Sample Type: Client
Inject. Date: 19-Nov-2020 09:55:30 ALS Bottle#: 1 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-025
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:44:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	48.9	4894.39
$ 6 Toluene-d8 (Surr)	50.0	46.1	4612.53
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.2	5117.12

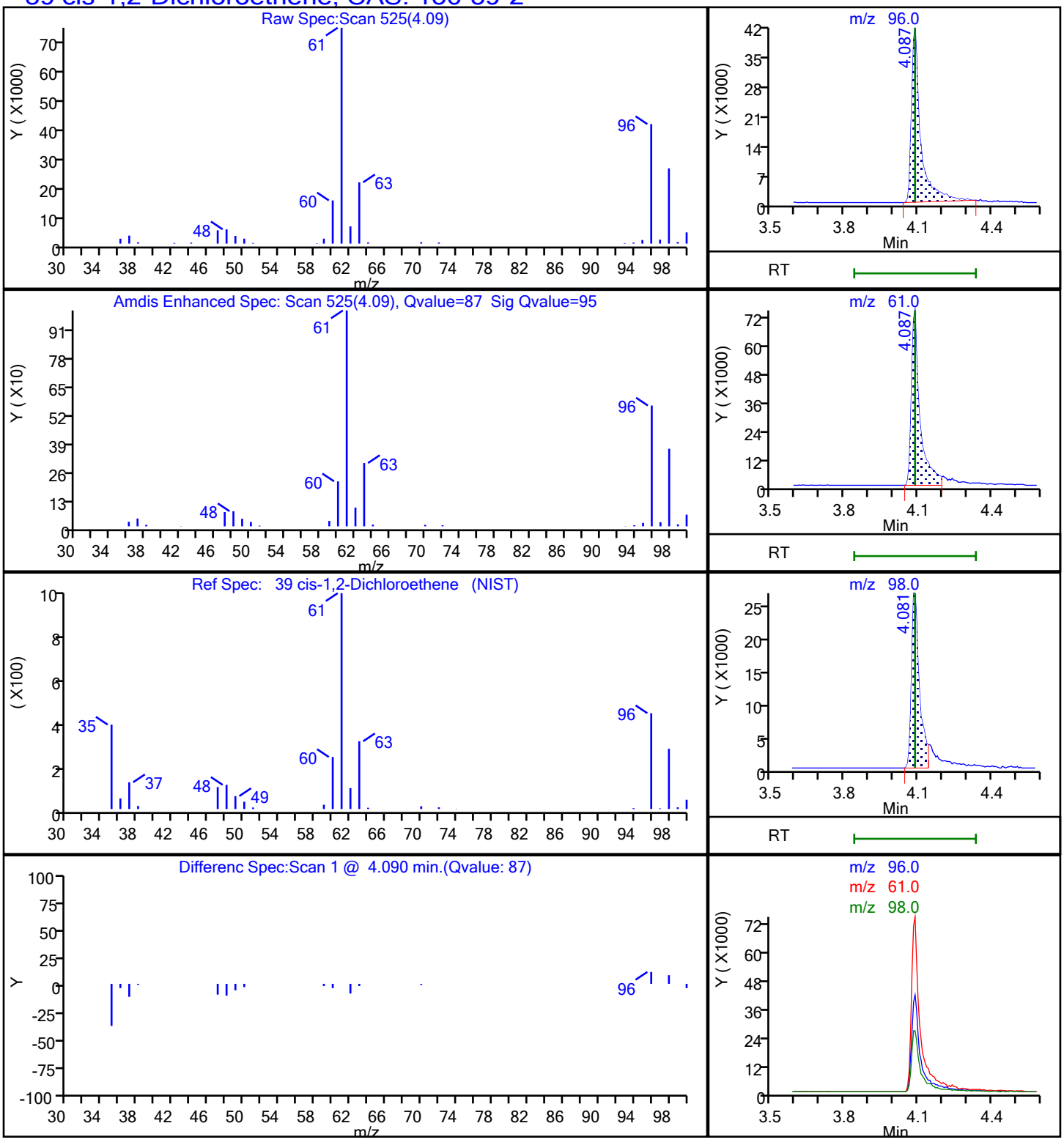
Report Date: 20-Nov-2020 06:58:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D

Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



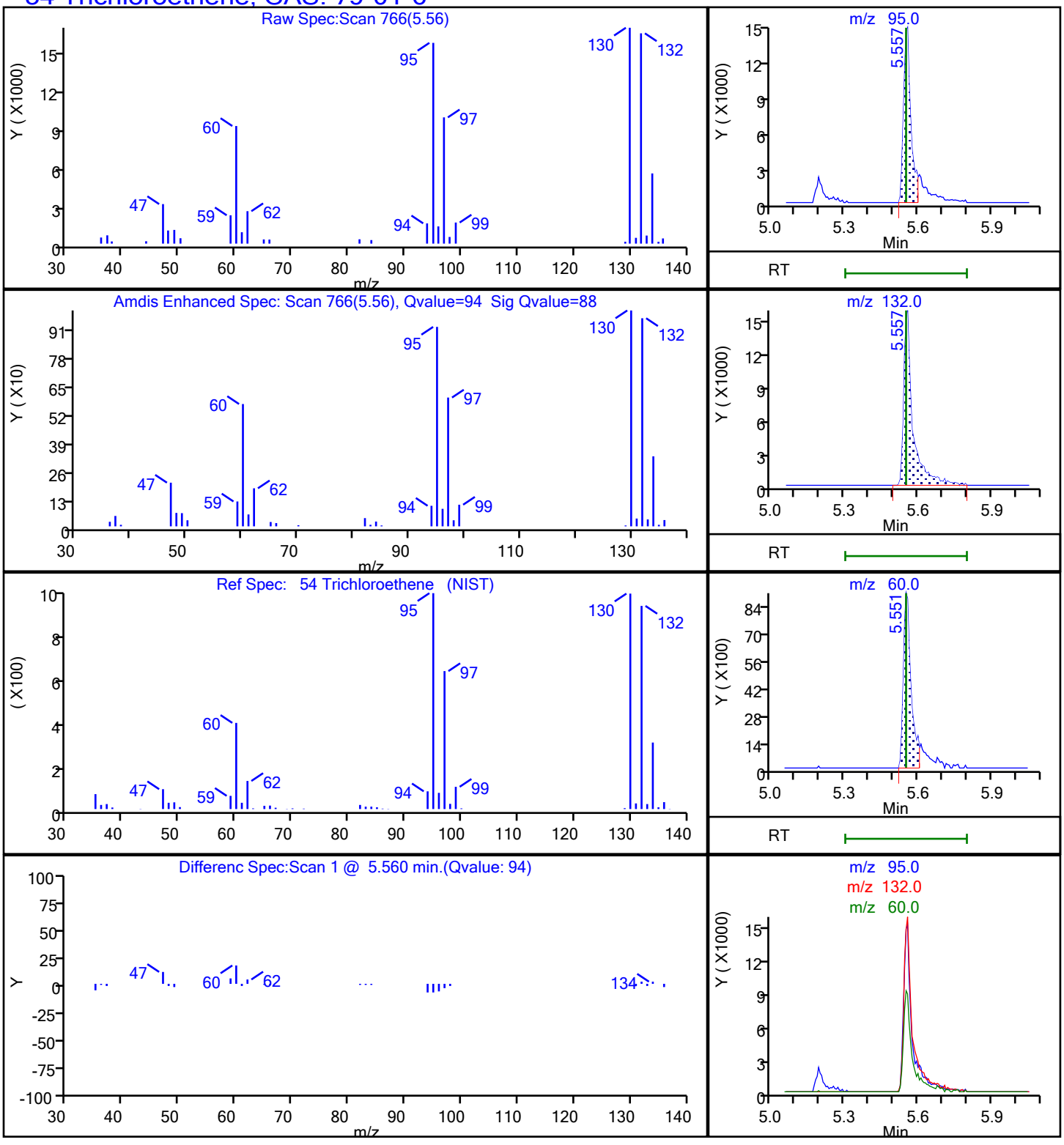
Report Date: 20-Nov-2020 06:58:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D

Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6



Report Date: 20-Nov-2020 06:58:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D

Injection Date: 19-Nov-2020 09:55:30 Instrument ID: Hobbes

Lims ID: 240-140187-B-24 Lab Sample ID: 310-140187-24

Client ID: GW-111220-BE-041

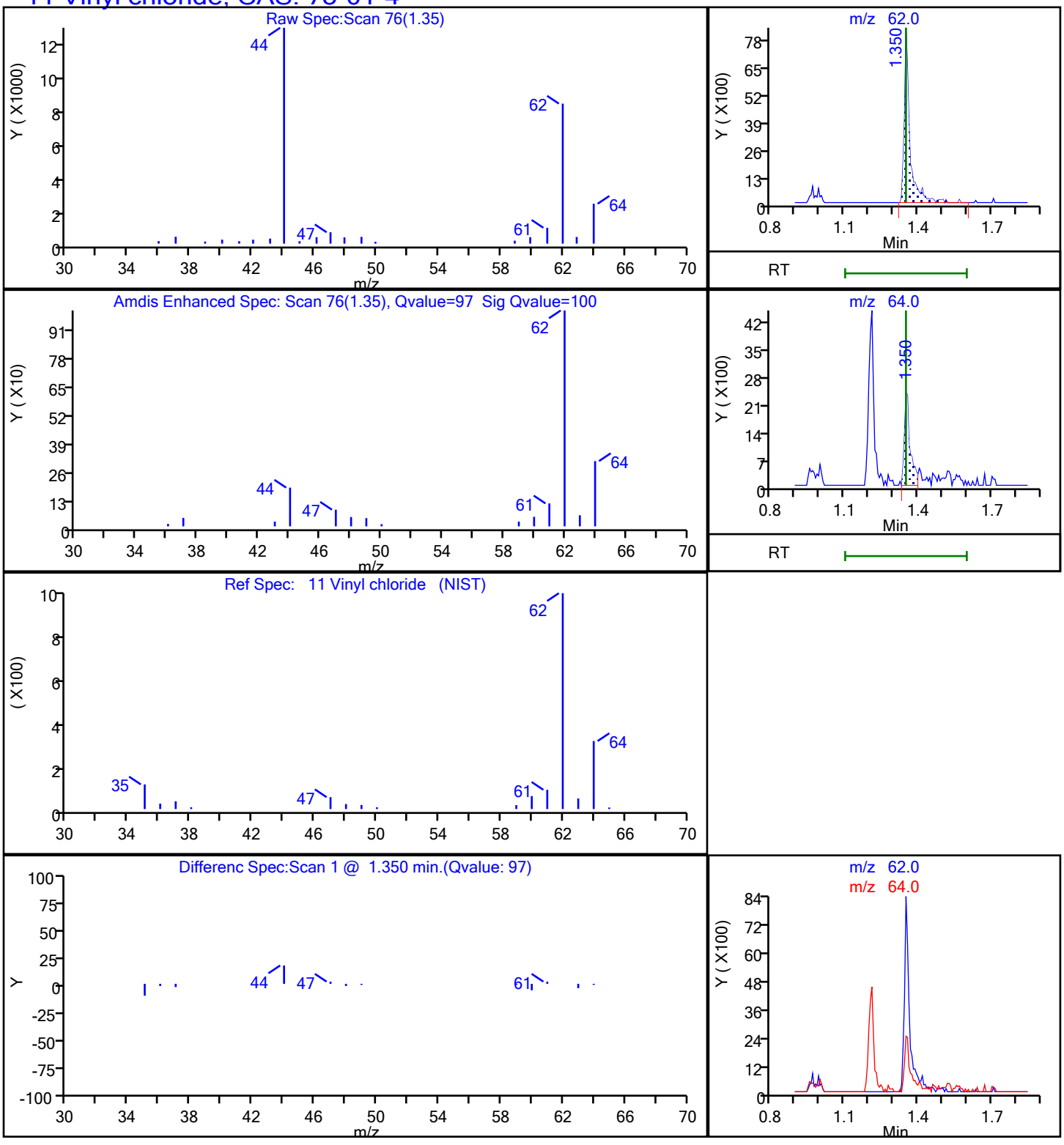
Operator ID: ALS Bottle#: 1 Worklist Smp#: 25

Purge Vol: 5.000 mL Dil. Factor: 50.0000

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

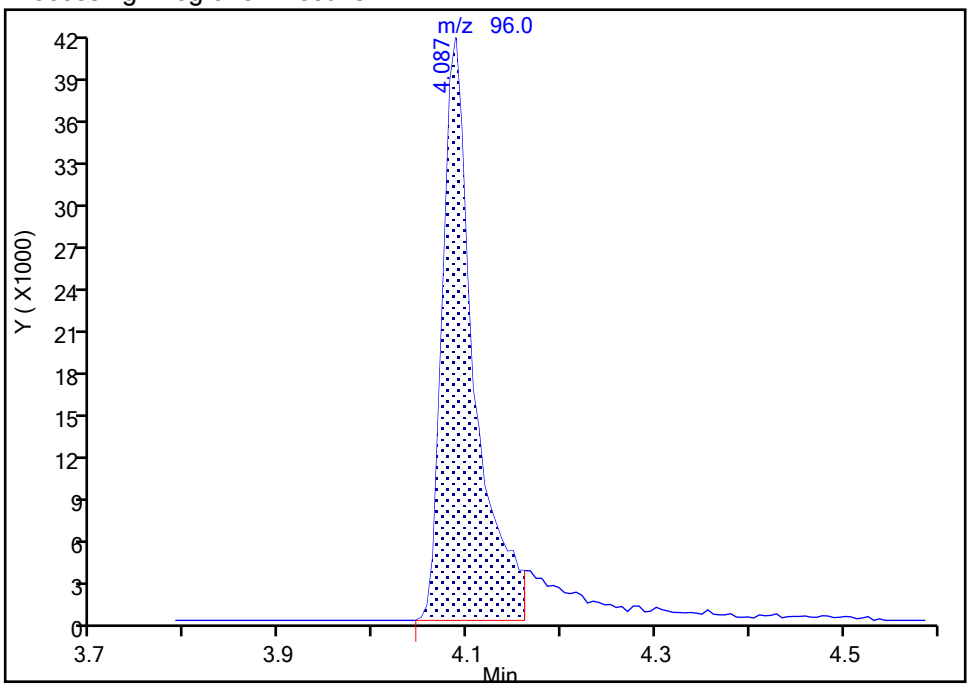
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D		
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

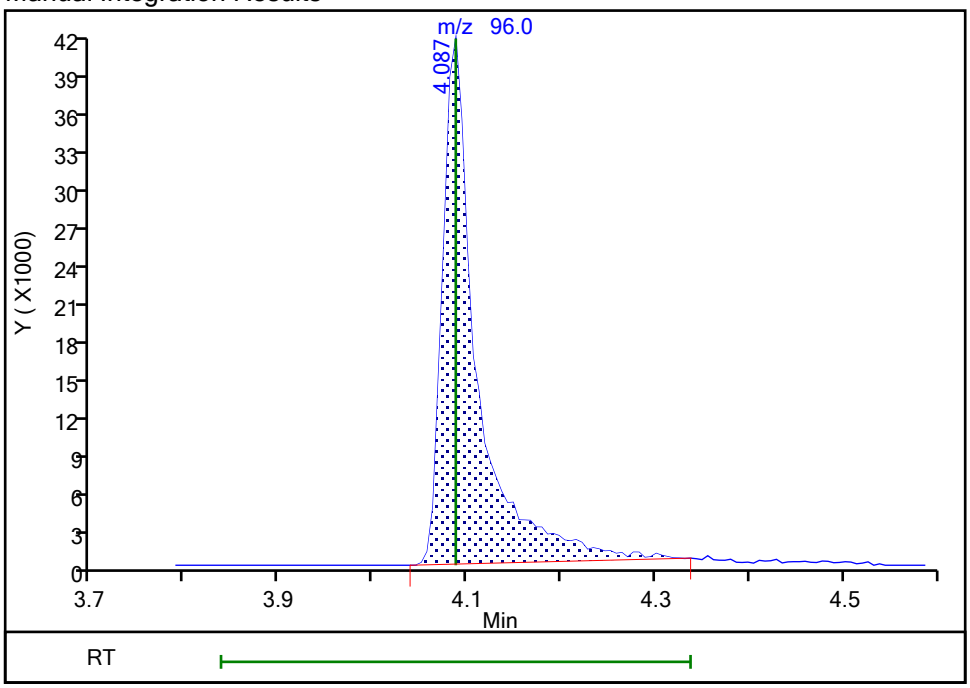
Processing Integration Results

RT: 4.09
Area: 96982
Amount: 53.809687
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 106840
Amount: 59.279319
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:43:45

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

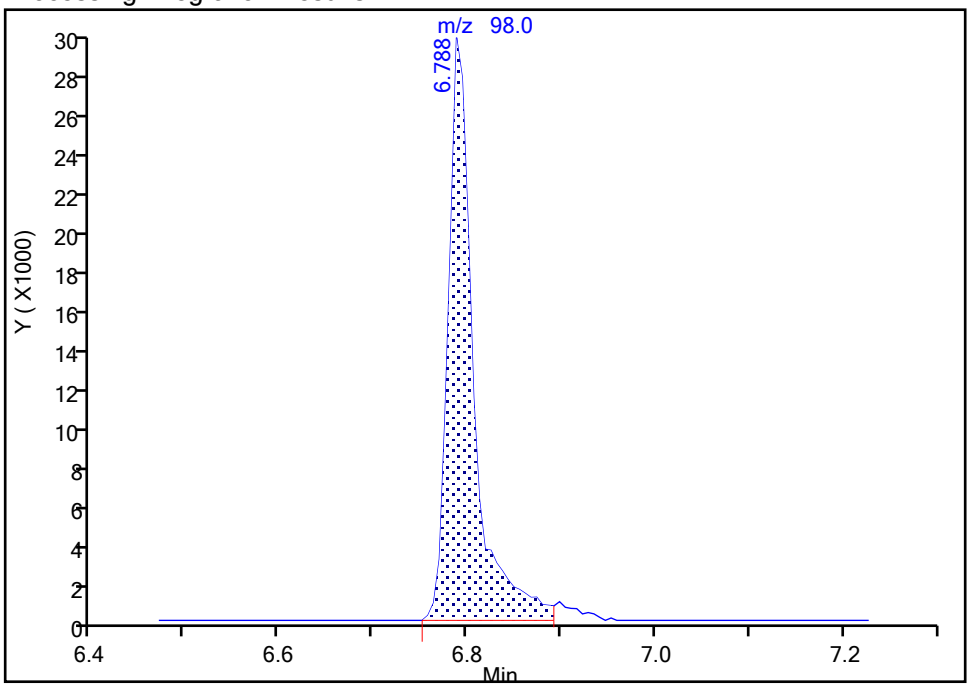
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D		
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

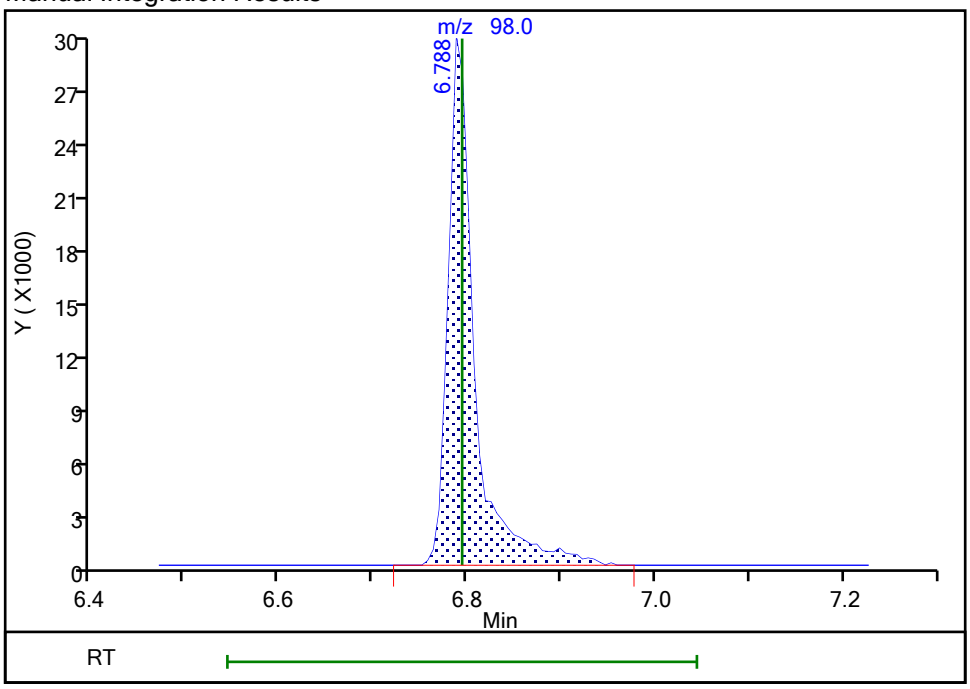
Processing Integration Results

RT: 6.79
Area: 56631
Amount: 44.904227
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 58171
Amount: 46.125334
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:57

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

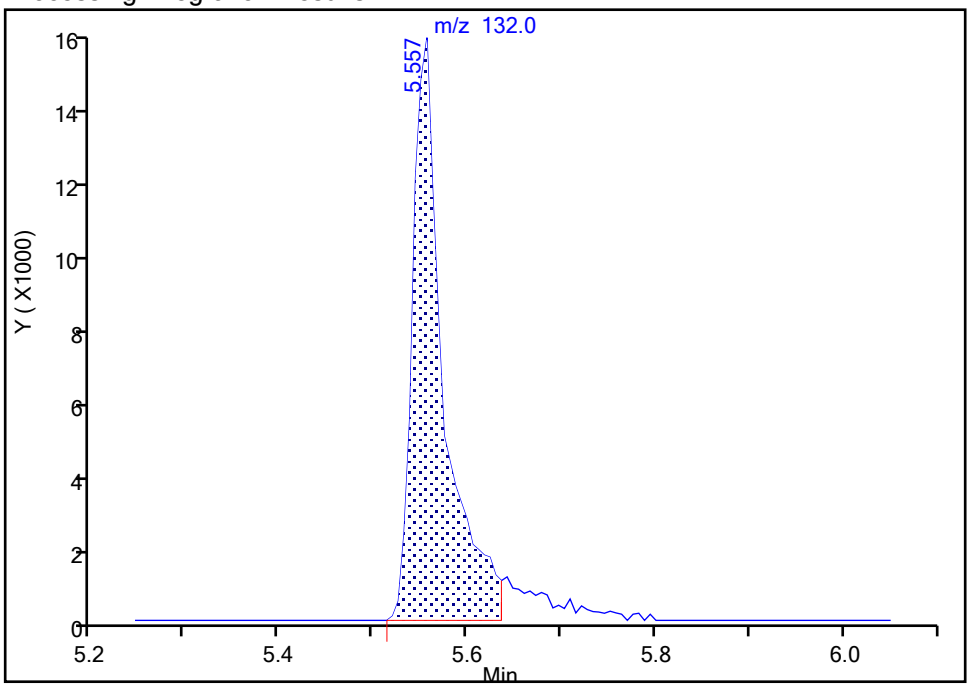
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D		
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

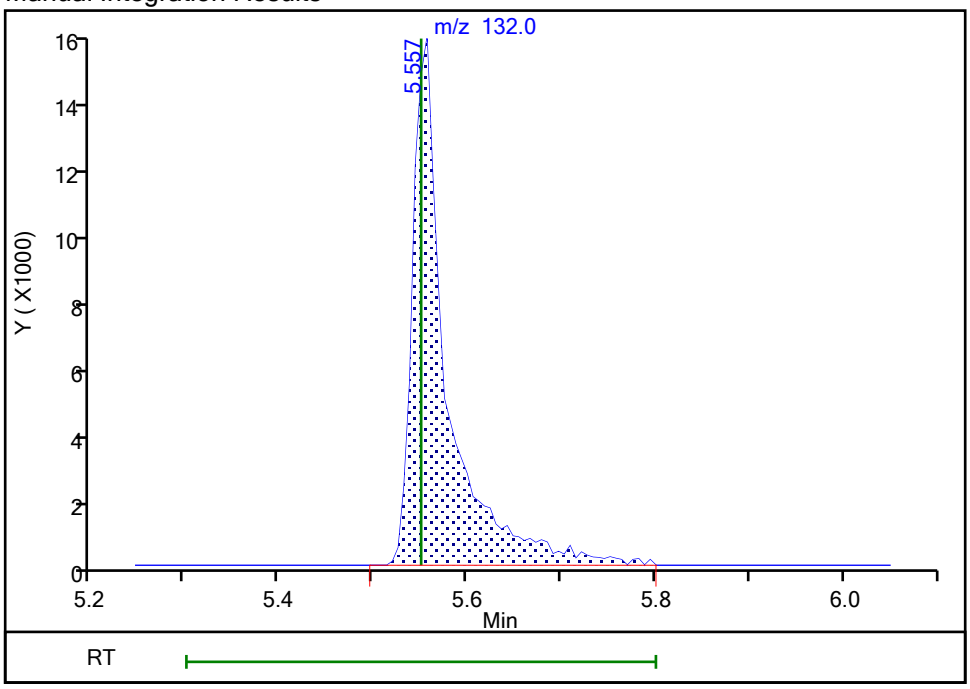
Processing Integration Results

RT: 5.56
Area: 36196
Amount: 20.214015
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 40160
Amount: 22.427750
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:43:59

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

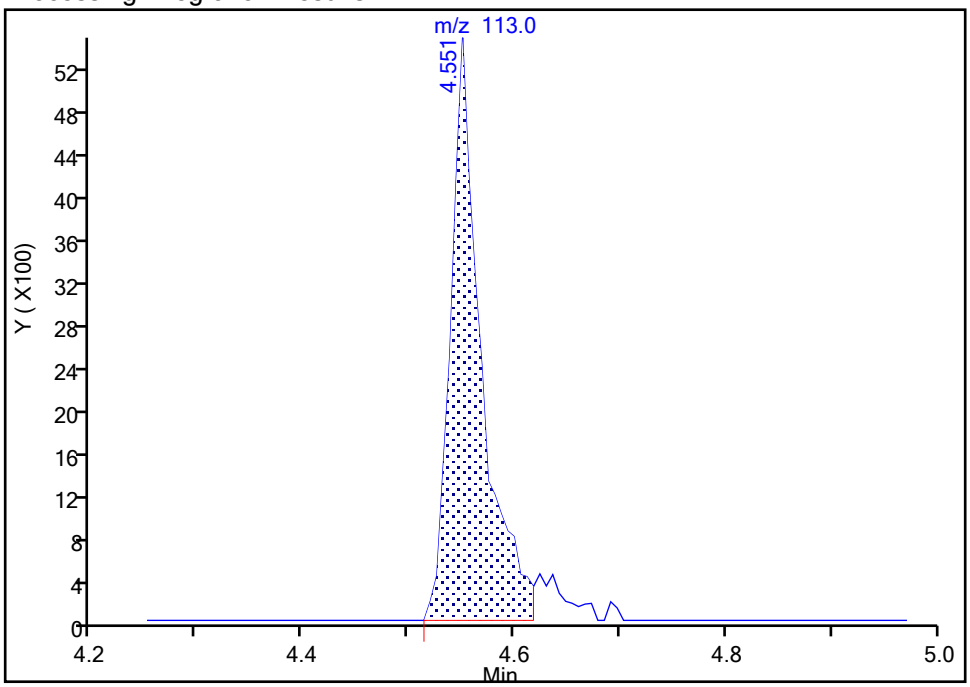
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D				
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24		
Client ID:	GW-111220-BE-041				
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

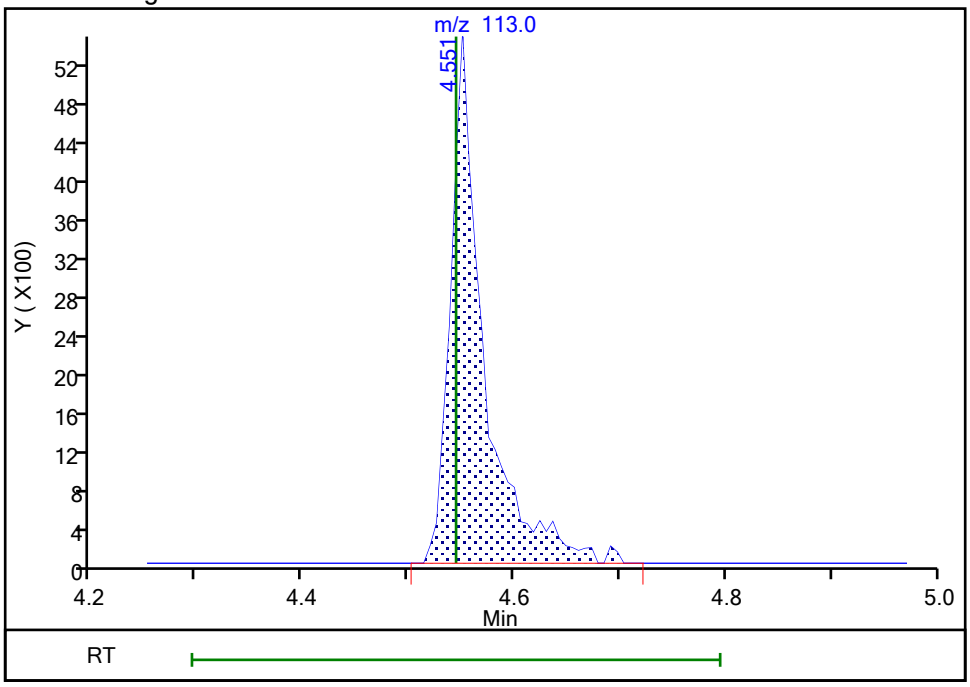
Processing Integration Results

RT: 4.55
Area: 10886
Amount: 45.171925
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 11795
Amount: 48.943860
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:53

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

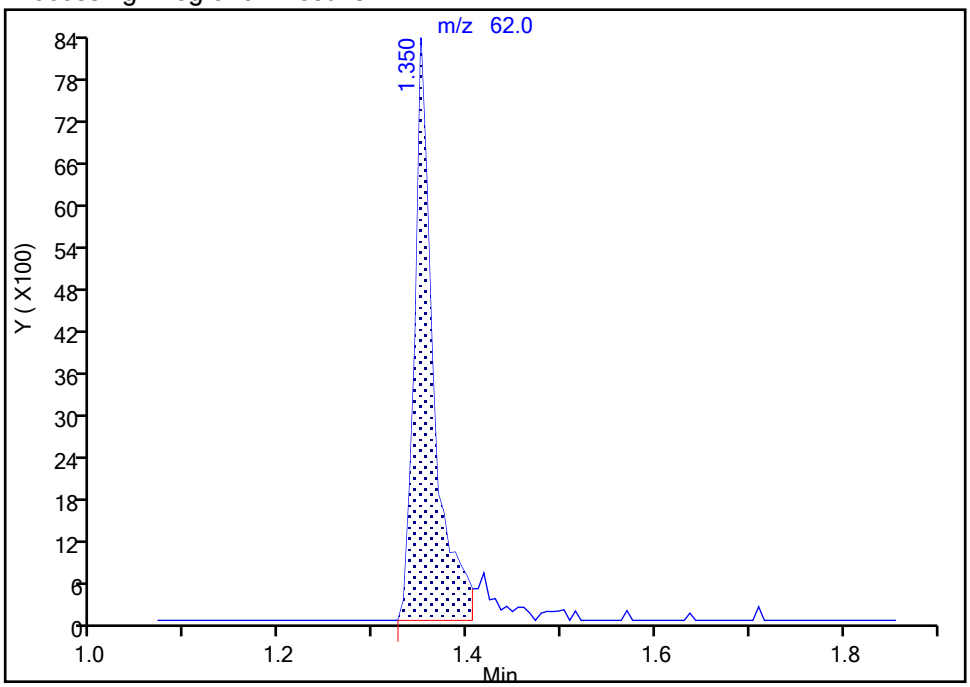
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D		
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

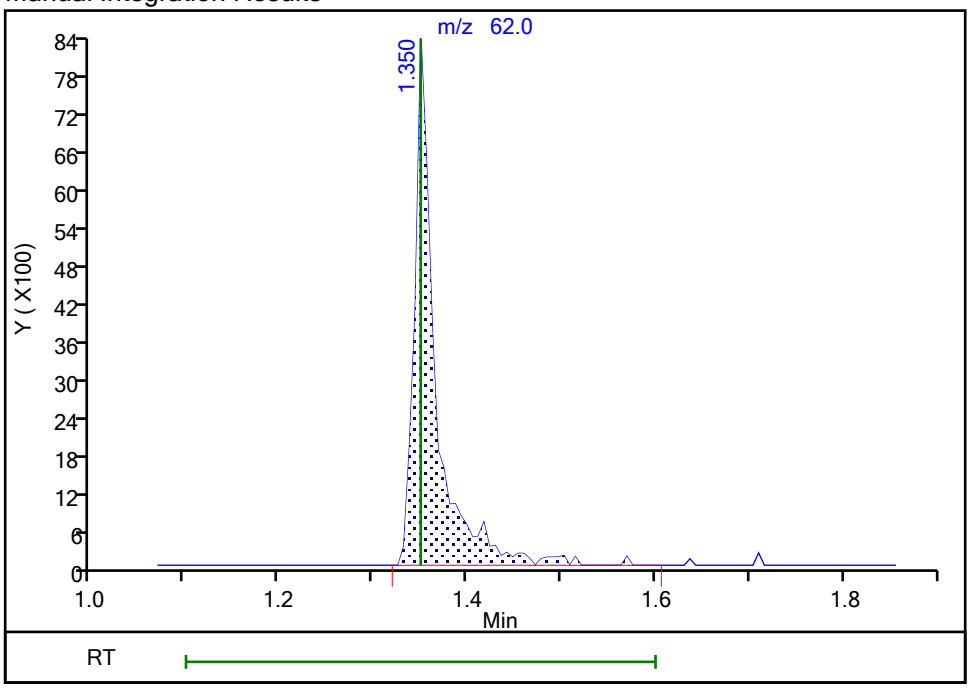
Processing Integration Results

RT: 1.35
Area: 11611
Amount: 3.943391
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 12930
Amount: 4.391357
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:43:08

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

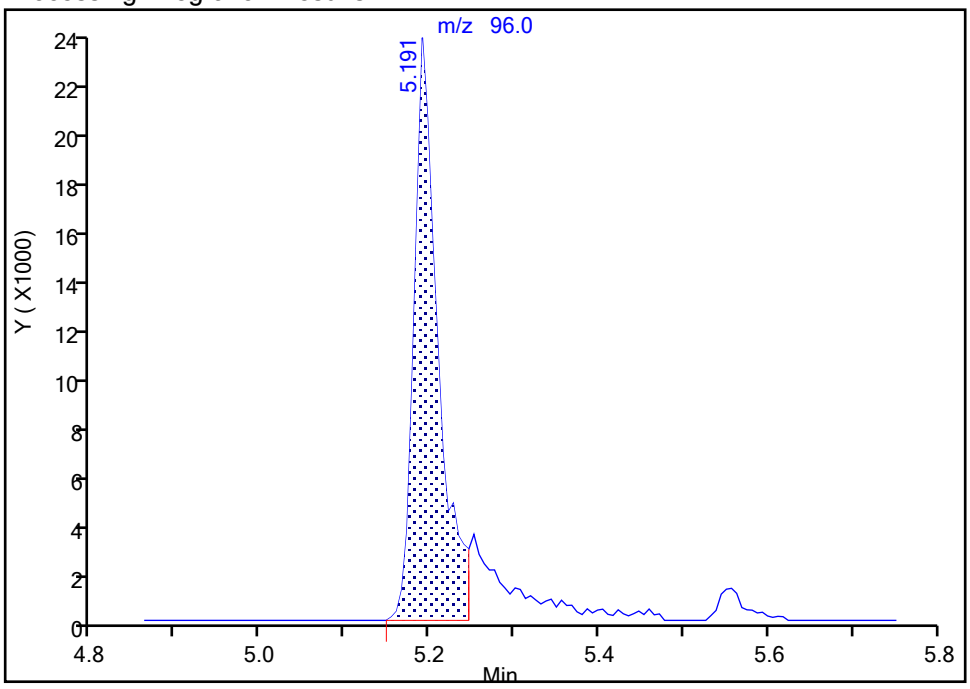
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D		
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

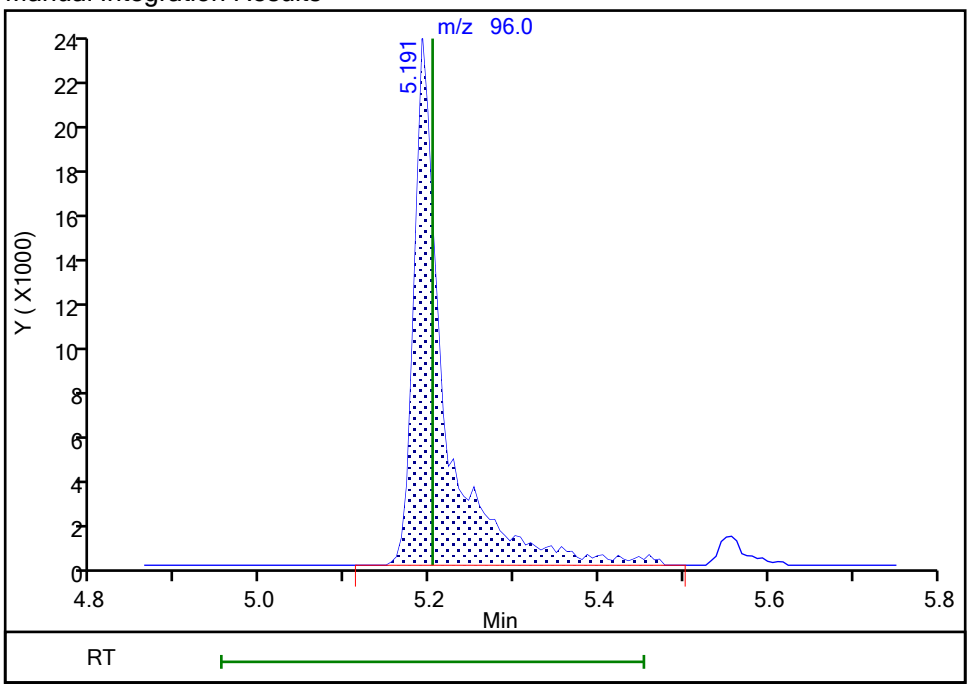
Processing Integration Results

RT: 5.19
Area: 46243
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 57833
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:44

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

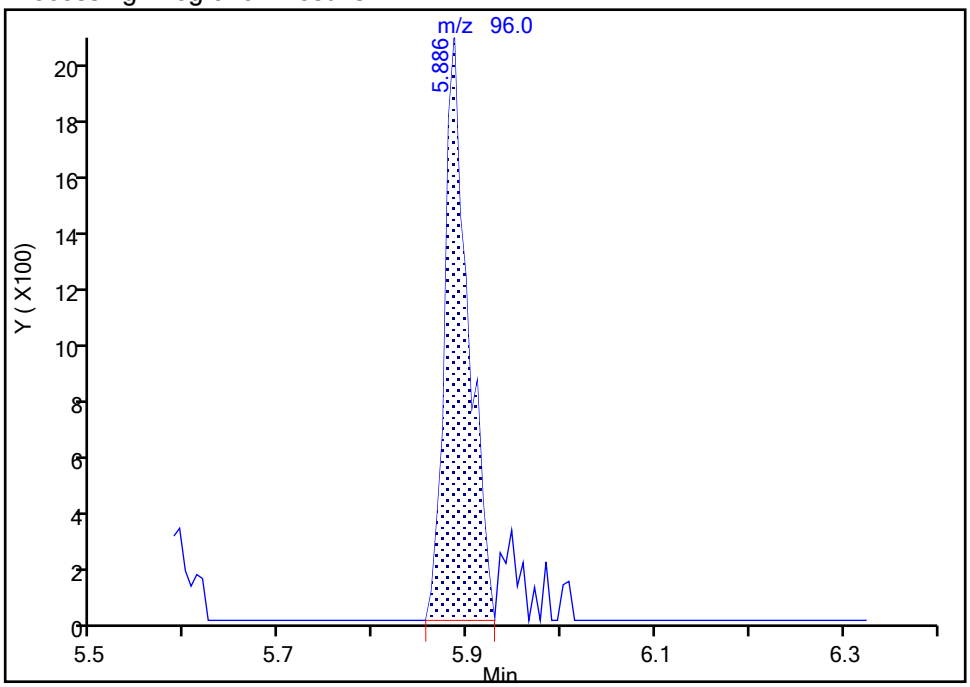
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4297.D		
Injection Date:	19-Nov-2020 09:55:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-24	Lab Sample ID:	310-140187-24
Client ID:	GW-111220-BE-041		
Operator ID:		ALS Bottle#:	1 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

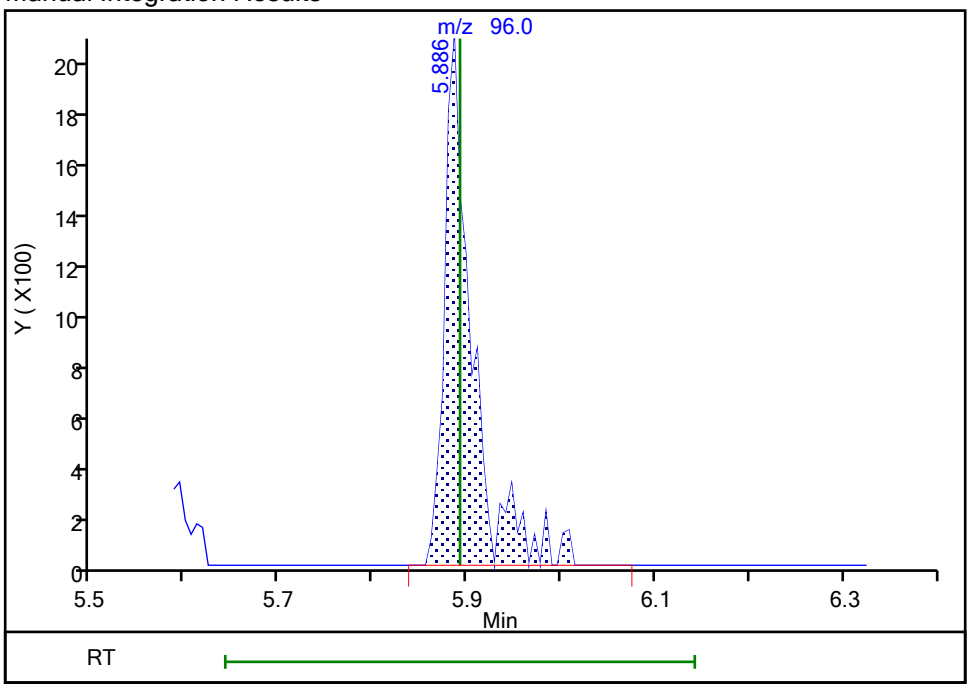
Processing Integration Results

RT: 5.89
Area: 3596
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 4207
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:42:48

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-042 Lab Sample ID: 240-140187-25

Matrix: Water Lab File ID: c8267.D

Analysis Method: 8260D Date Collected: 11/12/2020 13:15

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 21:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	140		1.0	0.22
75-35-4	1,1-Dichloroethene	20		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	4.3		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	170		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-042 Lab Sample ID: 240-140187-25

Matrix: Water Lab File ID: c8267.D

Analysis Method: 8260D Date Collected: 11/12/2020 13:15

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 21:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D
Lims ID: 240-140187-A-25
Client ID: GW-111220-BE-042
Sample Type: Client
Inject. Date: 18-Nov-2020 21:37:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:48:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.397	3.409	-0.012	0	206	1000.0	
* 122 Fluorobenzene	96	5.458	5.452	0.006	98	177943	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	95	5679	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	126653	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	56312	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.787	0.006	92	43199	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168605	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	45964	49.9	
$ 8 BFB	95	9.920	9.920	0.000	81	61887	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.538	1.532	0.006	99	857305	261.5	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.458				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.660	2.653	0.007	93	37022	20.2	
21 112TCTFE	101		2.672				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.849	2.836	0.013	60	1871	0.3453	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.958				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.391	3.385	0.006	93	349795	167.5	
29 Methyl tert-butyl ether	73		3.397				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.775	0.012	97	560282	143.1	
33 Vinyl acetate	86		3.848				ND	U
34 2-Chloro-1,3-butadiene	53		3.873				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	U
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	85	9290555	3888.6	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.421				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.860				ND	
48 Carbon tetrachloride	117		4.964				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	38	625	0.2148	a
50 Benzene	78	5.183	5.177	0.006	98	39143	4.26	
116 n-Butanol	56		5.293				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.811	5.805	0.006	96	3848726	1637.5	E
117 Ethyl acrylate	55		5.933				ND	
114 Methylcyclohexane	83		6.012				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
57 Methyl methacrylate	69		6.165				ND	
115 1,4-Dioxane	58		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92	7.122	7.116	0.006	97	1941	0.3104	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	92	965	0.0868	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	95	884	0.2043	
75 o-Xylene	106	9.323	9.335	-0.012	0	227	0.0551	M
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.389				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128	13.981	13.980	0.000	88	579	0.1237	a
99 1,2,3-Trichlorobenzene	180		14.279				ND	
139 C6-C12	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		4056.1	E
S 100 Xylenes, Total	1				0		0.2594	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

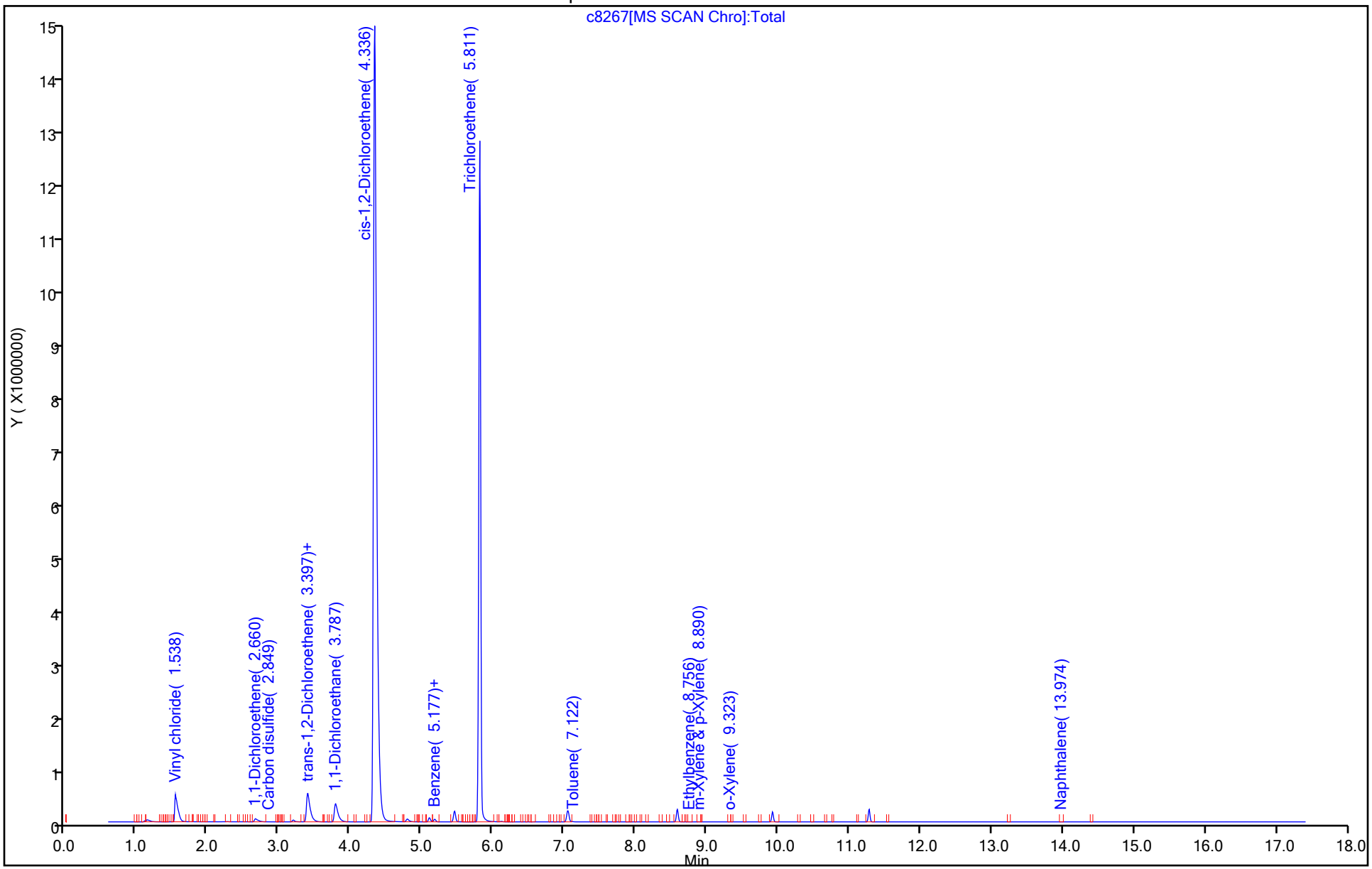
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:16:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25	Worklist Smp#:	13
Client ID:	GW-111220-BE-042				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D
Lims ID: 240-140187-A-25
Client ID: GW-111220-BE-042
Sample Type: Client
Inject. Date: 18-Nov-2020 21:37:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:48:17

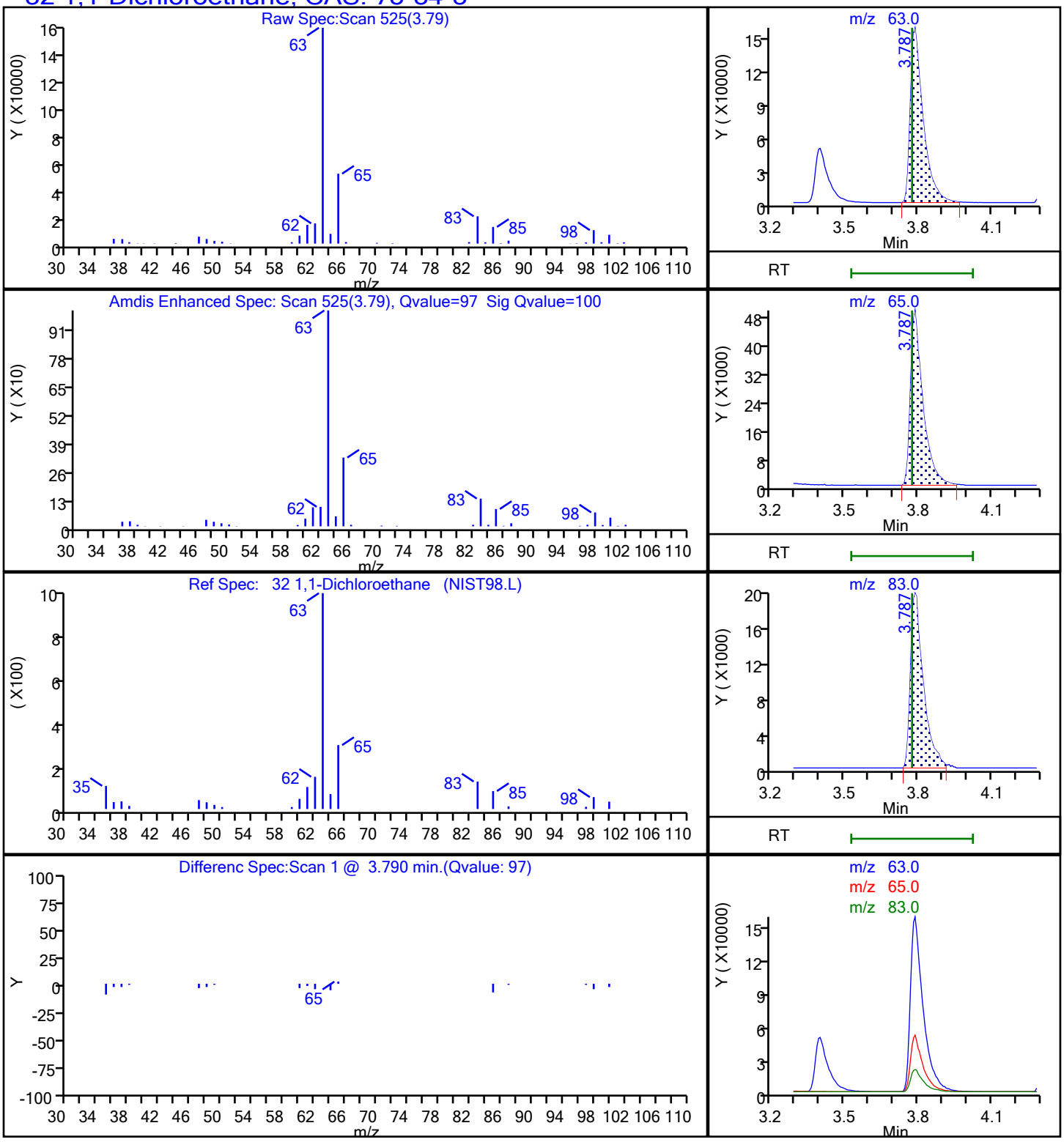
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.2	108.33
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.85
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.9	99.78

Report Date: 19-Nov-2020 11:16:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3



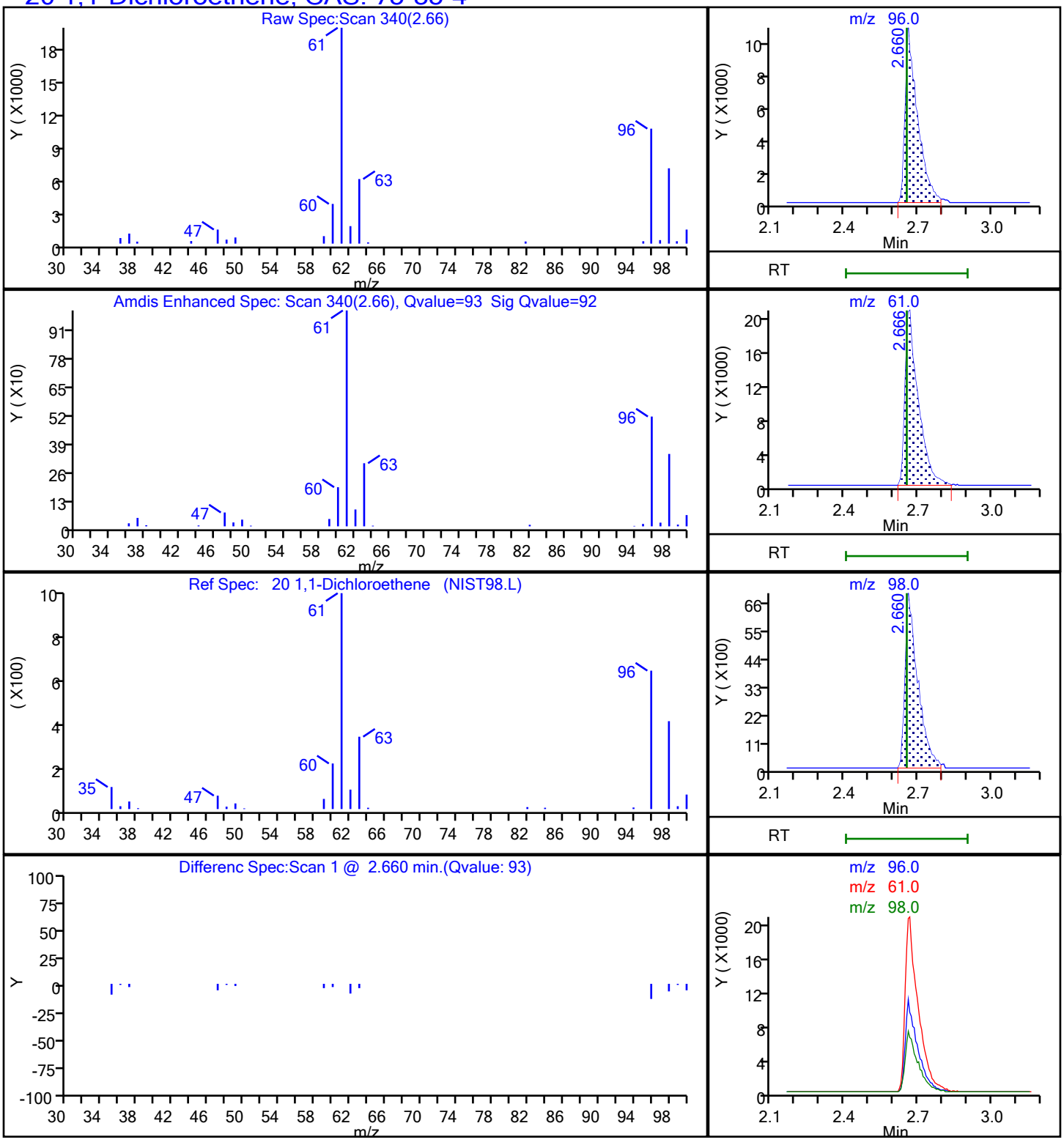
Report Date: 19-Nov-2020 11:16:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D

Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

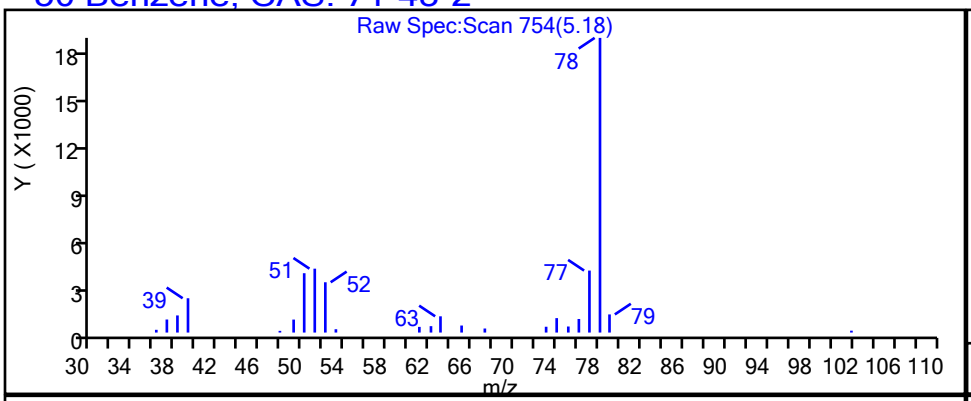


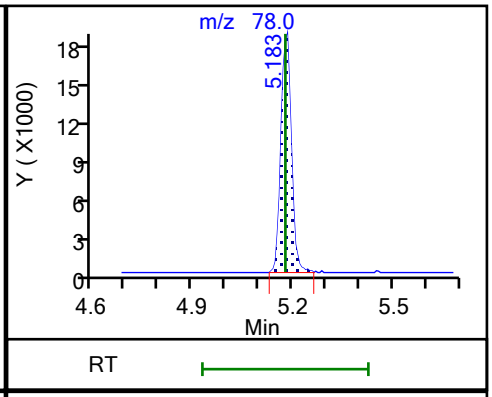
Report Date: 19-Nov-2020 11:16:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

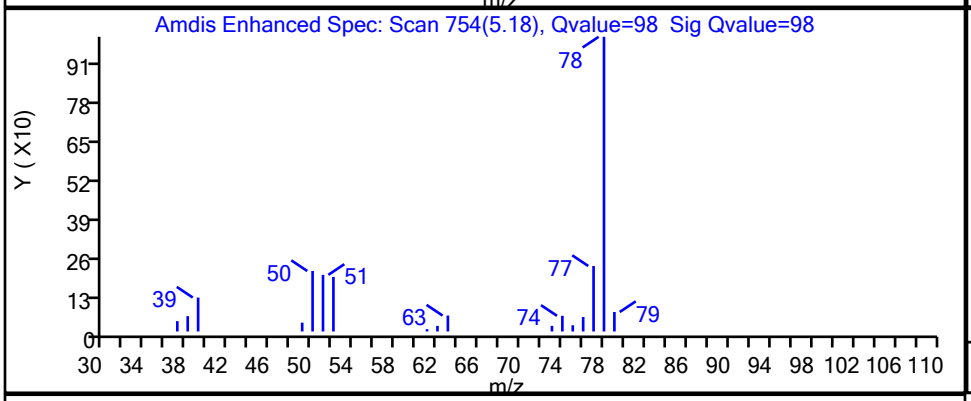
Eurofins TestAmerica, Cedar Falls

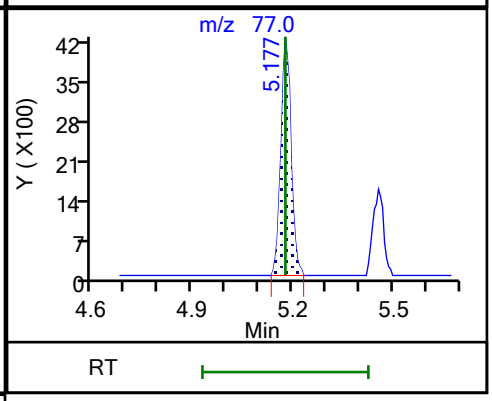
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

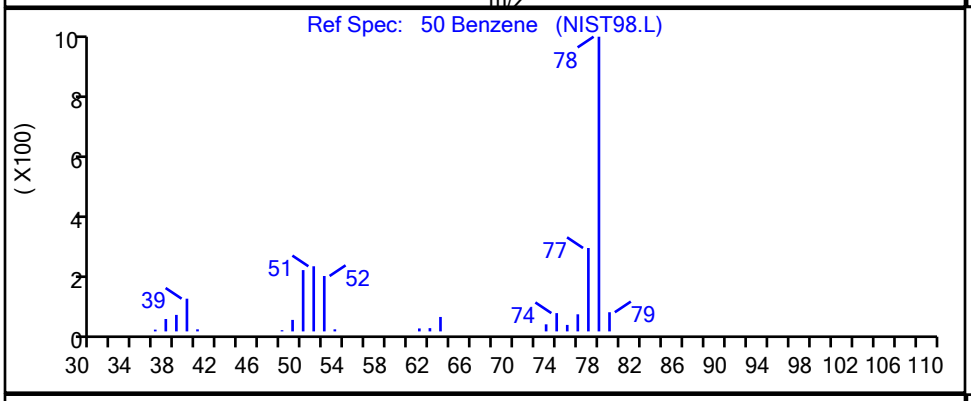
50 Benzene, CAS: 71-43-2

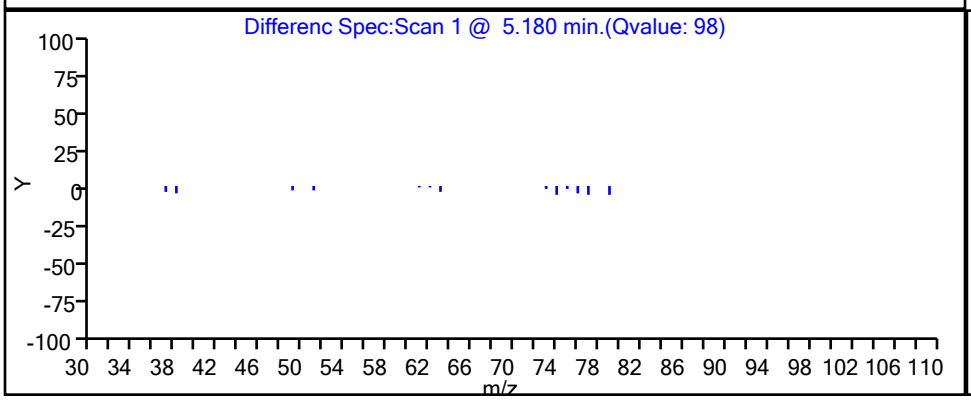


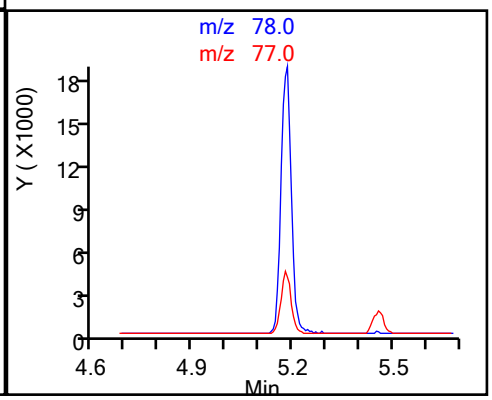










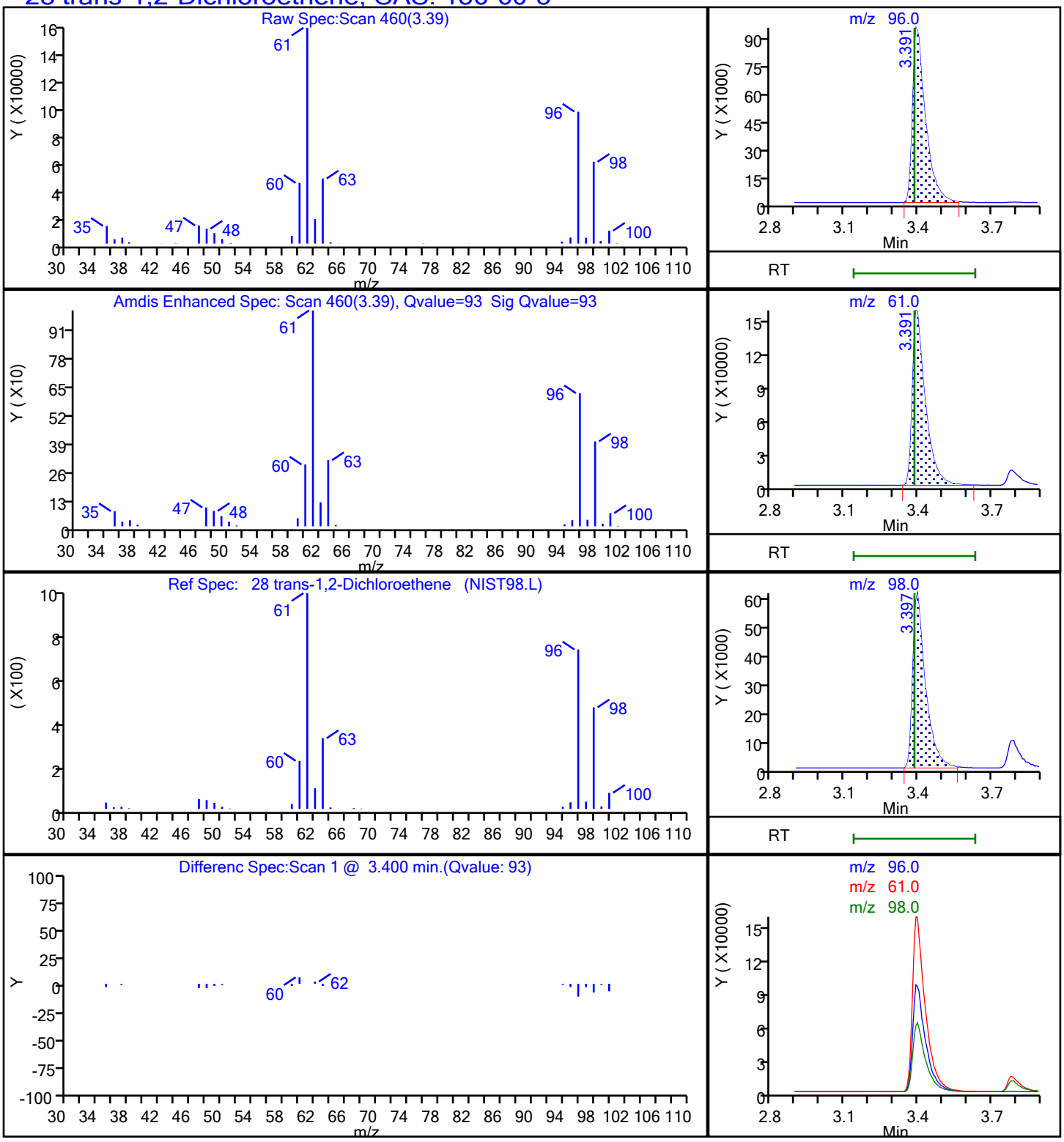


Report Date: 19-Nov-2020 11:16:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

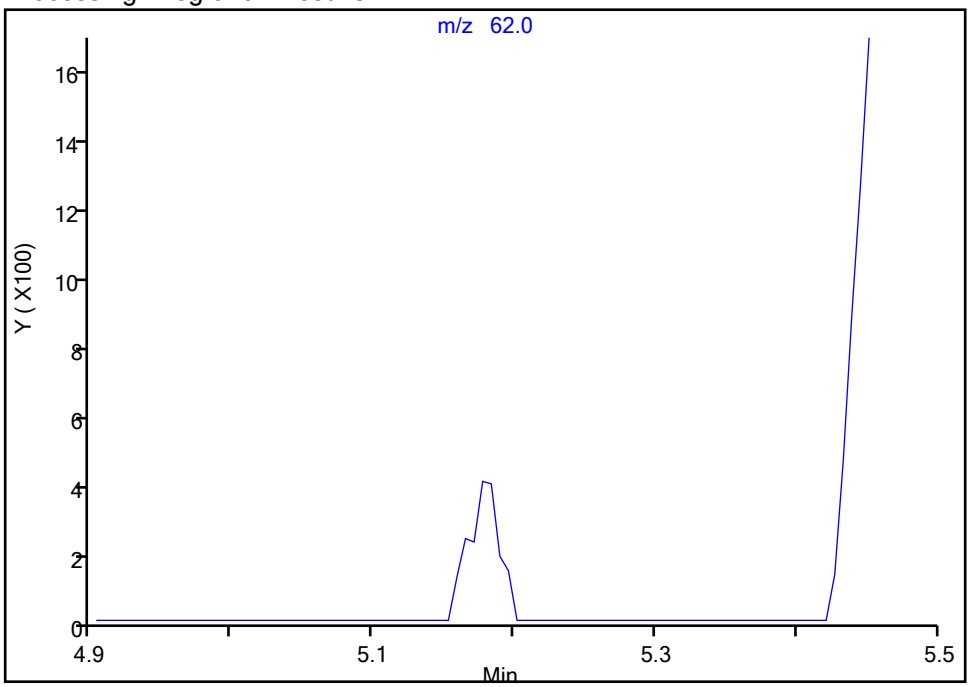
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

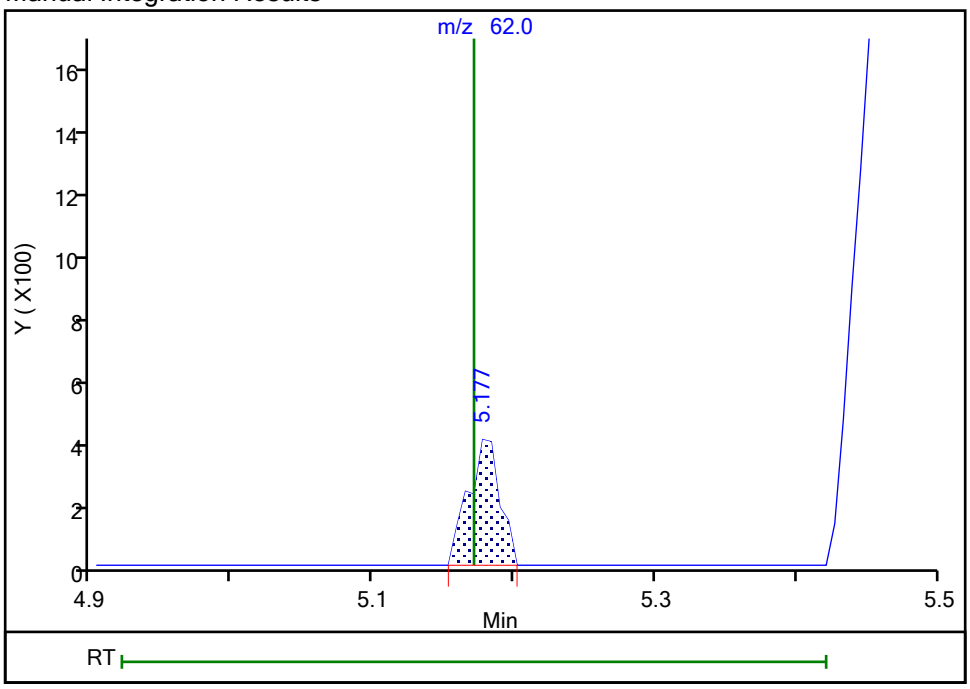
Not Detected
Expected RT: 5.17

Processing Integration Results



Manual Integration Results

RT: 5.18
Area: 625
Amount: 0.214786
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:47:24
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

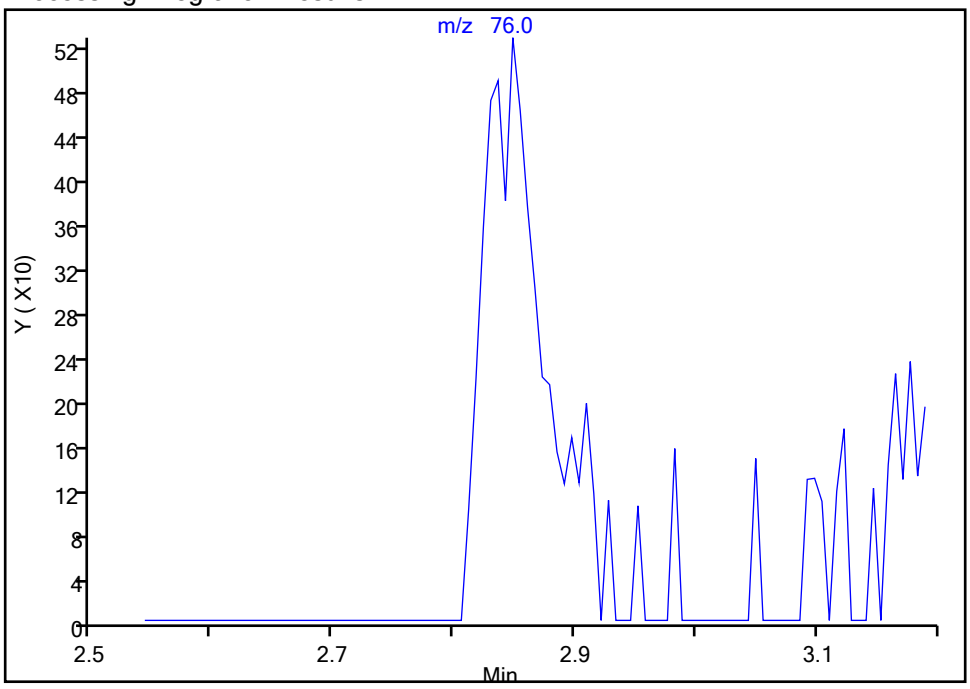
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

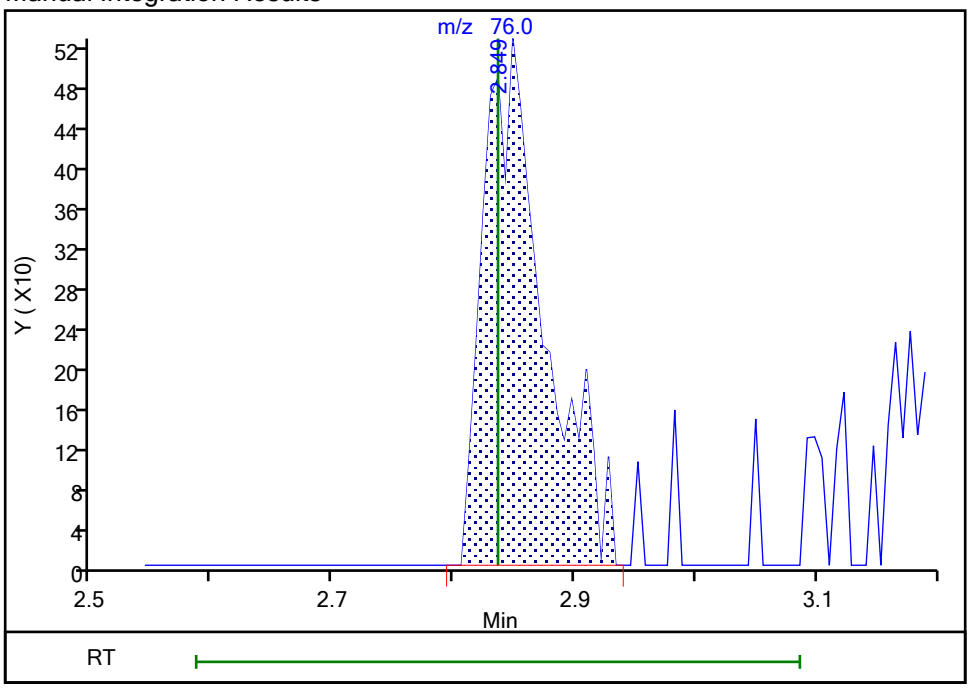
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 1871
Amount: 0.345263
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:46:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

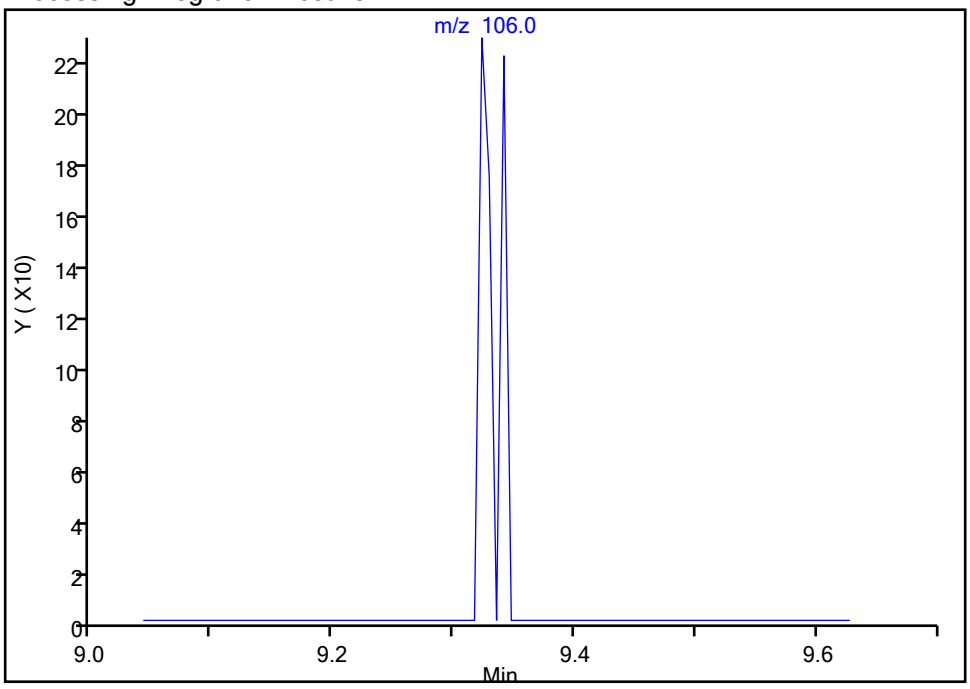
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

75 o-Xylene, CAS: 95-47-6

Signal: 2

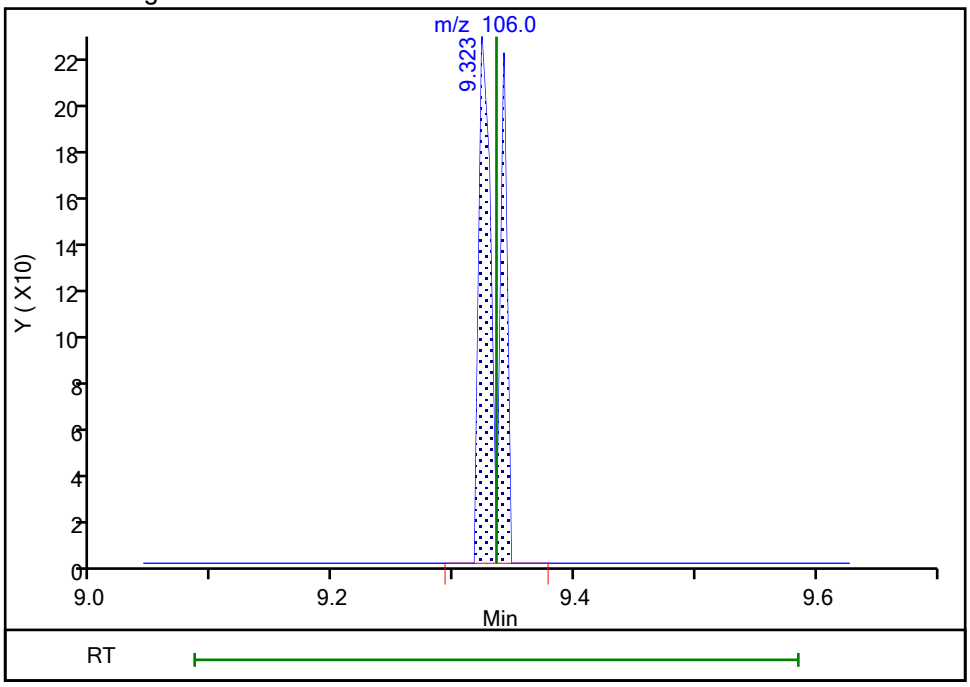
Not Detected
Expected RT: 9.33

Processing Integration Results



Manual Integration Results

RT: 9.32
Area: 227
Amount: 0.055112
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:47:51
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

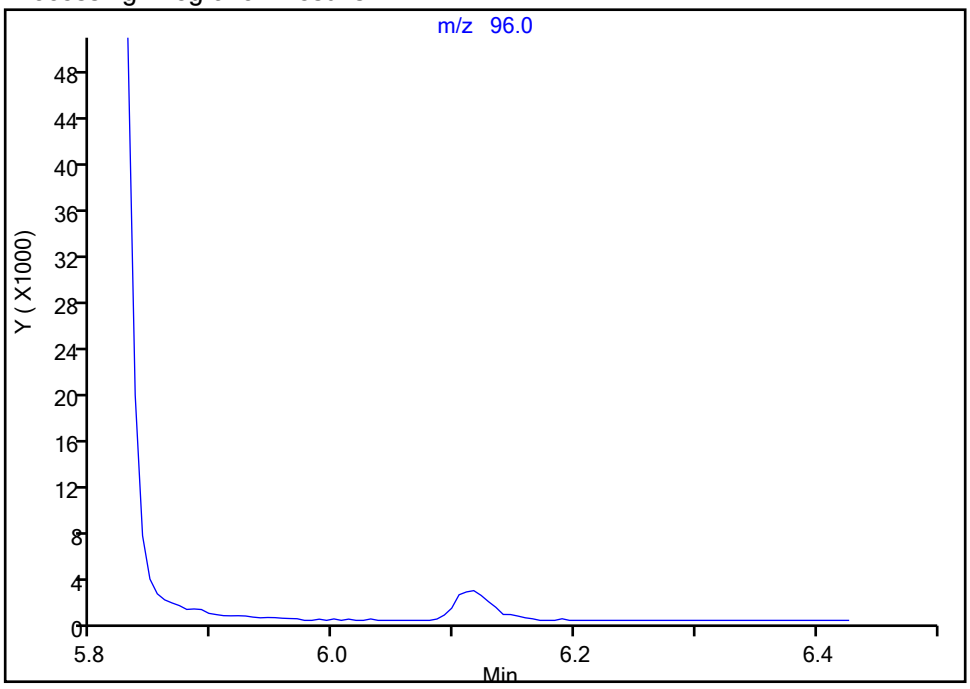
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8267.D				
Injection Date:	18-Nov-2020 21:37:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

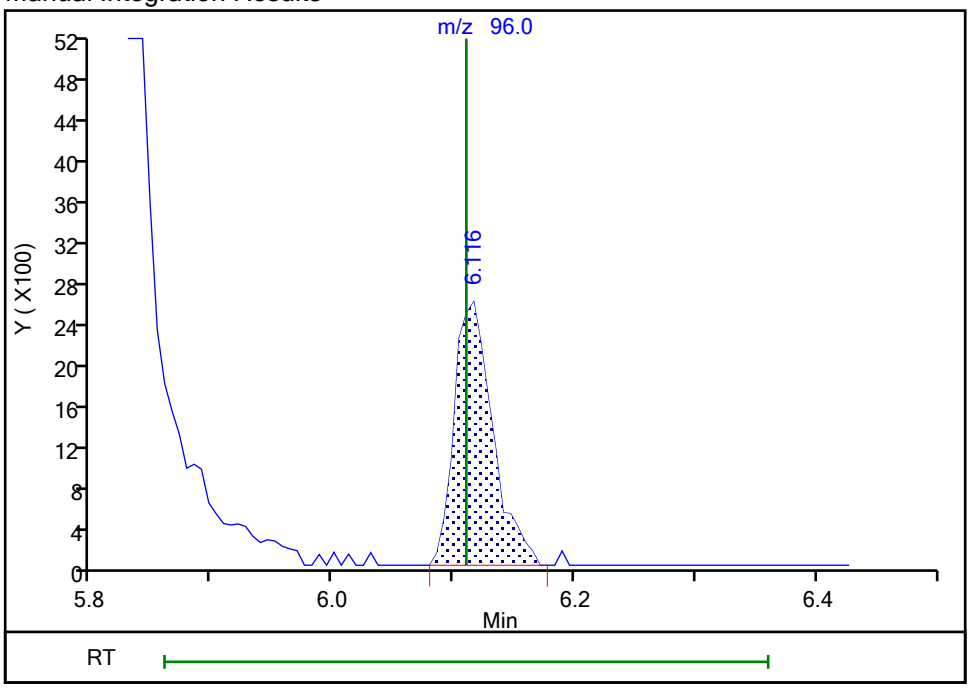
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5679
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:46:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-042 Lab Sample ID: 240-140187-25

Matrix: Water Lab File ID: H4298.D

Analysis Method: 8260D Date Collected: 11/12/2020 13:15

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 10:17

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	200	U	200	40
156-59-2	cis-1,2-Dichloroethene	3000		50	11
79-01-6	Trichloroethene	1200		50	22
75-01-4	Vinyl chloride	230		50	9.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	97		79-120
1868-53-7	Dibromofluoromethane (Surr)	101		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D
Lims ID: 240-140187-B-25
Client ID: GW-111220-BE-042
Sample Type: Client
Inject. Date: 19-Nov-2020 10:17:30 ALS Bottle#: 2 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-026
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:46:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.984	-0.012	0	41507	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.868	4.868	0.000	0	15864	0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	97	56657	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	80	4287	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	92	53692	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	34736	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	93	11938	50.6	M
$ 6 Toluene-d8 (Surr)	98	6.788	6.794	-0.006	95	58420	48.4	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.684	-0.006	0	22750	50.9	
$ 8 BFB	95	9.678	9.684	-0.006	85	28383	NR	
9 Dichlorodifluoromethane	85		1.124				ND	U
10 Chloromethane	50	1.271	1.265	0.006	27	1146	0.2229	M
11 Vinyl chloride	62	1.350	1.350	0.000	97	13070	4.53	M
12 Butadiene	54		1.387				ND	
13 Bromomethane	94		1.612				ND	
14 Chloroethane	64		1.698				ND	
15 Dichlorofluoromethane	67		1.893				ND	
16 Trichlorofluoromethane	101		1.929				ND	
17 Ethanol	45		2.161				ND	
18 Ethyl ether	59		2.222				ND	
19 Acrolein	56		2.332				ND	
20 1,1-Dichloroethene	96		2.411				ND	
21 112TCTFE	101		2.423				ND	
22 Acetone	43		2.490				ND	
23 Iodomethane	142		2.533				ND	
24 Carbon disulfide	76		2.582				ND	
105 Isopropyl alcohol	45		2.673				ND	
118 Acetonitrile	40		2.740				ND	
25 3-Chloro-1-propene	76		2.758				ND	
26 Methyl acetate	43		2.807				ND	
27 Methylene Chloride	84		2.874				ND	
35 2-Methyl-2-propanol	59		3.057				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124				ND	
28 trans-1,2-Dichloroethene	96	3.124	3.130	-0.006	85	3629	2.51	M
29 Methyl tert-butyl ether	73		3.155				ND	
31 Hexane	57		3.392				ND	
32 1,1-Dichloroethane	63	3.533	3.526	0.007	95	7000	2.14	M
33 Vinyl acetate	86		3.618				ND	
34 2-Chloro-1,3-butadiene	53		3.618				ND	
36 Isopropyl ether	87		3.636				ND	
37 Tert-butyl ethyl ether	59		3.978				ND	
38 2,2-Dichloropropane	77		4.069				ND	
39 cis-1,2-Dichloroethene	96	4.088	4.087	0.001	87	104235	59.0	
40 2-Butanone (MEK)	43		4.136				ND	
41 Propionitrile	54		4.185				ND	
104 Ethyl acetate	43		4.203				ND	
42 Chlorobromomethane	128		4.307				ND	
43 Methacrylonitrile	67		4.325				ND	
44 Tetrahydrofuran	71		4.380				ND	
45 Chloroform	83	4.405	4.398	0.007	1	448	0.1735	M
46 1,1,1-Trichloroethane	97		4.551				ND	
47 Cyclohexane	56		4.599				ND	
48 Carbon tetrachloride	117		4.709				ND	
49 1,1-Dichloropropene	75		4.721				ND	
50 Benzene	78	4.917	4.916	0.001	1	883	0.1503	M
108 Isobutyl alcohol	43		4.923				ND	
51 1,2-Dichloroethane	62		4.941				ND	
116 n-Butanol	56		5.008				ND	
52 Tert-amyl methyl ether	73		5.057				ND	
53 n-Heptane	43		5.203				ND	
54 Trichloroethene	132	5.557	5.550	0.007	93	41451	23.6	M
117 Ethyl acrylate	55		5.709				ND	
114 Methylcyclohexane	83		5.733				ND	
55 1,2-Dichloropropane	63		5.776				ND	
56 Dibromomethane	93		5.886				ND	
57 Methyl methacrylate	69		5.935				ND	
115 1,4-Dioxane	58		5.935				ND	
58 Dichlorobromomethane	83		6.063				ND	
106 2-Nitropropane	43		6.306				ND	
59 2-Chloroethyl vinyl ether	63		6.398				ND	
60 cis-1,3-Dichloropropene	75		6.520				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709				ND	
62 Toluene	92	6.855	6.861	-0.006	8	255	0.0683	M
63 trans-1,3-Dichloropropene	75		7.111				ND	
64 Ethyl methacrylate	69		7.239				ND	
65 1,1,2-Trichloroethane	83		7.300				ND	
66 Tetrachloroethene	166		7.434				ND	
67 1,3-Dichloropropane	76		7.477				ND	
68 2-Hexanone	43		7.599				ND	
69 Chlorodibromomethane	129		7.709				ND	
109 n-Butyl acetate	43		7.751				ND	
70 Ethylene Dibromide	107		7.818				ND	
71 Chlorobenzene	112		8.373				ND	
72 1,1,1,2-Tetrachloroethane	131		8.471				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.514	8.507	0.007	1	771	0.1108	M
74 m-Xylene & p-Xylene	106	8.635	8.647	-0.012	91	700	0.2540	
75 o-Xylene	106	9.087	9.086	0.001	1	128	0.0493	M
120 Methyl n-amyl ketone TIC	1		9.100				ND	
76 Styrene	104		9.105				ND	
77 Bromoform	173		9.294				ND	
78 Isopropylbenzene	105		9.519				ND	
79 Bromobenzene	156		9.842				ND	
80 1,1,2,2-Tetrachloroethane	83		9.873				ND	
81 1,2,3-Trichloropropane	75		9.909				ND	
82 trans-1,4-Dichloro-2-butene	53		9.940				ND	
83 N-Propylbenzene	91		10.001				ND	
84 2-Chlorotoluene	91		10.080				ND	
85 4-Chlorotoluene	91		10.208				ND	
86 1,3,5-Trimethylbenzene	105		10.214				ND	
87 tert-Butylbenzene	119		10.586				ND	
88 1,2,4-Trimethylbenzene	105	10.641	10.647	-0.006	90	1415	0.2661	
89 sec-Butylbenzene	105		10.854				ND	
90 1,3-Dichlorobenzene	146		10.952				ND	
91 4-Isopropyltoluene	119		11.037				ND	
92 1,4-Dichlorobenzene	146		11.062				ND	
110 1,2,3-Trimethylbenzene	105	11.135	11.141	-0.006	1	485	-0.3022	M
113 Benzyl chloride	126		11.232				ND	
93 1,2-Dichlorobenzene	146		11.501				ND	
94 n-Butylbenzene	91		11.519				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.439				ND	
112 1,3,5-Trichlorobenzene	180		12.695				ND	
96 1,2,4-Trichlorobenzene	180		13.445				ND	
97 Hexachlorobutadiene	225		13.671				ND	
98 Naphthalene	128	13.726	13.726	0.000	88	895	0.1332	a
99 1,2,3-Trichlorobenzene	180		14.024				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
139 C6-C12	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
137 C6-C10	1		0.000				ND	
136 n-Decane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
S 101 1,2-Dichloroethene, Total	1				0		61.5	
S 100 Xylenes, Total	1				0		0.3033	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 128 1,1-Dichloroacetone TIC	43		6.477				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

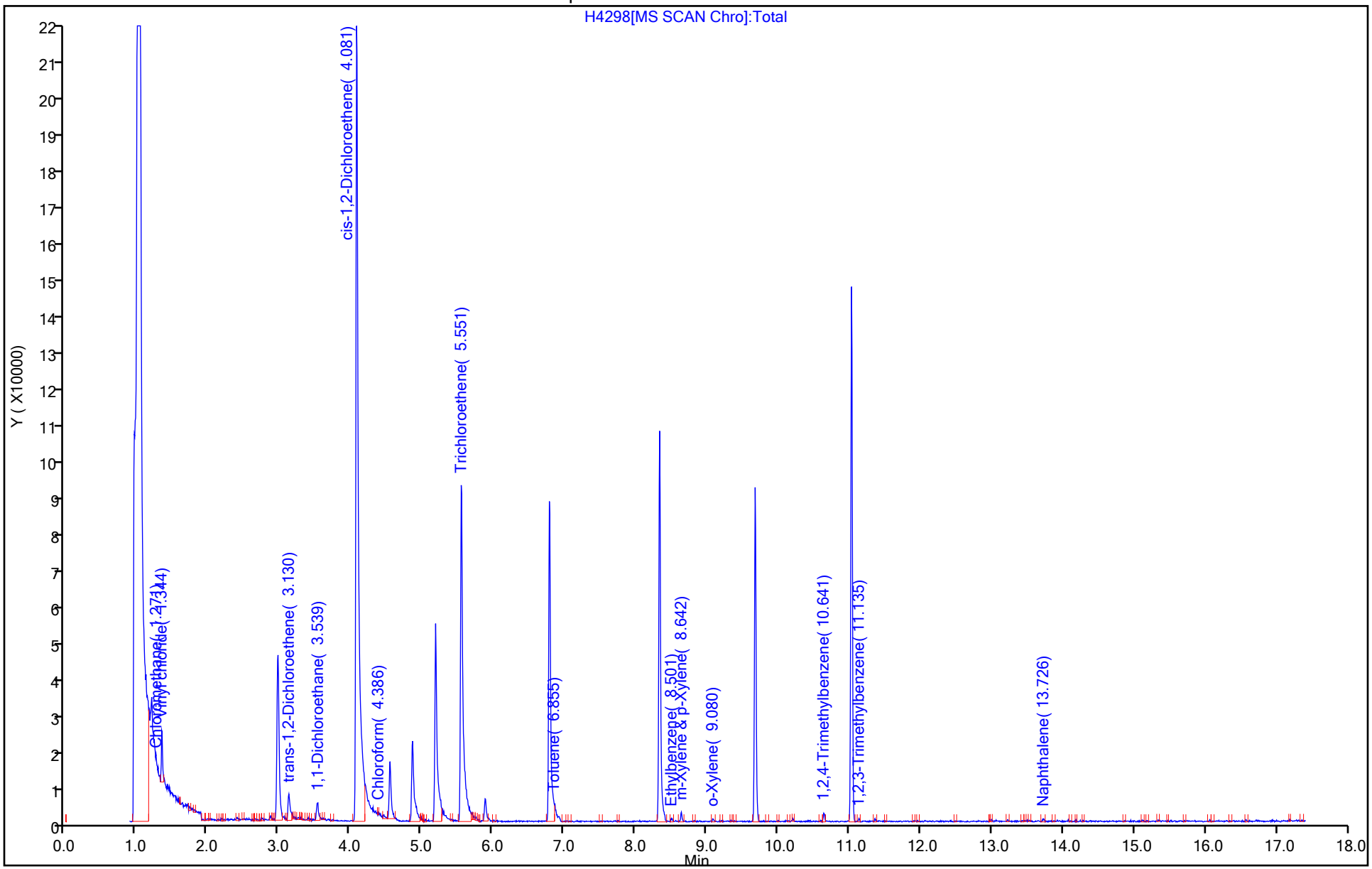
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:58:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D				
Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25	Worklist Smp#:	26
Client ID:	GW-111220-BE-042				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	2
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D
Lims ID: 240-140187-B-25
Client ID: GW-111220-BE-042
Sample Type: Client
Inject. Date: 19-Nov-2020 10:17:30 ALS Bottle#: 2 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-026
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:46:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	50.6	5056.55
$ 6 Toluene-d8 (Surr)	50.0	48.4	4841.49
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.9	5089.37

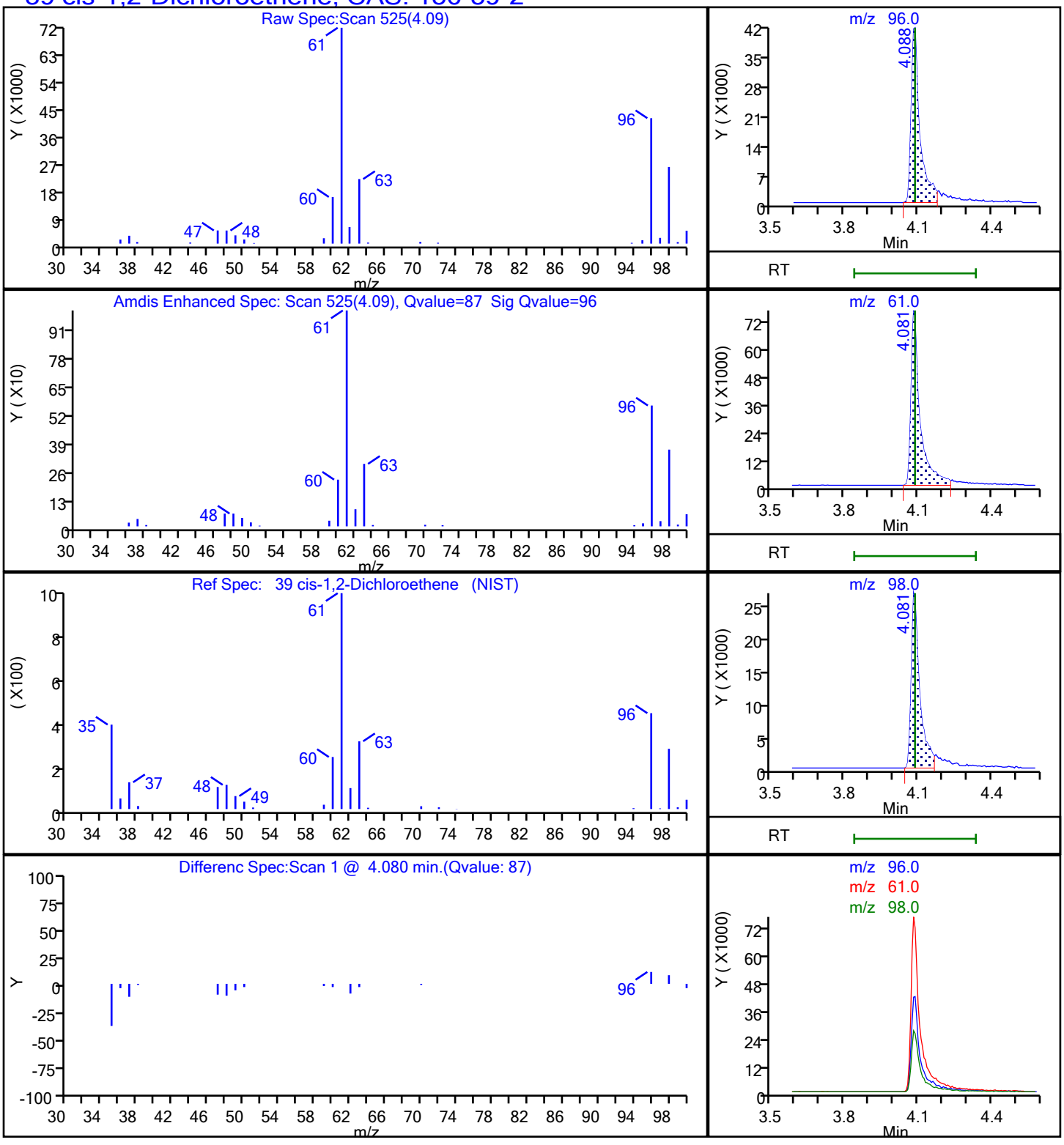
Report Date: 20-Nov-2020 06:58:08 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D

Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25
Client ID:	GW-111220-BE-042		
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



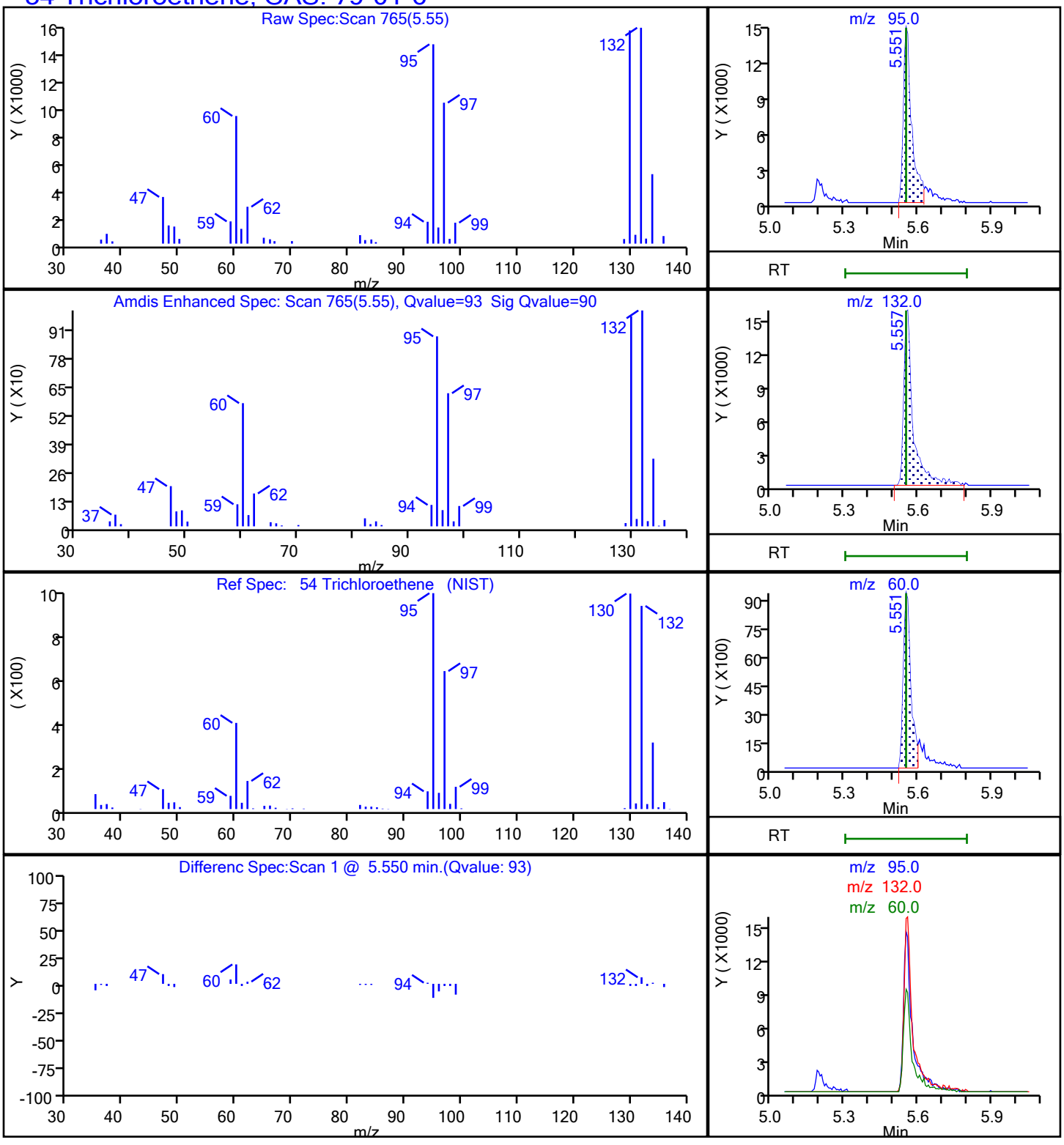
Report Date: 20-Nov-2020 06:58:08 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D

Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25
Client ID:	GW-111220-BE-042		
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6



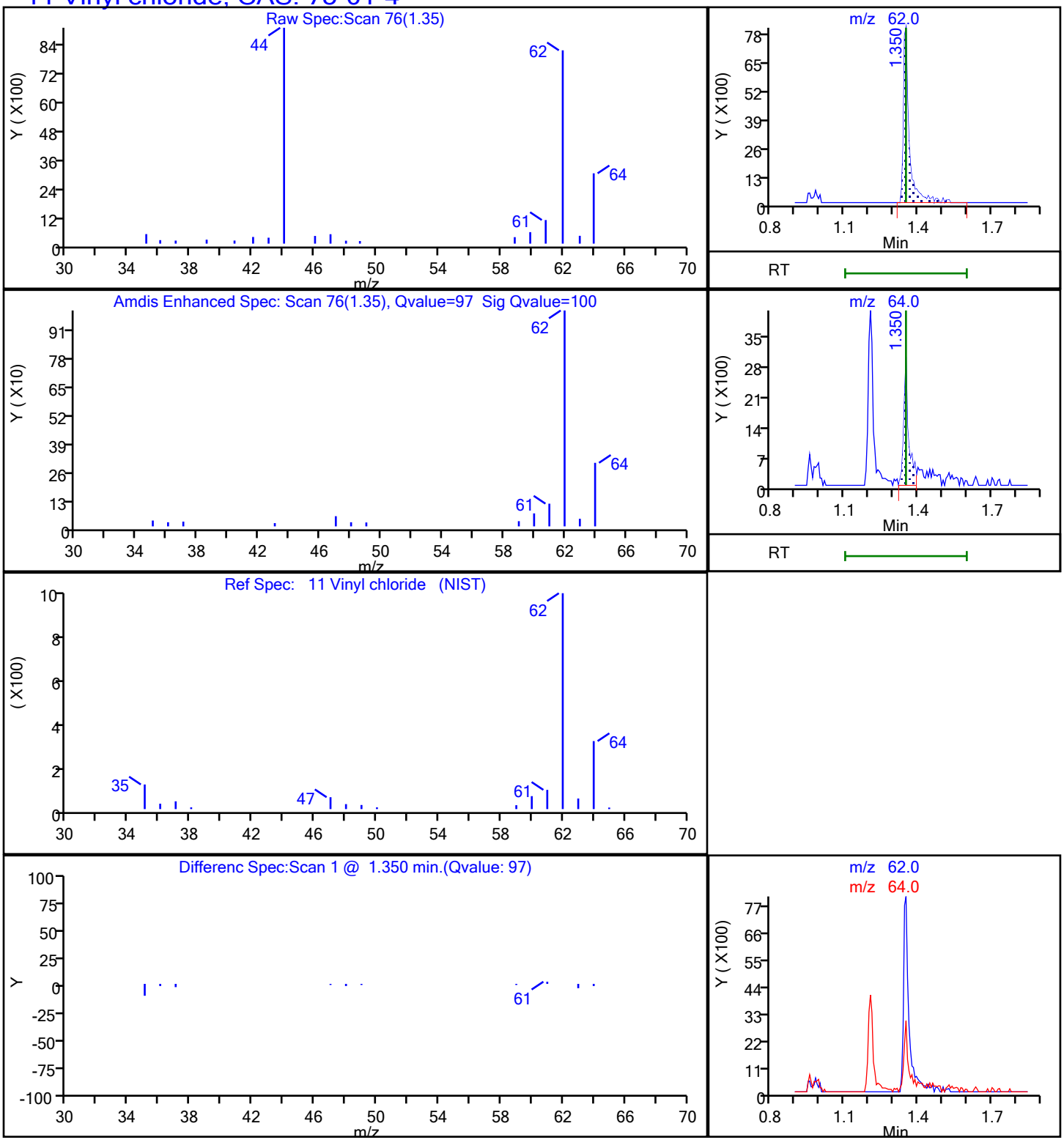
Report Date: 20-Nov-2020 06:58:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D

Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25
Client ID:	GW-111220-BE-042		
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

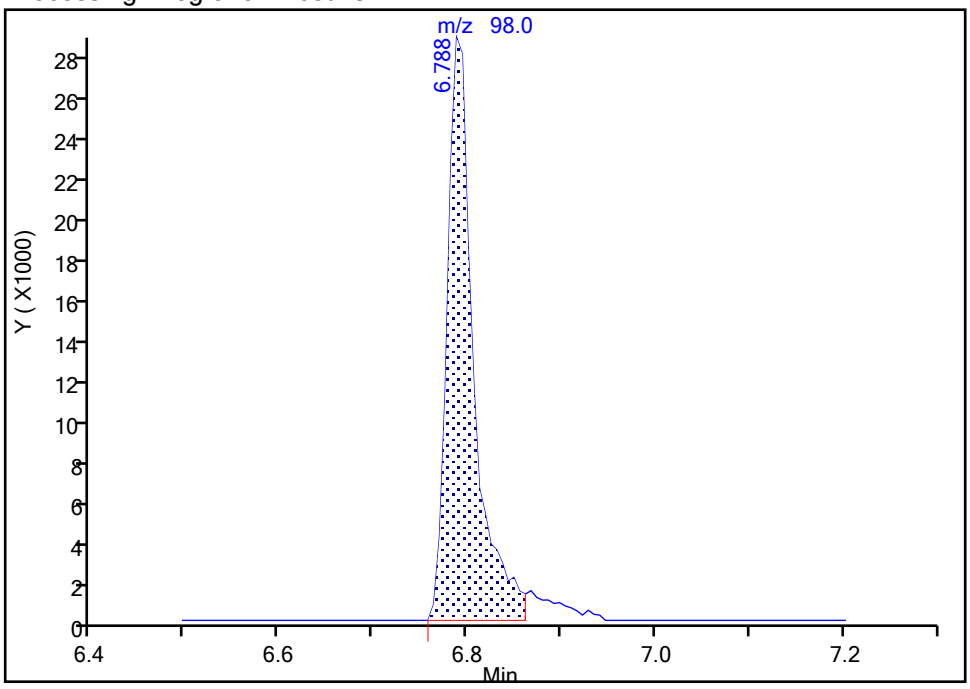
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D		
Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25
Client ID:	GW-111220-BE-042		
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

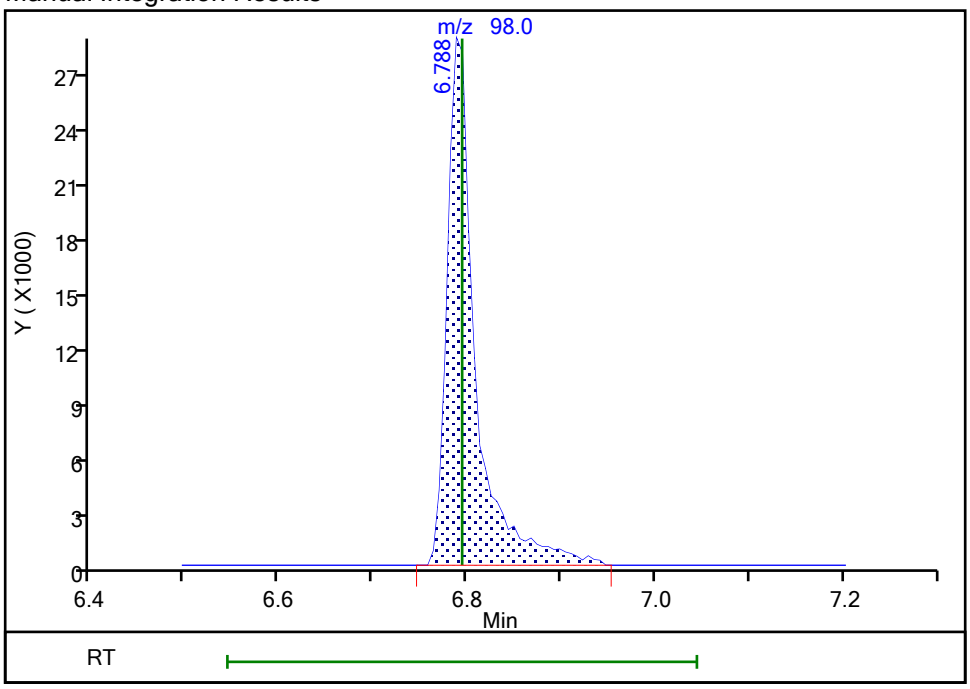
Processing Integration Results

RT: 6.79
Area: 55062
Amount: 45.632036
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 58420
Amount: 48.414942
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:28

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

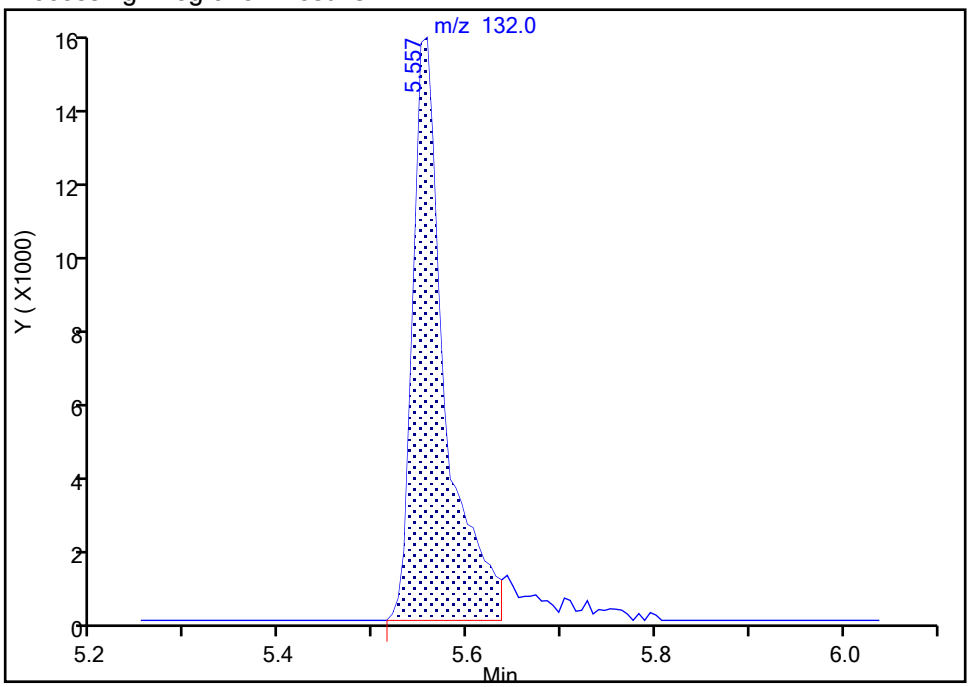
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D		
Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25
Client ID:	GW-111220-BE-042		
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

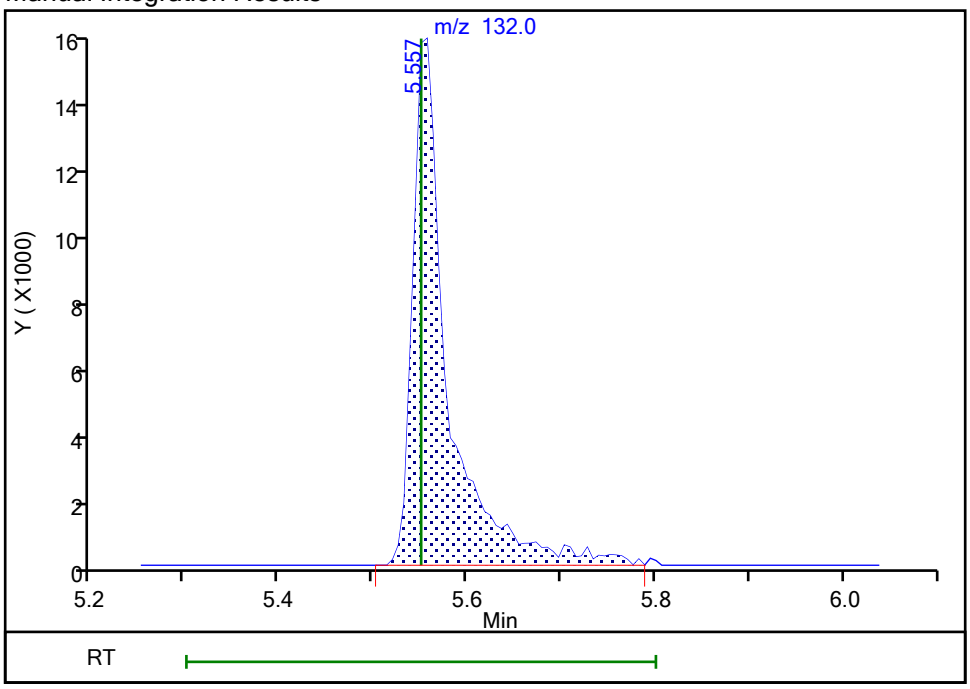
Processing Integration Results

RT: 5.56
Area: 37527
Amount: 23.098510
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 41451
Amount: 23.629208
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:45:37

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

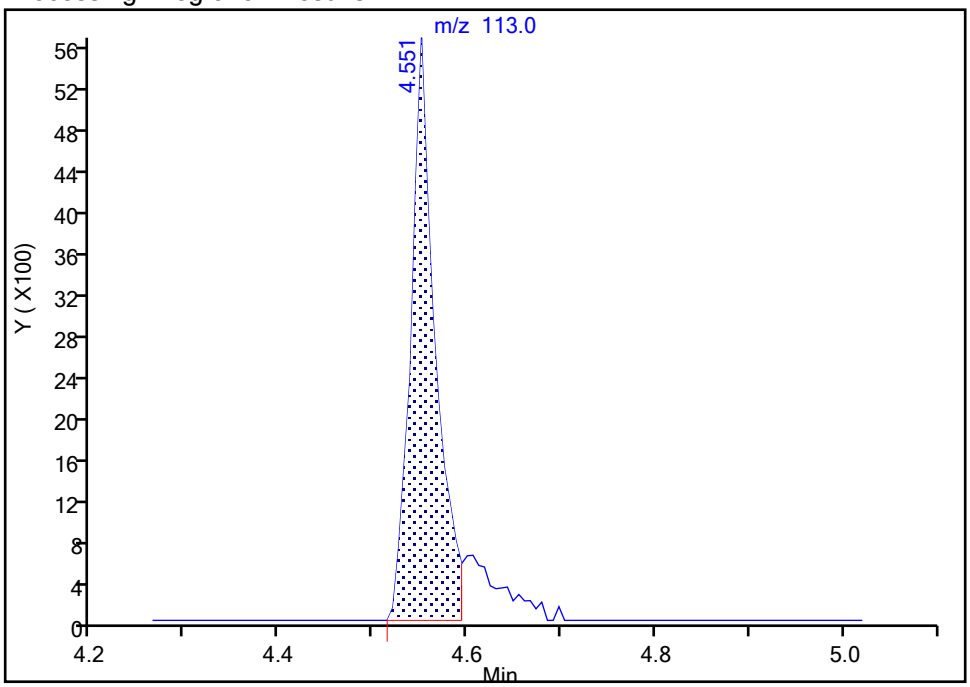
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D				
Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

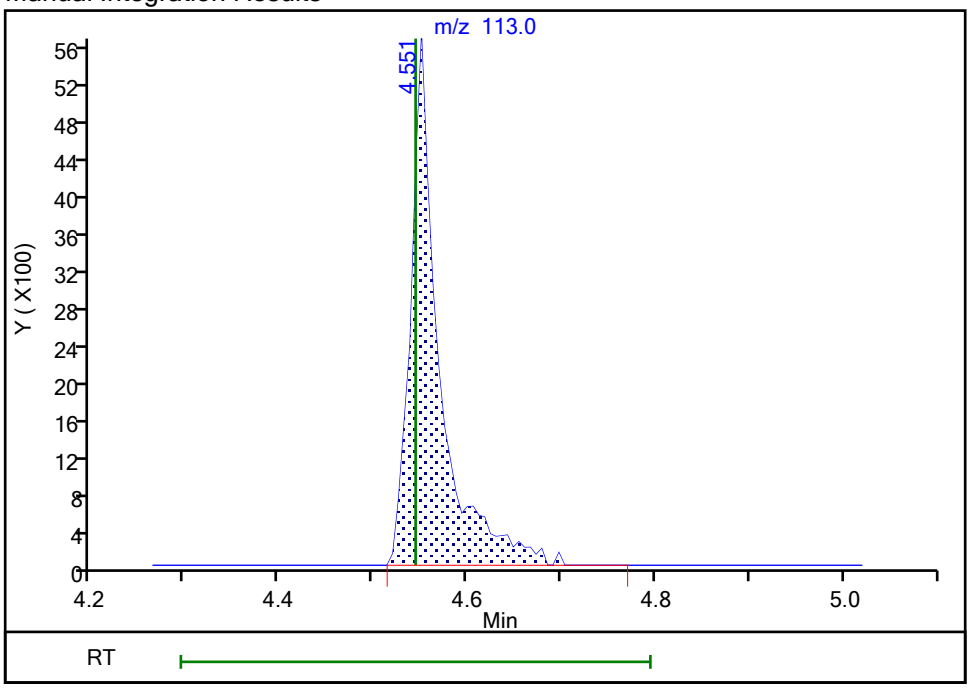
Processing Integration Results

RT: 4.55
Area: 10172
Amount: 46.521609
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 11938
Amount: 50.565463
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:33

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

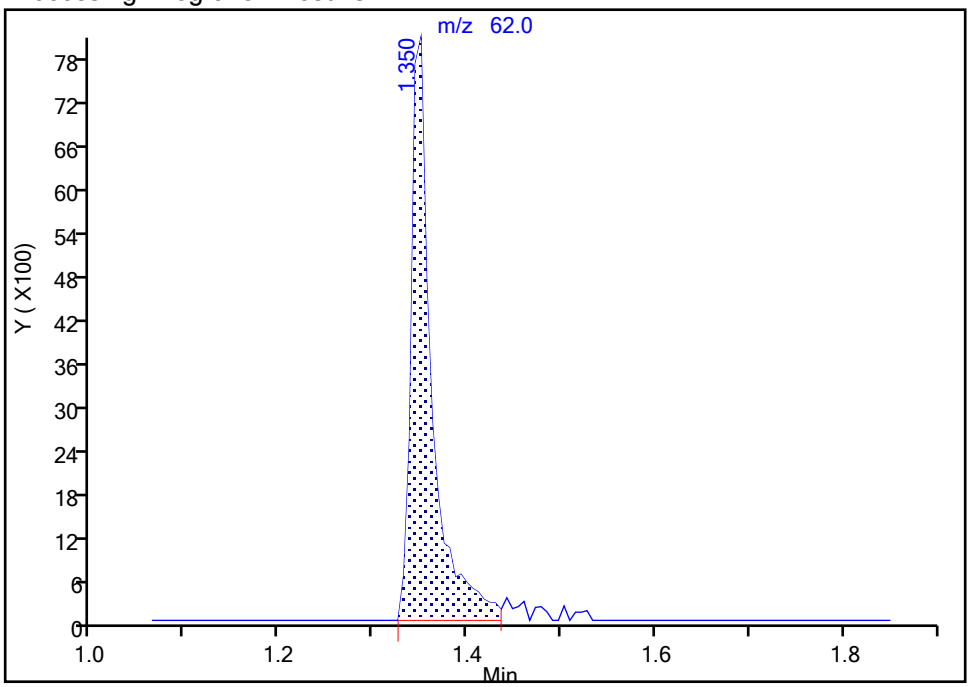
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D
Injection Date: 19-Nov-2020 10:17:30 Instrument ID: Hobbes
Lims ID: 240-140187-B-25 Lab Sample ID: 310-140187-25
Client ID: GW-111220-BE-042
Operator ID: ALS Bottle#: 2 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

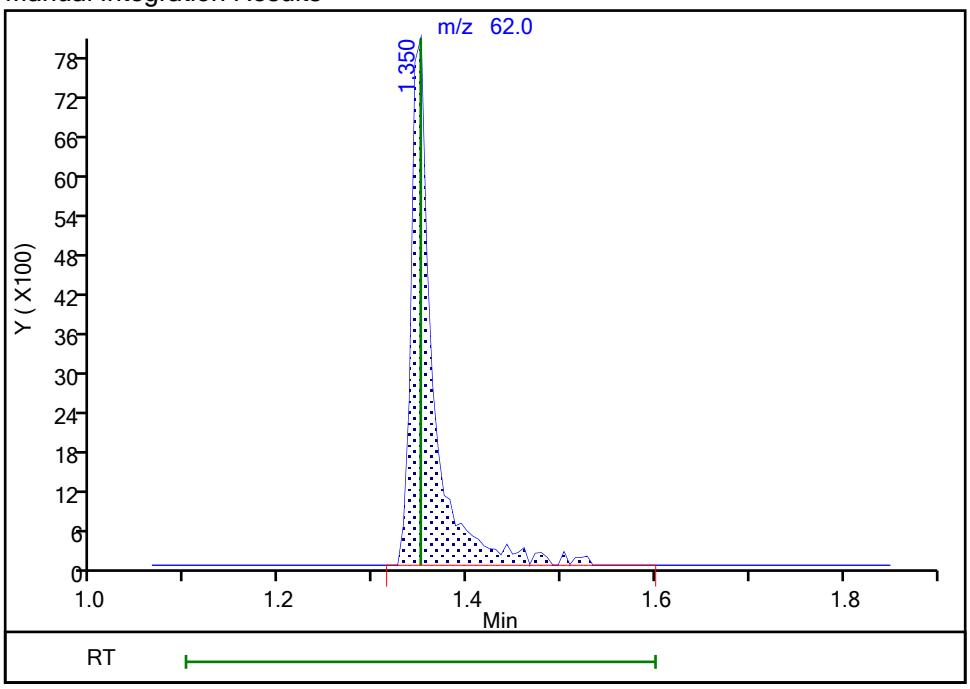
Processing Integration Results

RT: 1.35
Area: 12345
Amount: 4.621037
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 13070
Amount: 4.531041
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

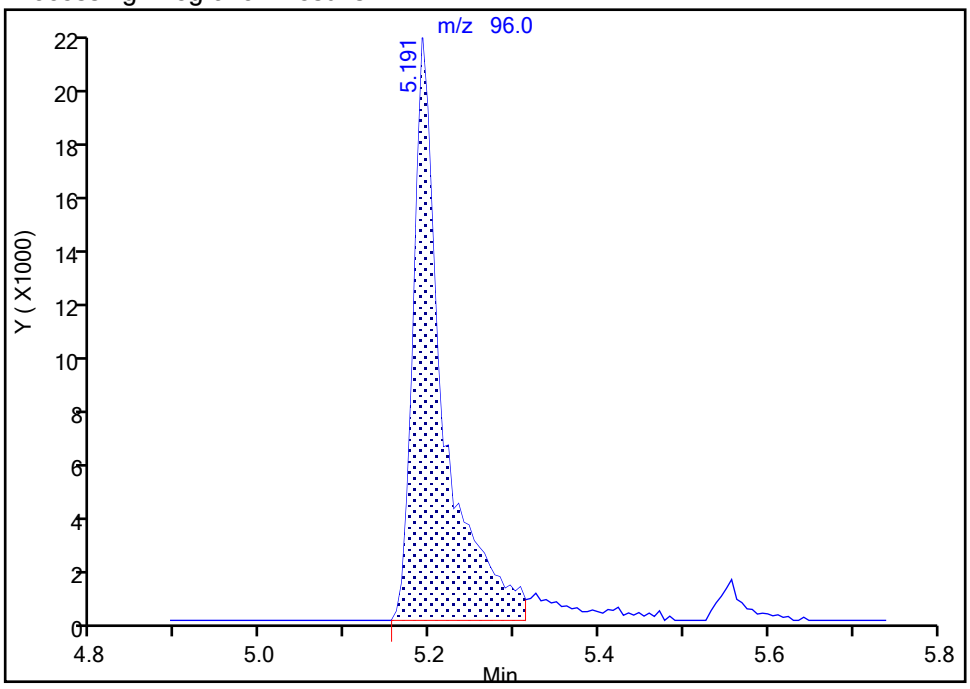
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D		
Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25
Client ID:	GW-111220-BE-042		
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

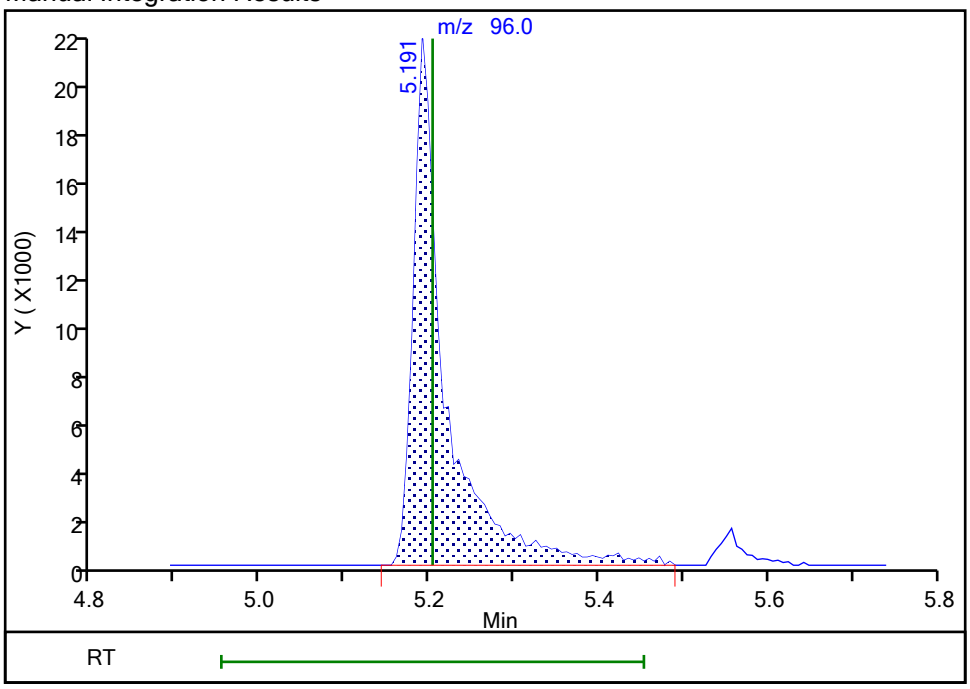
Processing Integration Results

RT: 5.19
Area: 52472
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 56657
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:42

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

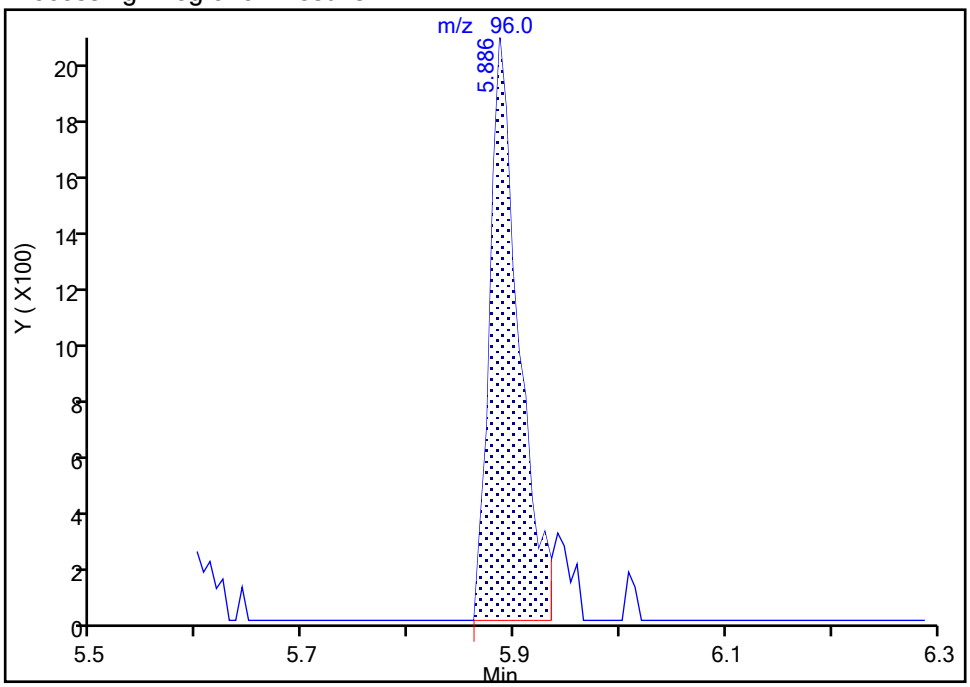
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4298.D				
Injection Date:	19-Nov-2020 10:17:30	Instrument ID:	Hobbes		
Lims ID:	240-140187-B-25	Lab Sample ID:	310-140187-25		
Client ID:	GW-111220-BE-042				
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

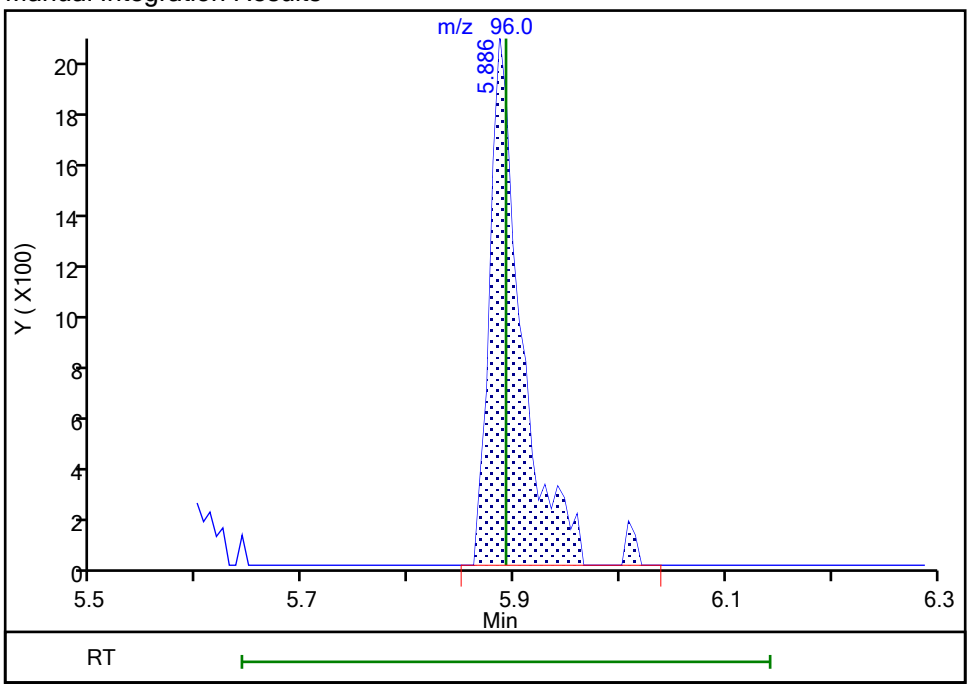
Processing Integration Results

RT: 5.89
Area: 3857
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 4287
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:38

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-043 Lab Sample ID: 240-140187-26

Matrix: Water Lab File ID: c8268.D

Analysis Method: 8260D Date Collected: 11/12/2020 14:02

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 22:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	110		1.0	0.22
75-35-4	1,1-Dichloroethene	23		2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	4.9		0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	79		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-043 Lab Sample ID: 240-140187-26

Matrix: Water Lab File ID: c8268.D

Analysis Method: 8260D Date Collected: 11/12/2020 14:02

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 22:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D
Lims ID: 240-140187-A-26
Client ID: GW-111220-BE-043
Sample Type: Client
Inject. Date: 18-Nov-2020 22:01:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:49:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.415	3.409	0.006	0	152	1000.0	
* 122 Fluorobenzene	96	5.458	5.452	0.006	98	178157	50.0	
* 121 1,4-Dioxane-d8	96		6.110				ND	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	126729	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	56483	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.799	4.787	0.012	91	43248	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	165935	51.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	45310	49.0	
$ 8 BFB	95	9.920	9.920	0.000	81	61107	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62	1.544	1.532	0.012	98	887424	270.3	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.458				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96	2.666	2.653	0.013	94	41807	22.8	
21 112TCTFE	101		2.672				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.836				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.958				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84		3.111				ND	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96	3.397	3.385	0.012	93	164637	78.8	
29 Methyl tert-butyl ether	73		3.397				ND	
31 Hexane	57		3.702				ND	
32 1,1-Dichloroethane	63	3.787	3.775	0.012	98	425773	108.6	
33 Vinyl acetate	86		3.848				ND	
34 2-Chloro-1,3-butadiene	53		3.873				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.238				ND	
38 2,2-Dichloropropane	77		4.324				ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	85	10127655	4233.8	E
40 2-Butanone (MEK)	43		4.348				ND	
41 Propionitrile	54		4.391				ND	
104 Ethyl acetate	61		4.421				ND	
43 Methacrylonitrile	67		4.543				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.641				ND	
46 1,1,1-Trichloroethane	97		4.805				ND	
47 Cyclohexane	56		4.860				ND	
48 Carbon tetrachloride	117		4.964				ND	
49 1,1-Dichloropropene	75		4.976				ND	
108 Isobutyl alcohol	43		5.122				ND	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	39	769	0.2640	
50 Benzene	78	5.183	5.177	0.006	98	44874	4.87	
116 n-Butanol	56		5.293				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.482				ND	
54 Trichloroethene	95	5.805	5.805	0.000	96	628144	266.9	
117 Ethyl acrylate	55		5.933				ND	
114 Methylcyclohexane	83		6.012				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.122				ND	
57 Methyl methacrylate	69		6.165				ND	
115 1,4-Dioxane	58		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.823				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.762	8.756	0.006	1	203	0.0183	a
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	1	119	0.0275	a
75 o-Xylene	106		9.335				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.896				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.389				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	
96 1,2,4-Trichlorobenzene	180		12.950				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.980				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
139 C6-C12	1		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1				0		4312.6	E
S 100 Xylenes, Total	1				0		0.0275	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

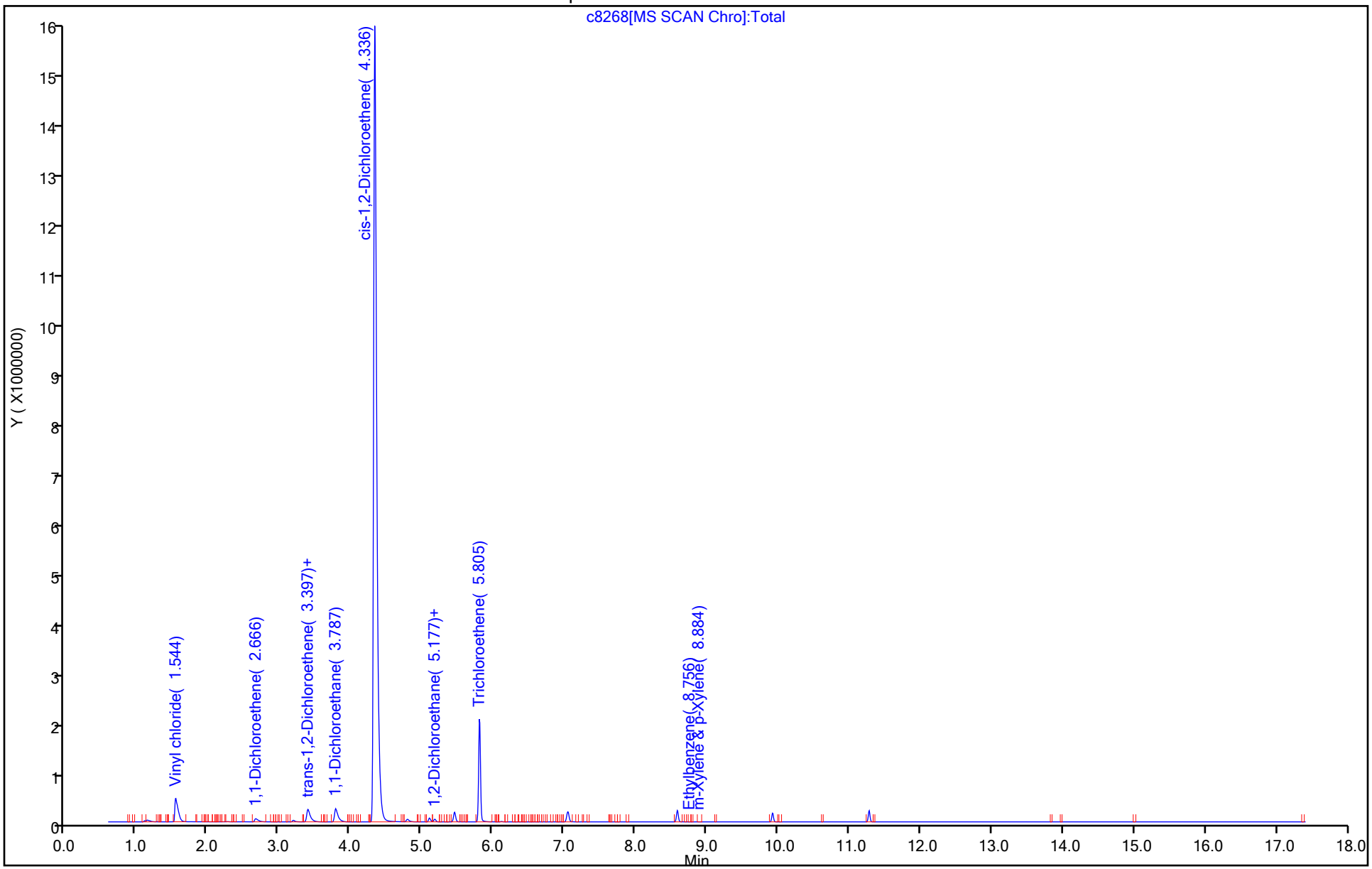
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 11:16:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D				
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26	Worklist Smp#:	14
Client ID:	GW-111220-BE-043				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D
Lims ID: 240-140187-A-26
Client ID: GW-111220-BE-043
Sample Type: Client
Inject. Date: 18-Nov-2020 22:01:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:49:07

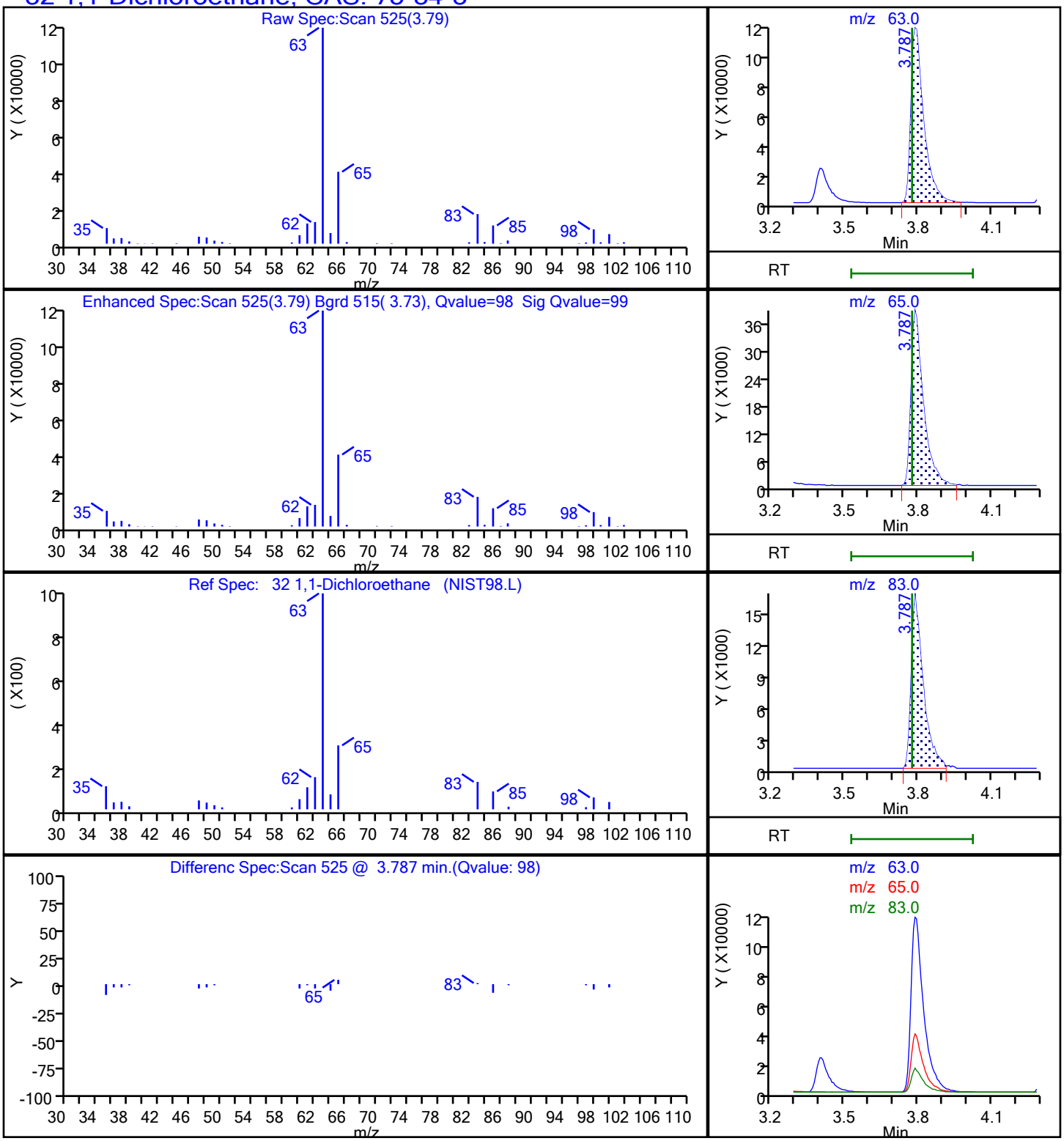
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.2	108.33
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.14
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	98.07

Report Date: 19-Nov-2020 11:16:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D				
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26		
Client ID:	GW-111220-BE-043				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

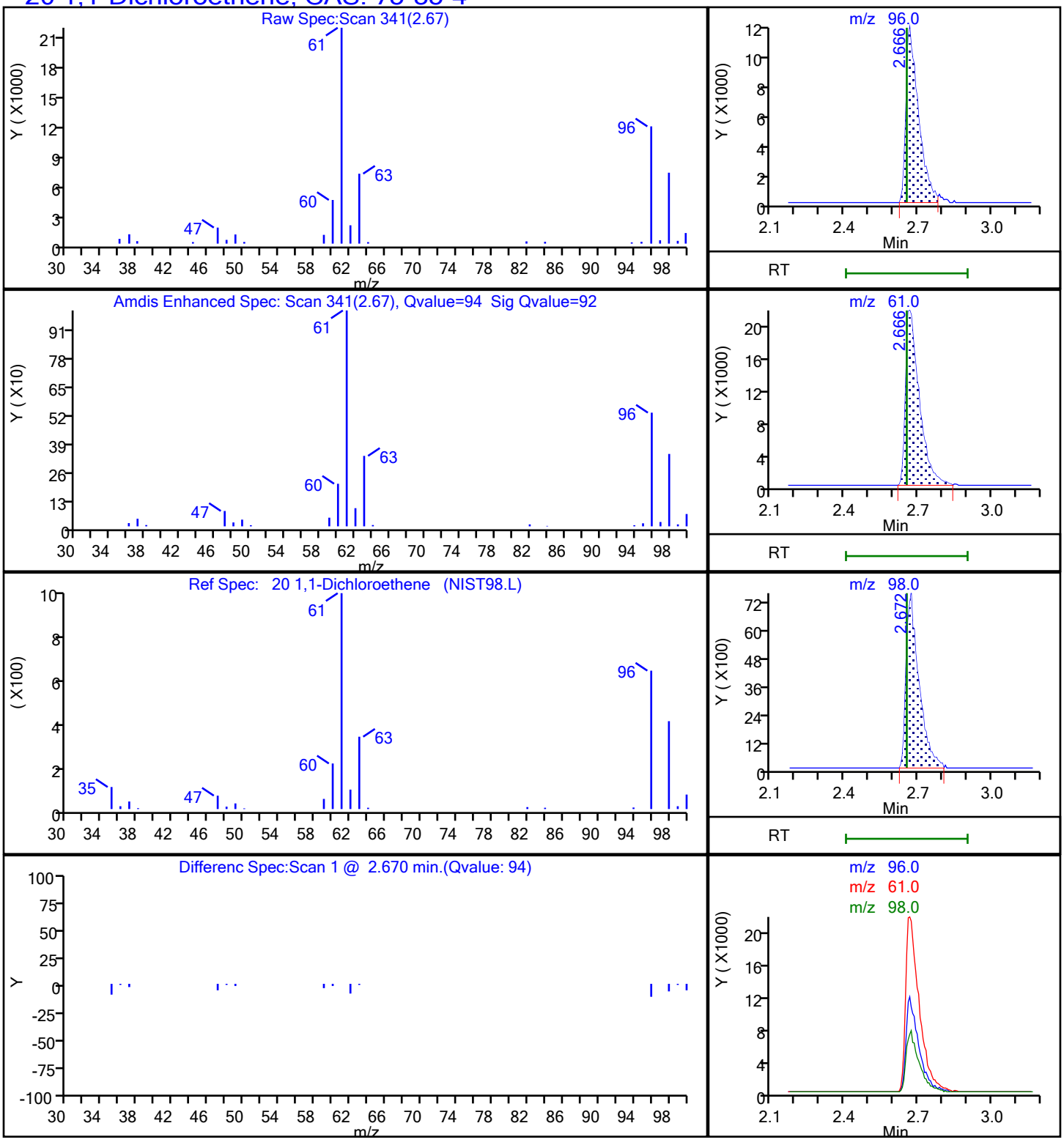


Report Date: 19-Nov-2020 11:16:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D				
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26		
Client ID:	GW-111220-BE-043				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

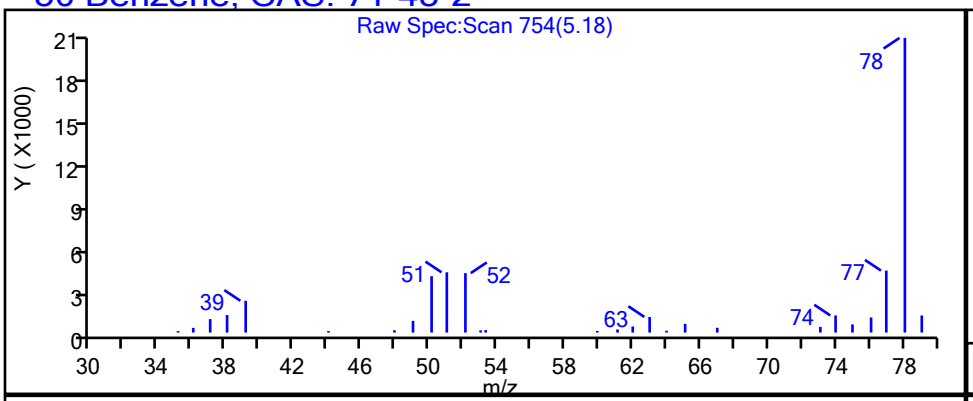


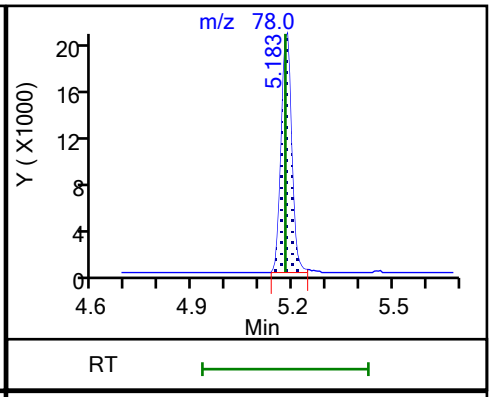
Report Date: 19-Nov-2020 11:16:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

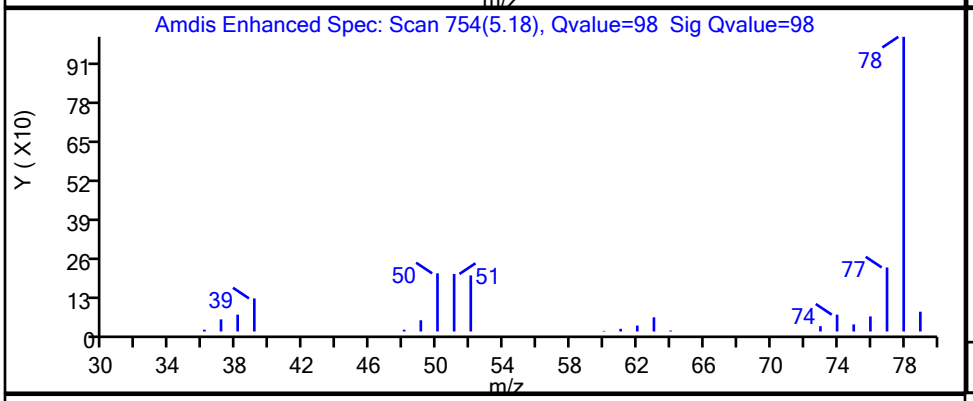
Eurofins TestAmerica, Cedar Falls

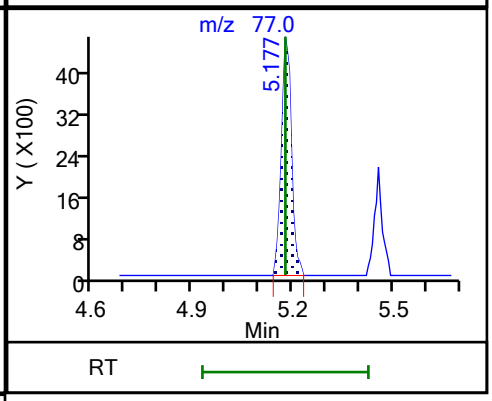
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D				
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26		
Client ID:	GW-111220-BE-043				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

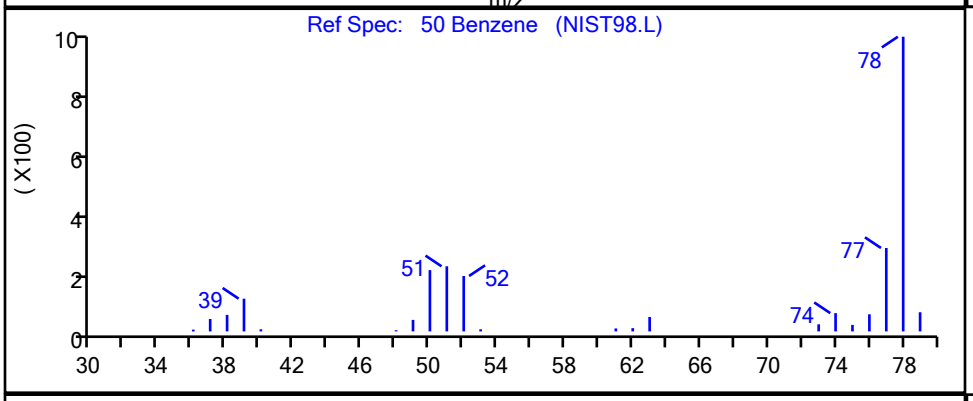
50 Benzene, CAS: 71-43-2

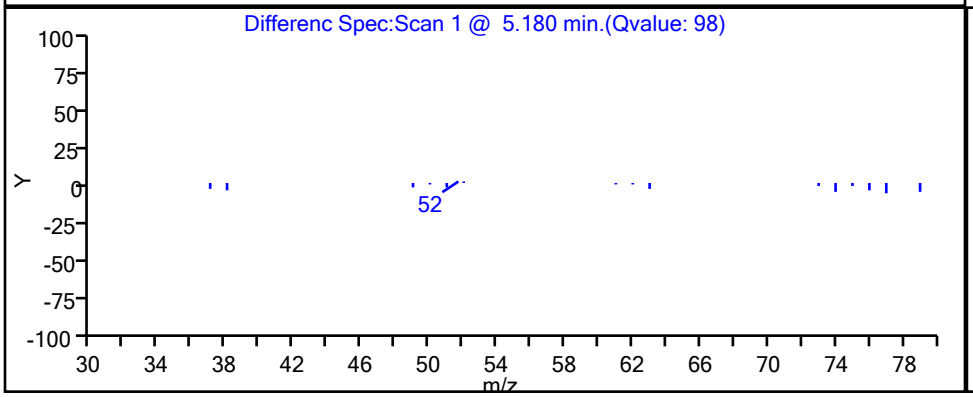


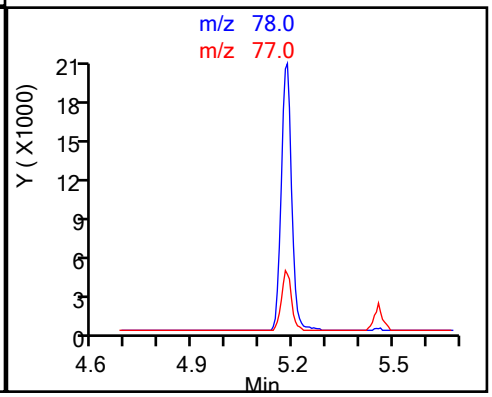










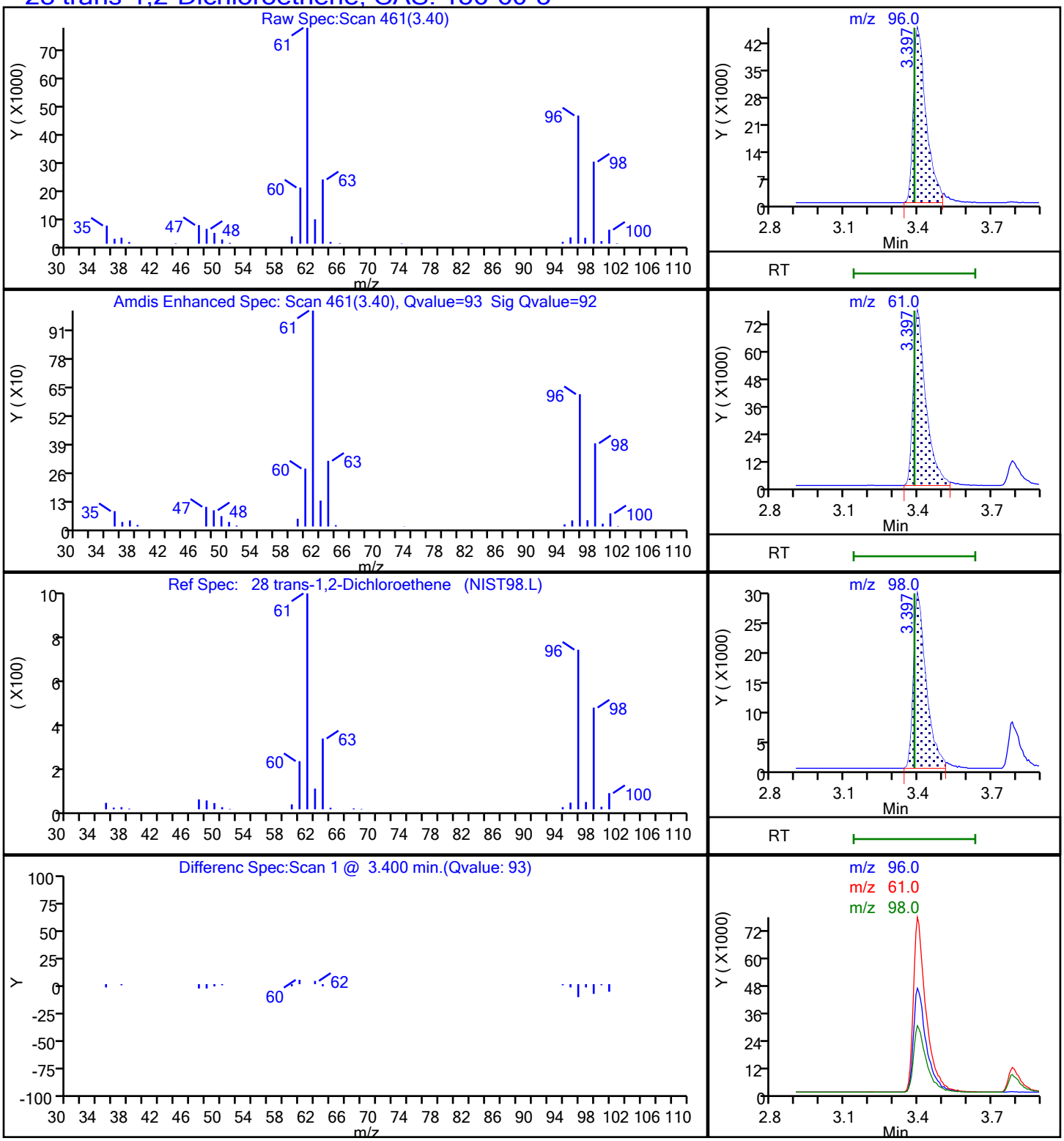


Report Date: 19-Nov-2020 11:16:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D				
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26		
Client ID:	GW-111220-BE-043				
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

28 trans-1,2-Dichloroethene, CAS: 156-60-5



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

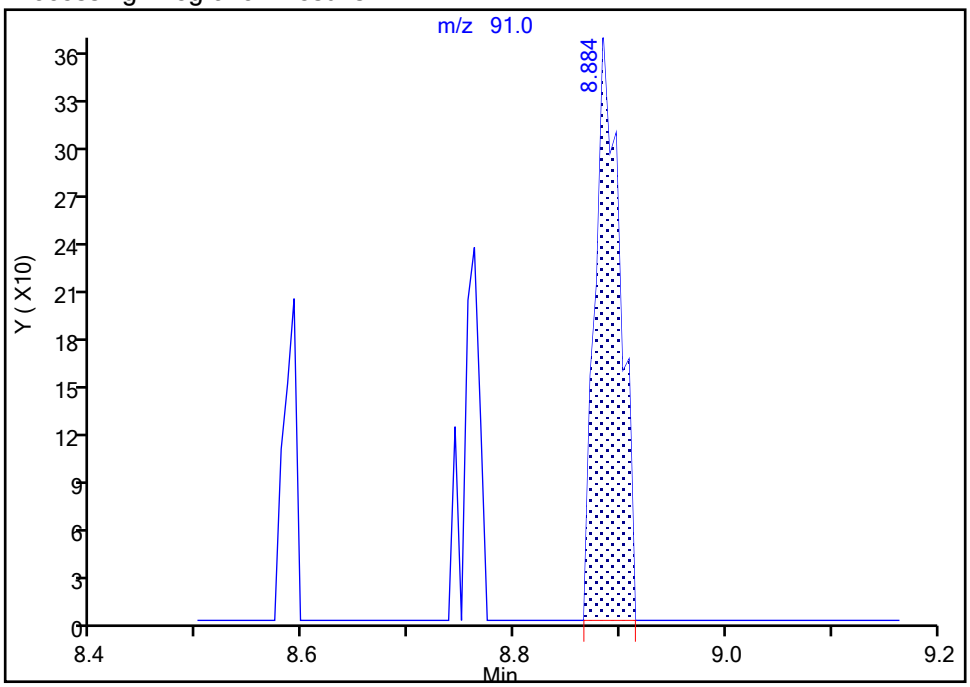
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D		
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:	sjn	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

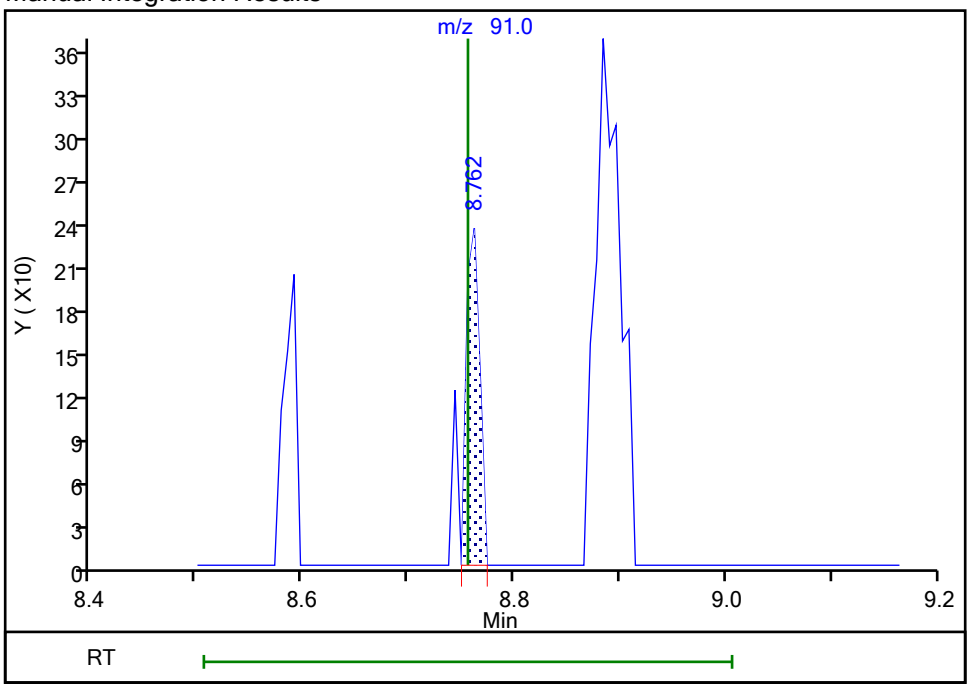
Processing Integration Results

RT: 8.88
Area: 600
Amount: 0.053944
Amount Units: ug/l



Manual Integration Results

RT: 8.76
Area: 203
Amount: 0.018251
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:48:37

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

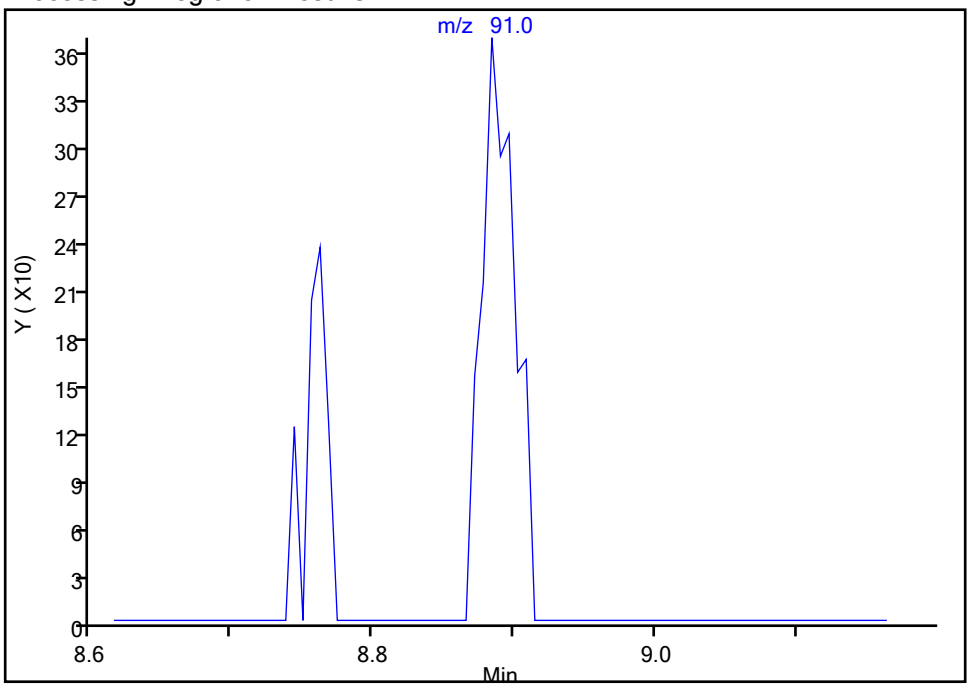
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8268.D		
Injection Date:	18-Nov-2020 22:01:30	Instrument ID:	Calvin
Lims ID:	240-140187-A-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:	sjn	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

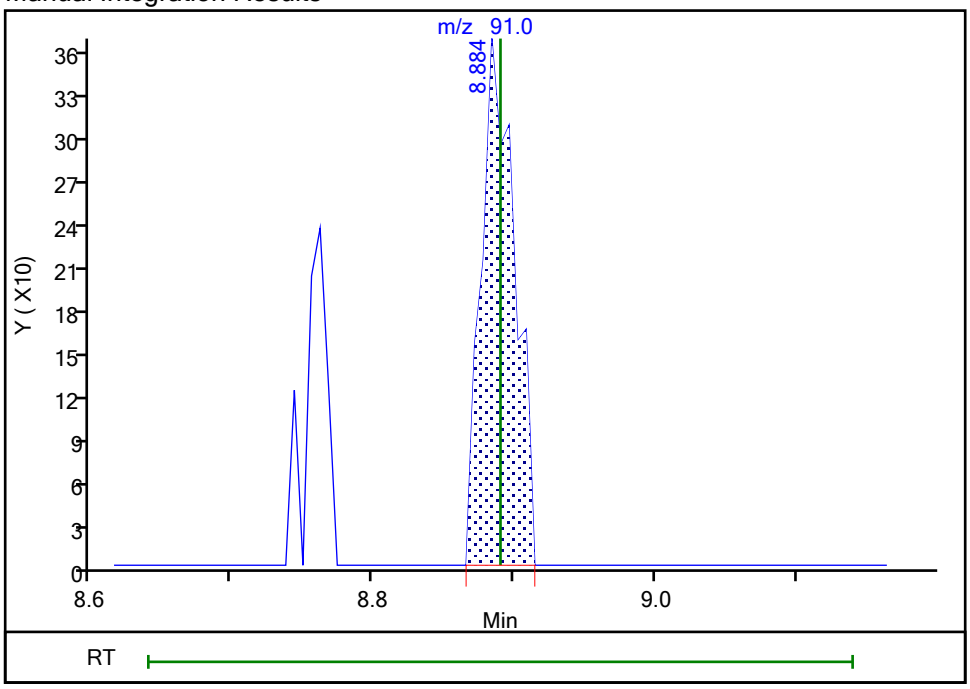
Not Detected
Expected RT: 8.89

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 600
Amount: 0.027482
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:48:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111220-BE-043 Lab Sample ID: 240-140187-26

Matrix: Water Lab File ID: H4299.D

Analysis Method: 8260D Date Collected: 11/12/2020 14:02

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 10:40

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	200	U	200	40
156-59-2	cis-1,2-Dichloroethene	3100		50	11
79-01-6	Trichloroethene	180		50	22
75-01-4	Vinyl chloride	220		50	9.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	95		79-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D
Lims ID: 240-140187-B-26
Client ID: GW-111220-BE-043
Sample Type: Client
Inject. Date: 19-Nov-2020 10:40:30 ALS Bottle#: 3 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-027
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:48:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.984	-0.012	0	43412	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.868	4.868	0.000	0	19578	0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	97	59372	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	85	4592	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	91	56251	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	33980	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	90	12300	49.7	
$ 6 Toluene-d8 (Surr)	98	6.788	6.794	-0.006	96	60026	47.5	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.684	-0.006	0	22510	51.5	
$ 8 BFB	95	9.678	9.684	-0.006	83	28471	NR	
9 Dichlorodifluoromethane	85		1.124				ND	U
10 Chloromethane	50	1.271	1.265	0.006	39	893	0.1658	M
11 Vinyl chloride	62	1.350	1.350	0.000	97	13512	4.47	M
12 Butadiene	54		1.387				ND	
13 Bromomethane	94		1.612				ND	
14 Chloroethane	64		1.698				ND	
15 Dichlorofluoromethane	67		1.893				ND	
16 Trichlorofluoromethane	101		1.929				ND	
17 Ethanol	45		2.161				ND	
18 Ethyl ether	59		2.222				ND	
19 Acrolein	56		2.332				ND	
20 1,1-Dichloroethene	96	2.405	2.411	-0.006	1	233	0.5863	M
21 112TCTFE	101		2.423				ND	
22 Acetone	43		2.490				ND	
23 Iodomethane	142		2.533				ND	
24 Carbon disulfide	76		2.582				ND	
105 Isopropyl alcohol	45		2.673				ND	
118 Acetonitrile	40		2.740				ND	
25 3-Chloro-1-propene	76		2.758				ND	
26 Methyl acetate	43		2.807				ND	
27 Methylene Chloride	84		2.874				ND	
35 2-Methyl-2-propanol	59		3.057				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124				ND	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	84	1808	1.19	M
29 Methyl tert-butyl ether	73		3.155				ND	
31 Hexane	57		3.392				ND	
32 1,1-Dichloroethane	63	3.527	3.526	0.001	94	5169	1.51	M
33 Vinyl acetate	86		3.618				ND	
34 2-Chloro-1,3-butadiene	53		3.618				ND	
36 Isopropyl ether	87		3.636				ND	
37 Tert-butyl ethyl ether	59		3.978				ND	
38 2,2-Dichloropropane	77		4.069				ND	
39 cis-1,2-Dichloroethene	96	4.081	4.087	-0.006	87	116153	62.8	
40 2-Butanone (MEK)	43		4.136				ND	
41 Propionitrile	54		4.185				ND	
104 Ethyl acetate	43		4.203				ND	
42 Chlorobromomethane	128		4.307				ND	
43 Methacrylonitrile	67		4.325				ND	
44 Tetrahydrofuran	71		4.380				ND	
45 Chloroform	83	4.398	4.398	0.000	90	1402	0.5181	
46 1,1,1-Trichloroethane	97		4.551				ND	
47 Cyclohexane	56		4.599				ND	
48 Carbon tetrachloride	117		4.709				ND	
49 1,1-Dichloropropene	75		4.721				ND	
50 Benzene	78	4.917	4.916	0.001	1	456	0.0741	M
108 Isobutyl alcohol	43		4.923				ND	
51 1,2-Dichloroethane	62		4.941				ND	
116 n-Butanol	56		5.008				ND	
52 Tert-amyl methyl ether	73		5.057				ND	
53 n-Heptane	43		5.203				ND	
54 Trichloroethene	132	5.551	5.550	0.001	94	6777	3.69	M
117 Ethyl acrylate	55		5.709				ND	
114 Methylcyclohexane	83		5.733				ND	
55 1,2-Dichloropropane	63		5.776				ND	
56 Dibromomethane	93		5.886				ND	
57 Methyl methacrylate	69		5.935				ND	
115 1,4-Dioxane	58		5.935				ND	
58 Dichlorobromomethane	83	6.057	6.063	-0.006	2	214	0.1794	
106 2-Nitropropane	43		6.306				ND	
59 2-Chloroethyl vinyl ether	63		6.398				ND	
60 cis-1,3-Dichloropropene	75		6.520				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709				ND	
62 Toluene	92		6.861				ND	
63 trans-1,3-Dichloropropene	75		7.111				ND	
64 Ethyl methacrylate	69		7.239				ND	
65 1,1,2-Trichloroethane	83		7.300				ND	
66 Tetrachloroethene	166		7.434				ND	
67 1,3-Dichloropropane	76		7.477				ND	
68 2-Hexanone	43		7.599				ND	
69 Chlorodibromomethane	129		7.709				ND	
109 n-Butyl acetate	43		7.751				ND	
70 Ethylene Dibromide	107		7.818				ND	
71 Chlorobenzene	112		8.373				ND	
72 1,1,1,2-Tetrachloroethane	131		8.471				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.513	8.507	0.006	1	314	0.0431	M
74 m-Xylene & p-Xylene	106	8.647	8.647	0.000	1	0	0	M
75 o-Xylene	106		9.086				ND	
120 Methyl n-amyl ketone TIC	1		9.100				ND	
76 Styrene	104		9.105				ND	
77 Bromoform	173		9.294				ND	
78 Isopropylbenzene	105		9.519				ND	
79 Bromobenzene	156		9.842				ND	
80 1,1,2,2-Tetrachloroethane	83		9.873				ND	
81 1,2,3-Trichloropropane	75		9.909				ND	
82 trans-1,4-Dichloro-2-butene	53		9.940				ND	
83 N-Propylbenzene	91		10.001				ND	
84 2-Chlorotoluene	91		10.080				ND	
85 4-Chlorotoluene	91		10.208				ND	
86 1,3,5-Trimethylbenzene	105		10.214				ND	
87 tert-Butylbenzene	119		10.586				ND	
88 1,2,4-Trimethylbenzene	105		10.647				ND	
89 sec-Butylbenzene	105		10.854				ND	
90 1,3-Dichlorobenzene	146		10.952				ND	
91 4-Isopropyltoluene	119		11.037				ND	
92 1,4-Dichlorobenzene	146		11.062				ND	
110 1,2,3-Trimethylbenzene	105		11.141				ND	
113 Benzyl chloride	126		11.232				ND	
93 1,2-Dichlorobenzene	146		11.501				ND	
94 n-Butylbenzene	91		11.519				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.439				ND	
112 1,3,5-Trichlorobenzene	180		12.695				ND	
96 1,2,4-Trichlorobenzene	180		13.445				ND	
97 Hexachlorobutadiene	225		13.671				ND	
98 Naphthalene	128	13.726	13.726	0.000	1	684	0.1040	M
99 1,2,3-Trichlorobenzene	180		14.024				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
139 C6-C12	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
133 Isooctane	57		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
137 C6-C10	1		0.000				ND	
136 n-Decane	57		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
S 101 1,2-Dichloroethene, Total	1				0		64.0	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 128 1,1-Dichloroacetone TIC	43		6.477				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

U - Marked Undetected

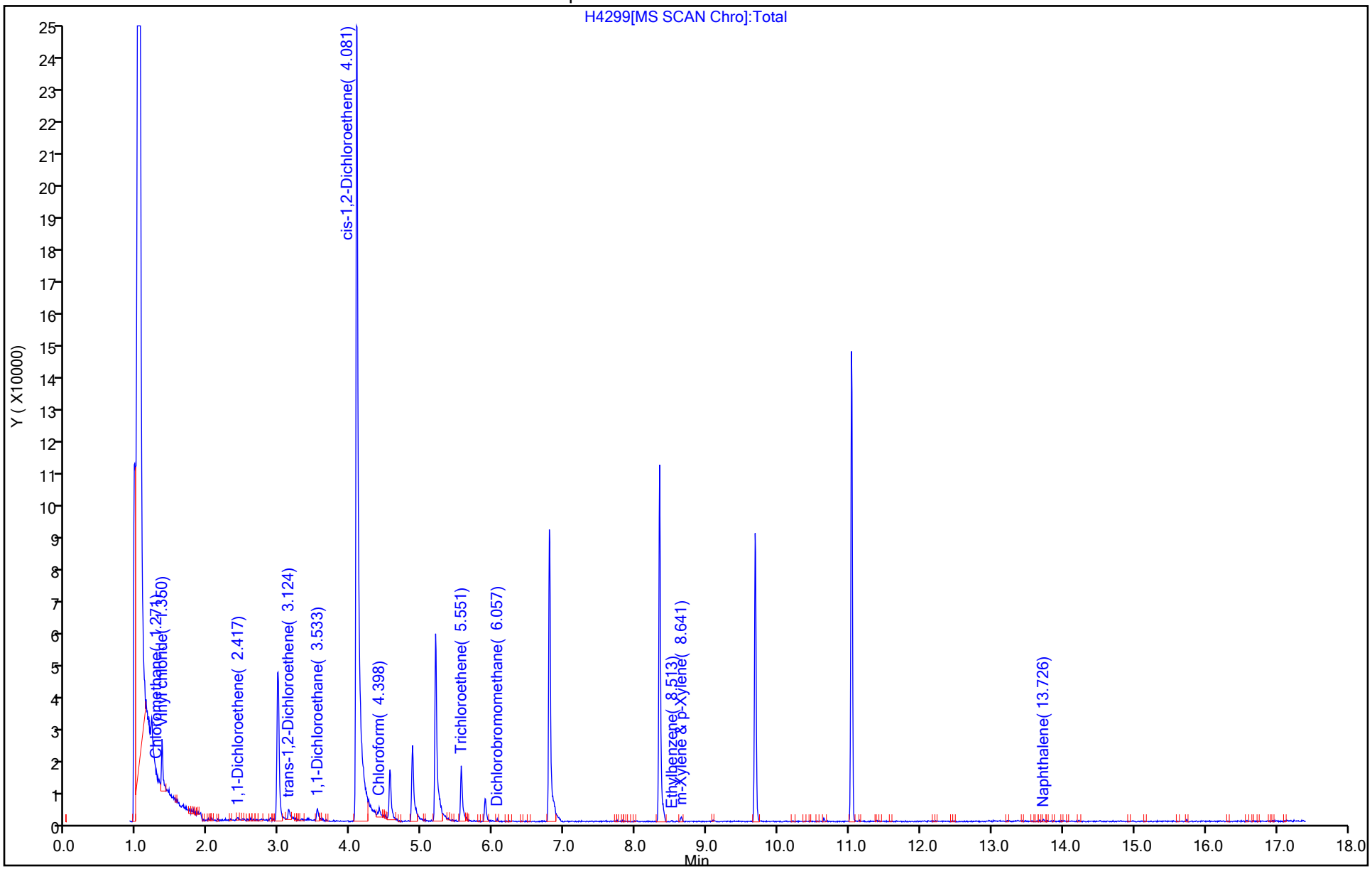
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:58:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D				
Injection Date:	19-Nov-2020 10:40:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	240-140187-B-26	Lab Sample ID:	310-140187-26	Worklist Smp#:	27
Client ID:	GW-111220-BE-043				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	3
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D
Lims ID: 240-140187-B-26
Client ID: GW-111220-BE-043
Sample Type: Client
Inject. Date: 19-Nov-2020 10:40:30 ALS Bottle#: 3 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062726-027
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 06:48:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	49.7	4971.64
$ 6 Toluene-d8 (Surr)	50.0	47.5	4748.28
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	5147.71

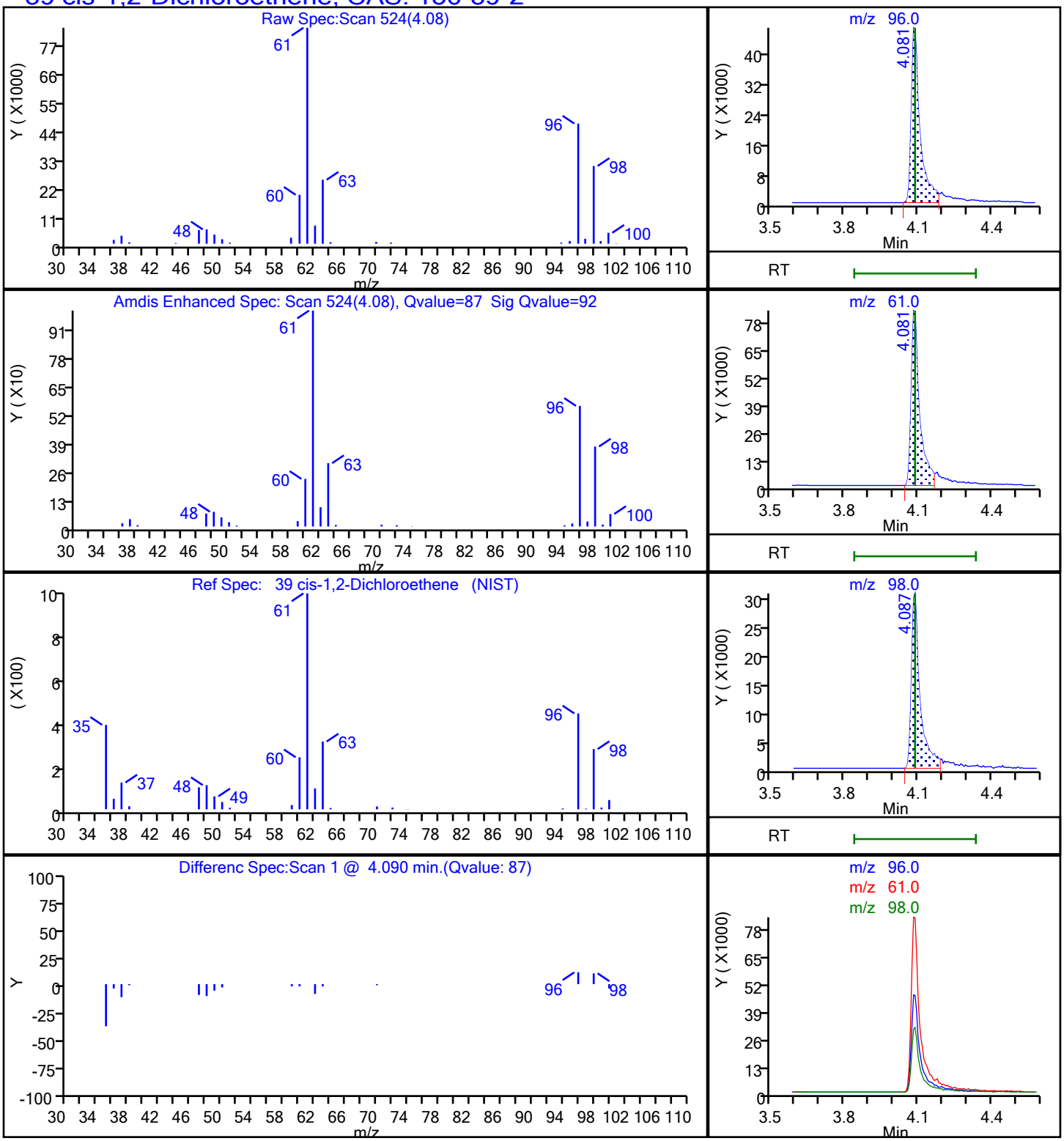
Report Date: 20-Nov-2020 06:58:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D

Injection Date:	19-Nov-2020 10:40:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Report Date: 20-Nov-2020 06:58:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D

Injection Date: 19-Nov-2020 10:40:30 Instrument ID: Hobbes

Lims ID: 240-140187-B-26 Lab Sample ID: 310-140187-26

Client ID: GW-111220-BE-043

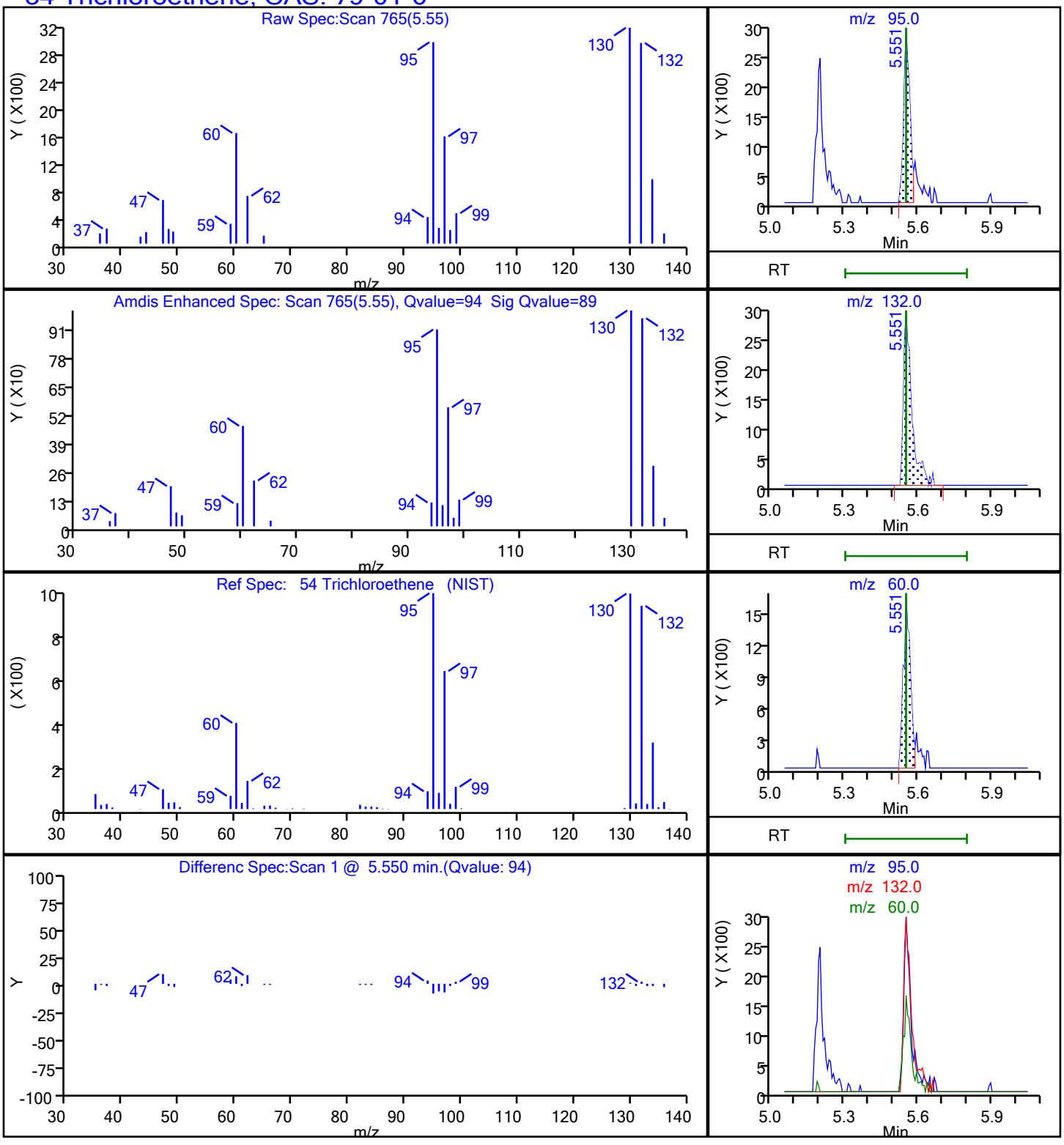
Operator ID: ALS Bottle#: 3 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 50.0000

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6



Report Date: 20-Nov-2020 06:58:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D

Injection Date: 19-Nov-2020 10:40:30 Instrument ID: Hobbes

Lims ID: 240-140187-B-26 Lab Sample ID: 310-140187-26

Client ID: GW-111220-BE-043

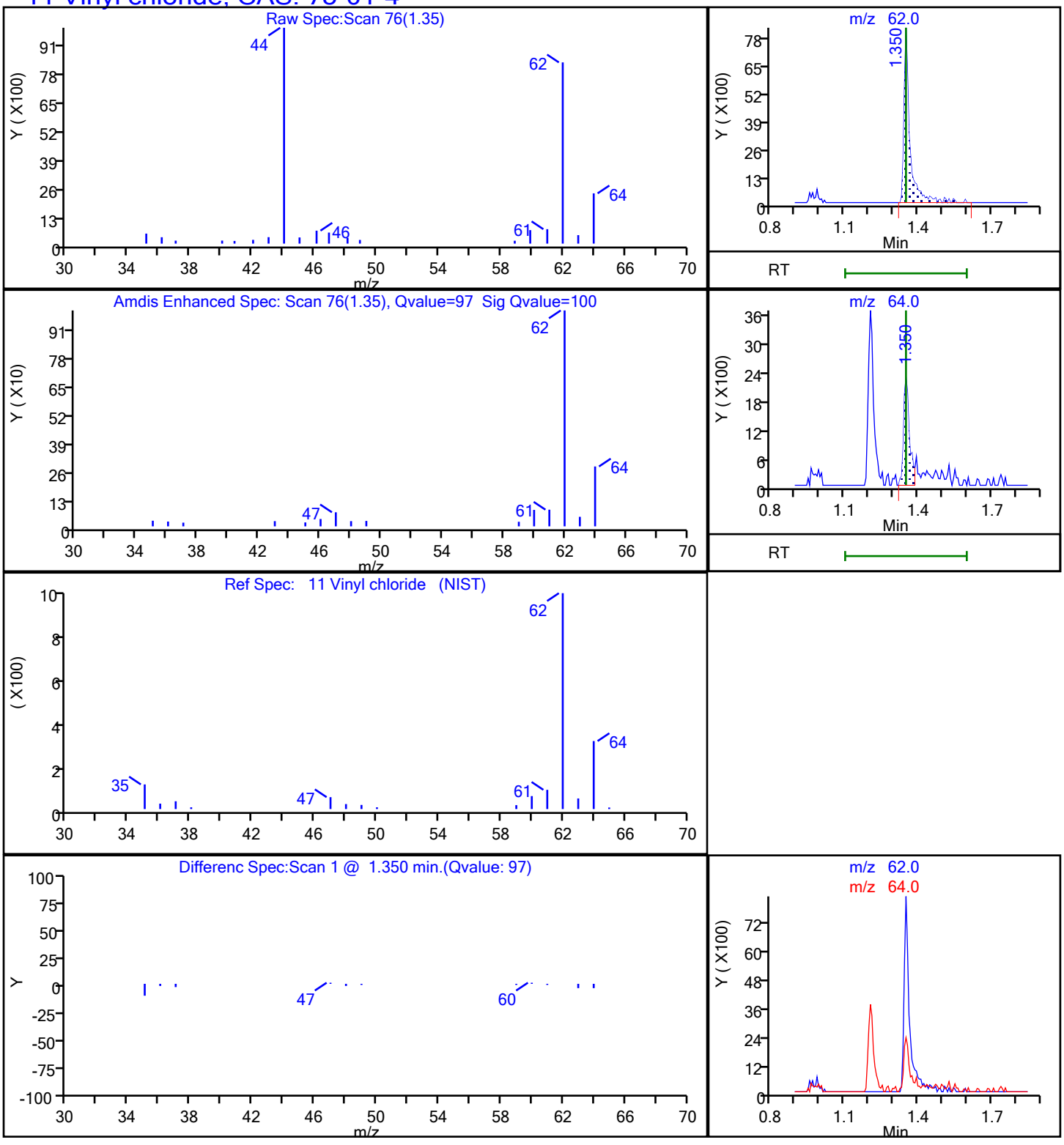
Operator ID: ALS Bottle#: 3 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 50.0000

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

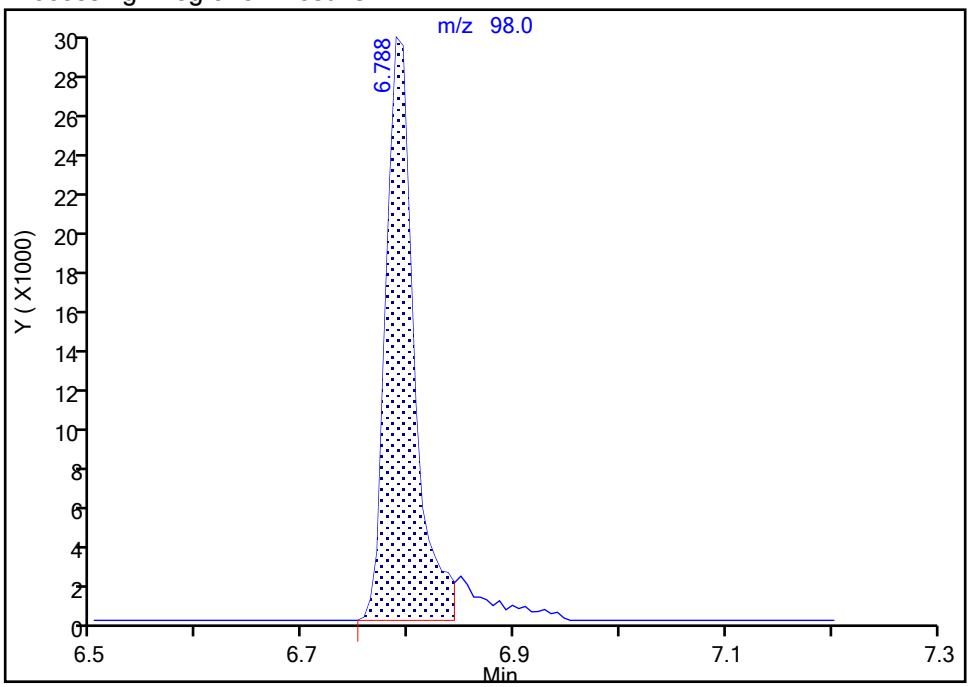
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D		
Injection Date:	19-Nov-2020 10:40:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

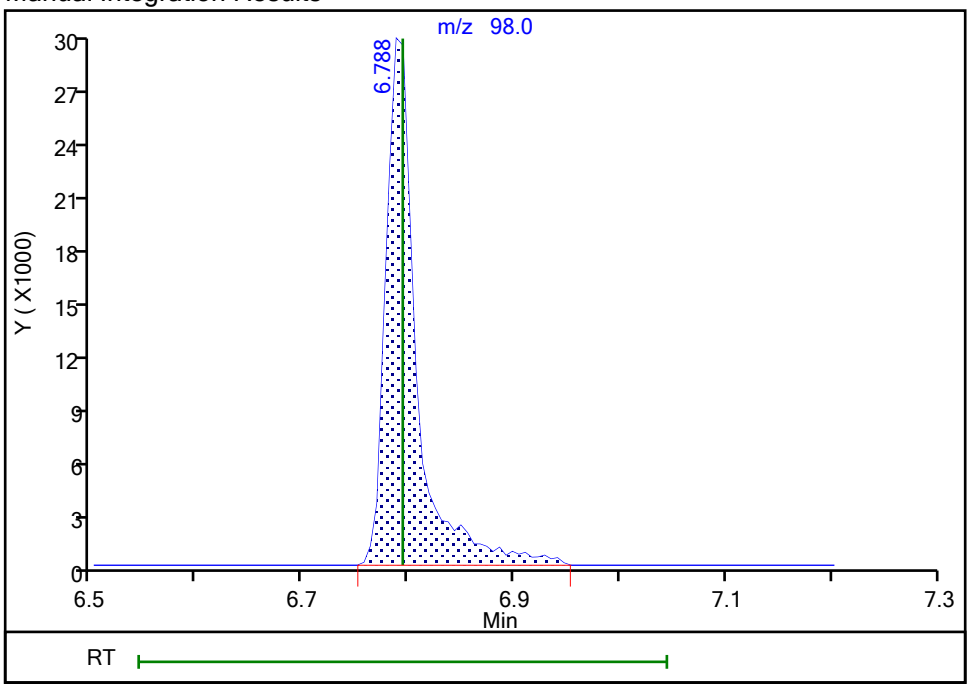
Processing Integration Results

RT: 6.79
Area: 54856
Amount: 43.393165
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 60026
Amount: 47.482830
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:47:04

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

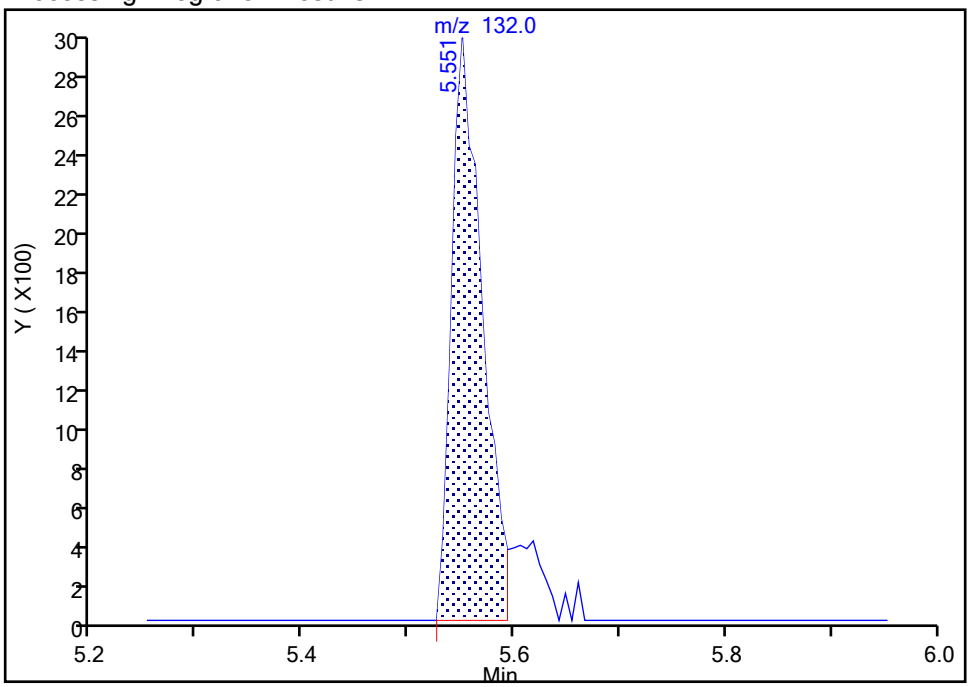
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D		
Injection Date:	19-Nov-2020 10:40:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

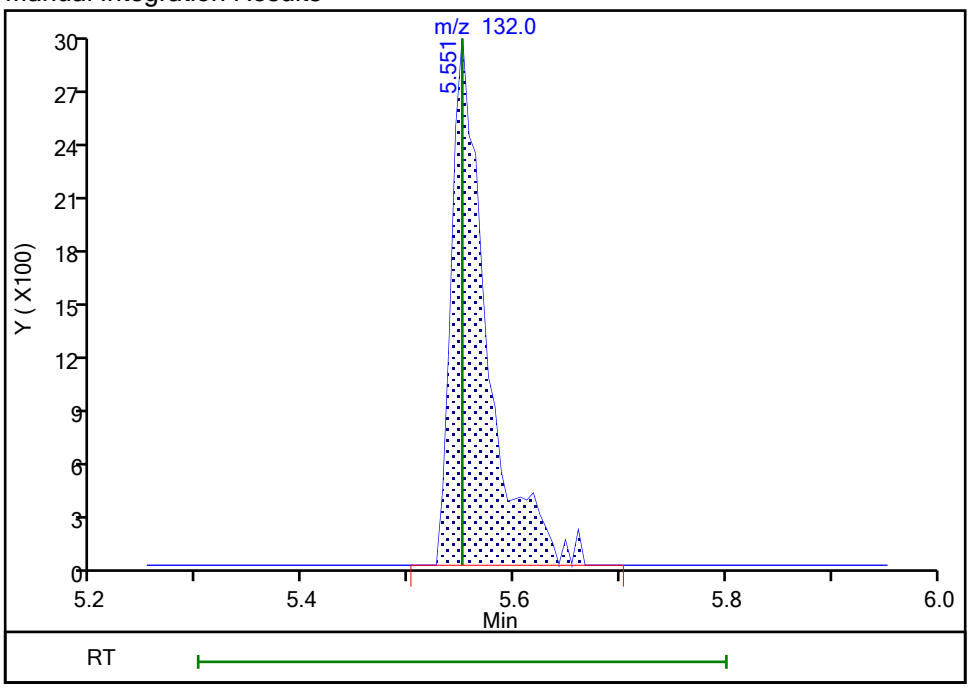
Processing Integration Results

RT: 5.55
Area: 5890
Amount: 3.204065
Amount Units: ug/l



Manual Integration Results

RT: 5.55
Area: 6777
Amount: 3.686579
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:47:51

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

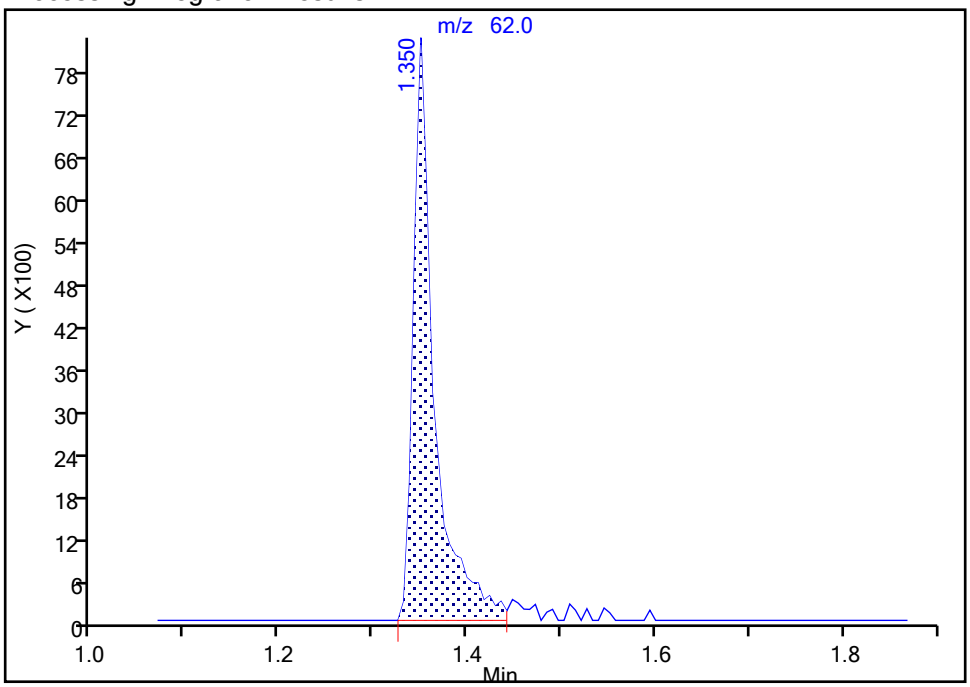
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D
Injection Date: 19-Nov-2020 10:40:30 Instrument ID: Hobbes
Lims ID: 240-140187-B-26 Lab Sample ID: 310-140187-26
Client ID: GW-111220-BE-043
Operator ID: ALS Bottle#: 3 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

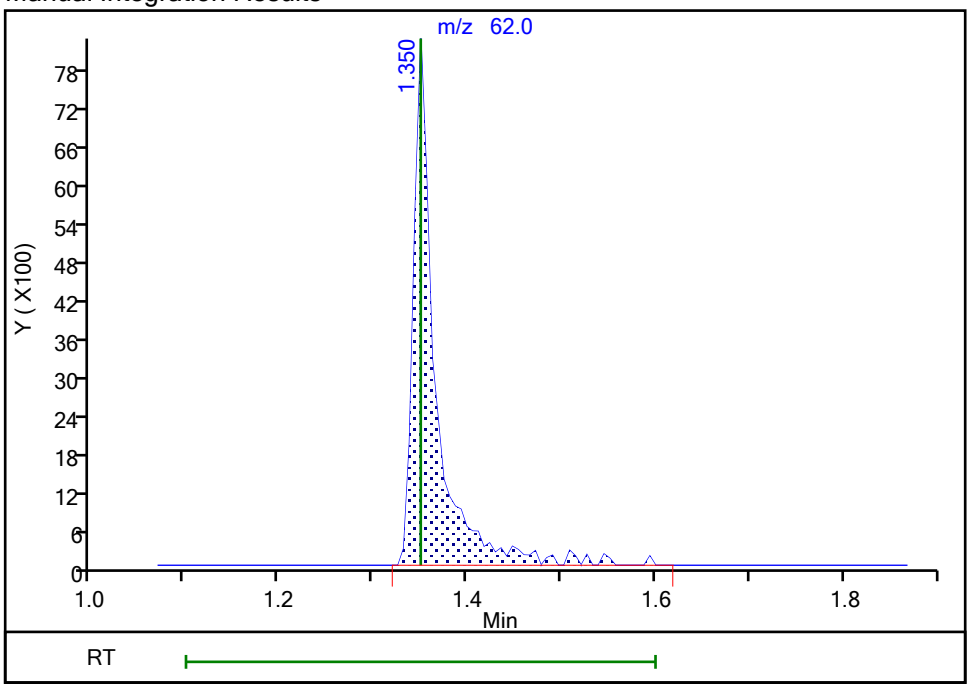
Processing Integration Results

RT: 1.35
Area: 12665
Amount: 4.189860
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 13512
Amount: 4.470066
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:47:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

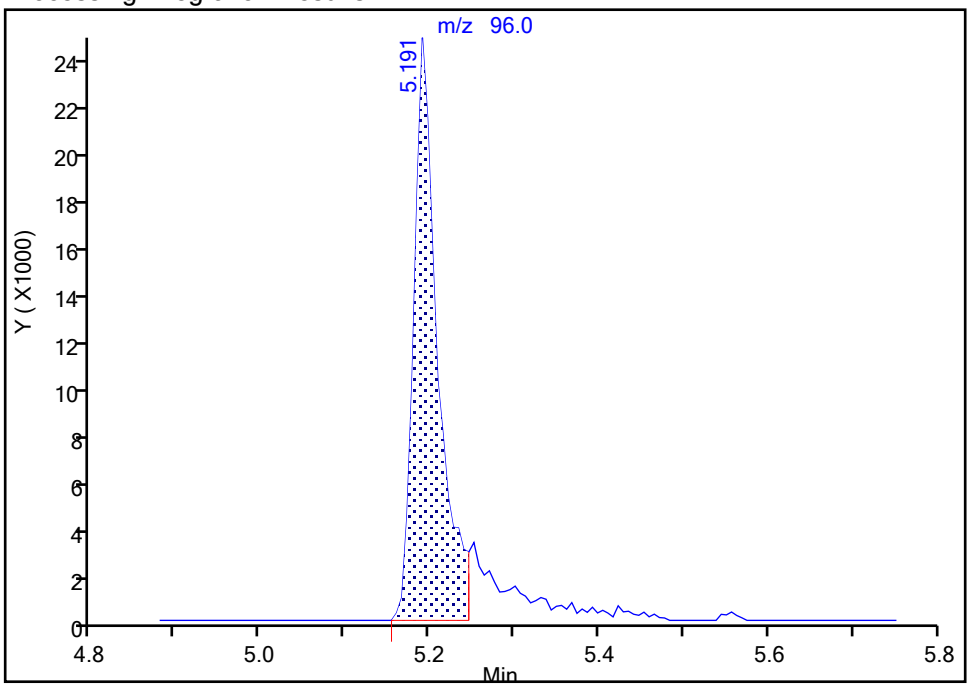
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D		
Injection Date:	19-Nov-2020 10:40:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

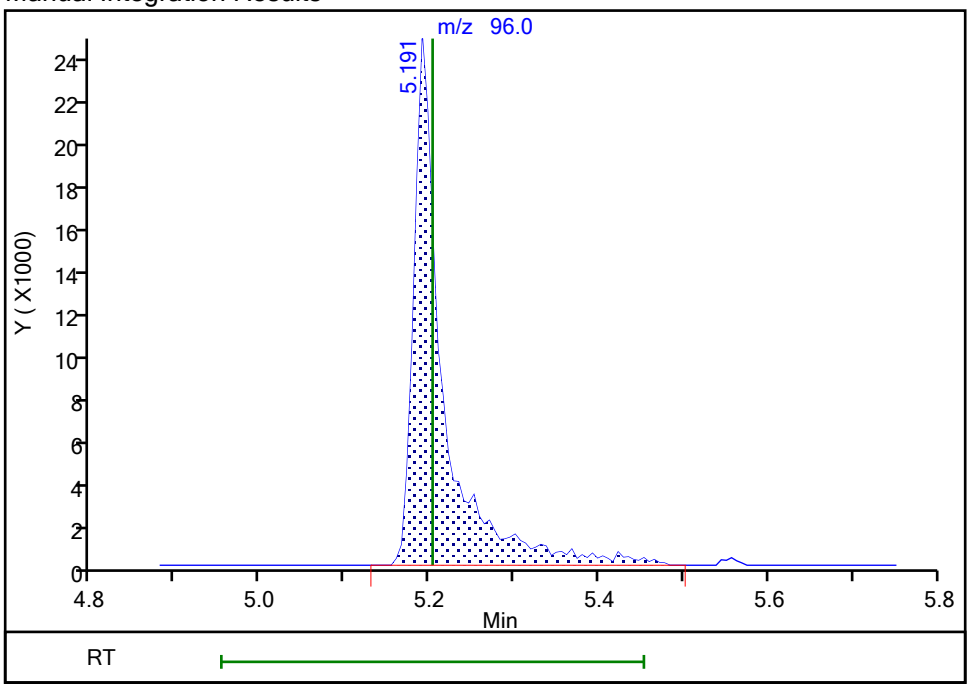
Processing Integration Results

RT: 5.19
Area: 48259
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 59372
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:54

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

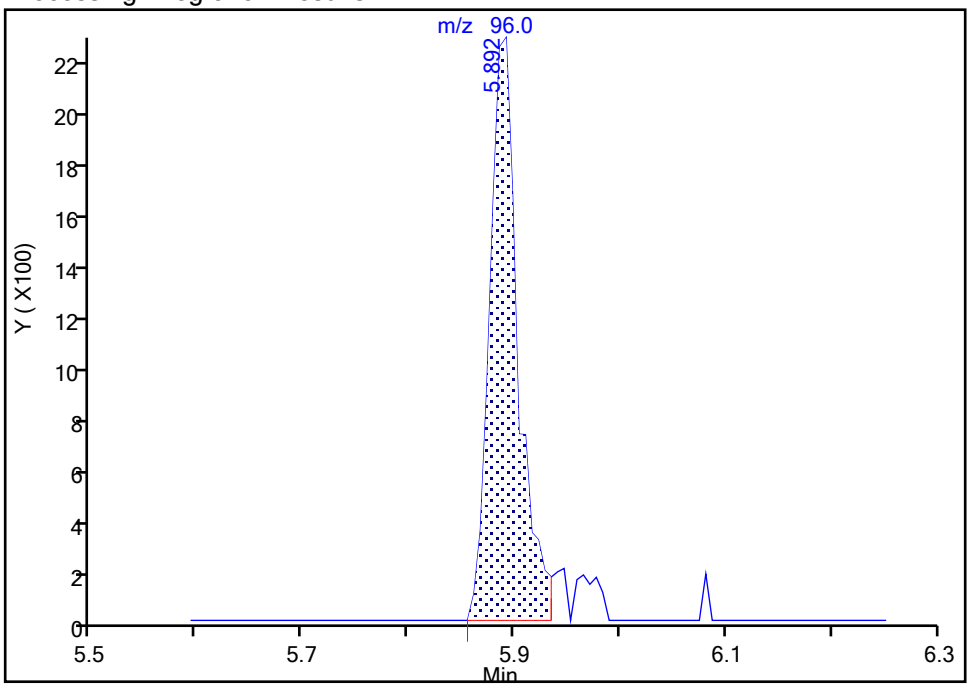
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4299.D		
Injection Date:	19-Nov-2020 10:40:30	Instrument ID:	Hobbes
Lims ID:	240-140187-B-26	Lab Sample ID:	310-140187-26
Client ID:	GW-111220-BE-043		
Operator ID:		ALS Bottle#:	3 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	50.0000
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL
Column:		Detector	MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

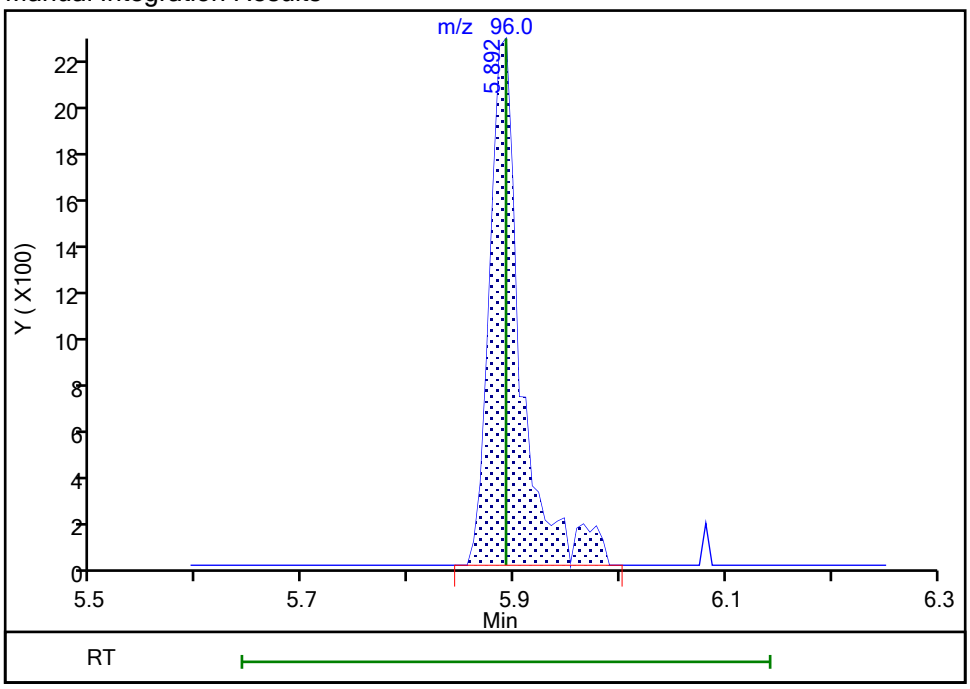
Processing Integration Results

RT: 5.89
Area: 4180
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 4592
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:46:57

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-293913/24	c5282.D
Level 2	STD2 310-293913/25	c5283.D
Level 3	STD3 310-293913/26	c5284.D
Level 4	STD4 310-293913/27	c5285.D
Level 5	STD5 310-293913/28	c5286.D
Level 6	STD6 310-293913/29	c5287.D
Level 7	STD7 310-293913/30	c5288.D
Level 8	STD8 310-293913/31	c5289.D
Level 9	STD9 310-293913/32	c5290.D
Level 10	STD10 310-293913/33	c5291.D
Level 11	STD11 310-293913/34	c5292.D
Level 12	STD12 310-293913/35	c5293.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.8371 0.7425	0.9085 0.7346 0.7941	0.9864 0.8675	0.7342 0.8985	0.7955 0.8151	Ave		0.8285			0.1000	9.8		20.0			
Chloromethane	+++++ 0.5166 0.5627	0.6358 0.5354 0.5717	0.5765 0.5524	0.4577 0.5396	0.4531 0.5783	Ave		0.5436			0.1000	9.8		20.0			
Vinyl chloride	0.9055 0.8491 0.8715	0.7784 0.8117 0.8602	0.8764 0.9096	0.8060 0.9516	0.8156 0.9045	Ave		0.8617			0.1000	6.0		20.0			
1,3-Butadiene	+++++ 0.8293 0.8585	1.0580 0.7975 0.8616	0.9704 0.8990	0.6994 0.9557	0.8240 0.9000	Ave		0.8776				10.9		20.0			
Bromomethane	+++++ 0.3391 +++++	+++++ 0.3405 +++++	0.3213 0.4184	0.2853 +++++	0.3026 +++++	Ave		0.3345			0.1000	13.8		20.0			
Chloroethane	+++++ 0.4885 0.5015	0.5531 0.4559 0.4907	0.5411 0.5109	0.5138 0.5341	0.4686 0.5188	Ave		0.5070			0.1000	5.9		20.0			
Dichlorofluoromethane	1.0939 1.1243 1.2012	1.1187 1.0920 1.1814	1.1684 1.2302	1.0545 1.2748	1.1065 1.2410	Ave		1.1572				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Trichlorofluoromethane	1.0231 1.1166 1.1126	0.9595 1.0437 1.1406	1.0923 1.1843	0.9472 1.2326	1.0064 1.1644	Ave		1.0853			0.1000	8.3		20.0			
Dibromofluoromethane (Surr)	0.2296 0.2311 0.2356	0.2336 0.2313 0.2319	0.2324 0.2289	0.2298 0.2224	0.2337 0.2334	Ave		0.2311				1.5		20.0			
Toluene-d8 (Surr)	1.2403 1.2471 1.2304	1.2283 1.2324 1.2410	1.2226 1.2436	1.2081 1.2500	1.2361 1.2379	Ave		1.2348				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.8163 0.8083 0.8199	0.8097 0.8214 0.8105	0.8051 0.8180	0.8148 0.8015	0.8110 0.8030	Ave		0.8116				0.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-293913/24	c5282.D
Level 2	STD2 310-293913/25	c5283.D
Level 3	STD3 310-293913/26	c5284.D
Level 4	STD4 310-293913/27	c5285.D
Level 5	STD5 310-293913/28	c5286.D
Level 6	STD6 310-293913/29	c5287.D
Level 7	STD7 310-293913/30	c5288.D
Level 8	STD8 310-293913/31	c5289.D
Level 9	STD9 310-293913/32	c5290.D
Level 10	STD10 310-293913/33	c5291.D
Level 11	STD11 310-293913/34	c5292.D
Level 12	STD12 310-293913/35	c5293.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	+++++ 65307 662630	3727 144618 1513261	7901 317355	10694 491329	62980 578355	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Chloromethane	FB	Ave	+++++ 40298 502228	2608 105403 1089527	4618 202095	6667 295058	35872 410332	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Vinyl chloride	FB	Ave	1856 66237 777837	3193 159813 1639192	7020 332757	11741 520365	64572 641772	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
1,3-Butadiene	FB	Ave	+++++ 64696 766157	4340 157001 1641946	7773 328893	10188 522618	65231 638544	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Bromomethane	FB	Ave	+++++ 26455 +++++	+++++ 67031 +++++	2574 153056	4156 +++++	23954 +++++	+++++ 20.0 +++++	+++++ 50.0 +++++	2.00 100	4.00 +++++	20.0 +++++
Chloroethane	FB	Ave	+++++ 38111 447568	2269 89757 935034	4334 186917	7484 292081	37099 368122	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Dichlorofluoromethane	FB	Ave	2242 87706 1072050	4589 214983 2251396	9359 450077	15360 697088	87599 880526	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Trichlorofluoromethane	FB	Ave	2097 87110 992942	3936 205487 2173501	8749 433276	13797 674004	79672 826172	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dibromofluoromethane (Surr)	FB	Ave	47050 45069 42045	47919 45534 44194	46536 41873	41844 40540	46257 41392	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	200538 193301 175372	201283 193082 190020	198035 180927	176531 180073	197431 177088	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	64279 62709 56460	65236 61976 59760	64581 57085	58668 56549	62521 55184	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-293913/24	c5282.D
Level 2	STD2 310-293913/25	c5283.D
Level 3	STD3 310-293913/26	c5284.D
Level 4	STD4 310-293913/27	c5285.D
Level 5	STD5 310-293913/28	c5286.D
Level 6	STD6 310-293913/29	c5287.D
Level 7	STD7 310-293913/30	c5288.D
Level 8	STD8 310-293913/31	c5289.D
Level 9	STD9 310-293913/32	c5290.D
Level 10	STD10 310-293913/33	c5291.D
Level 11	STD11 310-293913/34	c5292.D
Level 12	STD12 310-293913/35	c5293.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Dichlorodifluoromethane	+++++	9.7						40				
Chloromethane	+++++	16.9						40				
Vinyl chloride	5.1						40					
1,3-Butadiene	+++++	20.6						40				
Bromomethane	+++++	+++++	-3.9 +++++	+++++	+++++	+++++			40			
Chloroethane	+++++	9.1						40				
Dichlorofluoromethane	-5.5						40					
Trichlorofluoromethane	-5.7						40					

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2020 00:09:30 ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:15 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:52:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	204961	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	8032	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	161679	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	78745	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	47050	50.0	49.7	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	200538	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	91	64279	50.0	50.3	
9 Dichlorodifluoromethane	85	1.294	1.282	0.012	58	3419	0.5000	1.01	M
11 Vinyl chloride	62	1.556	1.532	0.024	85	1856	0.5000	0.5254	M
10 Chloromethane	50	1.520	1.562	-0.042	35	1798	0.5000	0.8069	M
12 Butadiene	54	1.574	1.568	0.006	83	2706	0.5000	0.7522	M
13 Bromomethane	94	1.830	1.867	-0.037	1	2574	0.5000	1.88	M
14 Chloroethane	64	1.910	1.910	0.000	21	1443	0.5000	0.6943	M
15 Dichlorofluoromethane	67	2.123	2.111	0.012	92	2242	0.5000	0.4726	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	92	2097	0.5000	0.4714	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

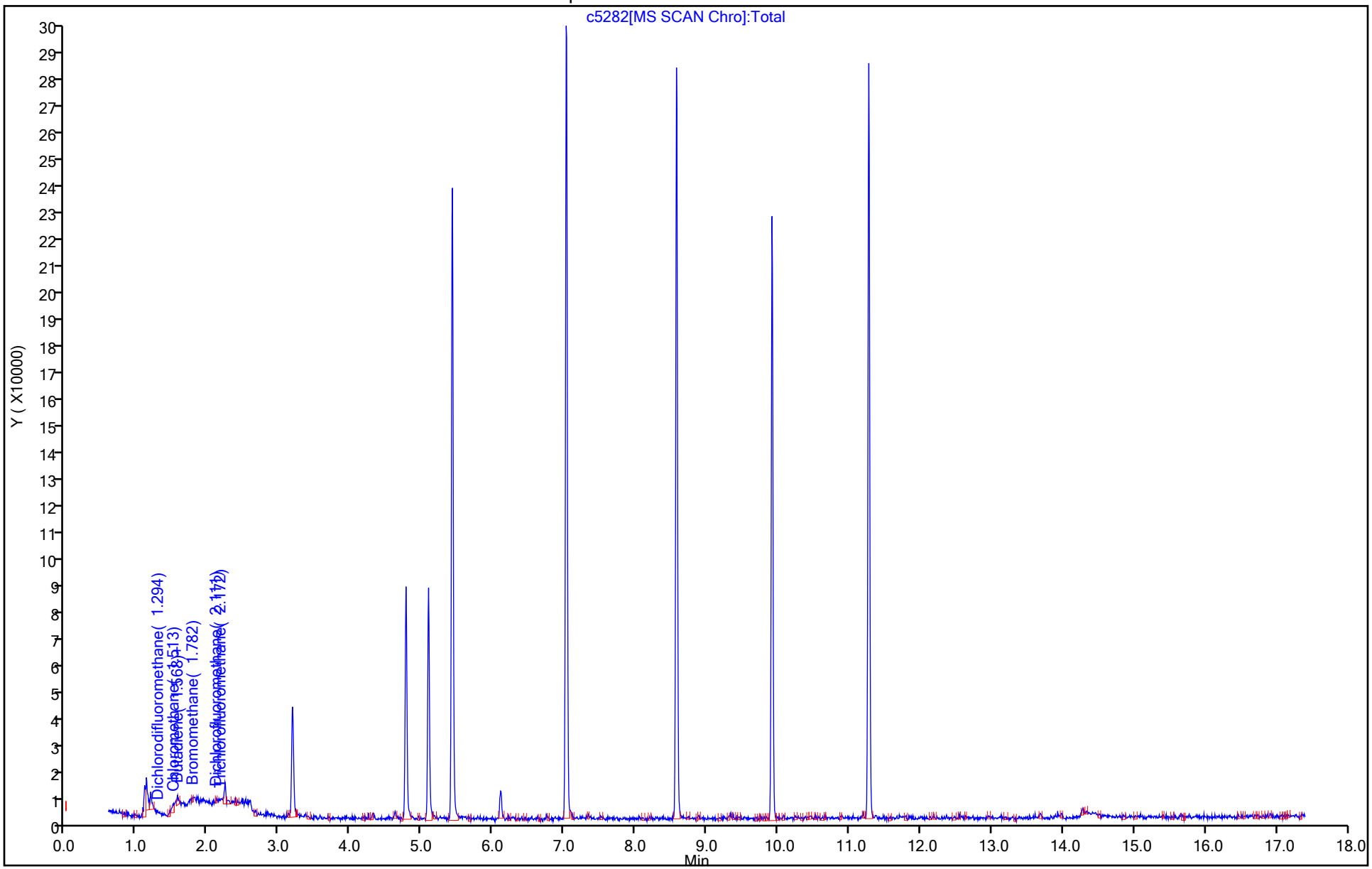
VV_I_GASES_00407 Amount Added: 0.50 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:16 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D

Injection Date:	02-Oct-2020 00:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std1			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

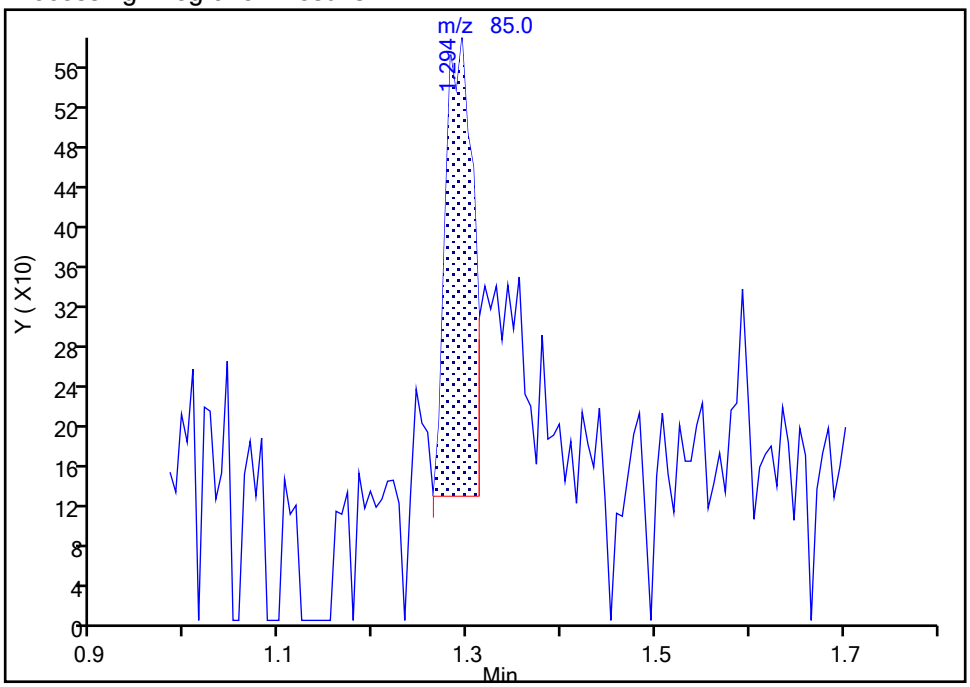
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

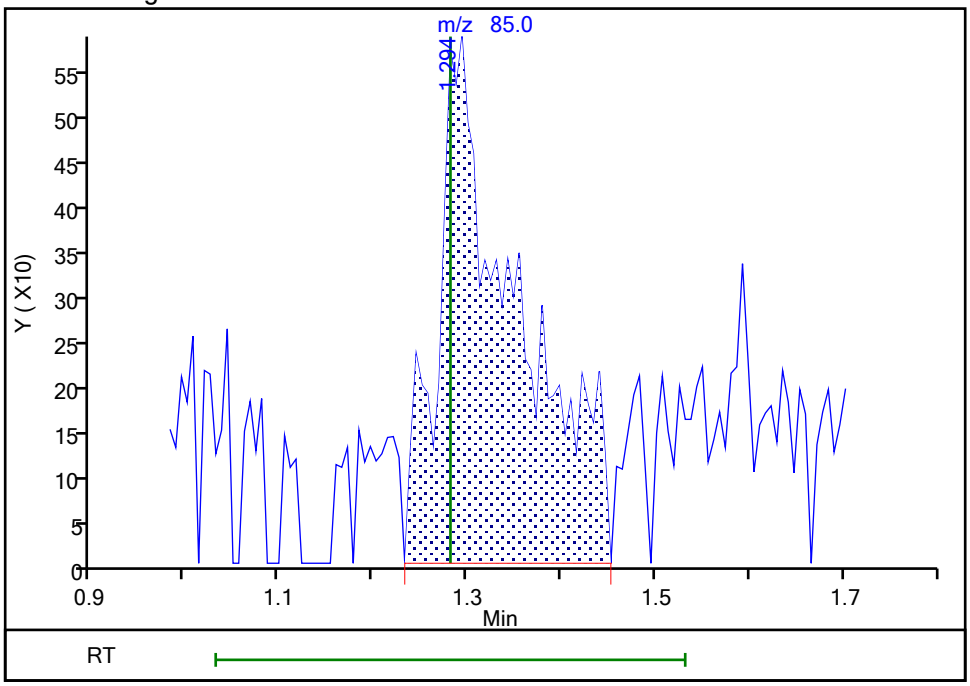
Processing Integration Results

RT: 1.29
Area: 919
Amount: 0.337300
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 3419
Amount: 1.006660
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

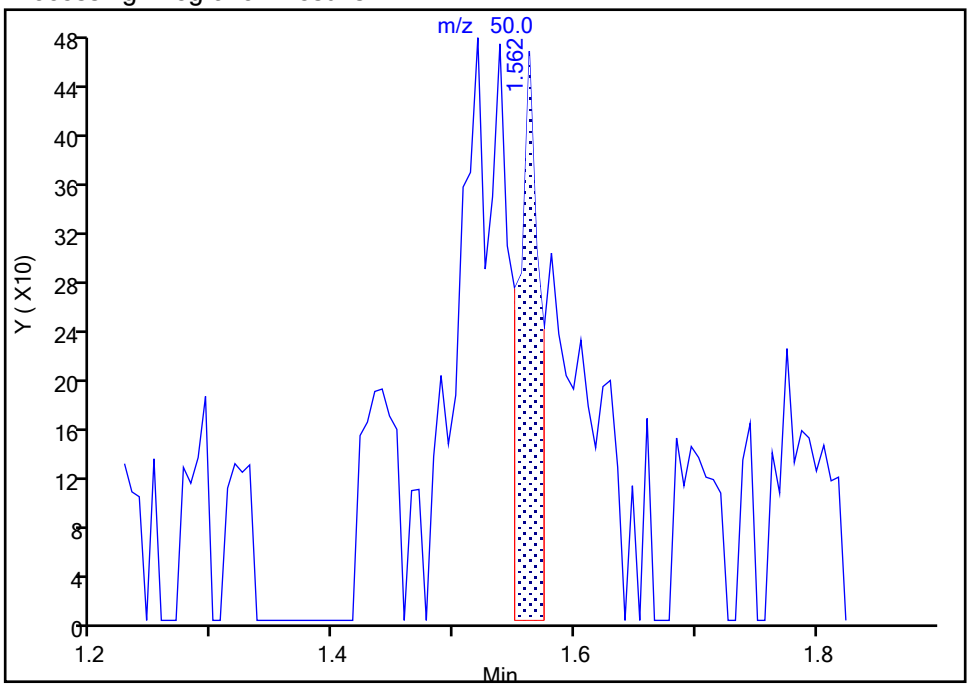
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

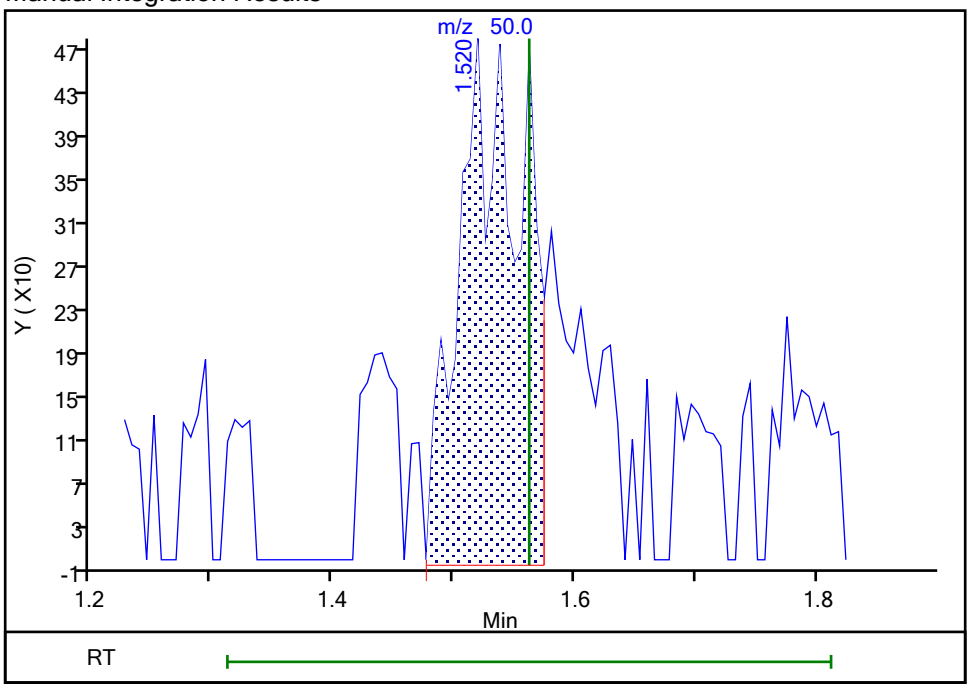
Processing Integration Results

RT: 1.56
Area: 571
Amount: 0.327593
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 1798
Amount: 0.806850
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

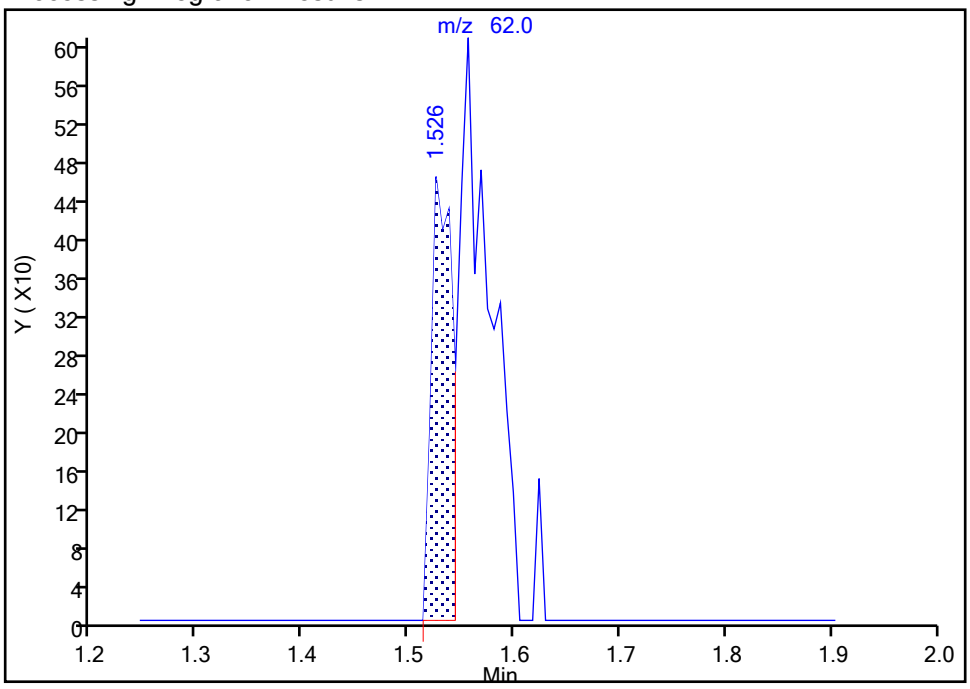
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

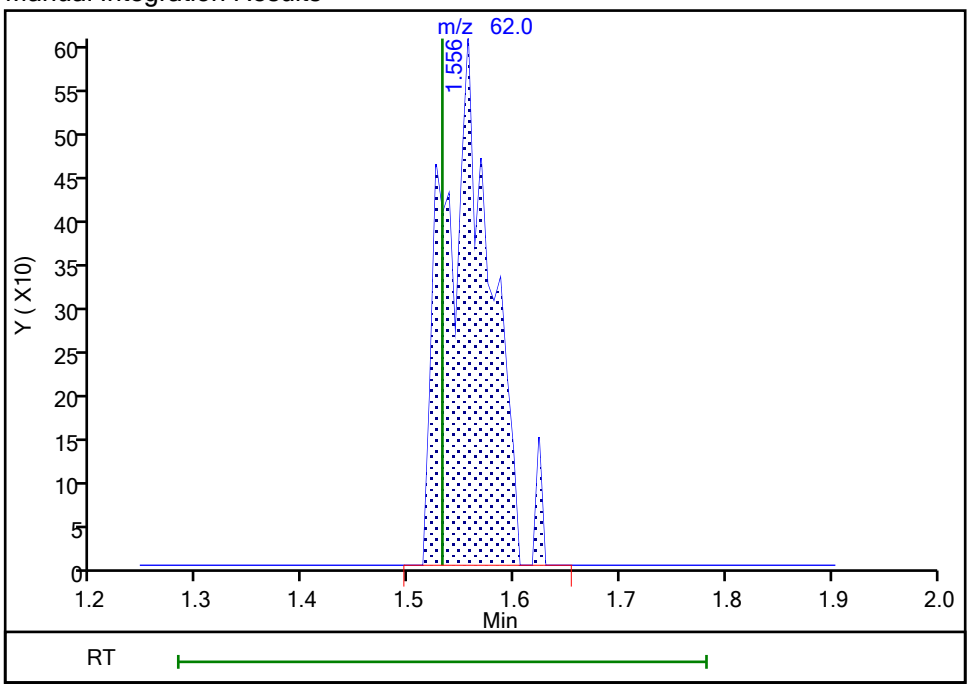
Processing Integration Results

RT: 1.53
Area: 636
Amount: 0.645423
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 1856
Amount: 0.525448
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

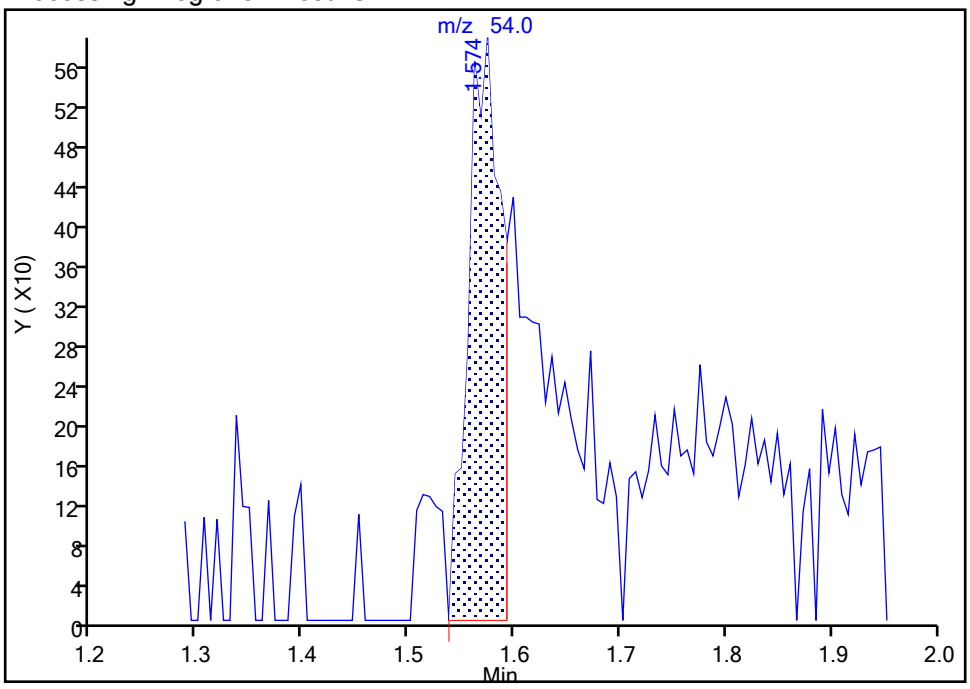
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

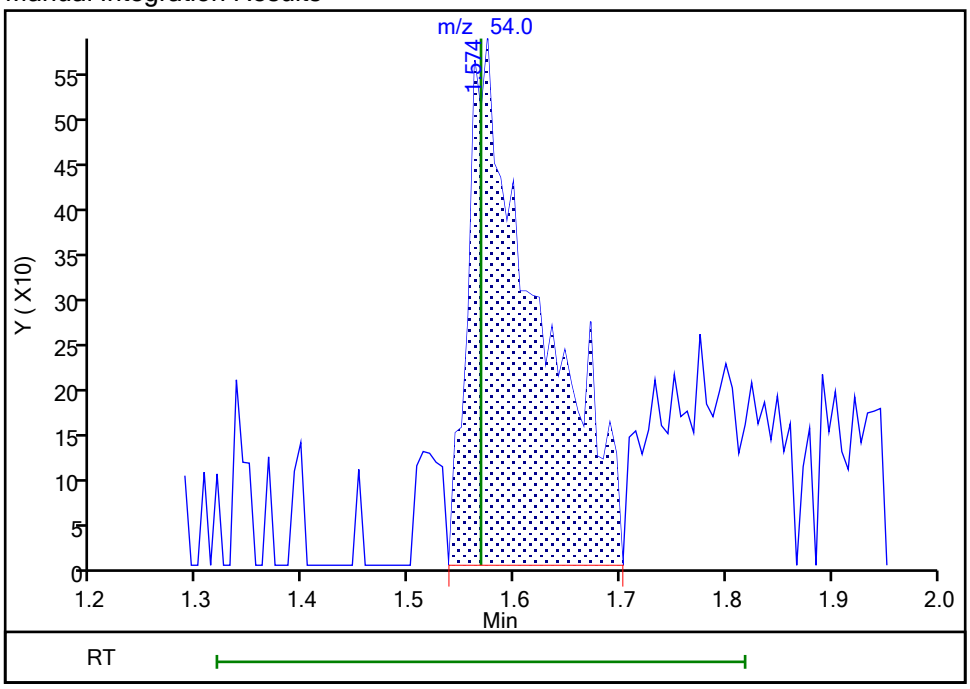
Processing Integration Results

RT: 1.57
Area: 1281
Amount: 0.401970
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 2706
Amount: 0.752217
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

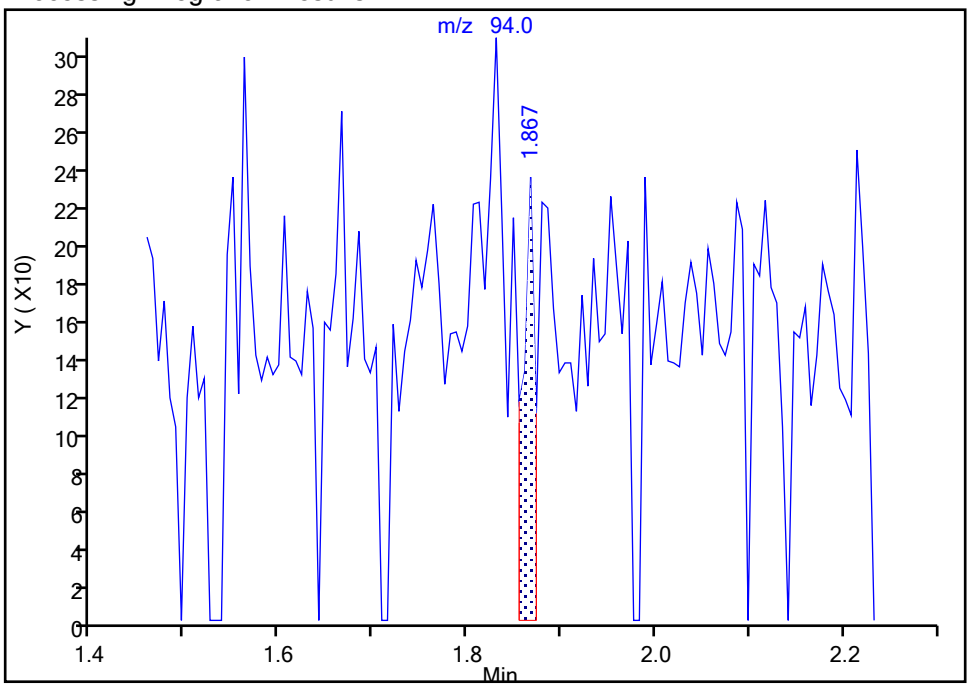
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

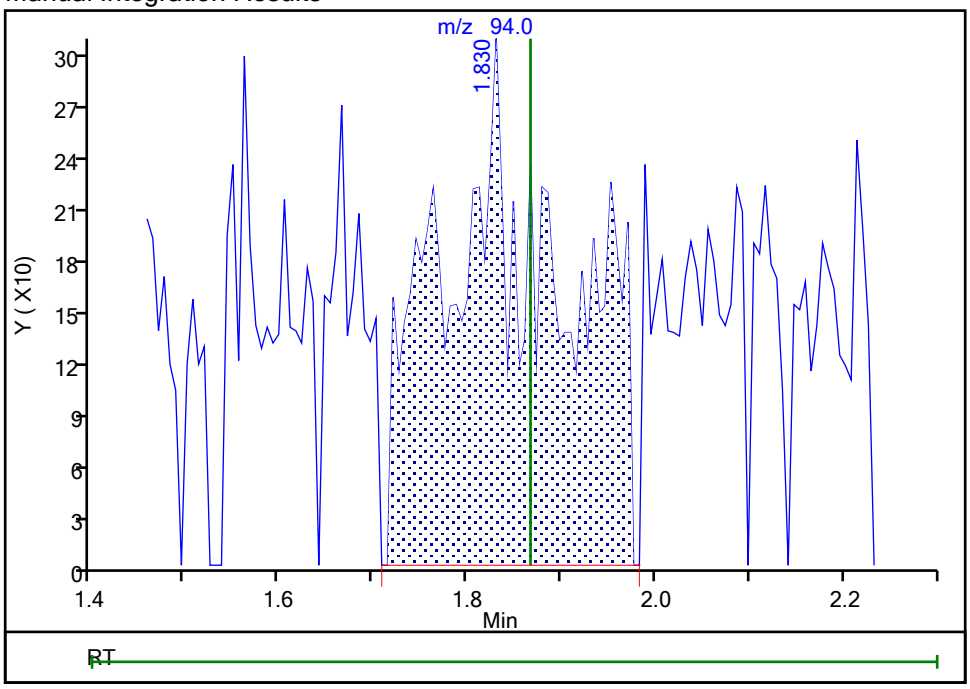
Processing Integration Results

RT: 1.87
Area: 211
Amount: 0.246729
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 2574
Amount: 1.877030
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

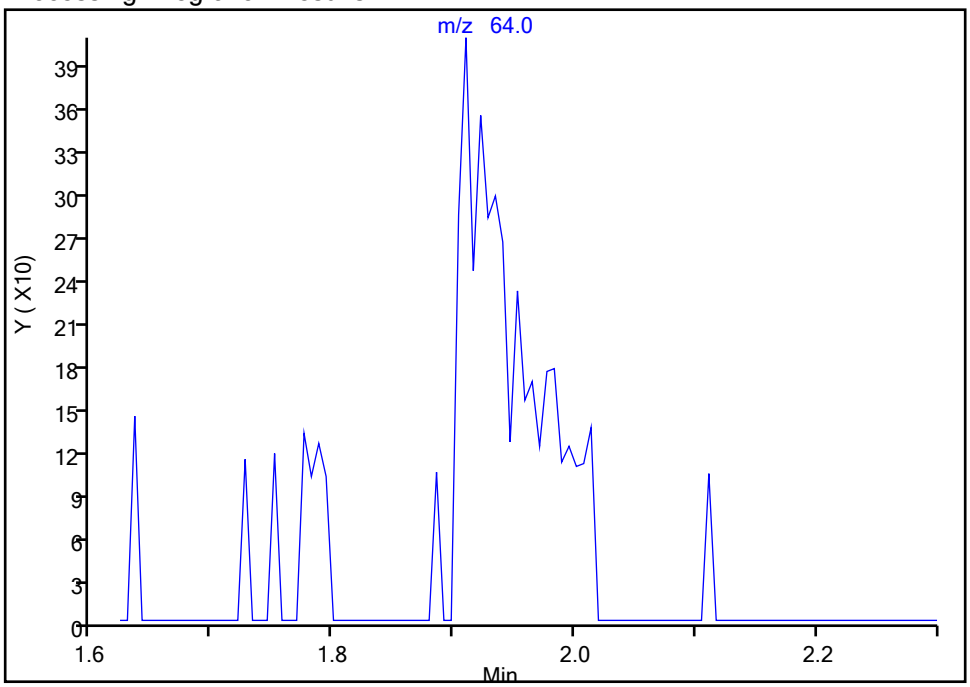
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

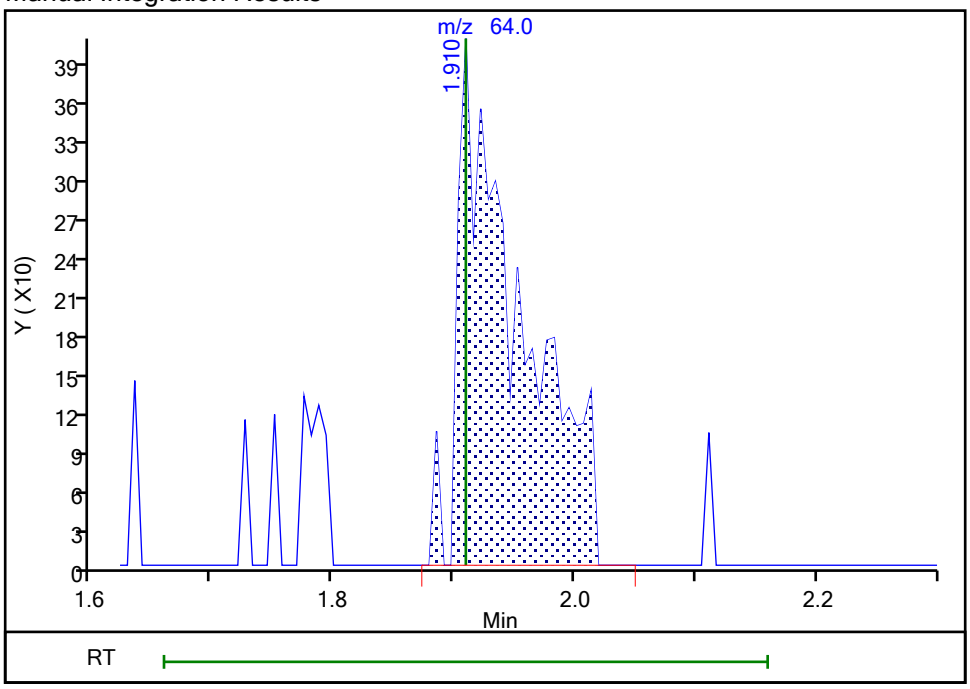
Not Detected
Expected RT: 1.91

Processing Integration Results



Manual Integration Results

RT: 1.91
Area: 1443
Amount: 0.694307
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

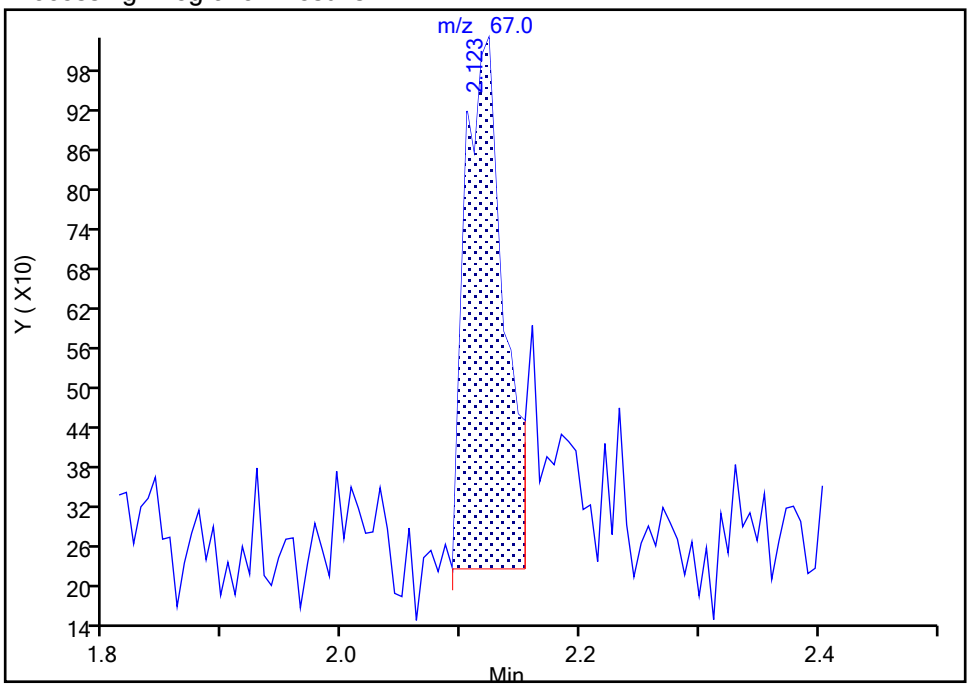
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

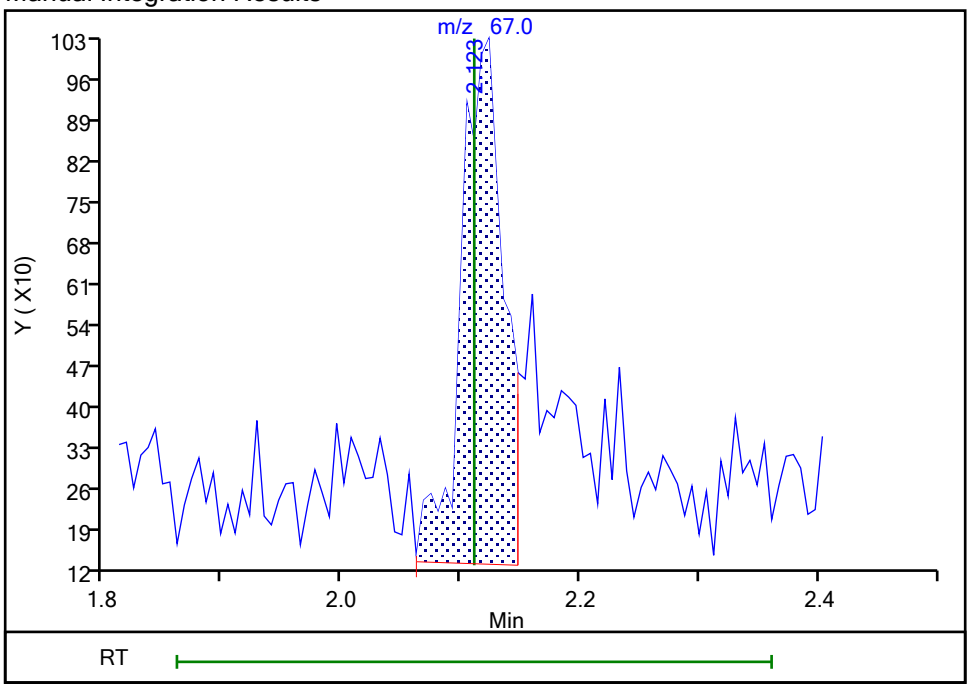
Processing Integration Results

RT: 2.12
Area: 1824
Amount: 0.407072
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 2242
Amount: 0.472620
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

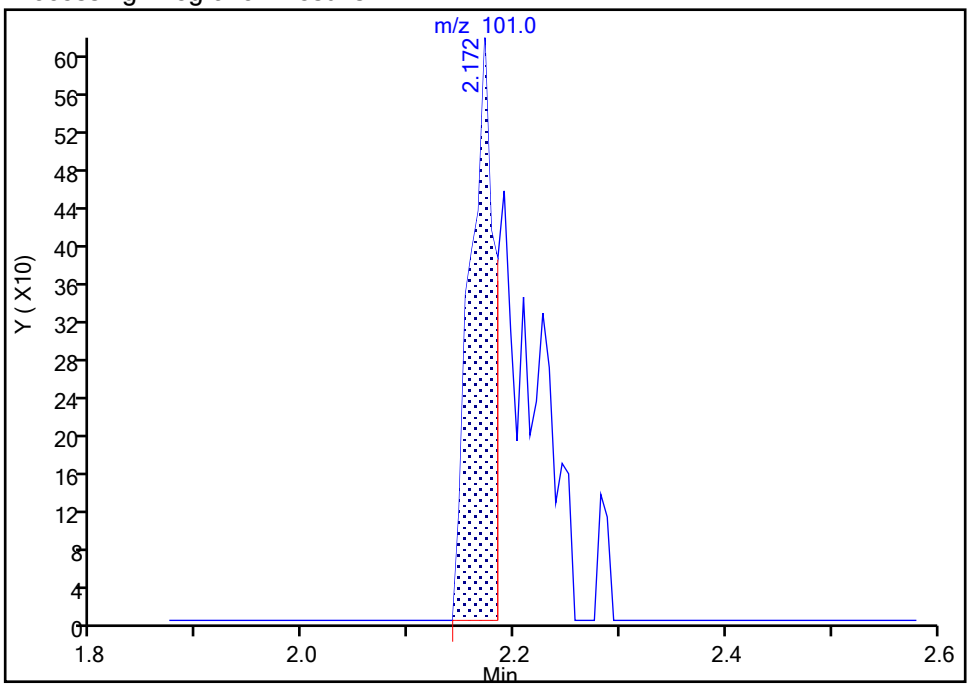
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

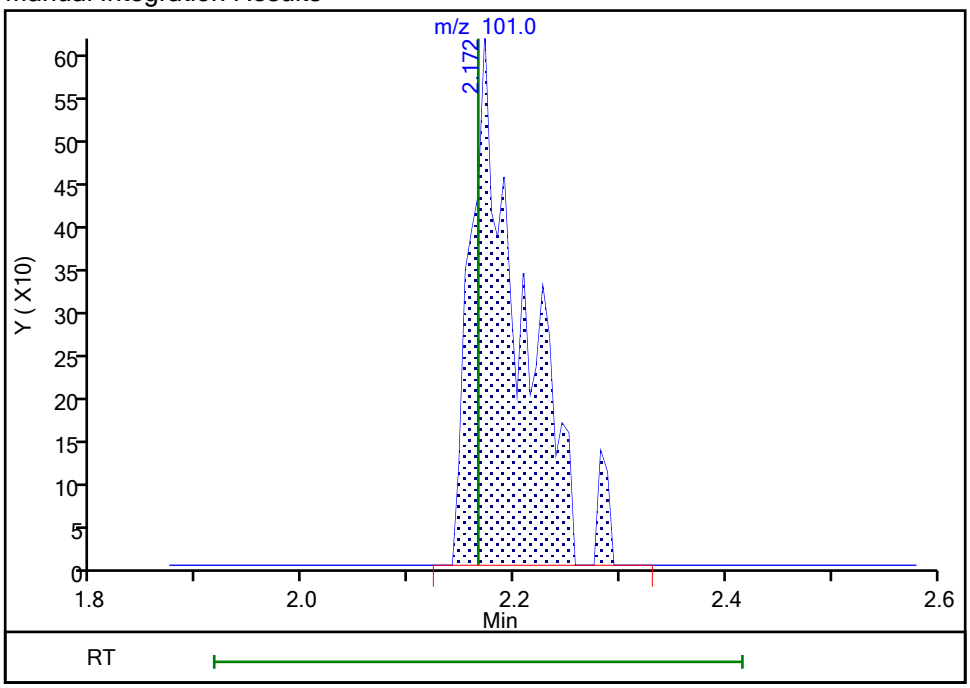
Processing Integration Results

RT: 2.17
Area: 993
Amount: 0.256153
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 2097
Amount: 0.471368
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 02-Oct-2020 00:33:30 ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:19 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:53:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	100	205109	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.098	6.104	-0.006	96	8165	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	163866	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	80568	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	47919	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	201283	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	91	65236	50.0	49.9	
9 Dichlorodifluoromethane	85	1.282	1.282	0.000	93	3727	1.00	1.10	M
11 Vinyl chloride	62	1.532	1.532	0.000	93	3193	1.00	0.9033	M
10 Chloromethane	50	1.538	1.562	-0.024	44	2608	1.00	1.17	M
12 Butadiene	54	1.568	1.568	0.000	88	4340	1.00	1.21	M
13 Bromomethane	94	1.812	1.867	-0.055	25	1854	1.00	1.35	M
14 Chloroethane	64	1.916	1.910	0.006	96	2269	1.00	1.09	M
15 Dichlorofluoromethane	67	2.111	2.111	0.000	93	4589	1.00	0.9667	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	94	3936	1.00	0.8841	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

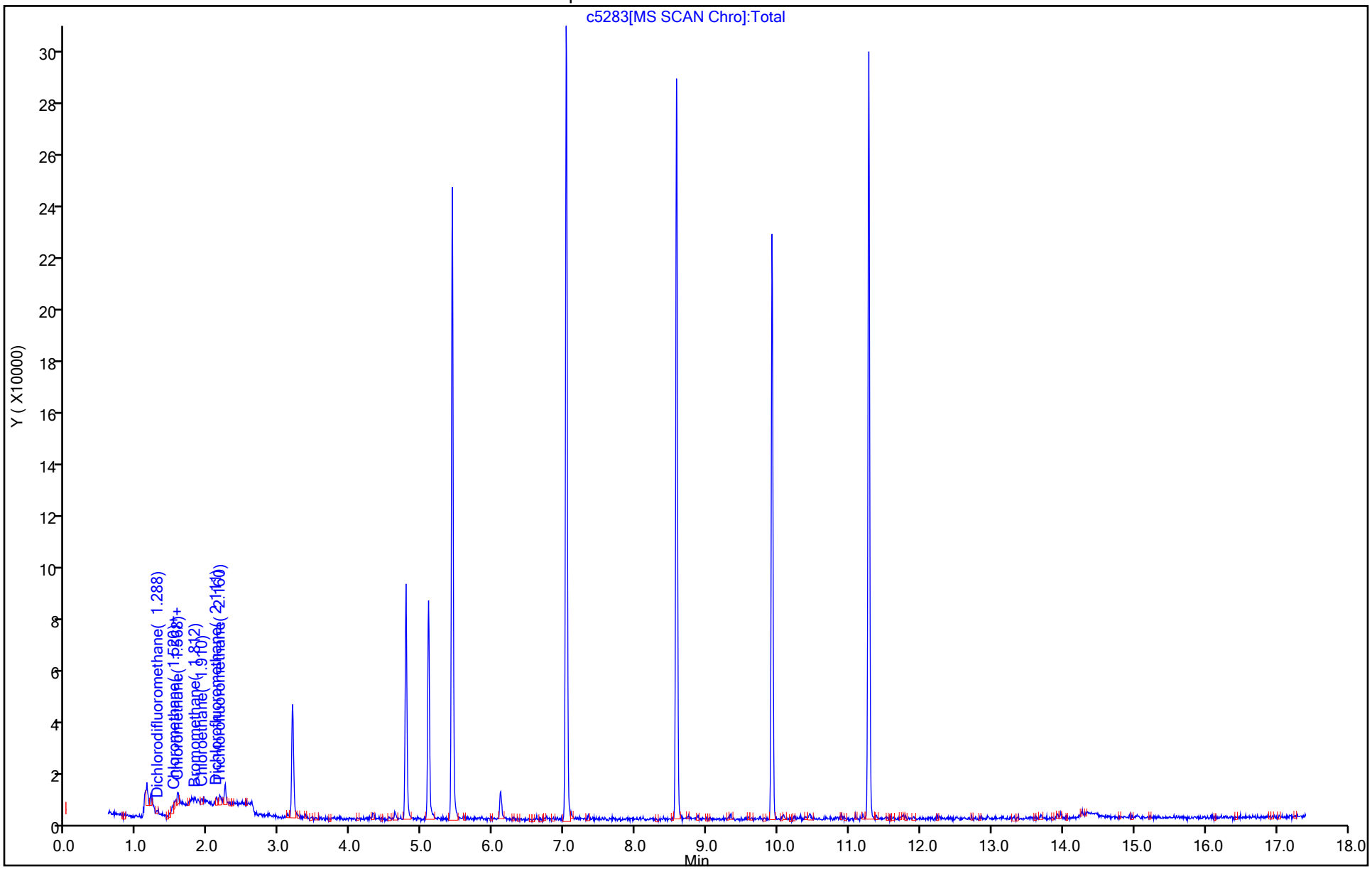
Reagents:

VV_I_GASES_00407 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:19 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D				
Injection Date:	02-Oct-2020 00:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std2			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

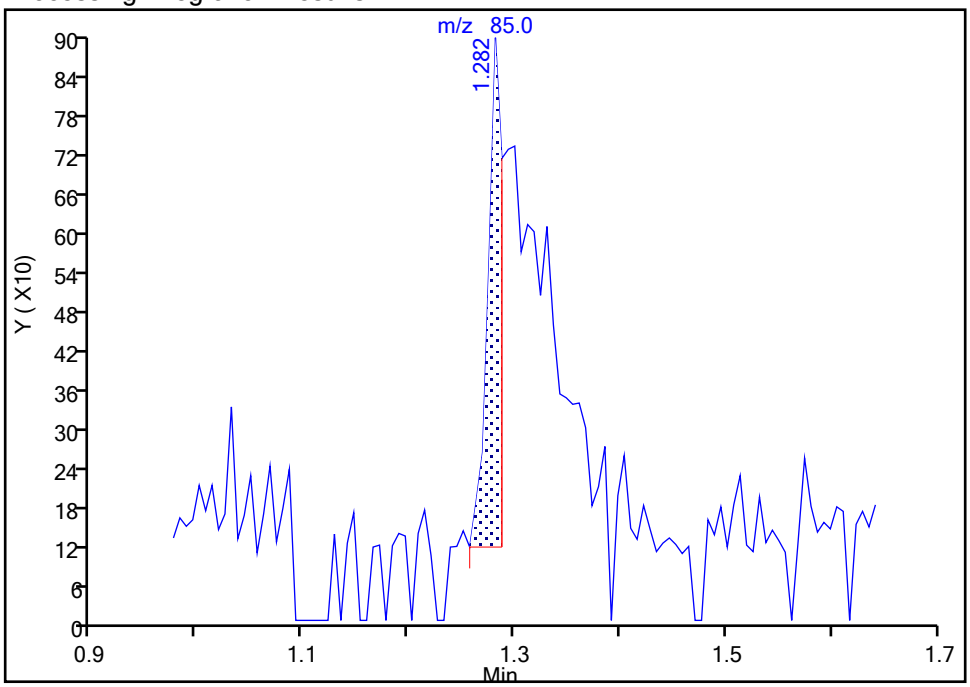
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

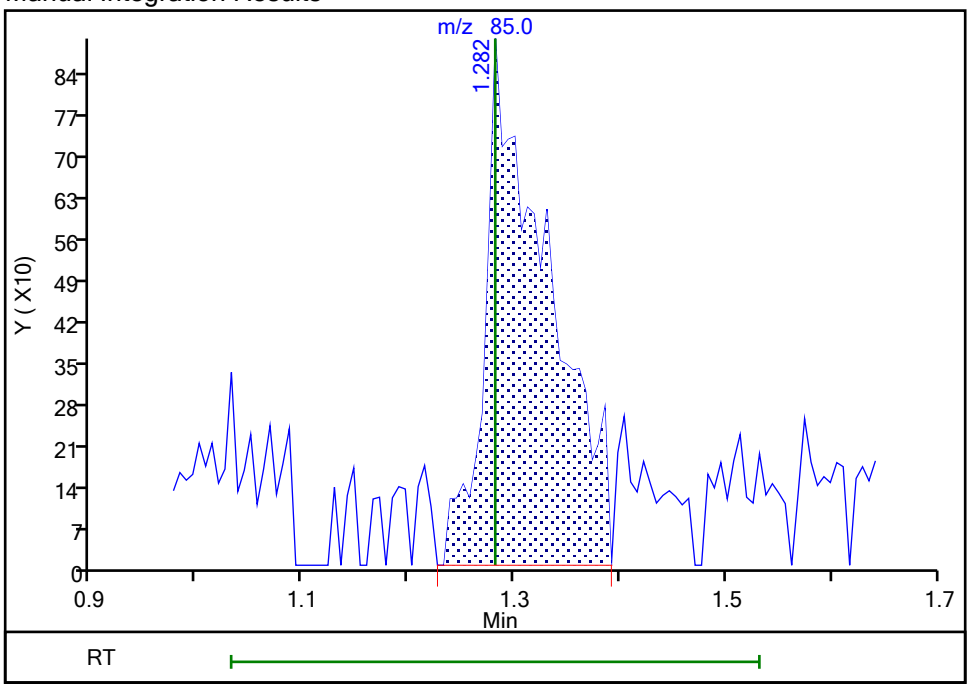
Processing Integration Results

RT: 1.28
Area: 746
Amount: 0.237314
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 3727
Amount: 1.096552
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

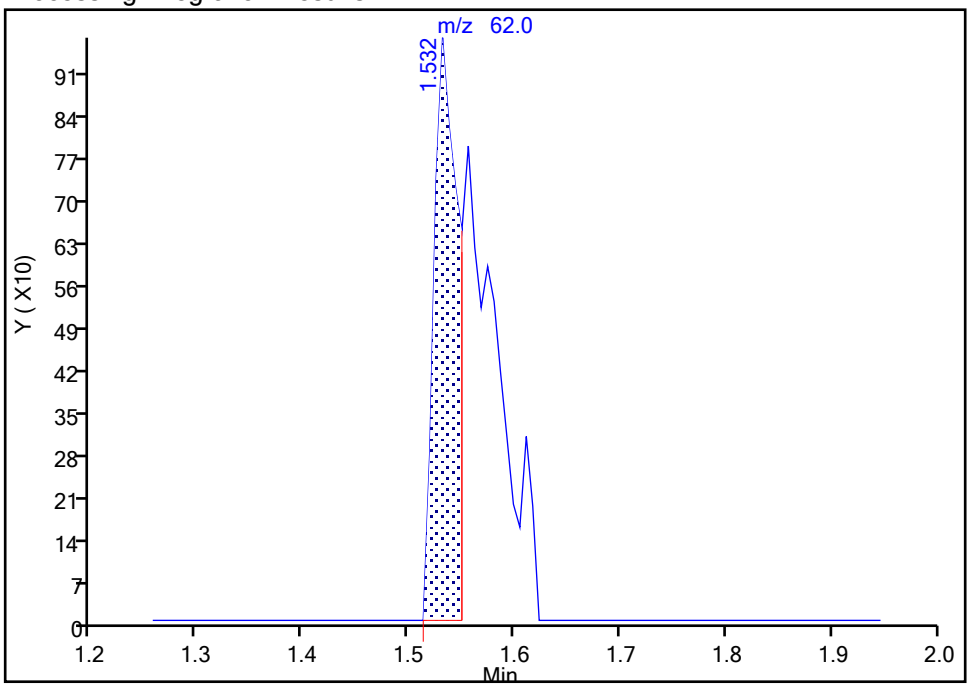
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

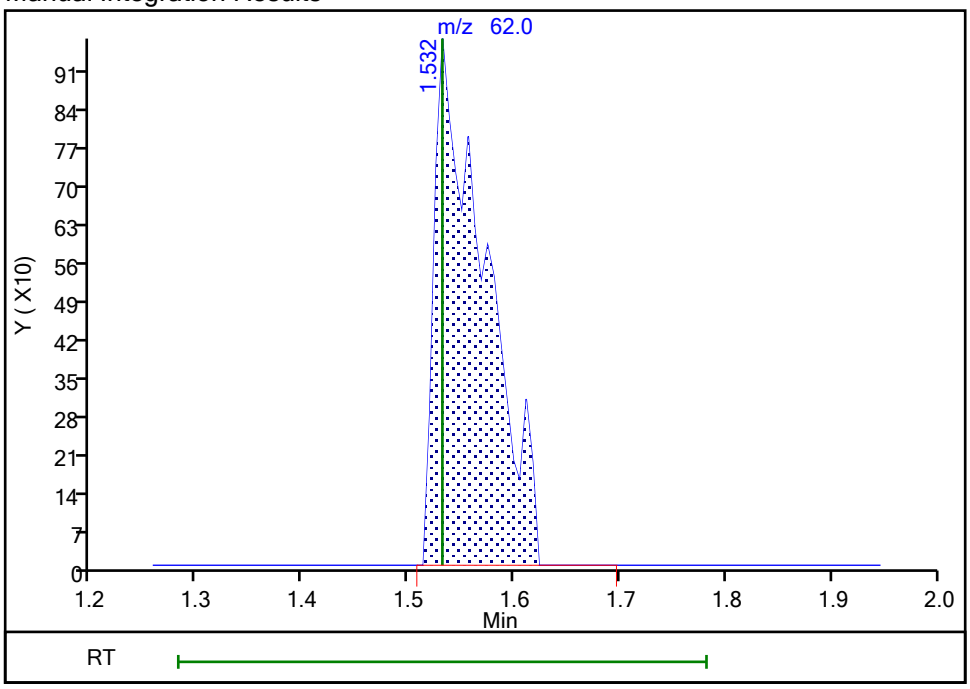
Processing Integration Results

RT: 1.53
Area: 1518
Amount: 0.463610
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 3193
Amount: 0.903310
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:53:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

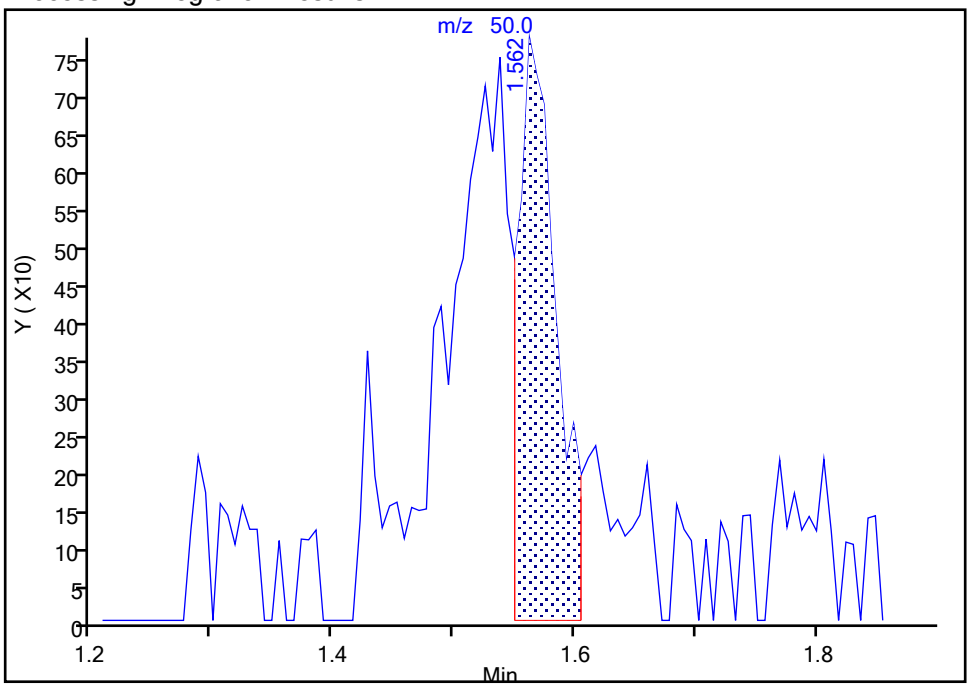
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

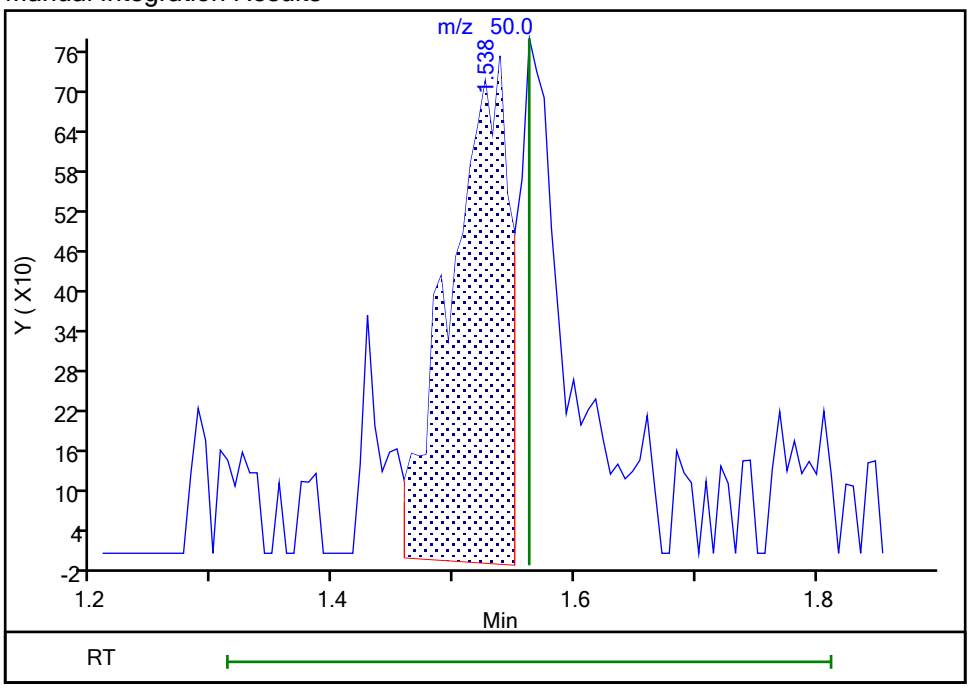
Processing Integration Results

RT: 1.56
Area: 1729
Amount: 0.887157
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 2608
Amount: 1.169492
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:53:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

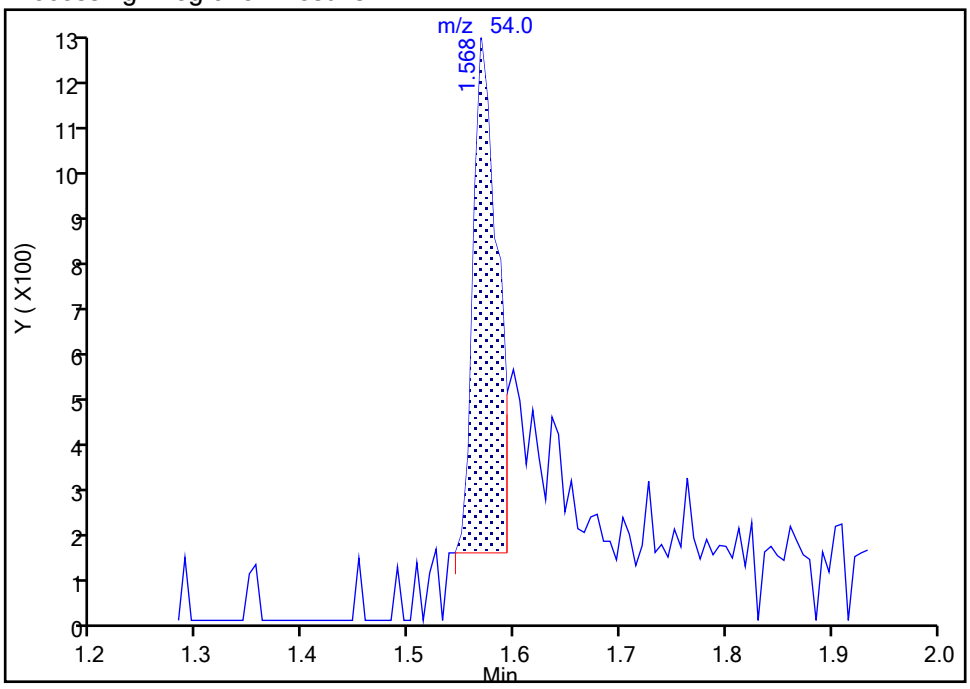
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

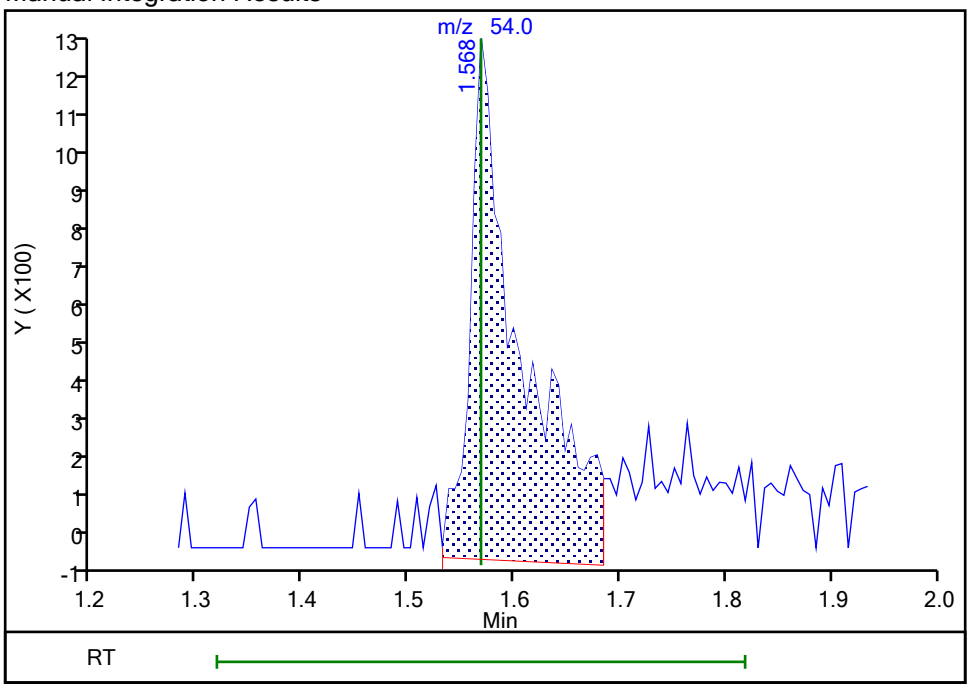
Processing Integration Results

RT: 1.57
Area: 1743
Amount: 0.508641
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 4340
Amount: 1.205568
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:53:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

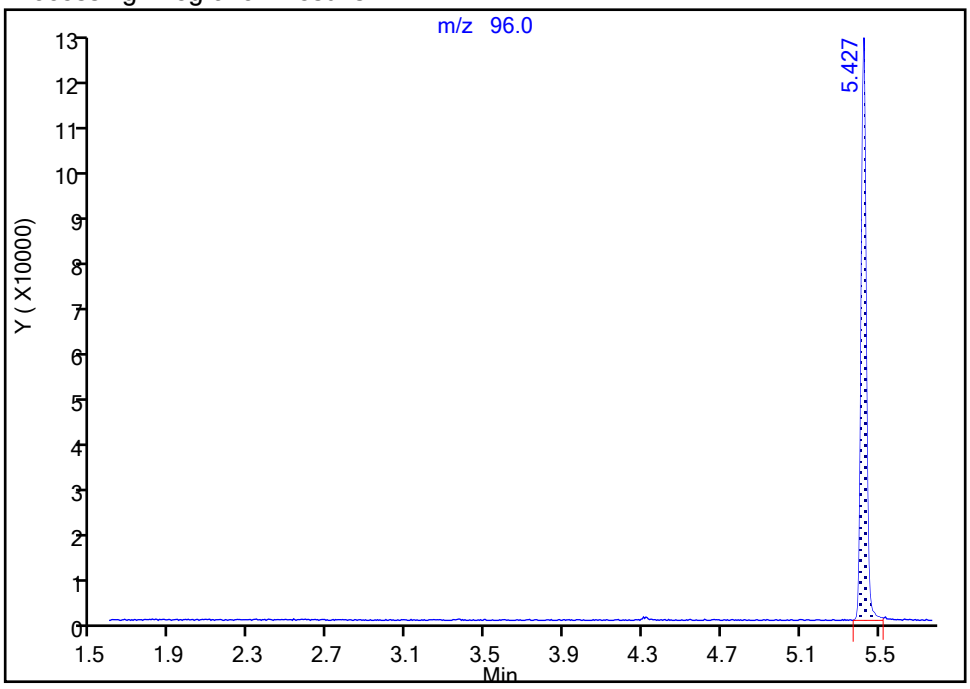
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 2

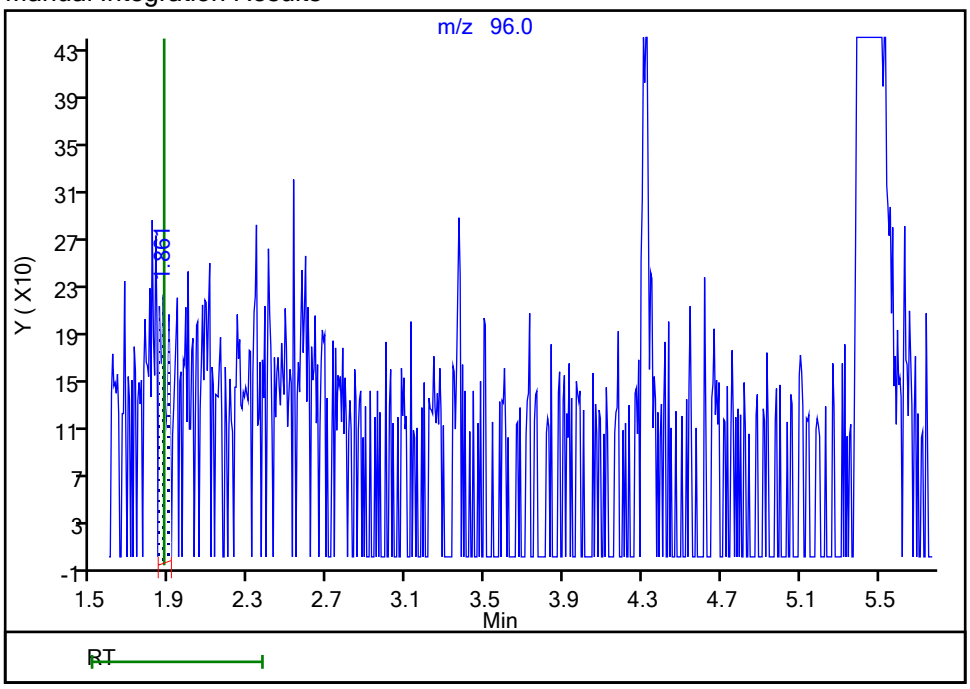
Processing Integration Results

RT: 5.43
Area: 205109
Amount: 2.807095
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 633
Amount: 1.351011
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

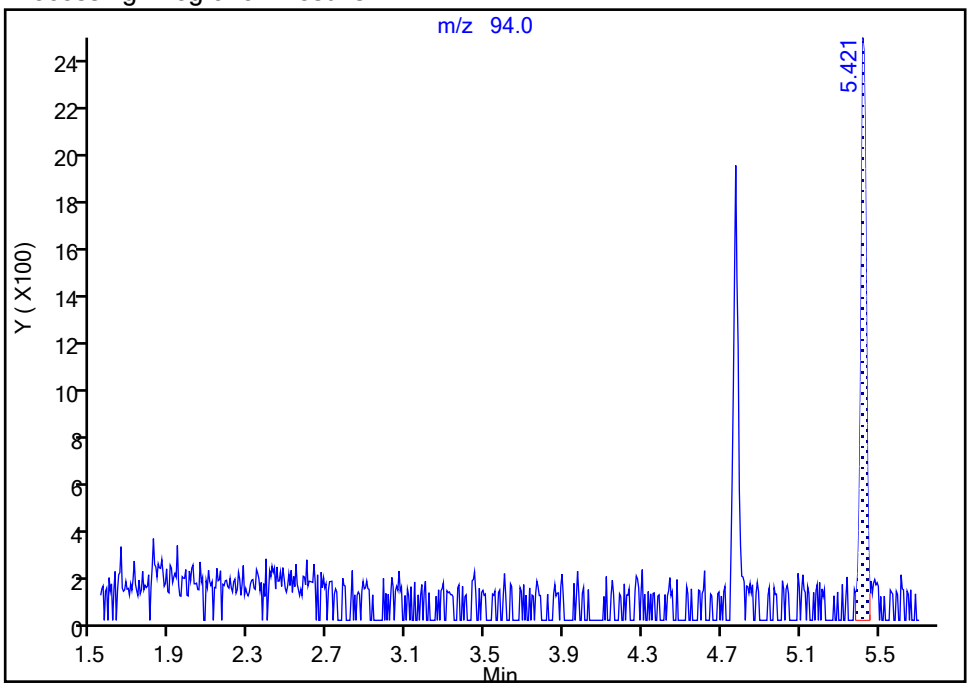
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

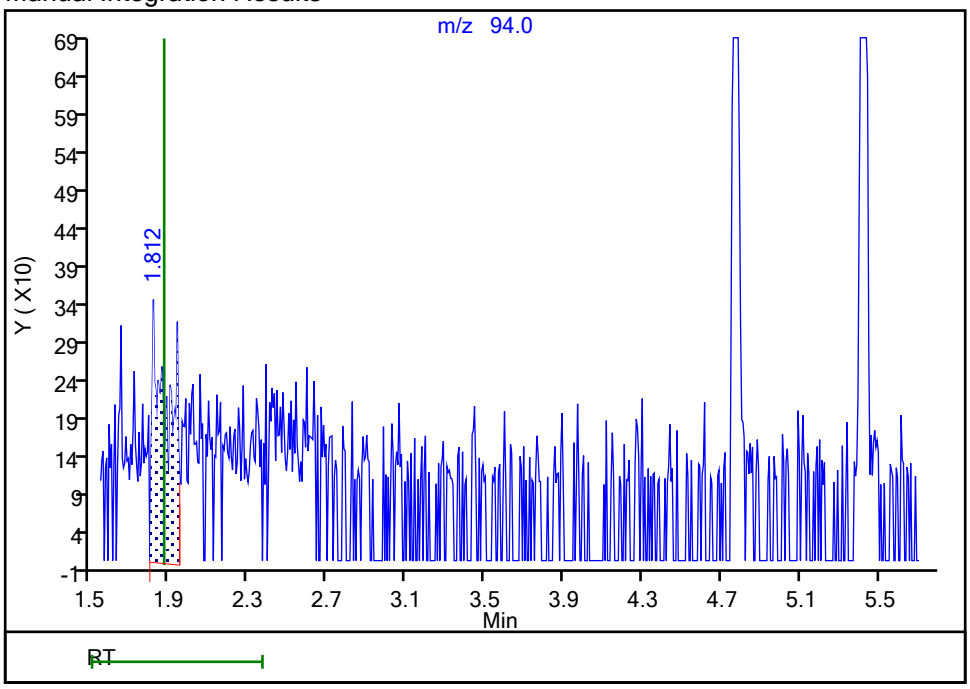
Processing Integration Results

RT: 5.42
Area: 4665
Amount: 2.807095
Amount Units: ug/l



Manual Integration Results

RT: 1.81
Area: 1854
Amount: 1.351011
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

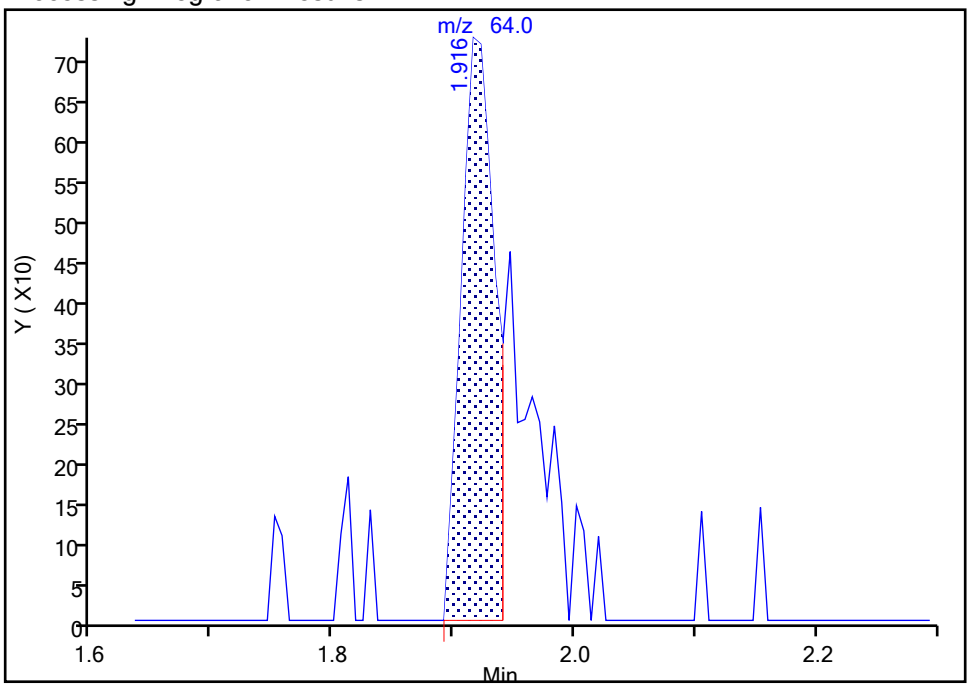
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

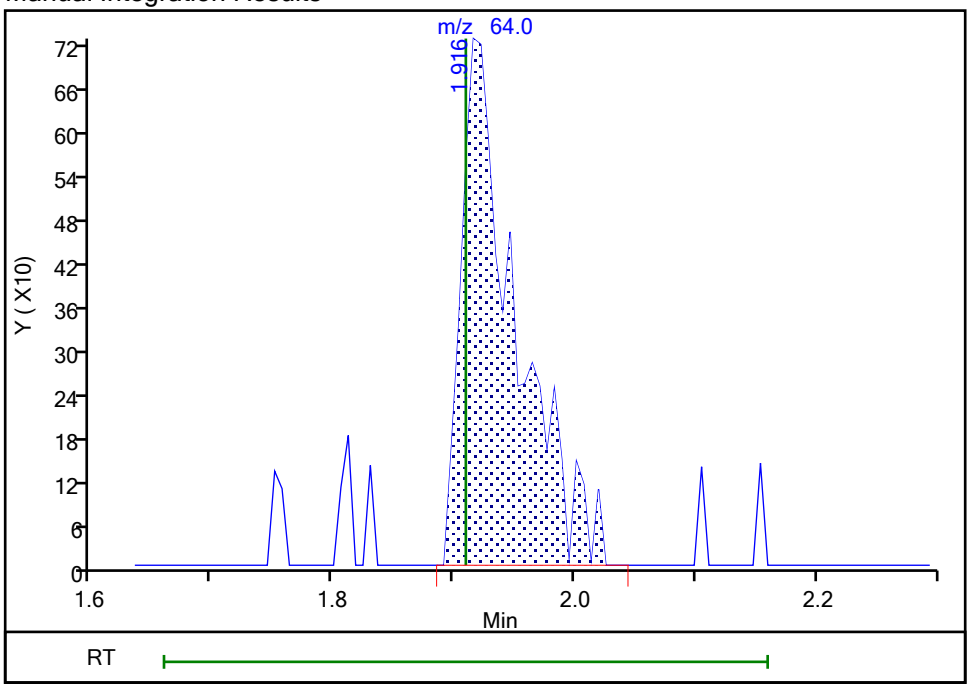
Processing Integration Results

RT: 1.92
Area: 1402
Amount: 0.718631
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 2269
Amount: 1.090954
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

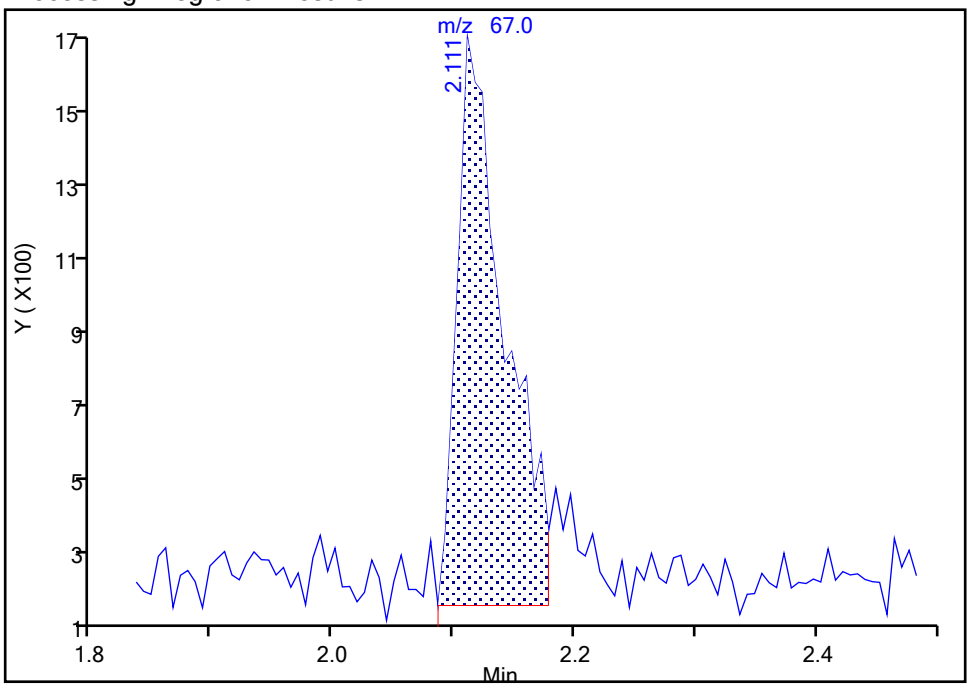
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

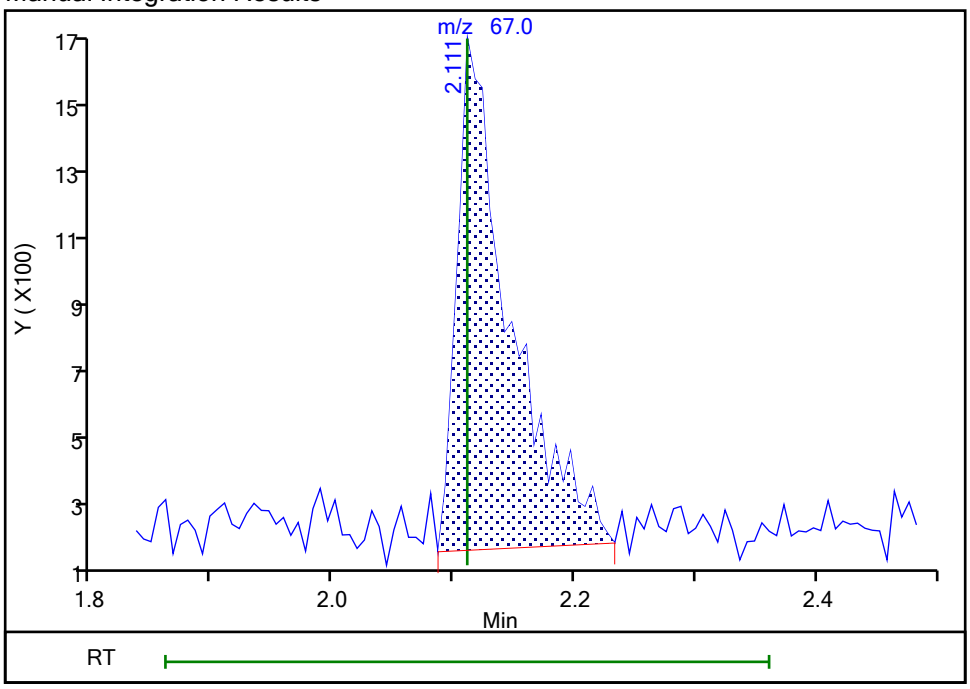
Processing Integration Results

RT: 2.11
Area: 4173
Amount: 0.916391
Amount Units: ug/l



Manual Integration Results

RT: 2.11
Area: 4589
Amount: 0.966676
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

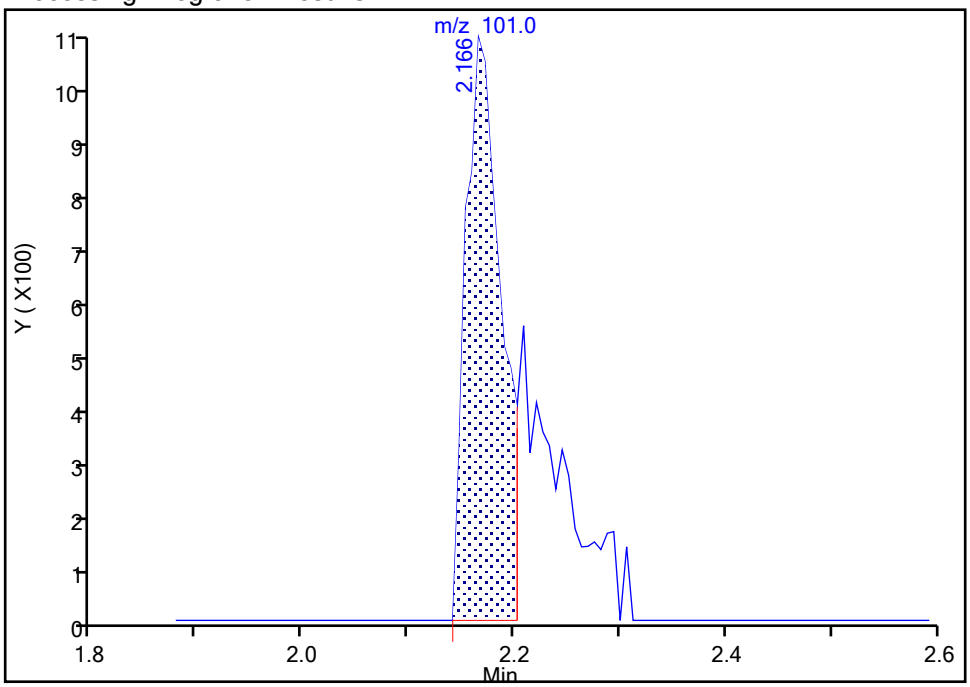
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

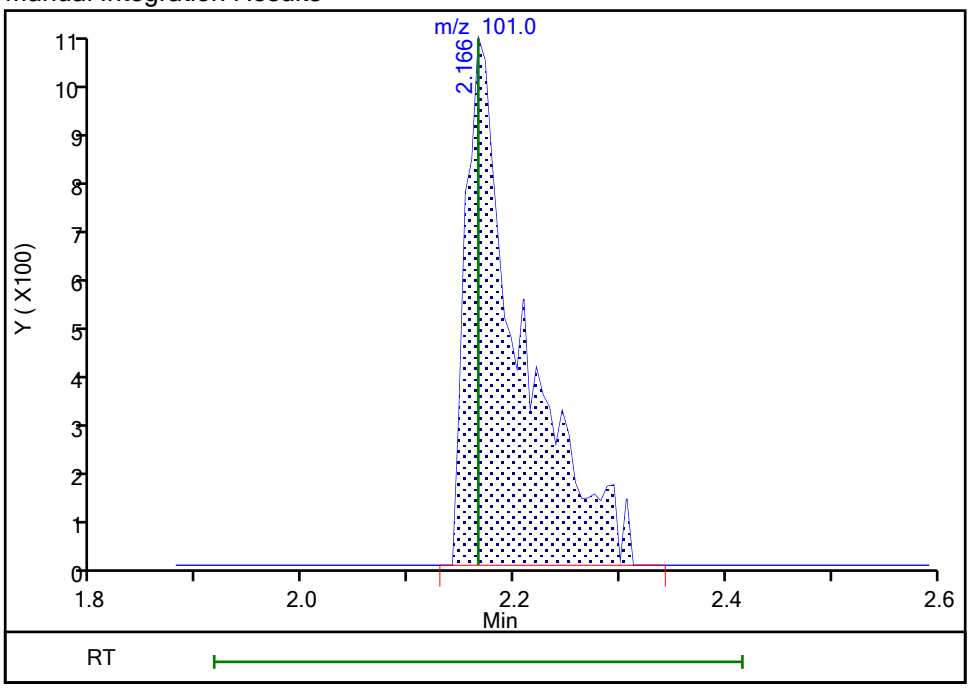
Processing Integration Results

RT: 2.17
Area: 2506
Amount: 0.616707
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 3936
Amount: 0.884105
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

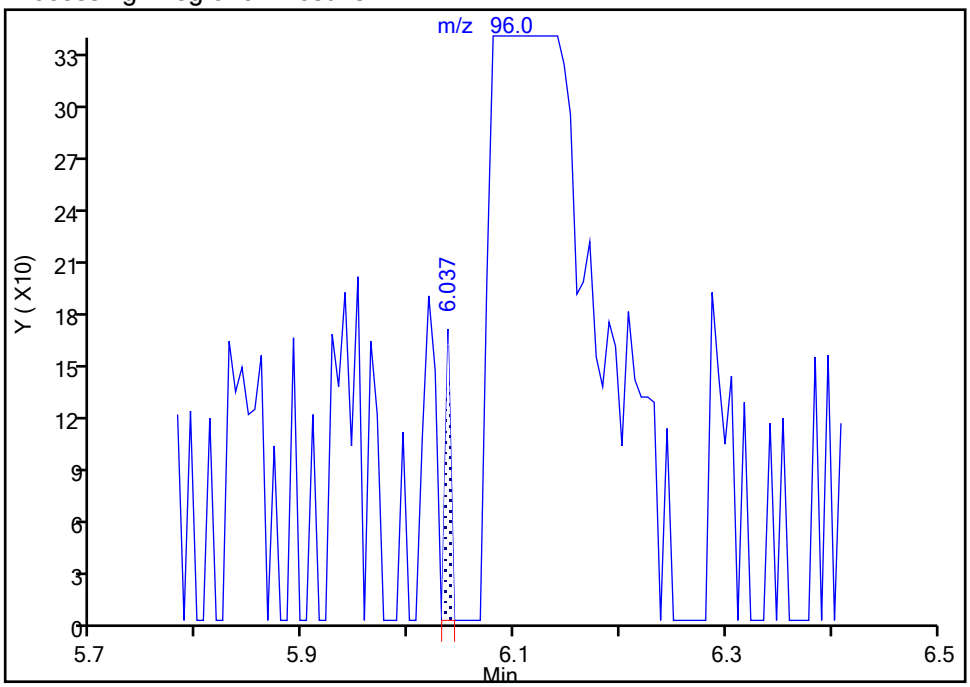
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

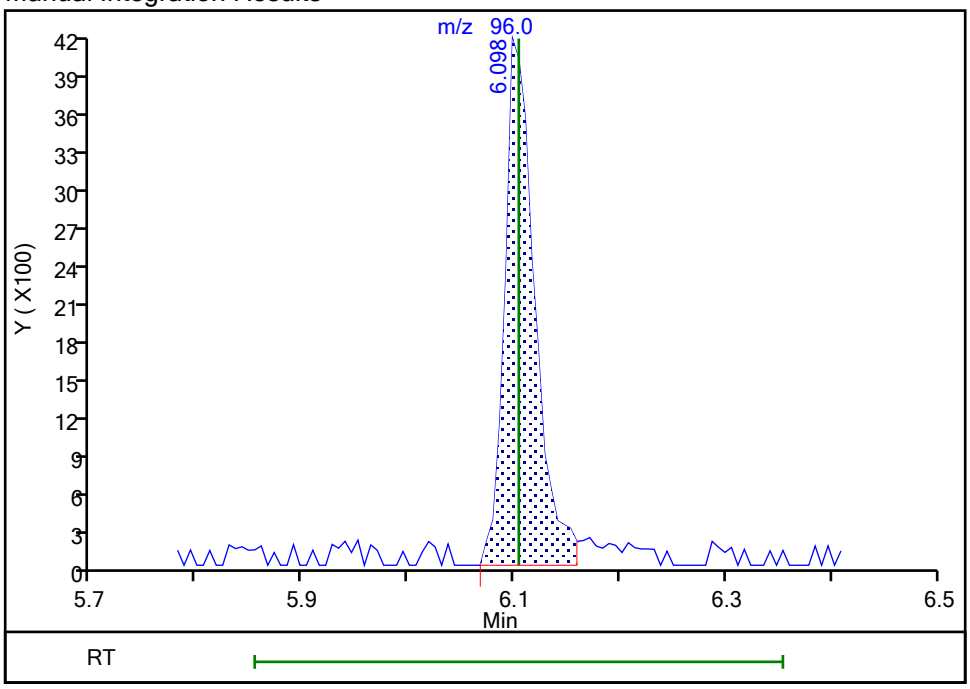
Processing Integration Results

RT: 6.04
Area: 61
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 8165
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 02-Oct-2020 00:57:30 ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:22 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:56:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	200249	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	95	8583	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	161977	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	80211	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	46536	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	198035	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	91	64581	50.0	49.6	
9 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	7901	2.00	2.38	M
11 Vinyl chloride	62	1.538	1.532	0.006	98	7020	2.00	2.03	M
10 Chloromethane	50	1.526	1.562	-0.036	96	4618	2.00	2.12	M
12 Butadiene	54	1.568	1.568	0.000	94	7773	2.00	2.21	M
13 Bromomethane	94	1.806	1.867	-0.061	25	2574	2.00	1.92	M
14 Chloroethane	64	1.916	1.910	0.006	95	4334	2.00	2.13	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	97	9359	2.00	2.02	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	97	8749	2.00	2.01	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

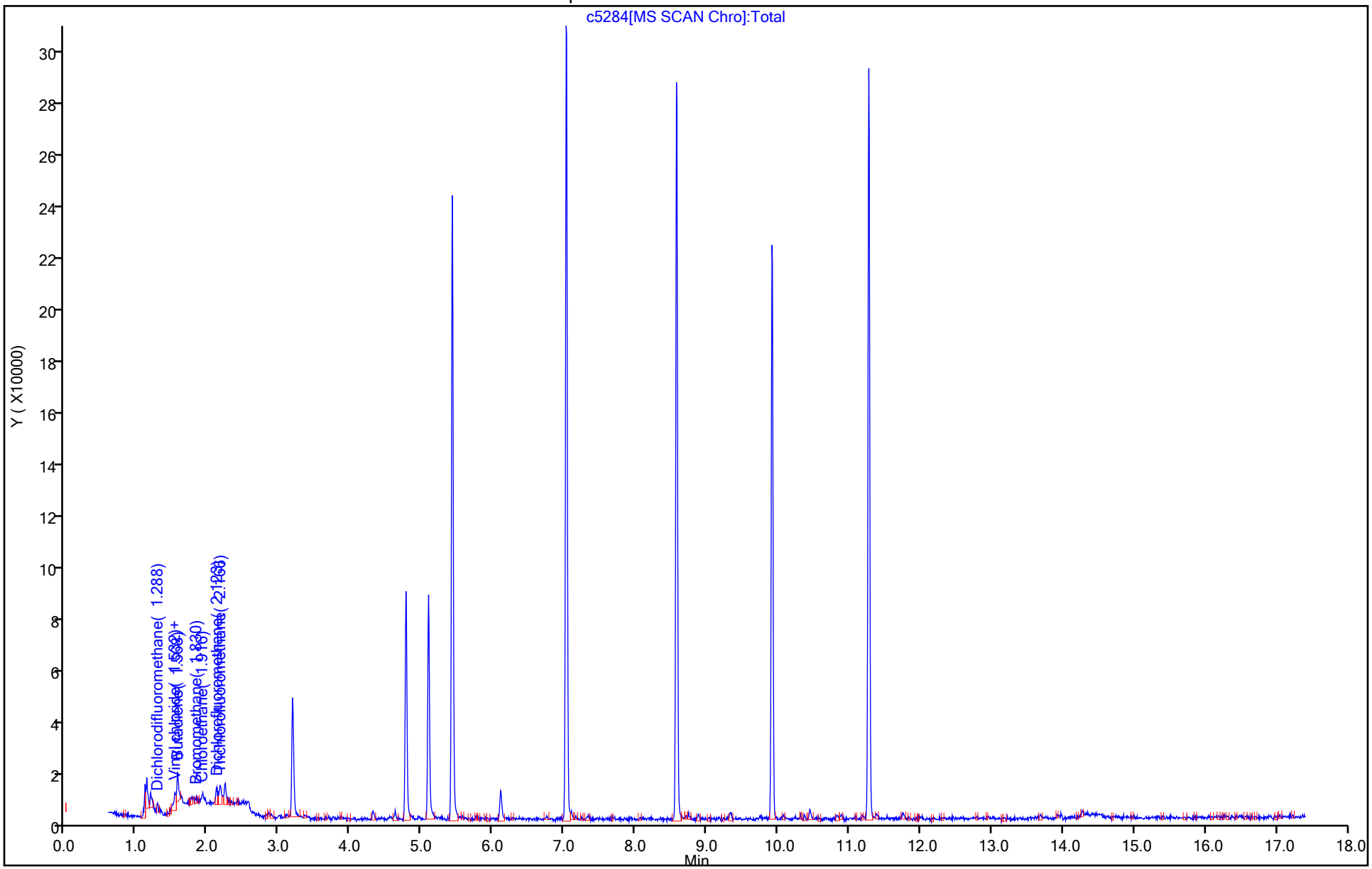
Reagents:

VV_I_GASES_00407 Amount Added: 2.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:23 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D				
Injection Date:	02-Oct-2020 00:57:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std3			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

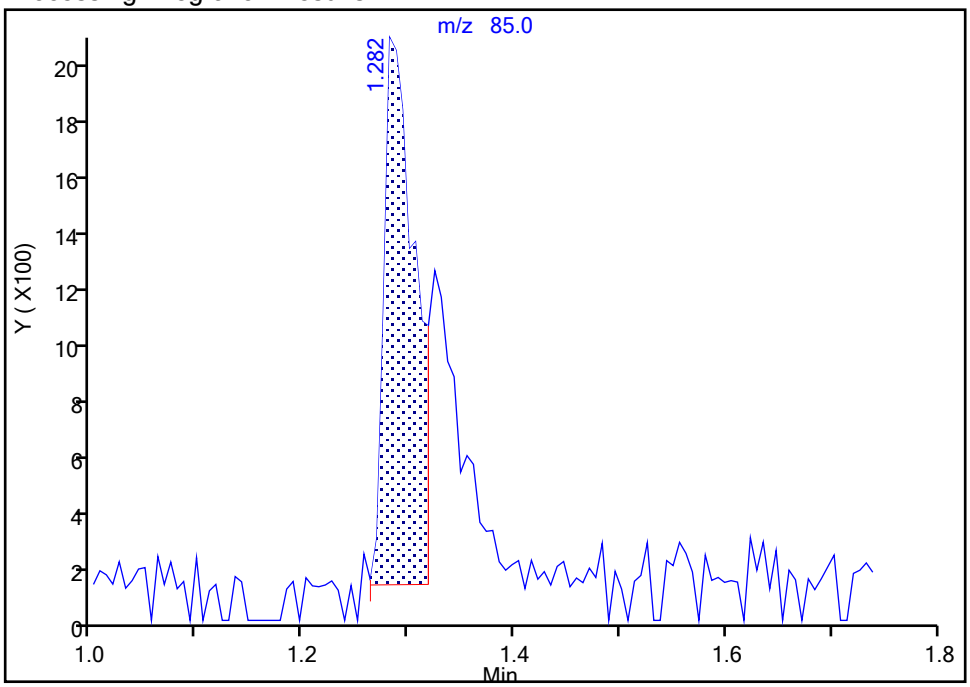
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D				
Injection Date:	02-Oct-2020 00:57:30	Instrument ID:	Calvin		
Lims ID:	std3				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	36	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

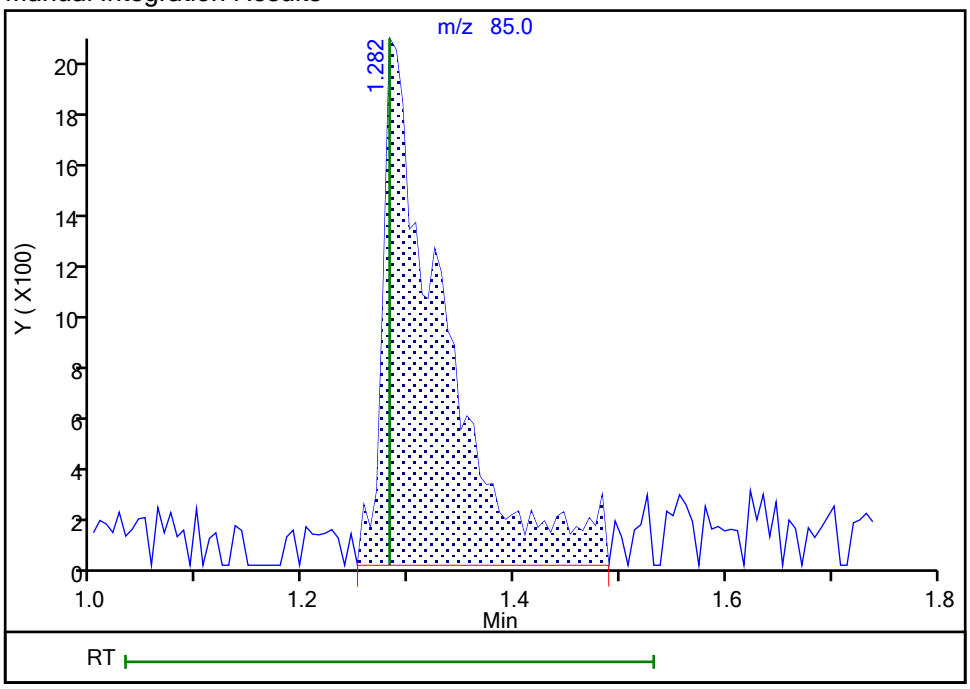
Processing Integration Results

RT: 1.28
Area: 3884
Amount: 1.172863
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 7901
Amount: 2.381039
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

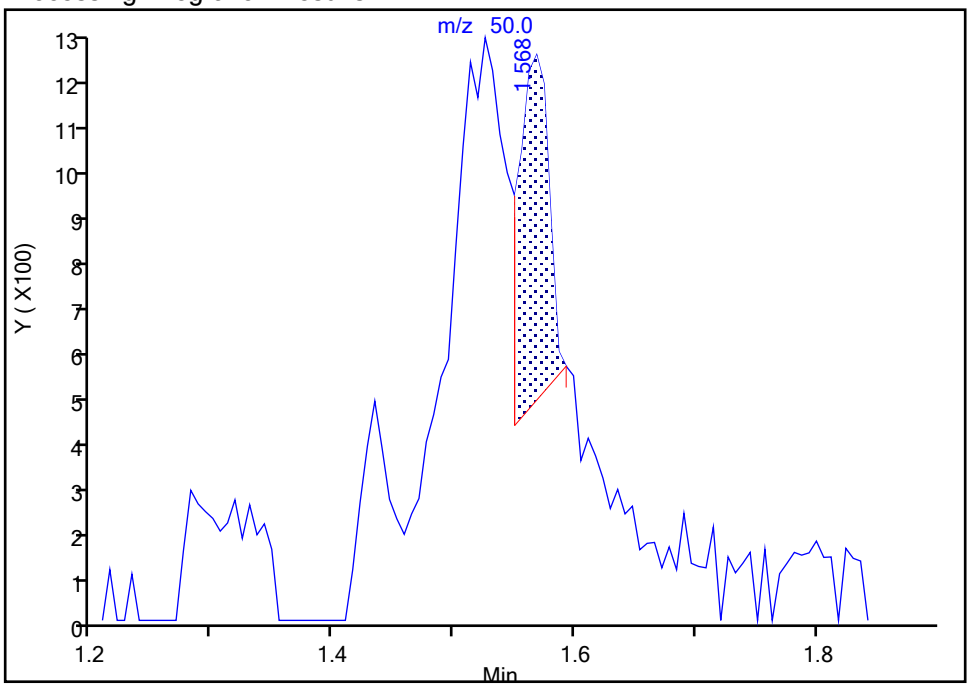
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

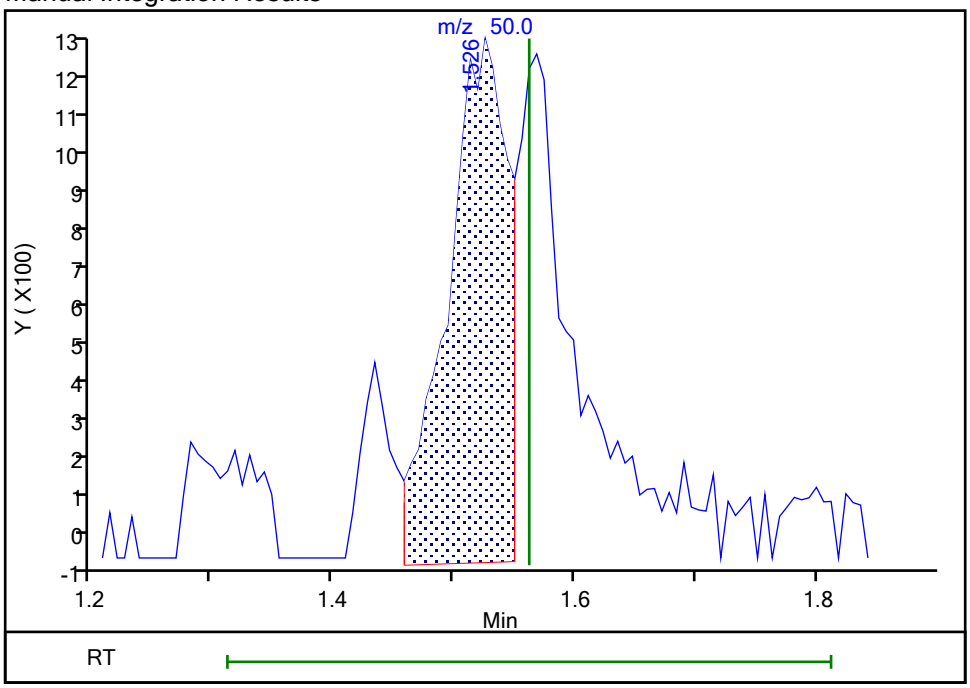
Processing Integration Results

RT: 1.57
Area: 1345
Amount: 0.681269
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 4618
Amount: 2.121085
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

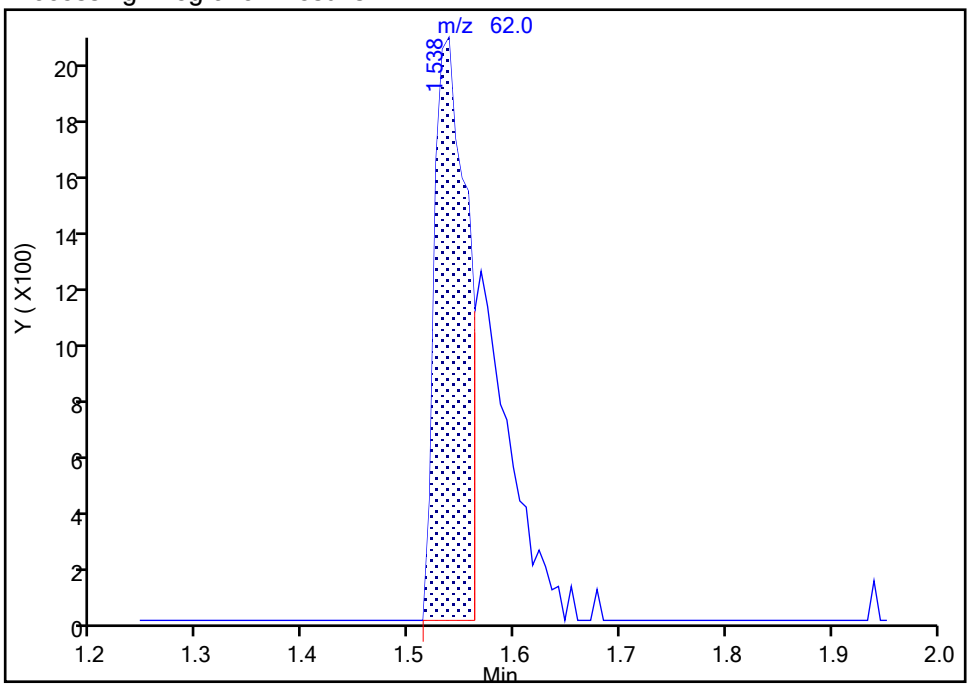
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

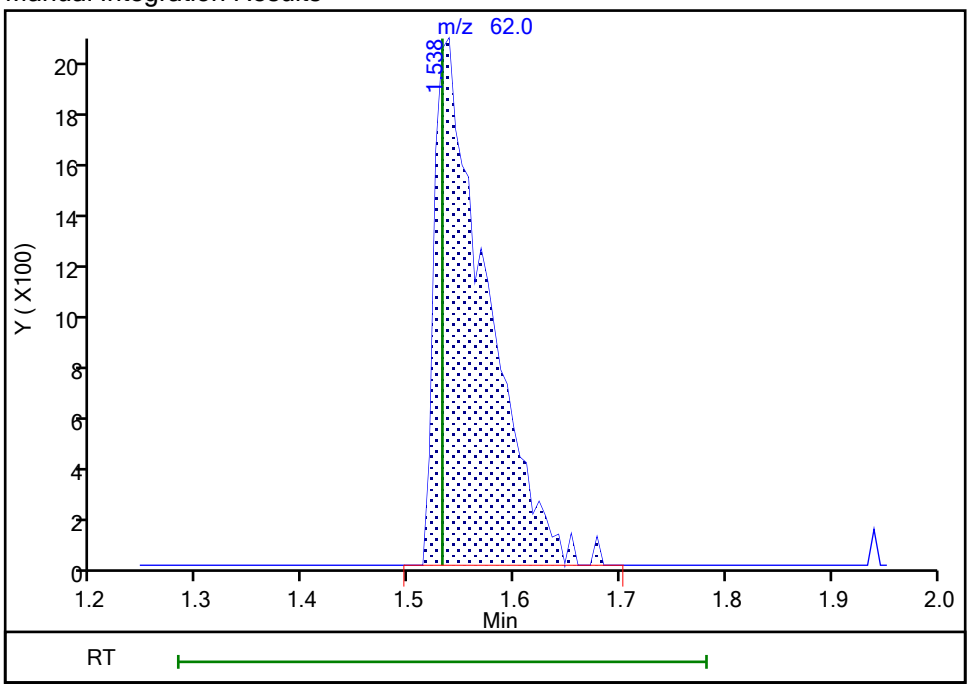
Processing Integration Results

RT: 1.54
Area: 4387
Amount: 1.316233
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 7020
Amount: 2.034181
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

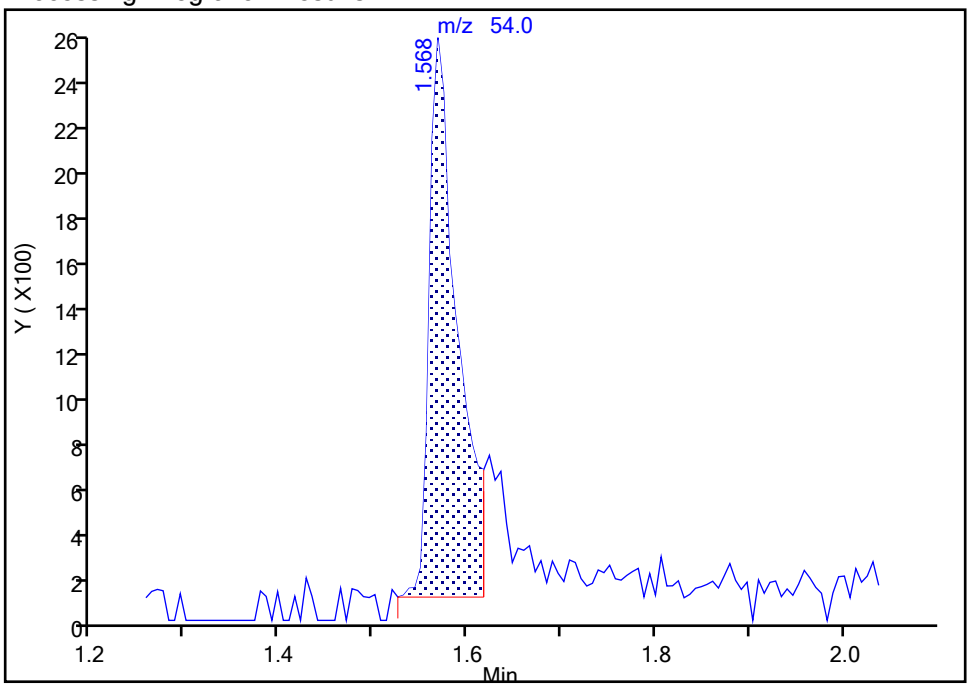
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

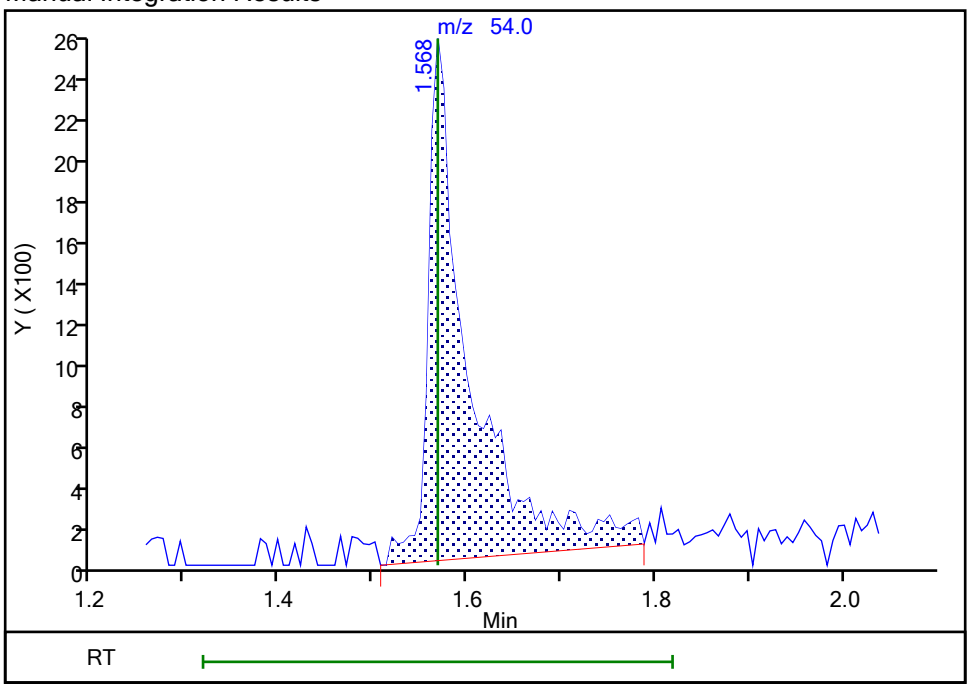
Processing Integration Results

RT: 1.57
Area: 5178
Amount: 1.455774
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 7773
Amount: 2.211591
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

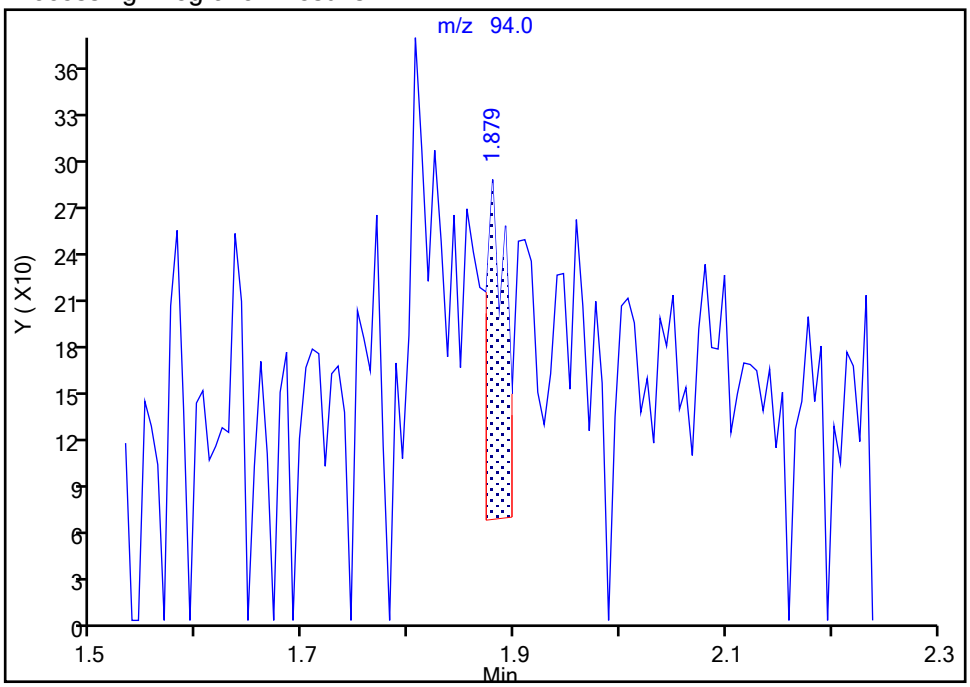
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

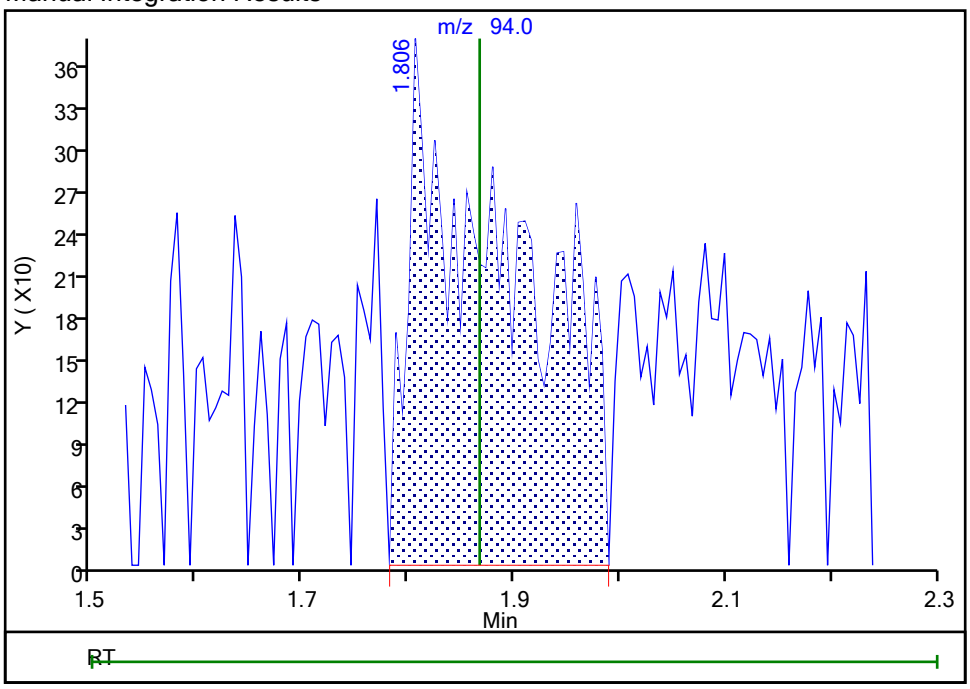
Processing Integration Results

RT: 1.88
Area: 281
Amount: 0.201609
Amount Units: ug/l



Manual Integration Results

RT: 1.81
Area: 2574
Amount: 1.921198
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

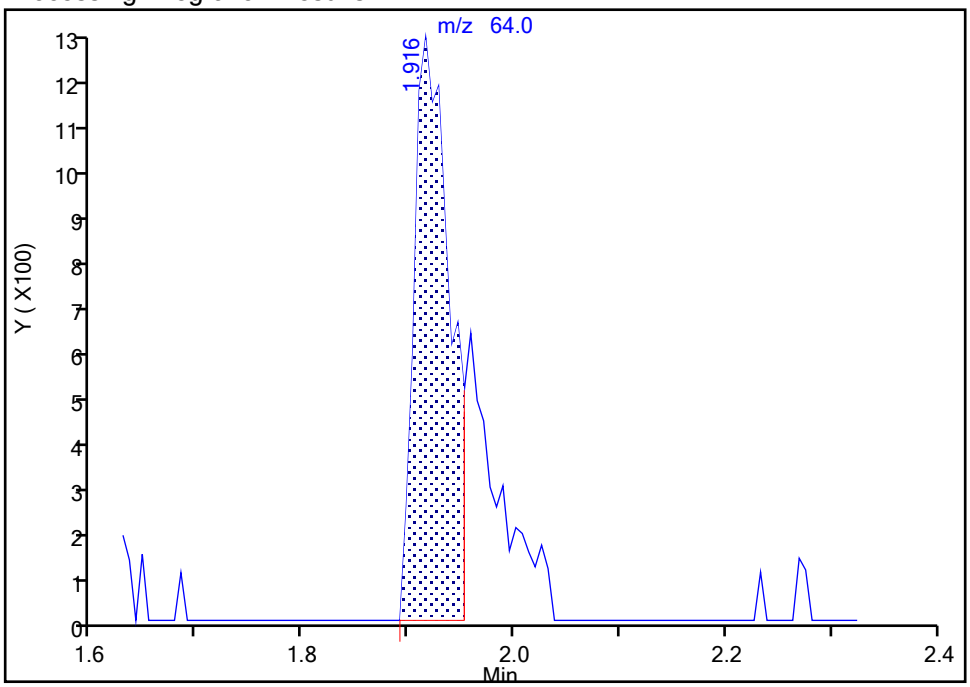
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

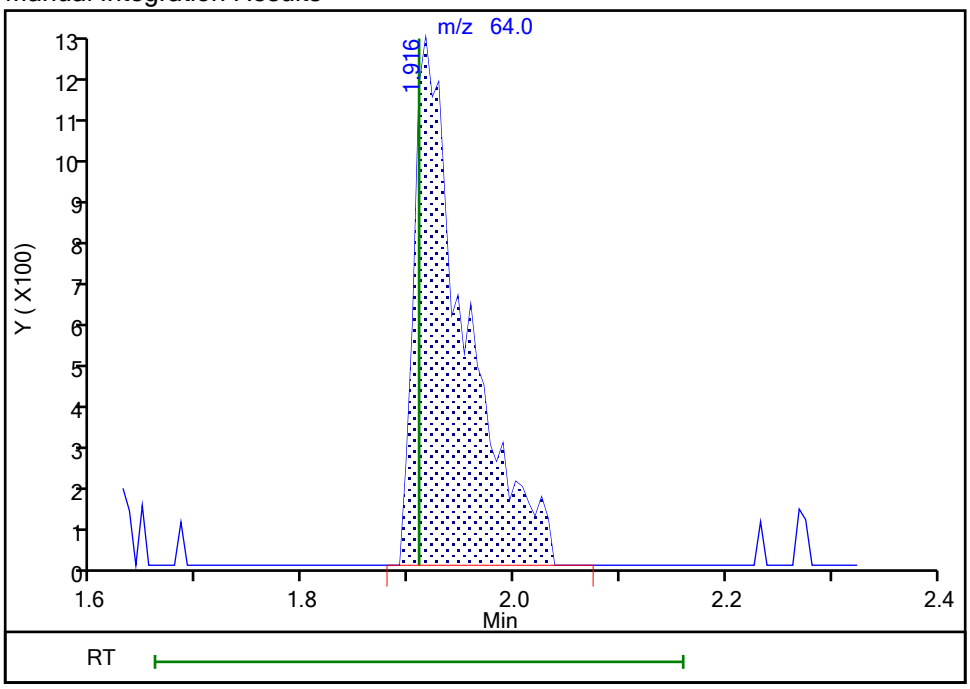
Processing Integration Results

RT: 1.92
Area: 3044
Amount: 1.541076
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 4334
Amount: 2.134397
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

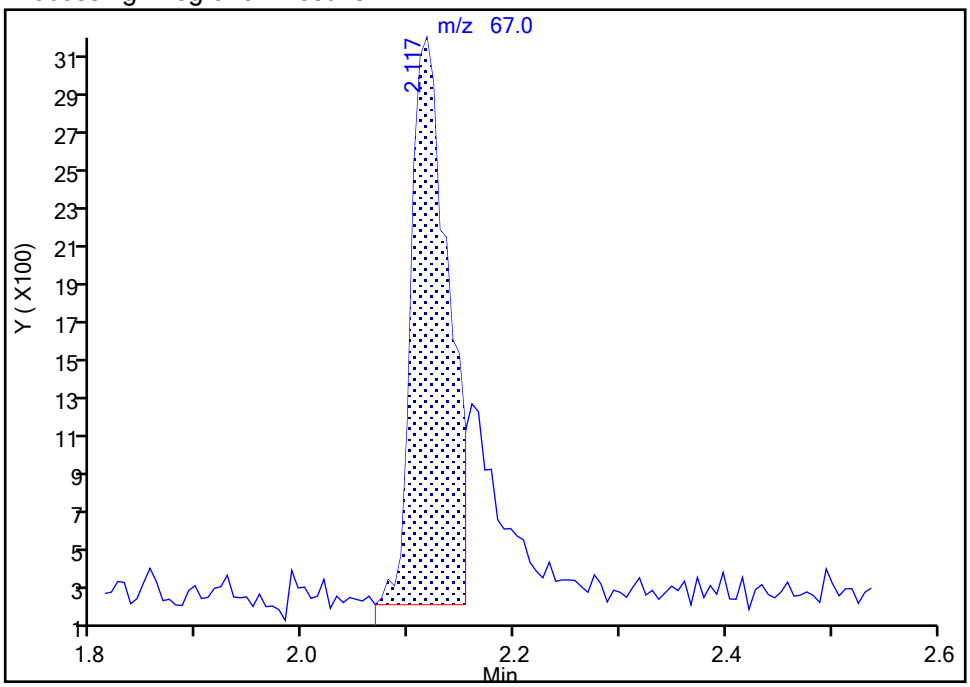
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D				
Injection Date:	02-Oct-2020 00:57:30	Instrument ID:	Calvin		
Lims ID:	std3				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	36	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

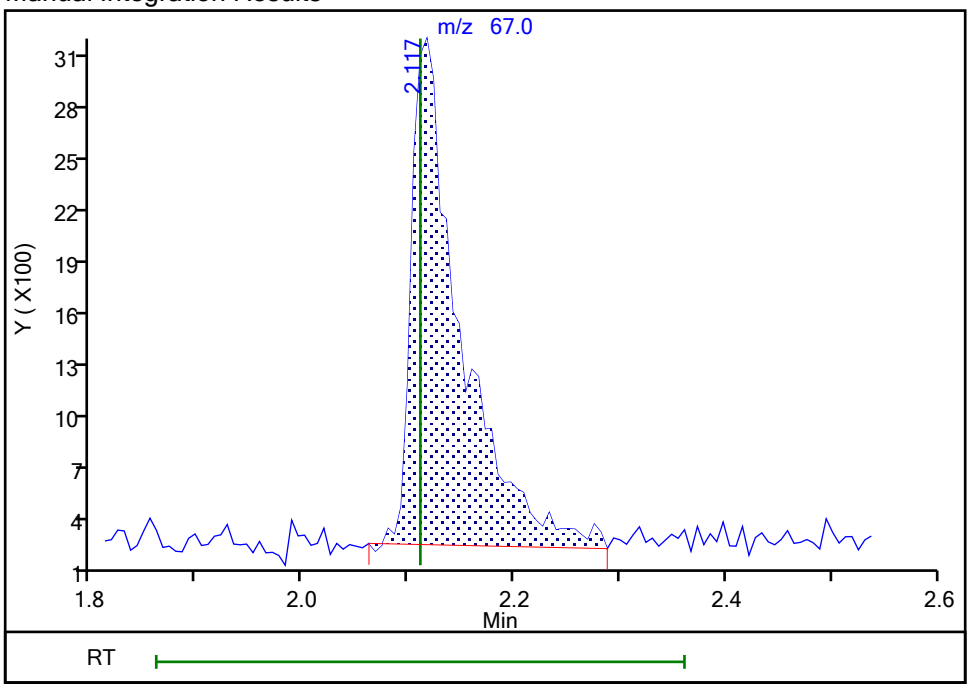
Processing Integration Results

RT: 2.12
Area: 7174
Amount: 1.601454
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 9359
Amount: 2.019326
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

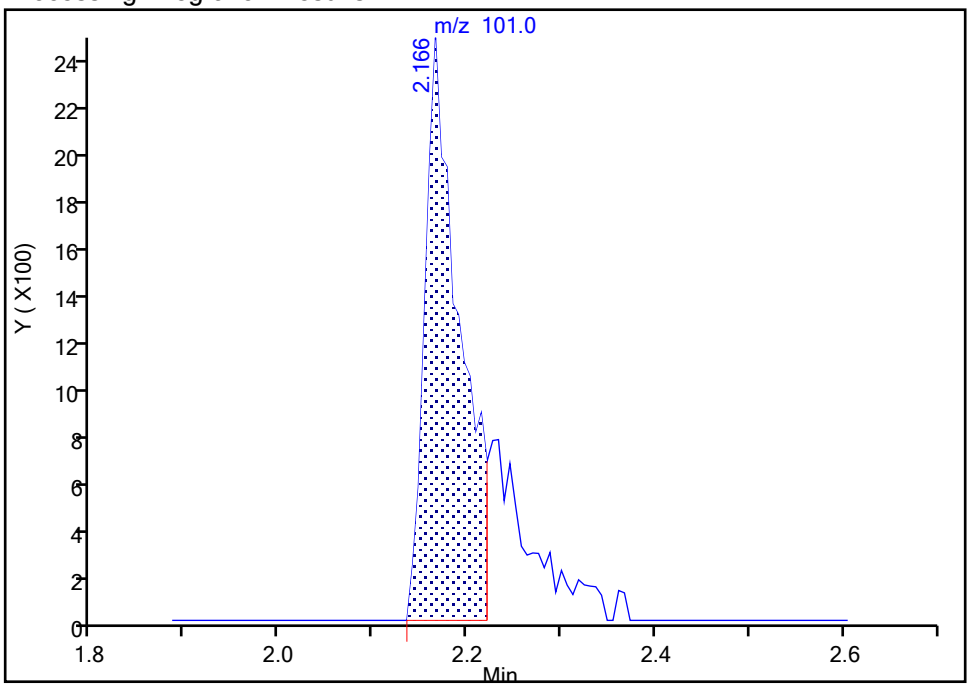
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

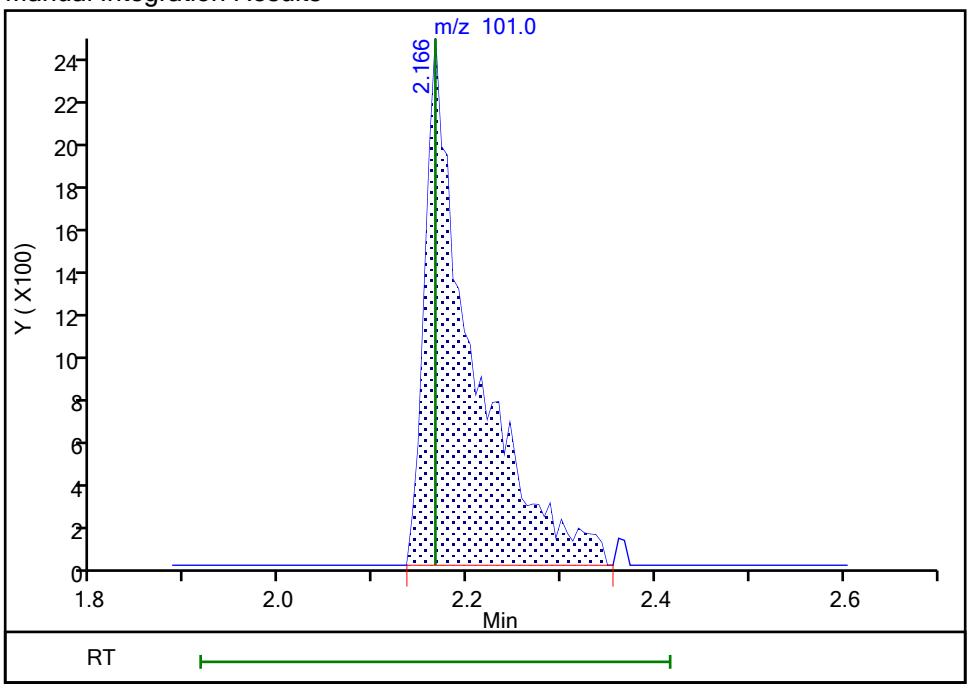
Processing Integration Results

RT: 2.17
Area: 6469
Amount: 1.584151
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 8749
Amount: 2.012896
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 02-Oct-2020 01:21:30 ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:25 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:58:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	182081	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	95	7065	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	146128	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	72007	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	41844	50.0	49.7	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	176531	50.0	48.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	92	58668	50.0	50.2	
9 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	10694	4.00	3.54	M
11 Vinyl chloride	62	1.532	1.532	0.000	98	11741	4.00	3.74	M
10 Chloromethane	50	1.526	1.562	-0.036	95	6667	4.00	3.37	M
12 Butadiene	54	1.568	1.568	0.000	92	10188	4.00	3.19	M
13 Bromomethane	94	1.824	1.867	-0.043	25	4156	4.00	3.41	M
14 Chloroethane	64	1.916	1.910	0.006	98	7484	4.00	4.05	M
15 Dichlorofluoromethane	67	2.111	2.111	0.000	97	15360	4.00	3.64	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	97	13797	4.00	3.49	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

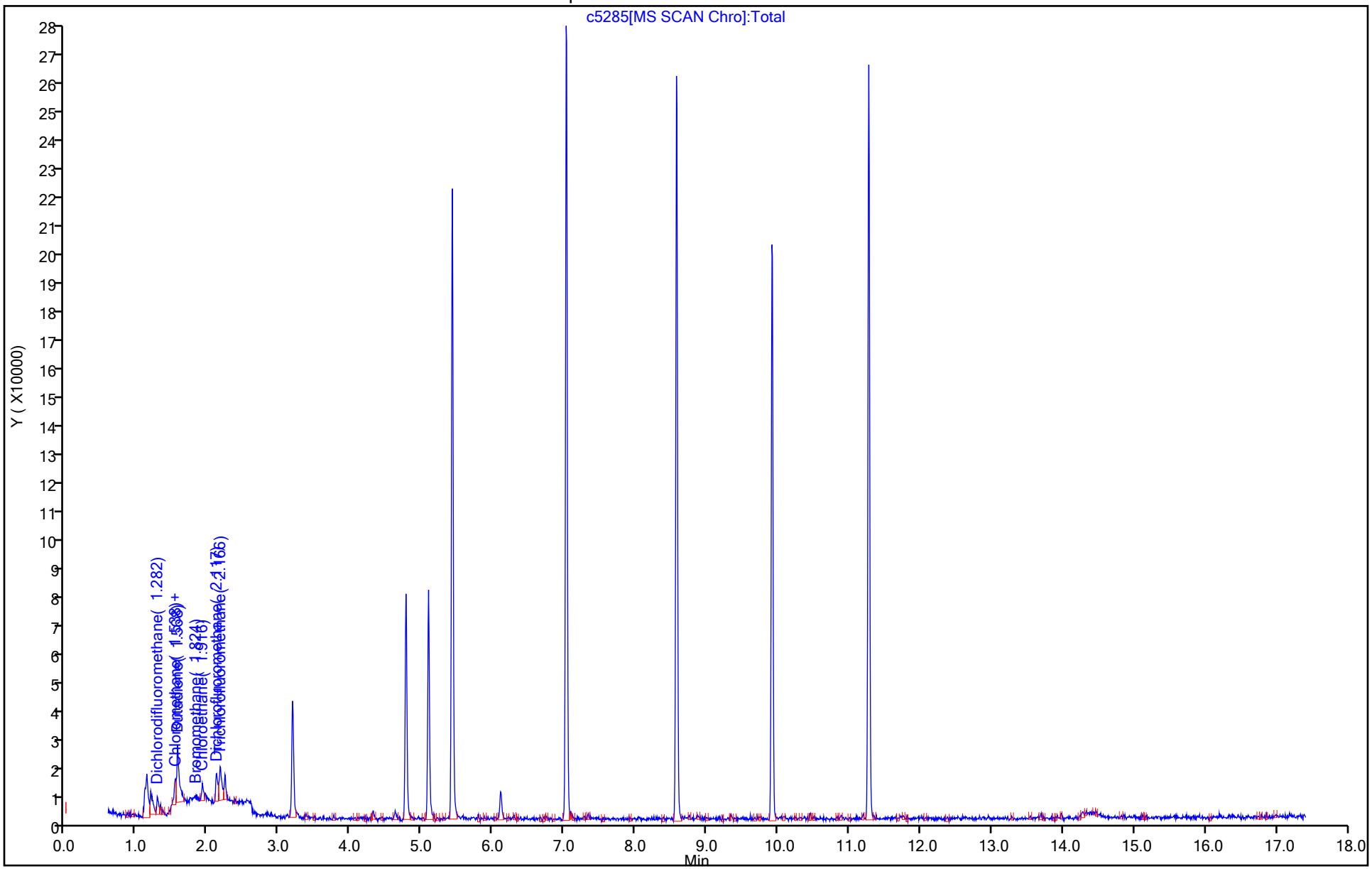
VV_I_GASES_00407 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D

Injection Date:	02-Oct-2020 01:21:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std4			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

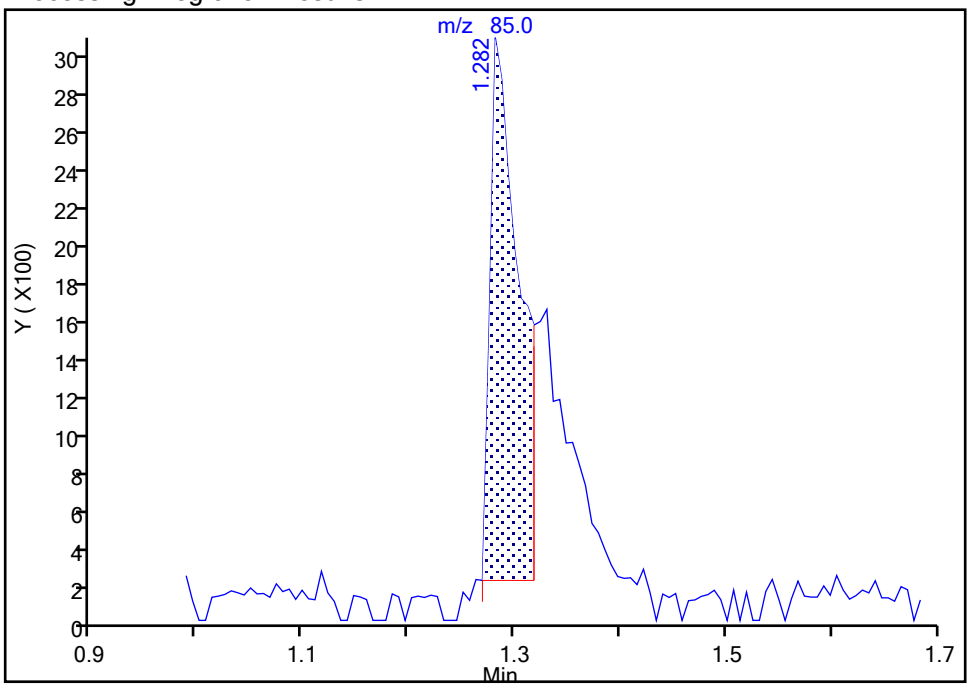
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

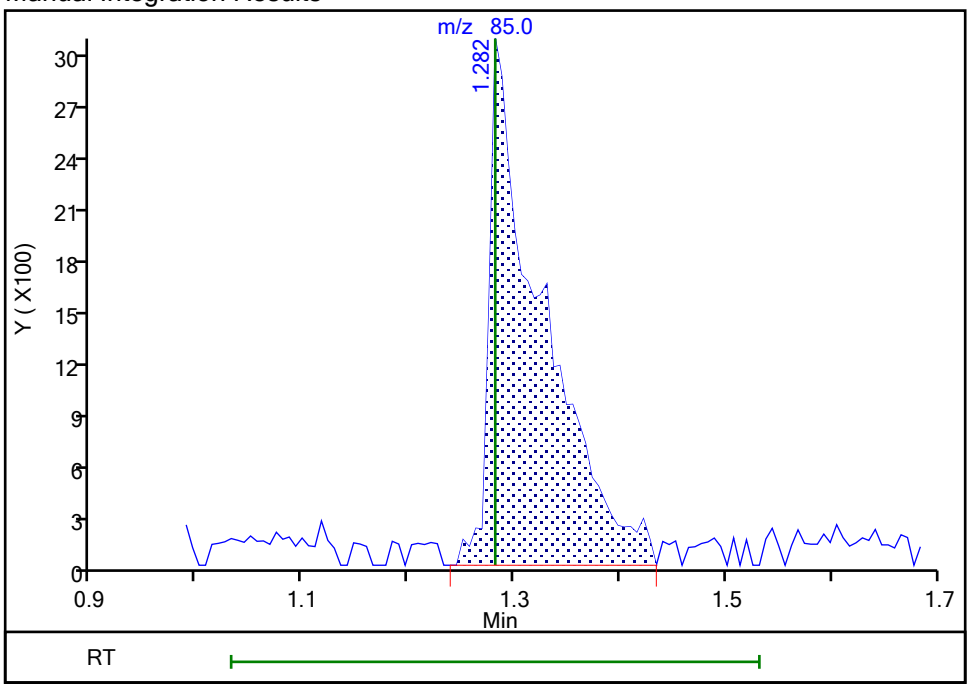
Processing Integration Results

RT: 1.28
Area: 5475
Amount: 1.730789
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 10694
Amount: 3.544298
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

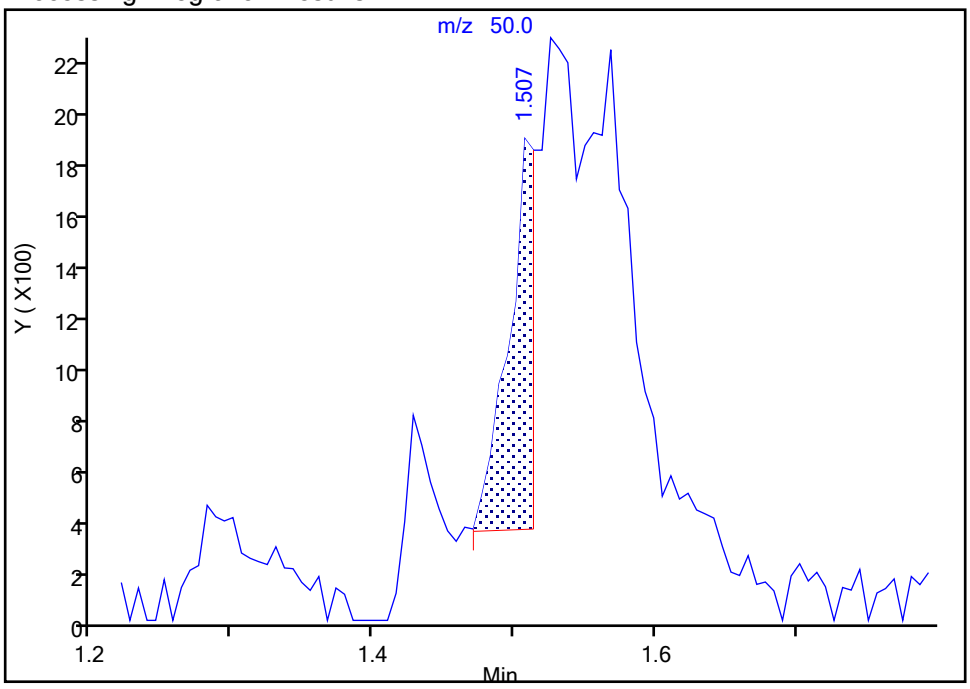
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

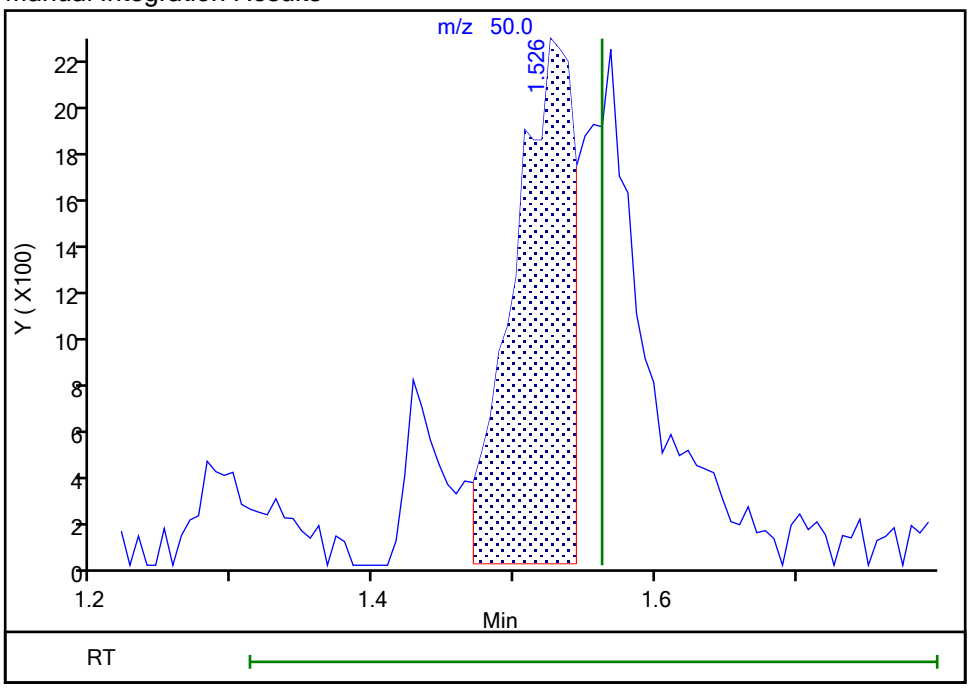
Processing Integration Results

RT: 1.51
Area: 2007
Amount: 1.045781
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 6667
Amount: 3.367754
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

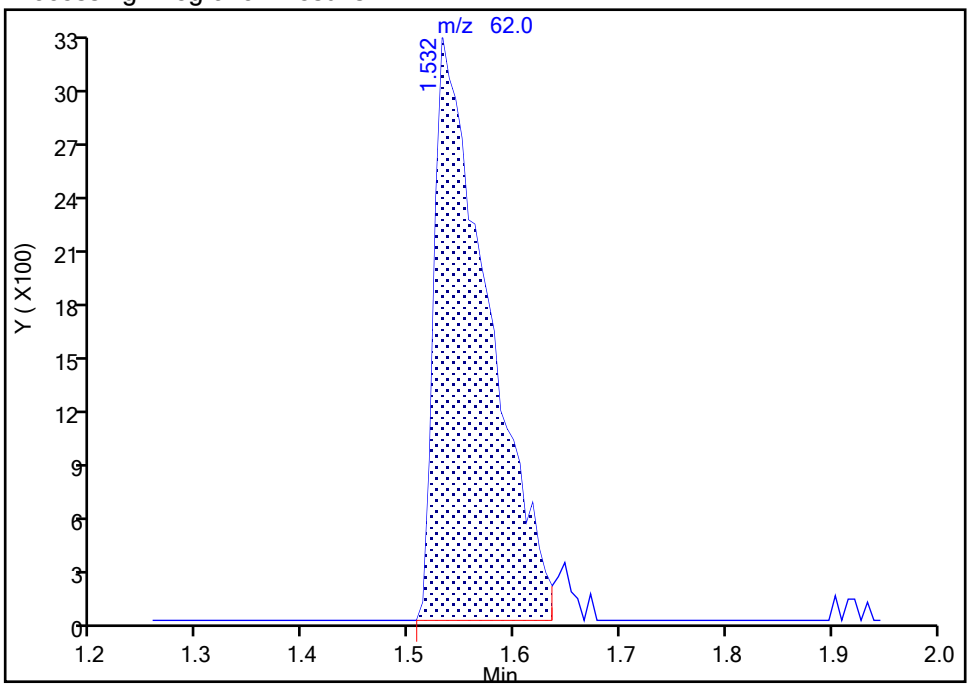
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

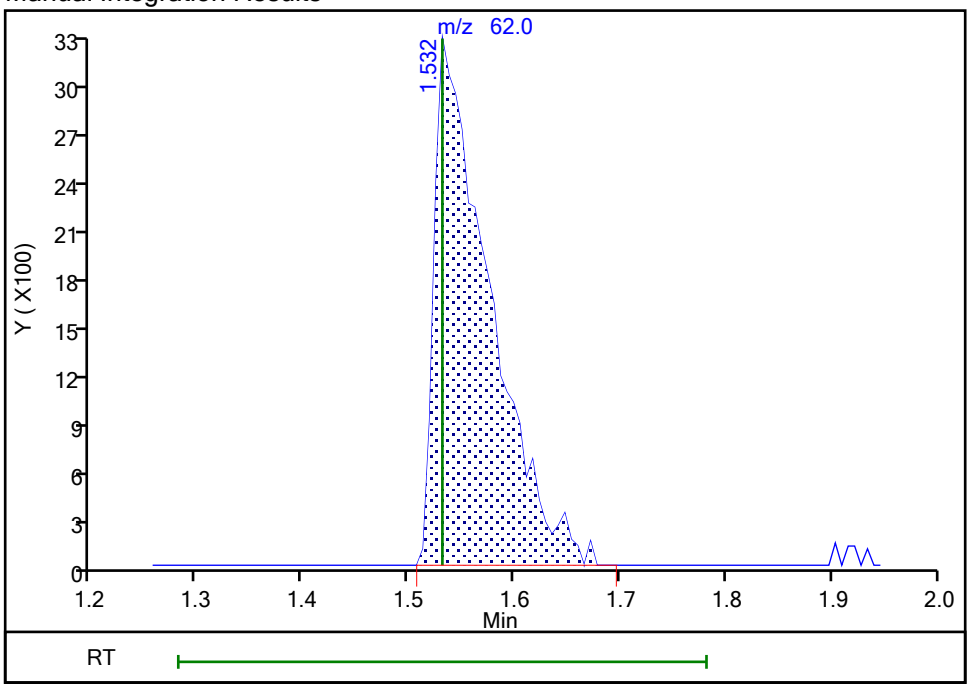
Processing Integration Results

RT: 1.53
Area: 11378
Amount: 3.634729
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 11741
Amount: 3.741650
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

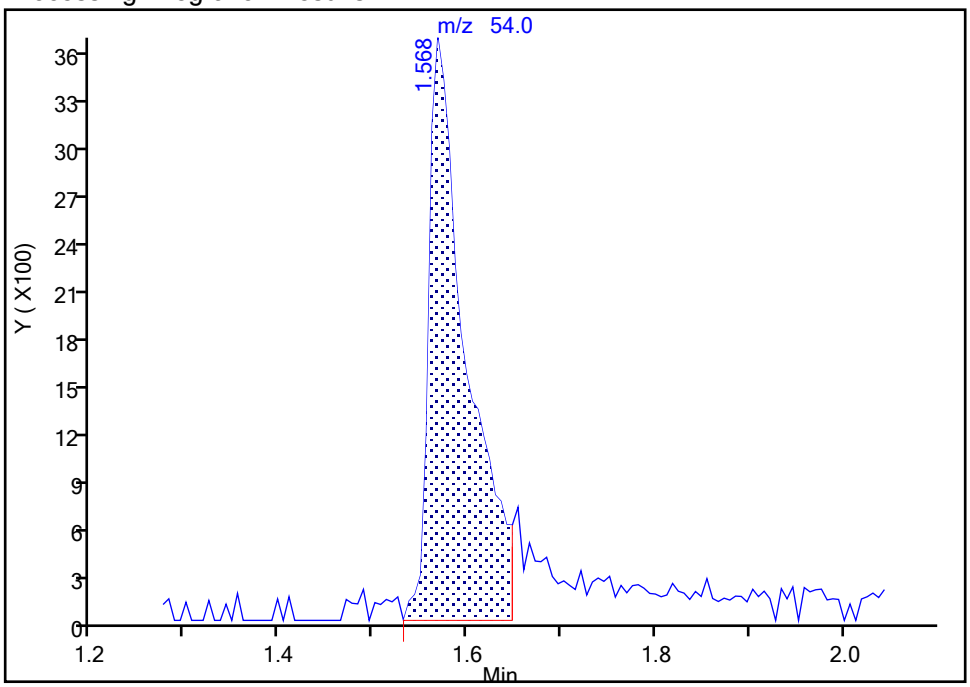
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

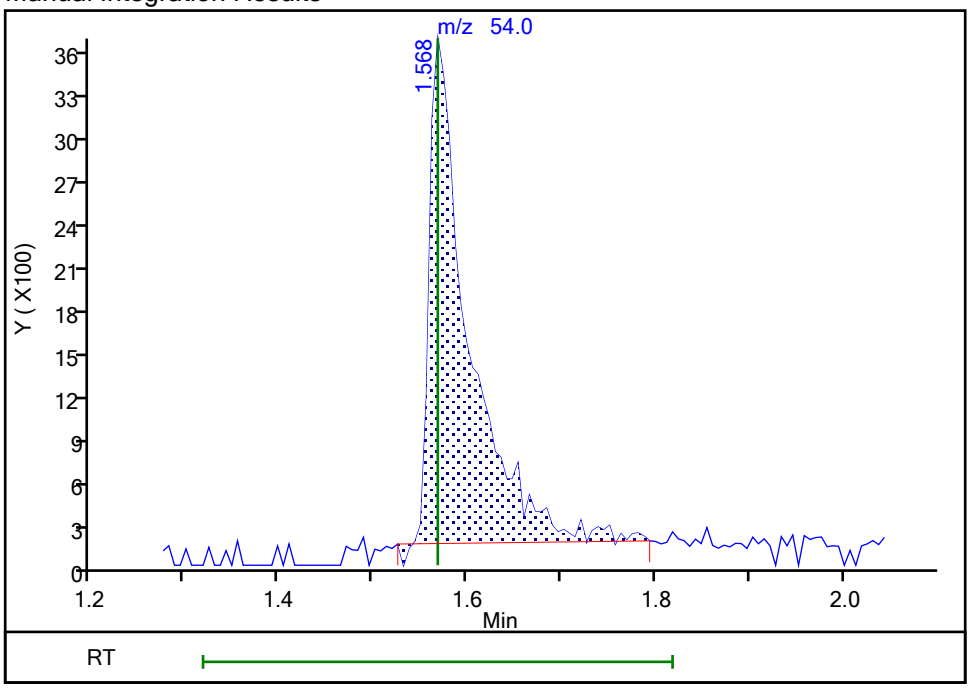
Processing Integration Results

RT: 1.57
Area: 10301
Amount: 3.092167
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 10188
Amount: 3.187945
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

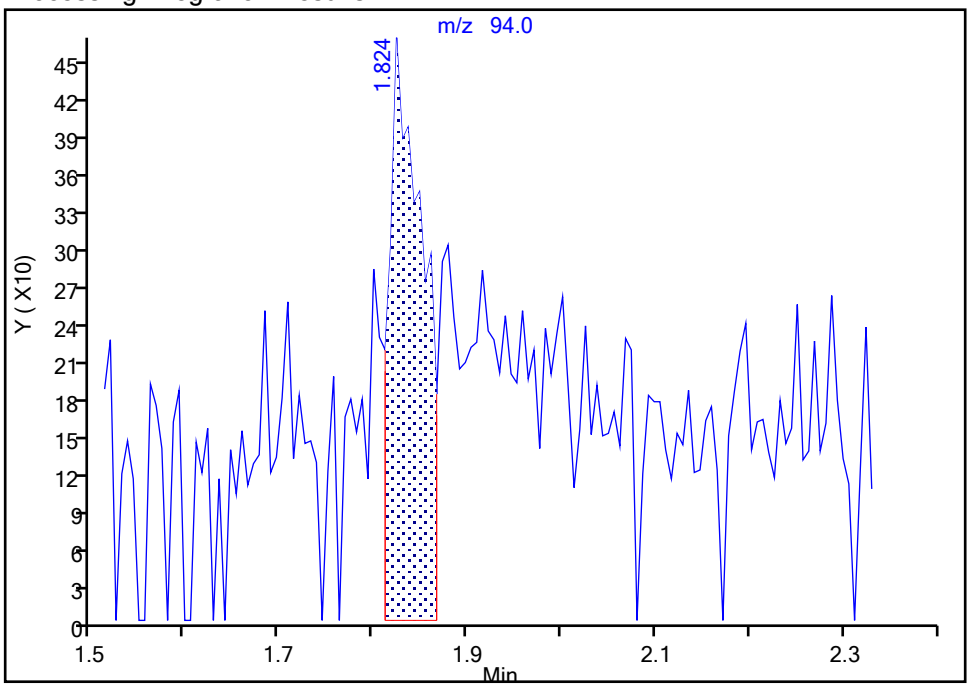
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

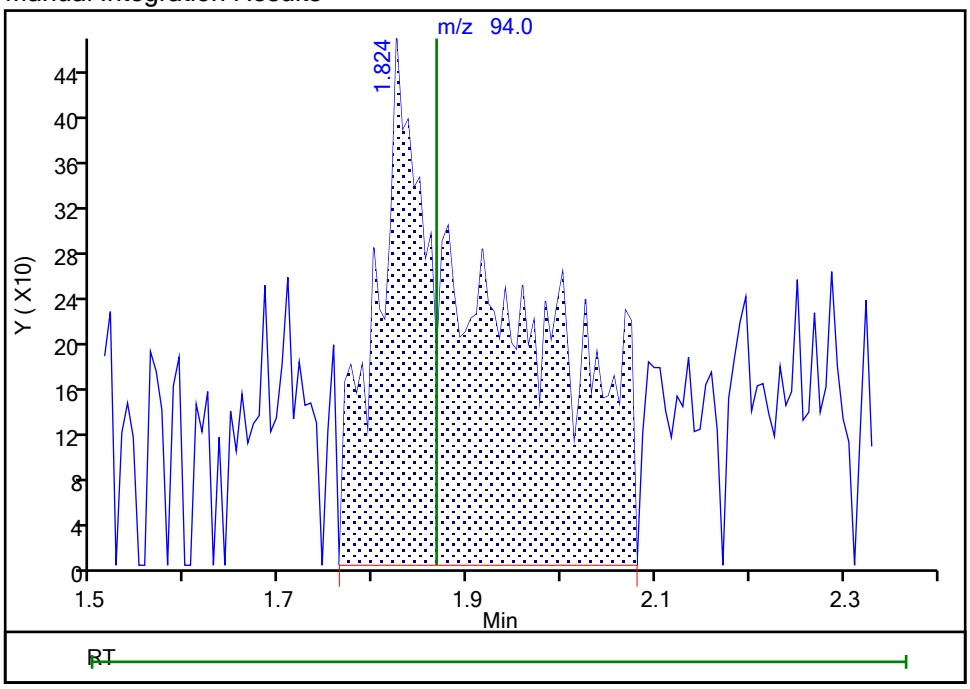
Processing Integration Results

RT: 1.82
Area: 1151
Amount: 0.849946
Amount Units: ug/l



Manual Integration Results

RT: 1.82
Area: 4156
Amount: 3.411496
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

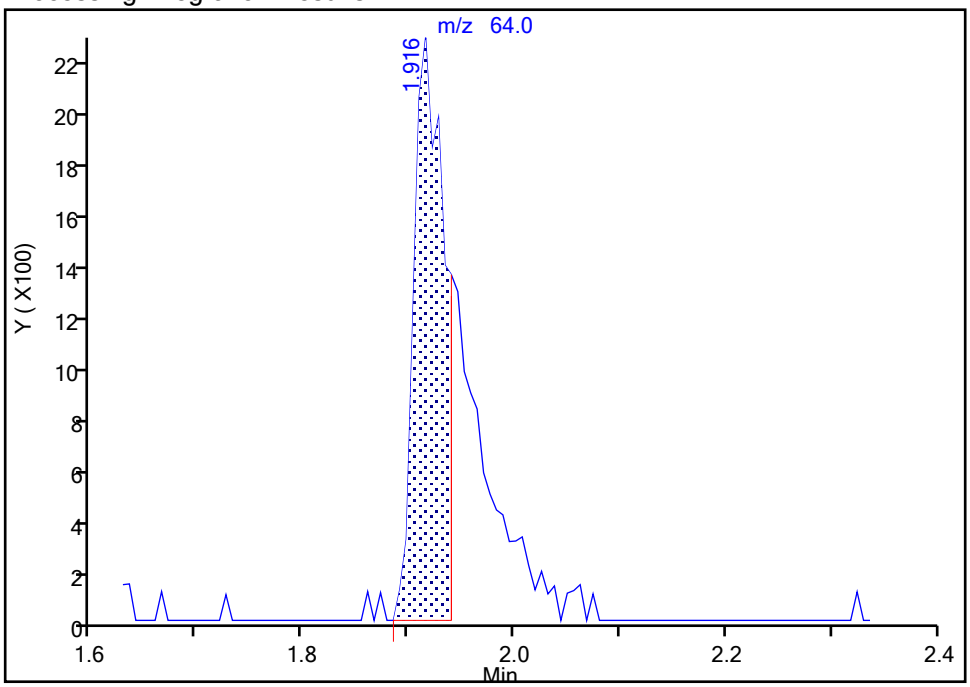
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

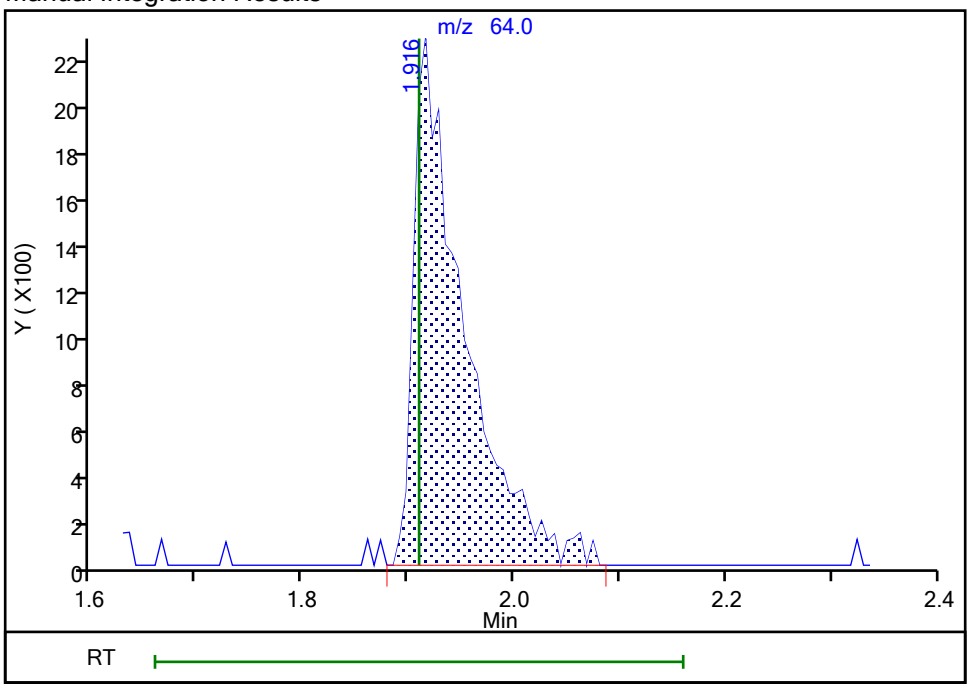
Processing Integration Results

RT: 1.92
Area: 4546
Amount: 2.464079
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 7484
Amount: 4.053460
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

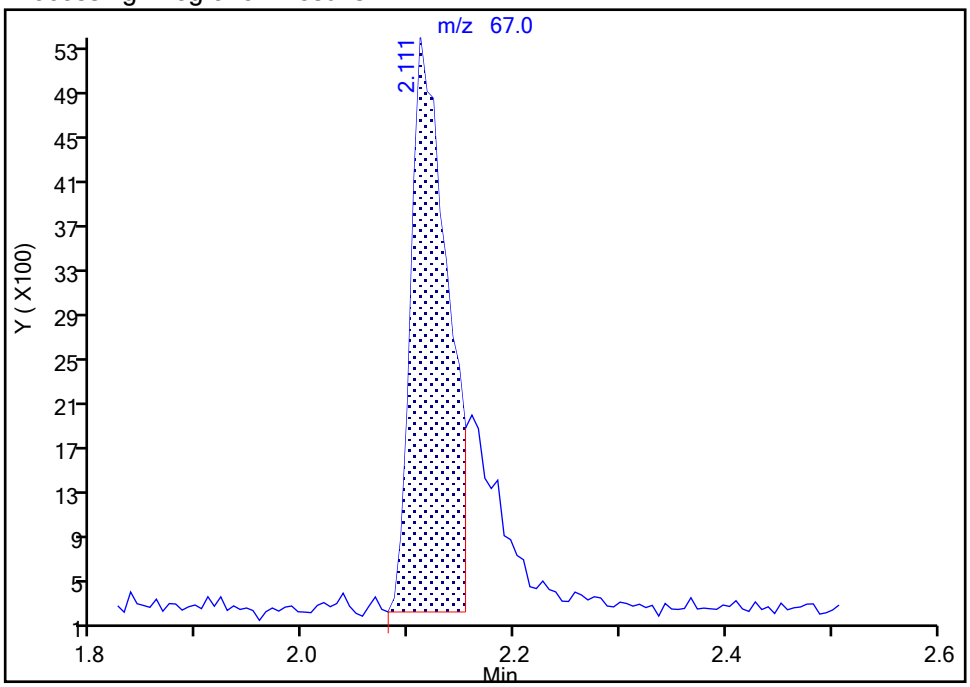
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D				
Injection Date:	02-Oct-2020 01:21:30	Instrument ID:	Calvin		
Lims ID:	std4				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

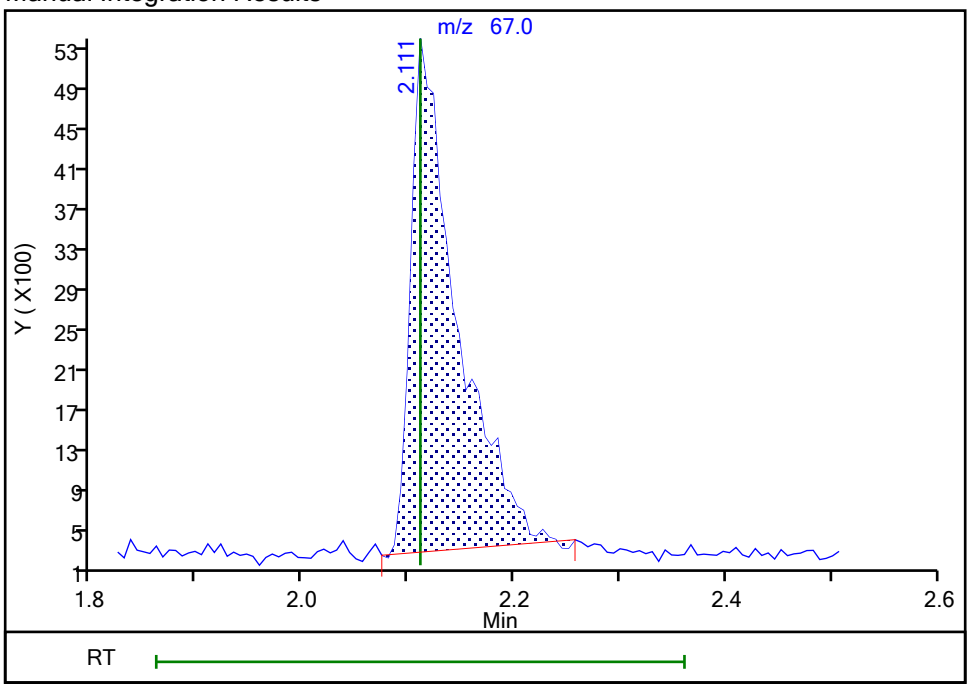
Processing Integration Results

RT: 2.11
Area: 12567
Amount: 3.023797
Amount Units: ug/l



Manual Integration Results

RT: 2.11
Area: 15360
Amount: 3.644802
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:52

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

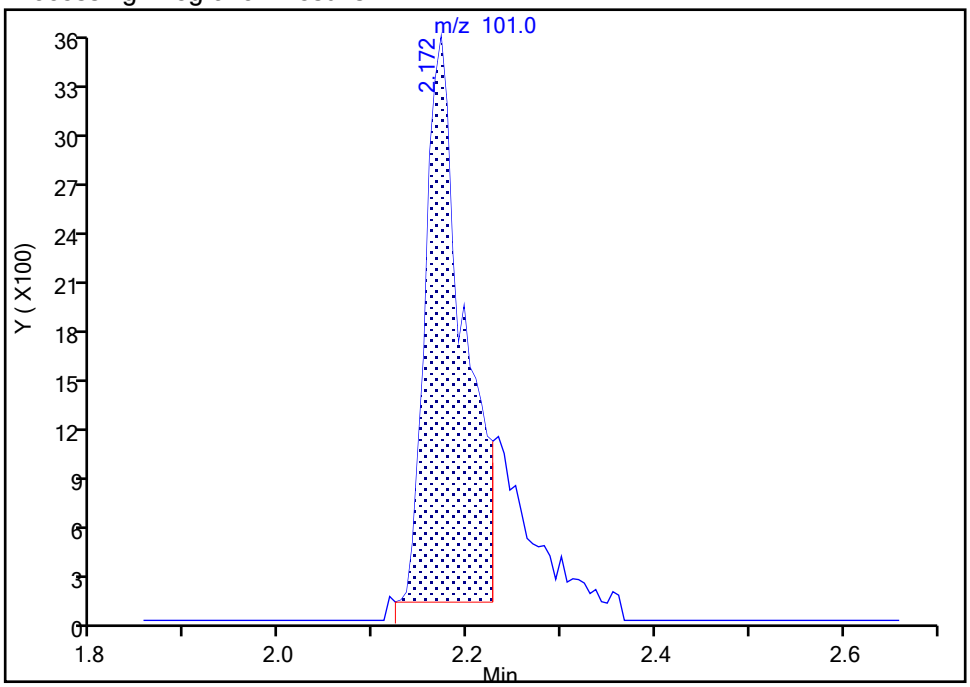
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

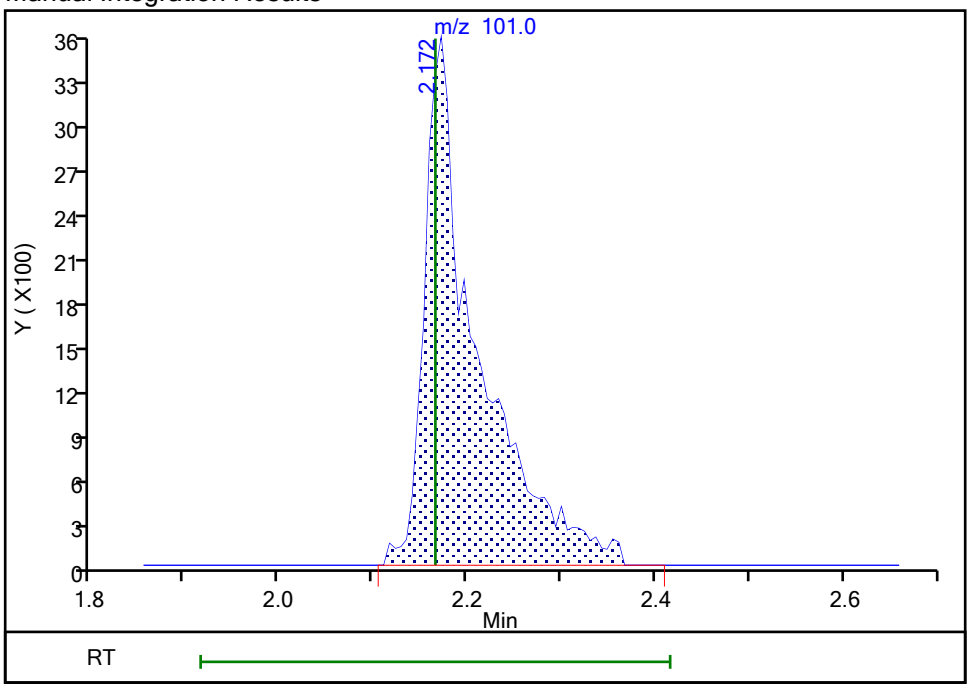
Processing Integration Results

RT: 2.17
Area: 9696
Amount: 2.551937
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 13797
Amount: 3.491028
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5286.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 02-Oct-2020 01:45:30 ALS Bottle#: 38 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:28 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:58:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	197919	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	97	7779	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	159719	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	77095	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	46257	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	197431	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	93	62521	50.0	50.0	
9 Dichlorodifluoromethane	85	1.288	1.282	0.006	99	62980	20.0	19.2	
11 Vinyl chloride	62	1.538	1.532	0.006	100	64572	20.0	18.9	
10 Chloromethane	50	1.532	1.562	-0.030	97	35872	20.0	16.7	
12 Butadiene	54	1.568	1.568	0.000	90	65231	20.0	18.8	
13 Bromomethane	94	1.861	1.867	-0.006	90	23954	20.0	18.1	M
14 Chloroethane	64	1.916	1.910	0.006	99	37099	20.0	18.5	
15 Dichlorofluoromethane	67	2.117	2.111	0.006	97	87599	20.0	19.1	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	79672	20.0	18.5	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

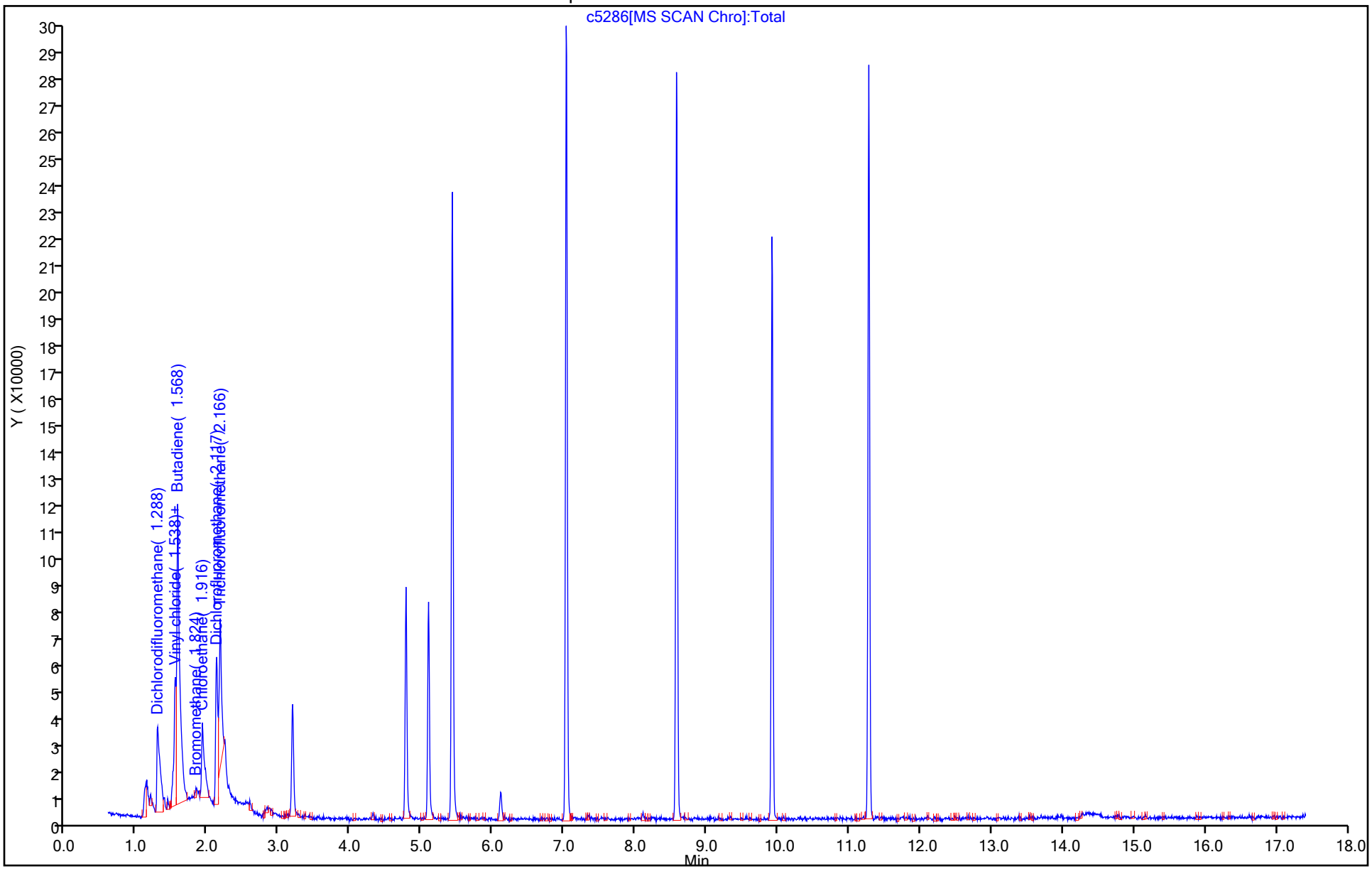
Reagents:

VV_I_GASES_00407 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:29 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5286.D				
Injection Date:	02-Oct-2020 01:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std5			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

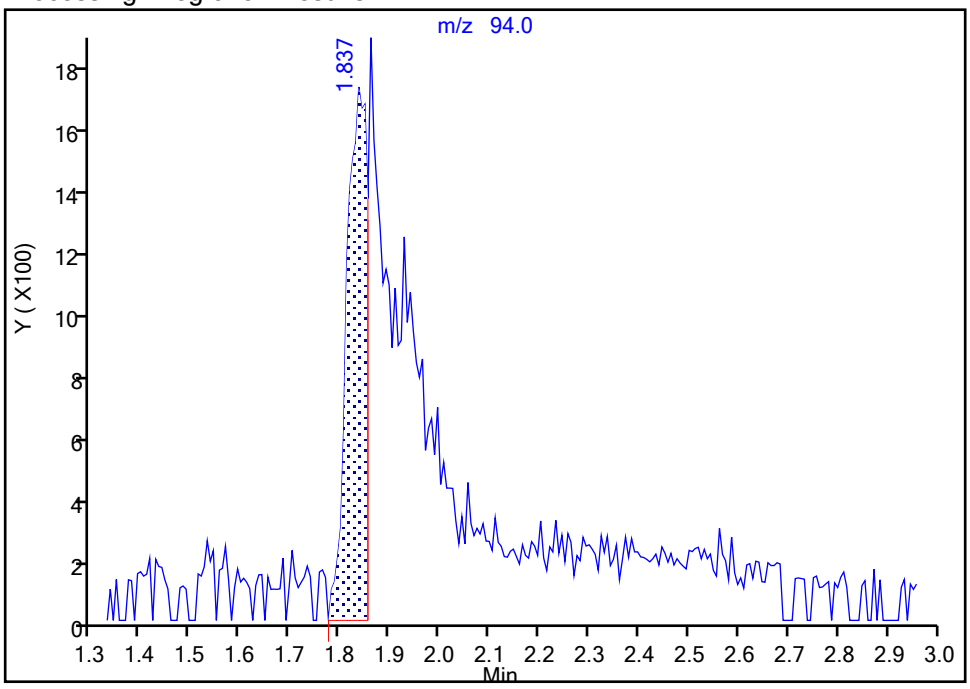
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5286.D
Injection Date: 02-Oct-2020 01:45:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 38 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

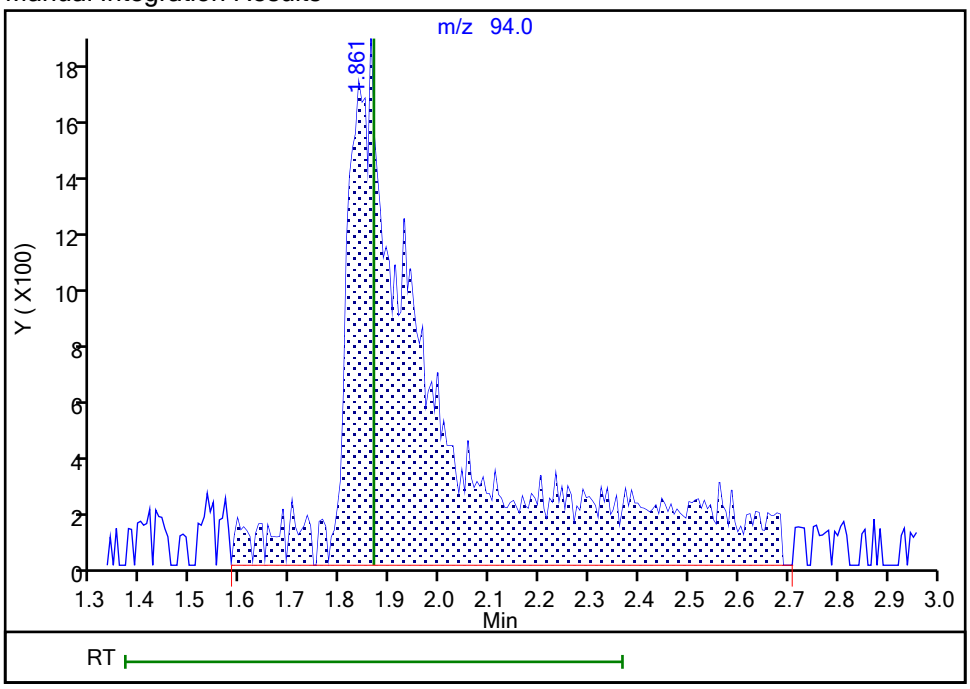
Processing Integration Results

RT: 1.84
Area: 4872
Amount: 3.163542
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 23954
Amount: 18.089413
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:08:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 02-Oct-2020 02:09:30 ALS Bottle#: 39 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:31 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:00:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	195032	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	7662	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	154999	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	77583	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	45069	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	193301	50.0	50.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	94	62709	50.0	49.8	
9 Dichlorodifluoromethane	85	1.288	1.282	0.006	99	65307	20.0	20.2	
11 Vinyl chloride	62	1.538	1.532	0.006	98	66237	20.0	19.7	
10 Chloromethane	50	1.526	1.562	-0.036	44	40298	20.0	19.0	M
12 Butadiene	54	1.568	1.568	0.000	91	64696	20.0	18.9	
13 Bromomethane	94	1.861	1.867	-0.006	90	26455	20.0	20.3	M
14 Chloroethane	64	1.916	1.910	0.006	99	38111	20.0	19.3	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	98	87706	20.0	19.4	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	98	87110	20.0	20.6	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

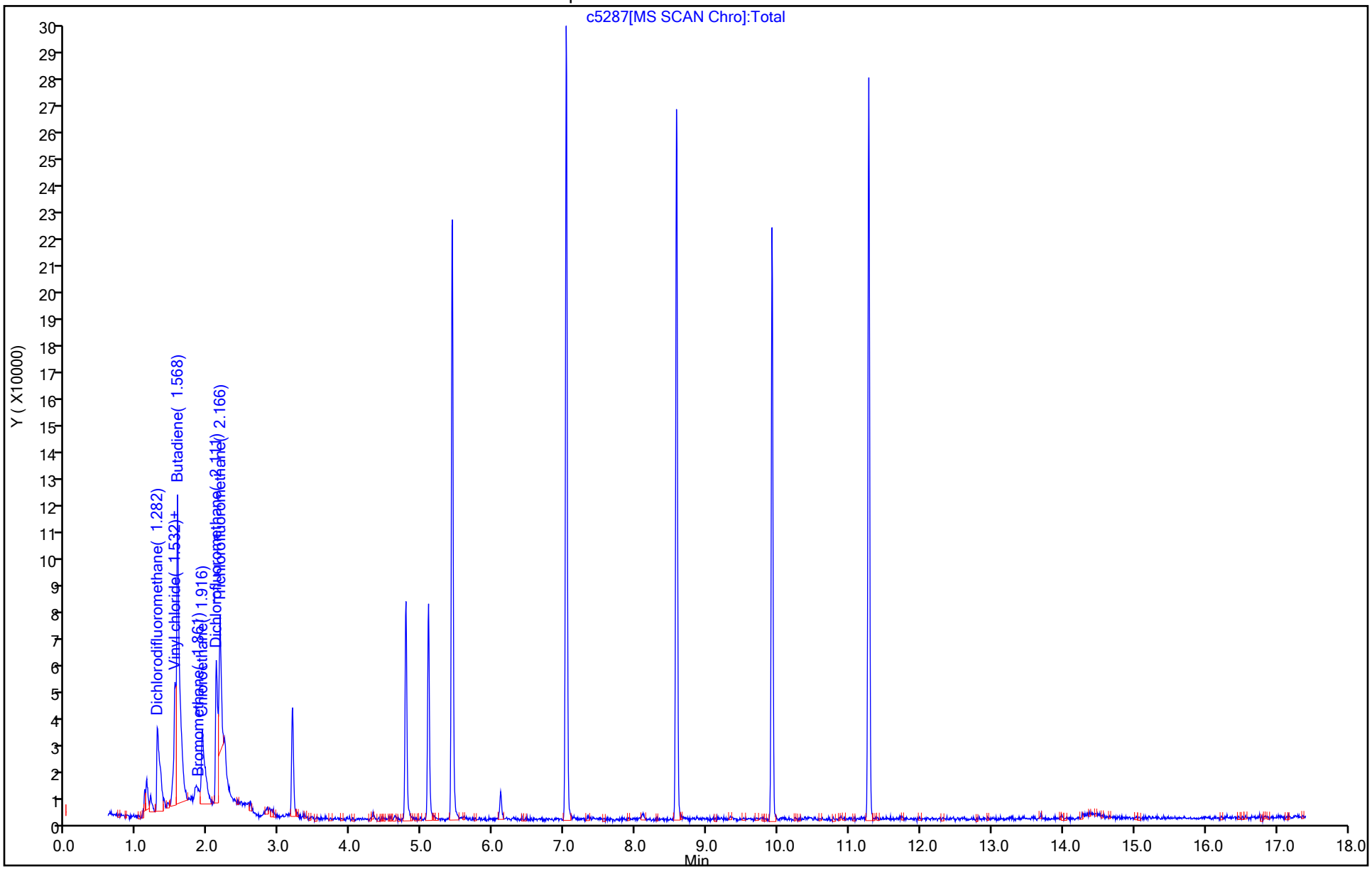
VV_I_GASES_00407 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:32 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D

Injection Date:	02-Oct-2020 02:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std6			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

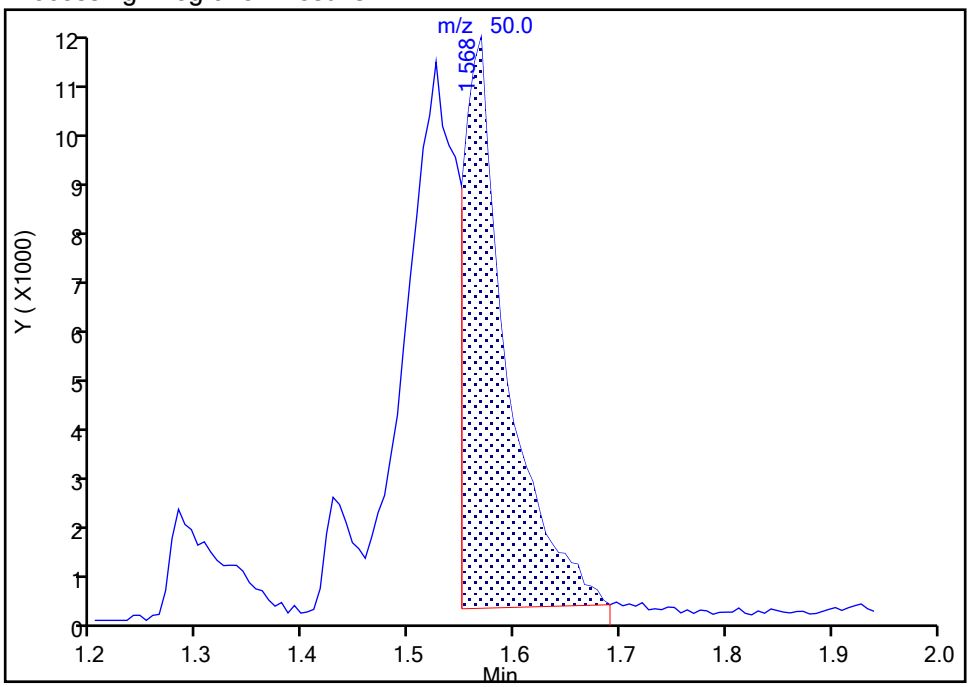
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D
Injection Date: 02-Oct-2020 02:09:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 39 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

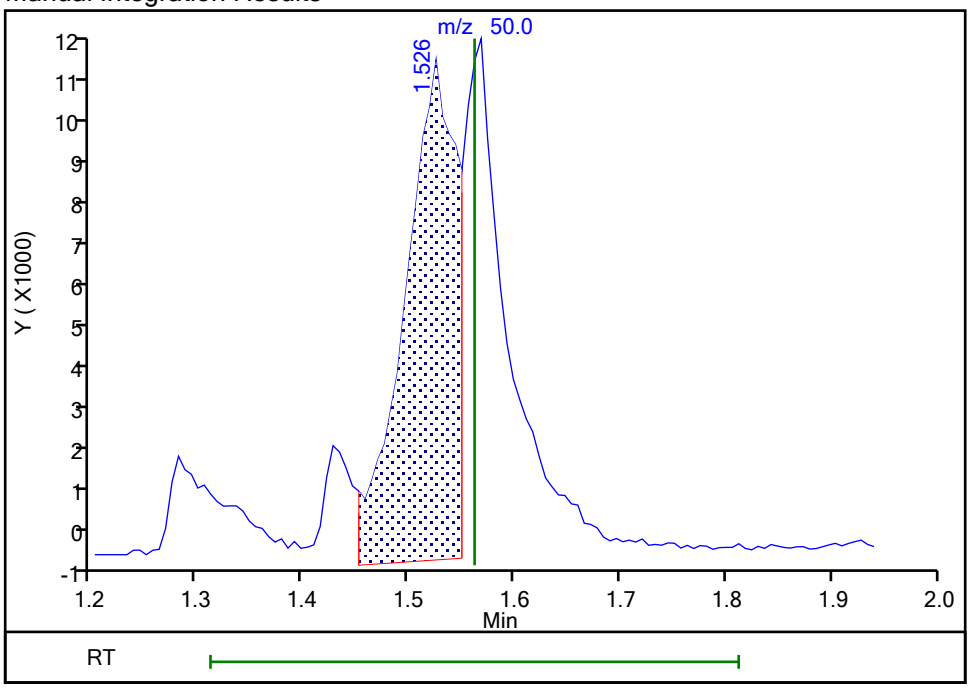
Processing Integration Results

RT: 1.57
Area: 33456
Amount: 15.491522
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 40298
Amount: 19.004310
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:58:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

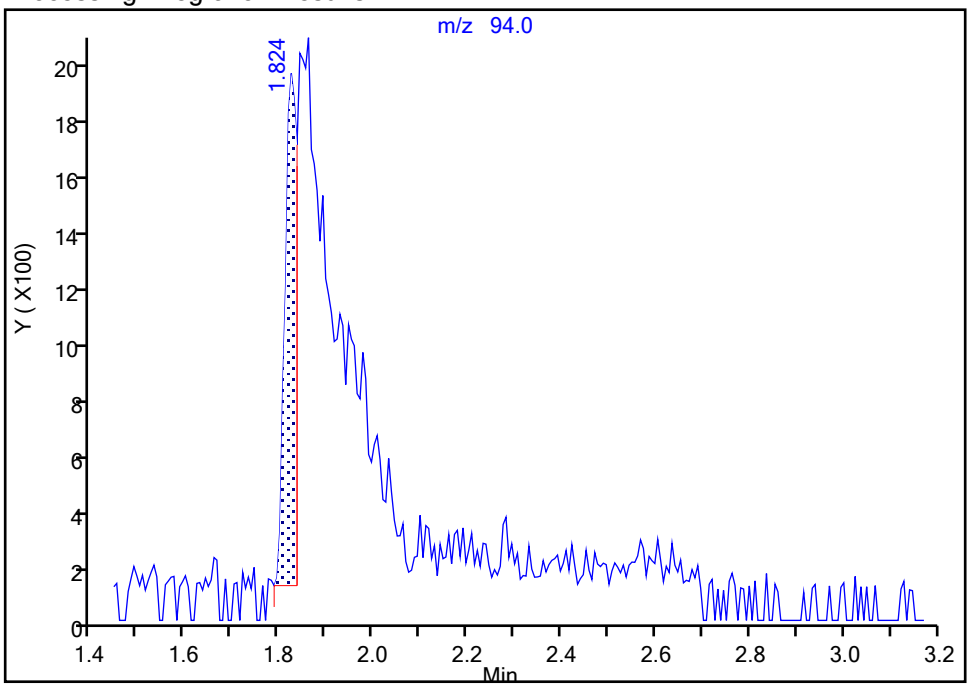
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D				
Injection Date:	02-Oct-2020 02:09:30	Instrument ID:	Calvin		
Lims ID:	std6				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	39	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

13 Bromomethane, CAS: 74-83-9

Signal: 1

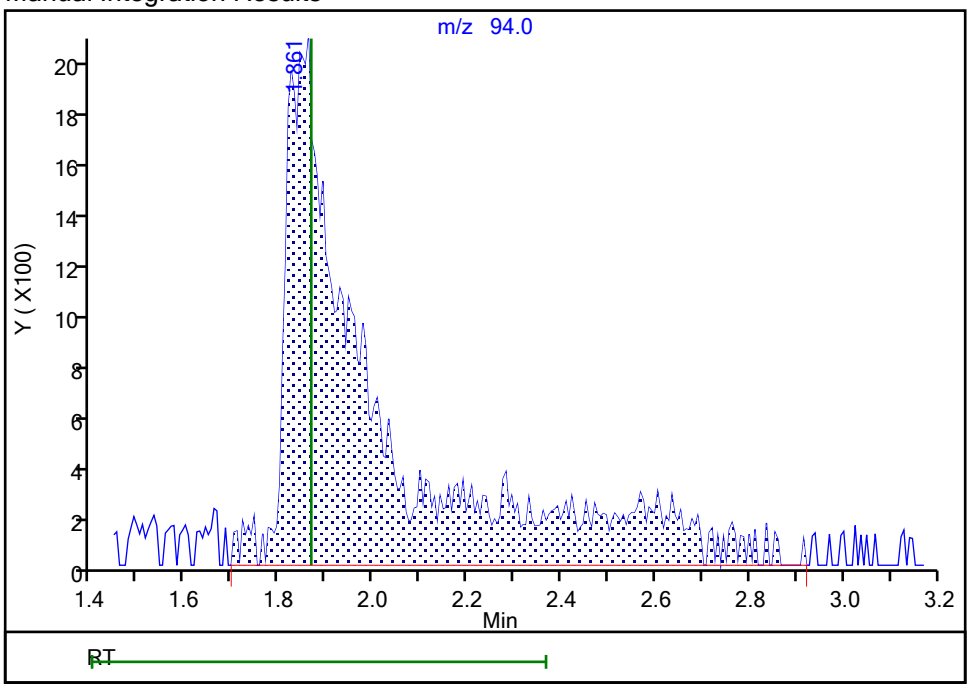
Processing Integration Results

RT: 1.82
Area: 3230
Amount: 2.064162
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 26455
Amount: 20.273831
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:59:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

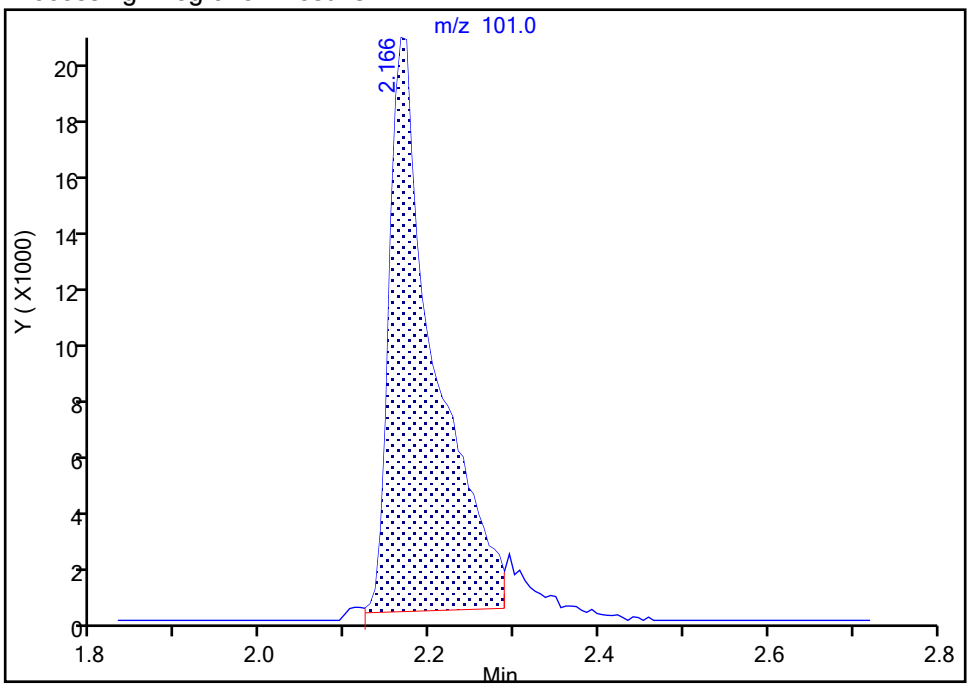
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D				
Injection Date:	02-Oct-2020 02:09:30	Instrument ID:	Calvin		
Lims ID:	std6				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	39	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

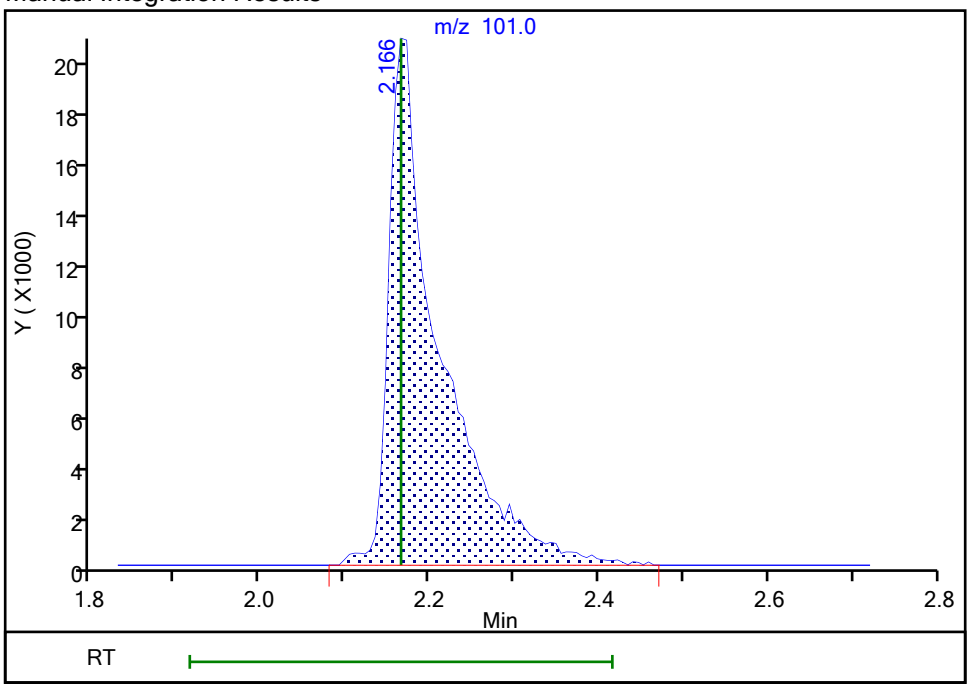
Processing Integration Results

RT: 2.17
Area: 76508
Amount: 18.385917
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 87110
Amount: 20.577634
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:59:58

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 02-Oct-2020 02:33:30 ALS Bottle#: 40 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:34 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:01:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	196877	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	97	7546	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	156671	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	75448	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	45534	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	193082	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	90	61976	50.0	50.6	
9 Dichlorodifluoromethane	85	1.288	1.282	0.006	99	144618	50.0	44.3	
11 Vinyl chloride	62	1.538	1.532	0.006	98	159813	50.0	47.1	
10 Chloromethane	50	1.532	1.562	-0.030	39	105403	50.0	49.2	M
12 Butadiene	54	1.574	1.568	0.006	92	157001	50.0	45.4	
13 Bromomethane	94	1.867	1.867	0.000	91	67031	50.0	50.9	M
14 Chloroethane	64	1.916	1.910	0.006	99	89757	50.0	45.0	
15 Dichlorofluoromethane	67	2.117	2.111	0.006	97	214983	50.0	47.2	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	205487	50.0	48.1	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

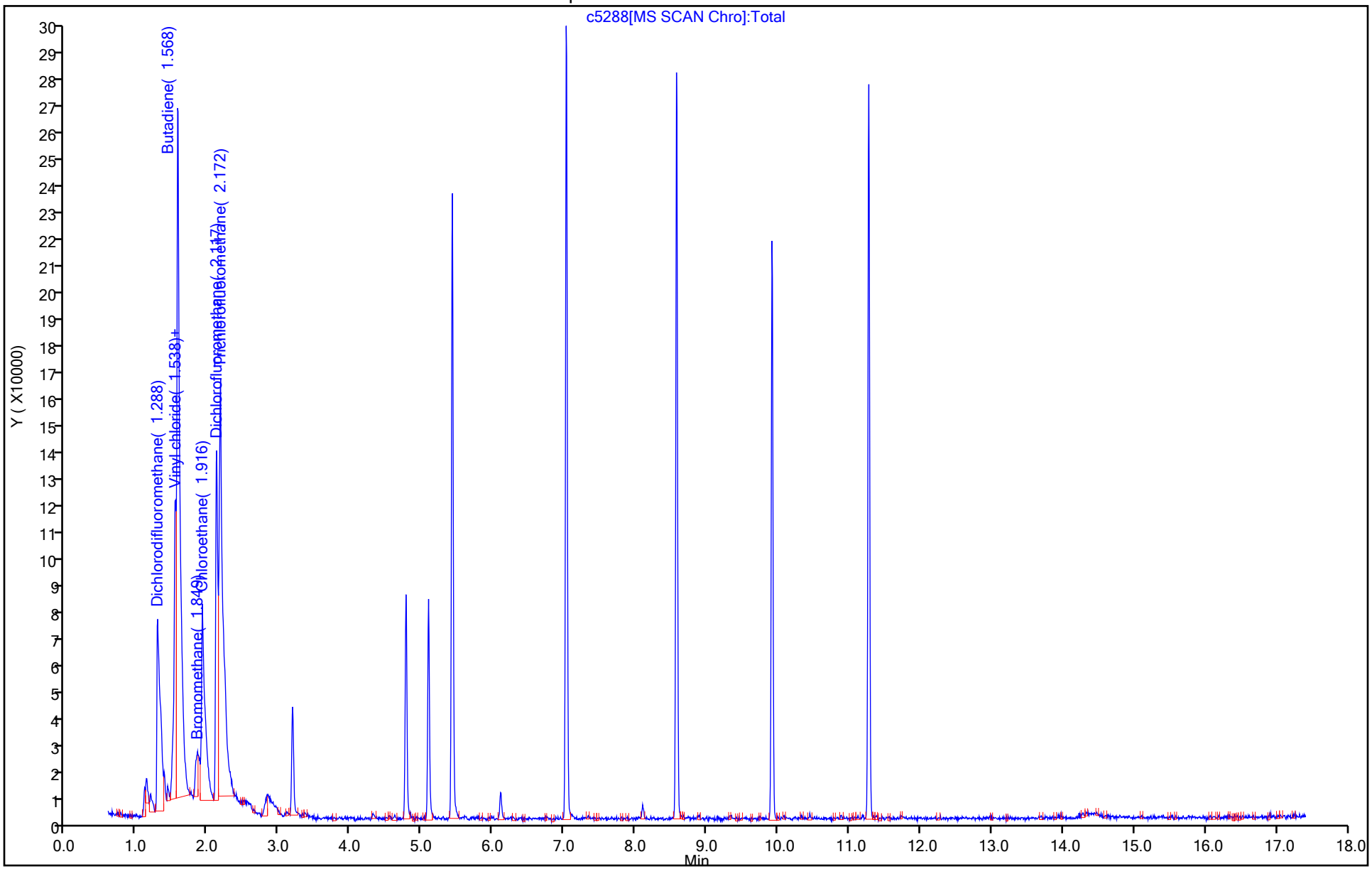
VV_I_GASES_00407 Amount Added: 50.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:35 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D

Injection Date:	02-Oct-2020 02:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std7			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

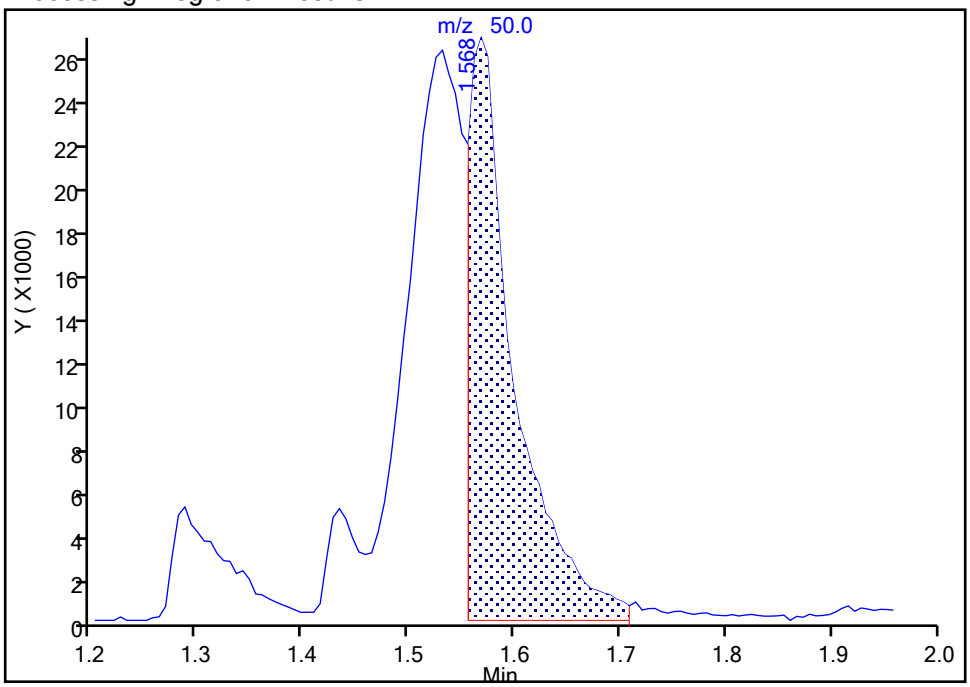
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D
Injection Date: 02-Oct-2020 02:33:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 40 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

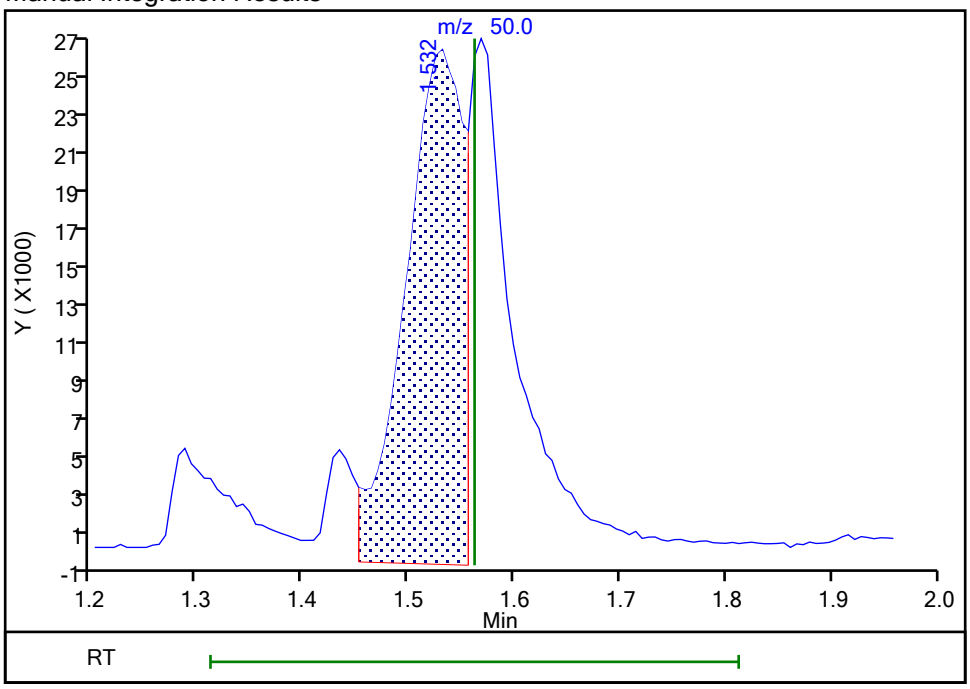
Processing Integration Results

RT: 1.57
Area: 80710
Amount: 36.539524
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 105403
Amount: 49.241638
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:01:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

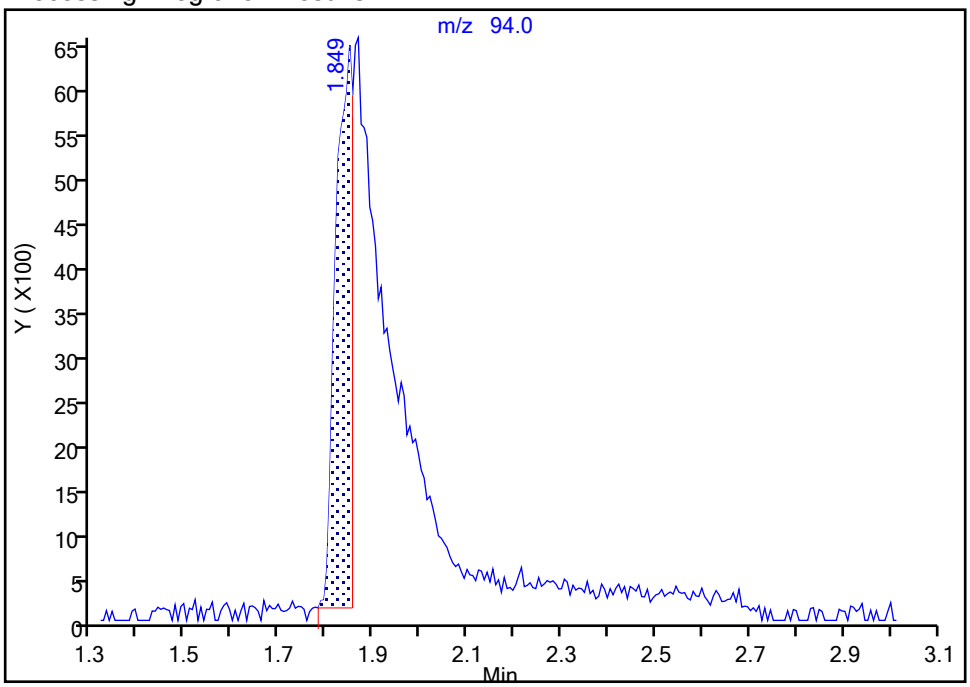
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D
Injection Date: 02-Oct-2020 02:33:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 40 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

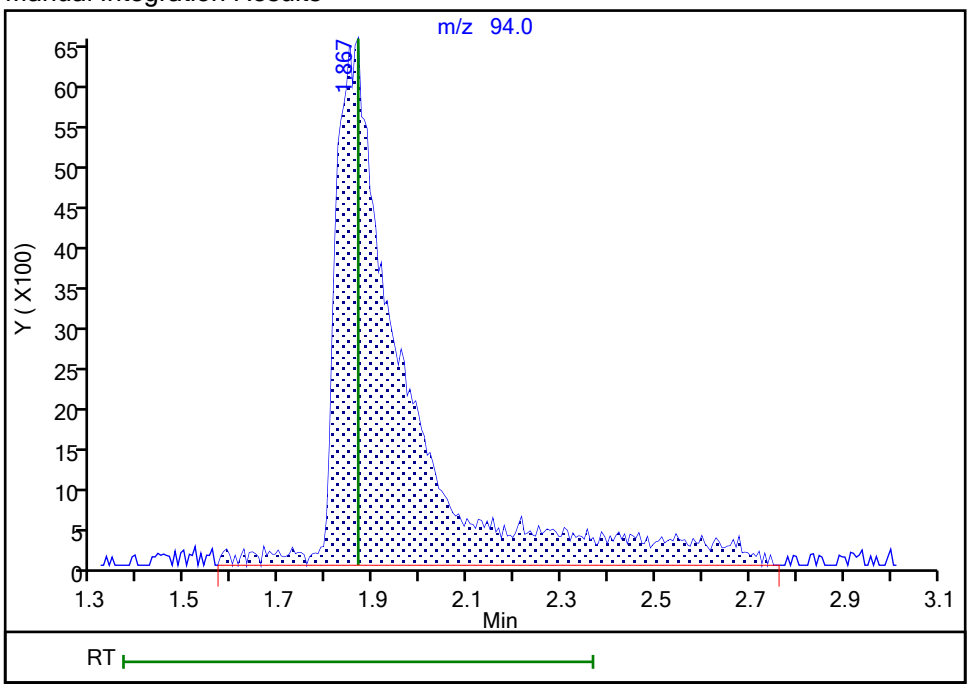
Processing Integration Results

RT: 1.85
Area: 15681
Amount: 9.349017
Amount Units: ug/l



Manual Integration Results

RT: 1.87
Area: 67031
Amount: 50.887913
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:00:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

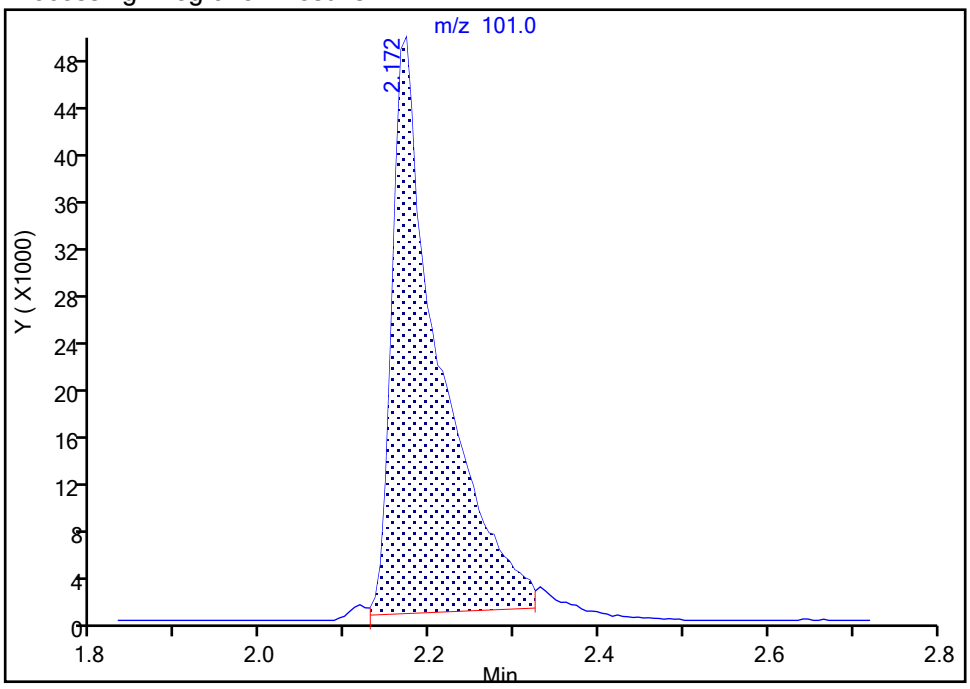
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D				
Injection Date:	02-Oct-2020 02:33:30	Instrument ID:	Calvin		
Lims ID:	std7				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	40	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

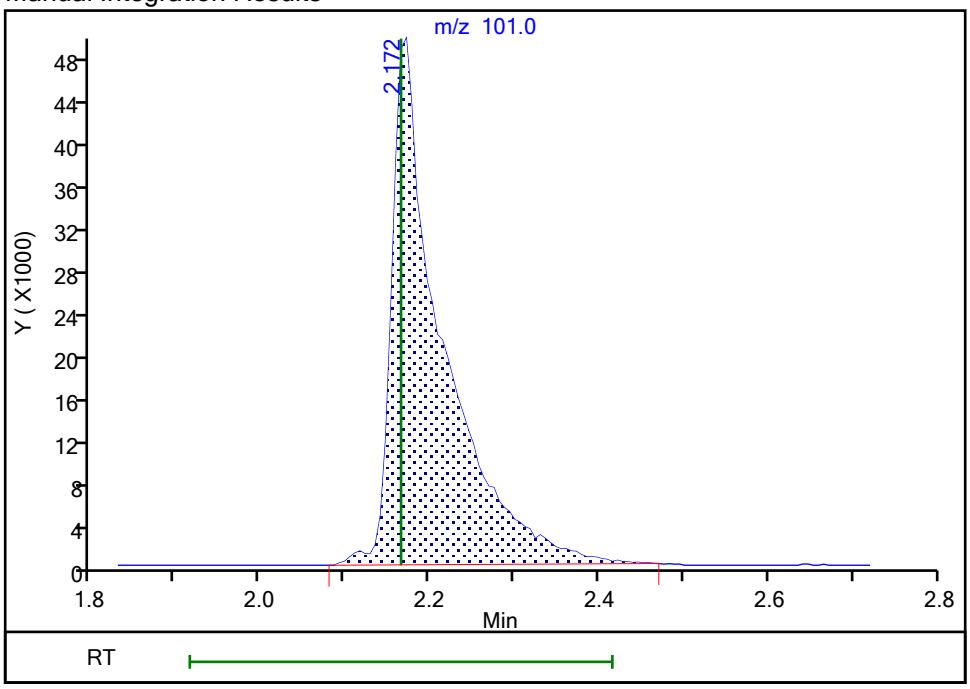
Processing Integration Results

RT: 2.17
Area: 188629
Amount: 44.433619
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 205487
Amount: 48.086446
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:00:12

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5289.D
Lims ID: std8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 02-Oct-2020 02:57:30 ALS Bottle#: 41 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:37 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:54:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	182921	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	97	6499	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	145485	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	69784	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	41873	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	180927	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	93	57085	50.0	50.4	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	317355	100.0	104.7	
11 Vinyl chloride	62	1.532	1.532	0.000	98	332757	100.0	105.6	
10 Chloromethane	50	1.526	1.526	0.000	84	202095	100.0	101.6	
12 Butadiene	54	1.574	1.574	0.000	91	328893	100.0	102.4	
13 Bromomethane	94	1.855	1.855	0.000	91	153056	100.0	125.1	M
14 Chloroethane	64	1.916	1.916	0.000	99	186917	100.0	100.8	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	450077	100.0	106.3	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	98	433276	100.0	109.1	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

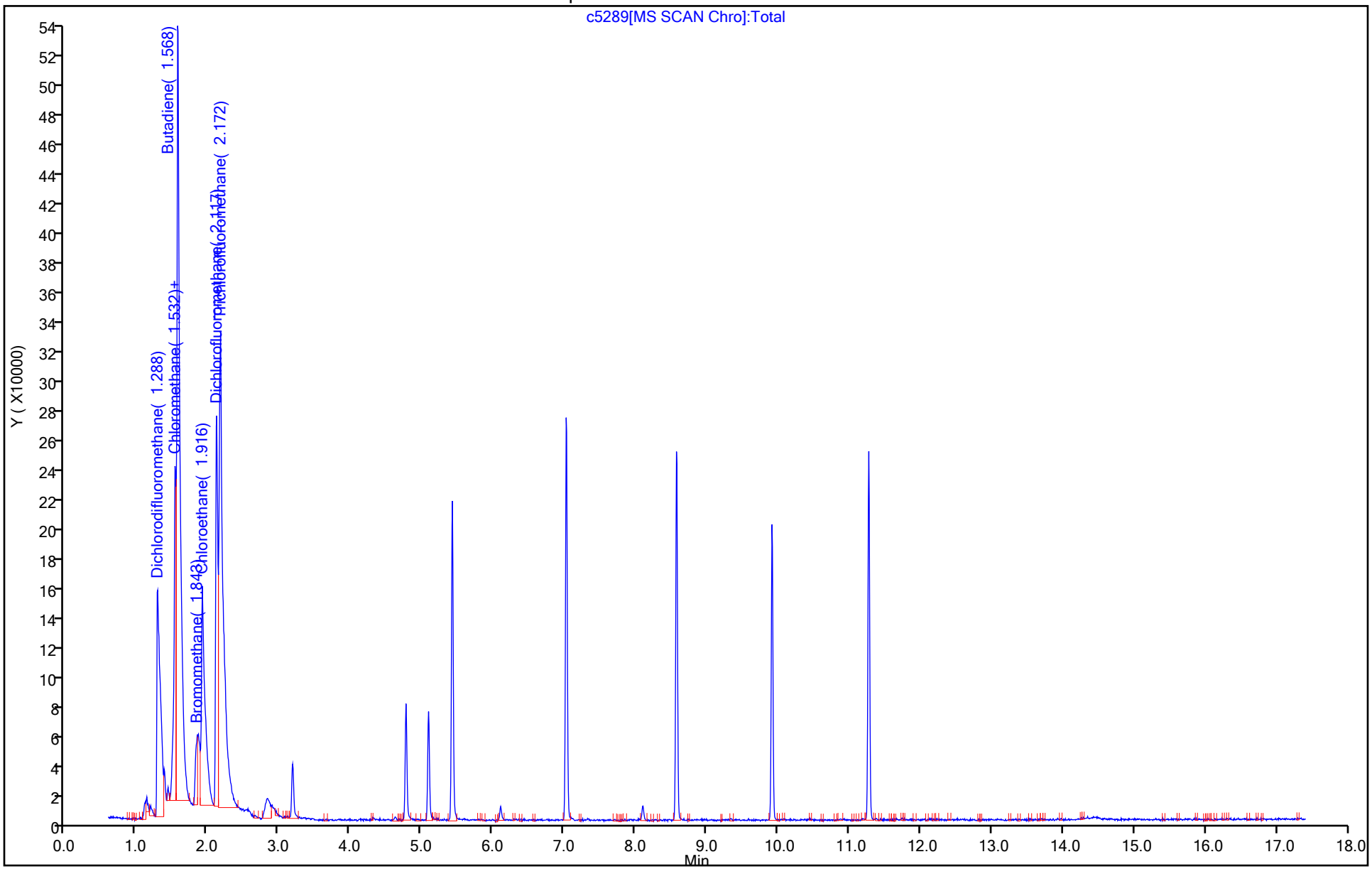
VV_I_GASES_00407 Amount Added: 100.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:38 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5289.D

Injection Date:	02-Oct-2020 02:57:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std8			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

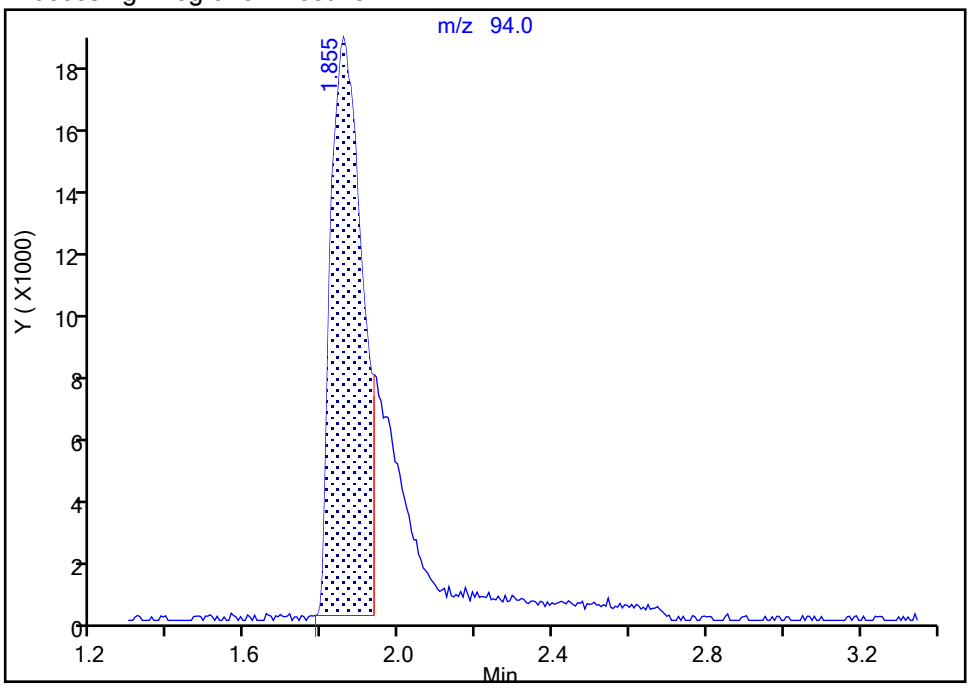
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5289.D				
Injection Date:	02-Oct-2020 02:57:30	Instrument ID:	Calvin		
Lims ID:	std8				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	41	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

13 Bromomethane, CAS: 74-83-9

Signal: 1

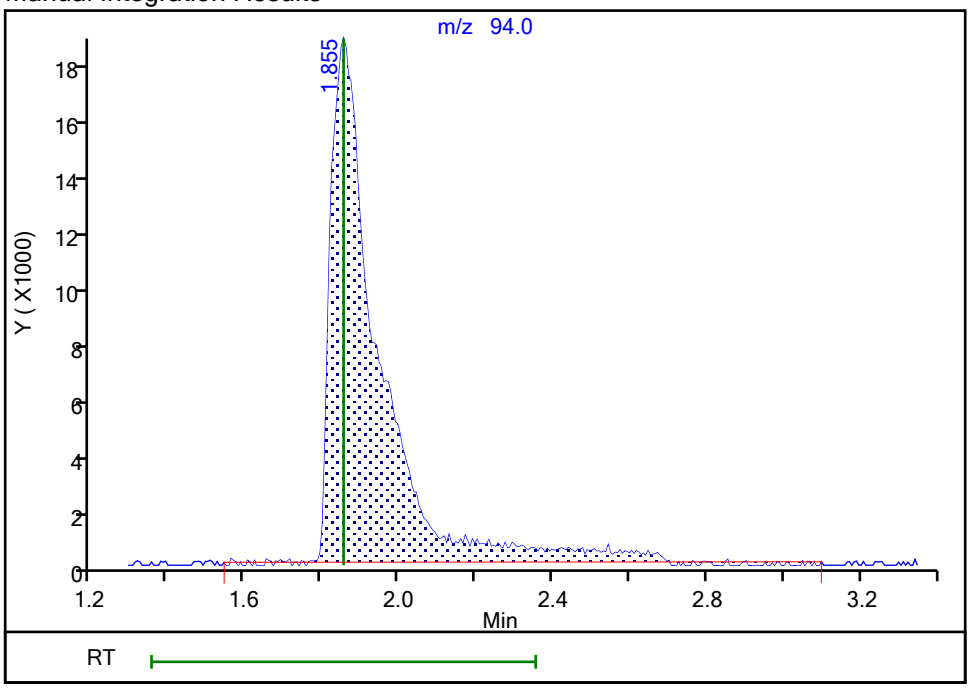
Processing Integration Results

RT: 1.85
Area: 101579
Amount: 70.580748
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 153056
Amount: 125.0607
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:54:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 02-Oct-2020 03:21:30 ALS Bottle#: 42 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:40 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:04:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	182274	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	95	6989	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	144055	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	70555	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	40540	50.0	48.1	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	180073	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	90	56549	50.0	49.4	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	491329	150.0	162.7	
10 Chloromethane	50	1.526	1.526	0.000	99	295058	150.0	148.9	
11 Vinyl chloride	62	1.538	1.532	0.006	98	520365	150.0	165.7	
12 Butadiene	54	1.575	1.574	0.001	92	522618	150.0	163.4	
13 Bromomethane	94	1.849	1.855	-0.006	91	269415	150.0	220.9	M
14 Chloroethane	64	1.916	1.916	0.000	99	292081	150.0	158.0	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	99	697088	150.0	165.2	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	98	674004	150.0	170.4	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

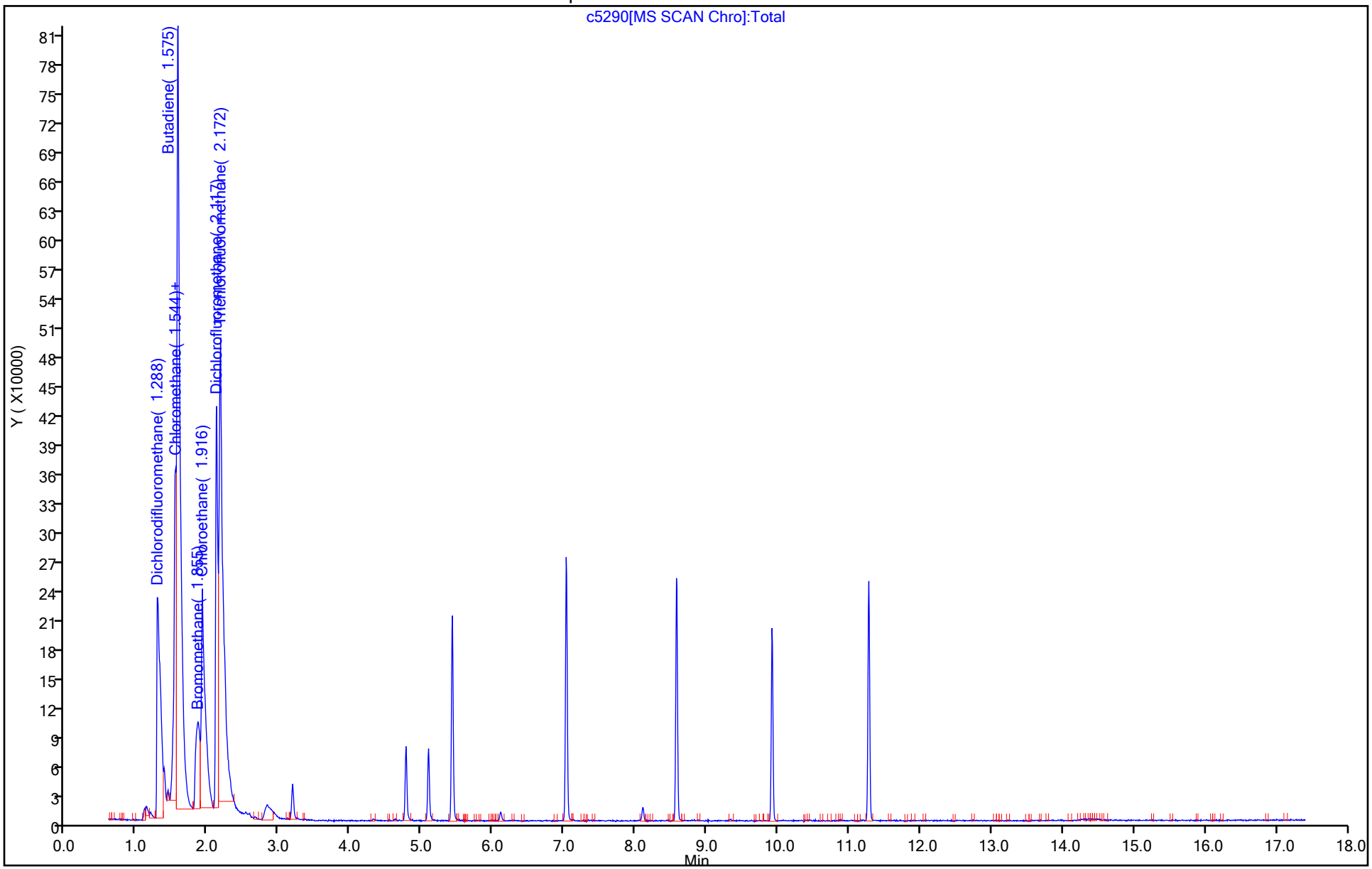
Reagents:

VV_I_GASES_00407 Amount Added: 150.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:41 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D				
Injection Date:	02-Oct-2020 03:21:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std9			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

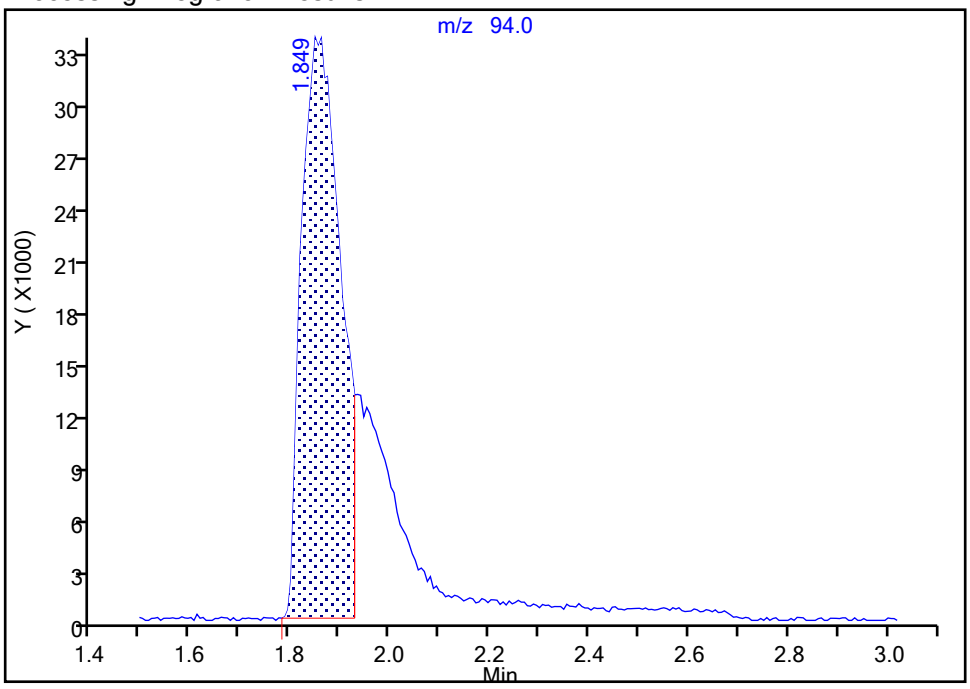
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D
Injection Date: 02-Oct-2020 03:21:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 42 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

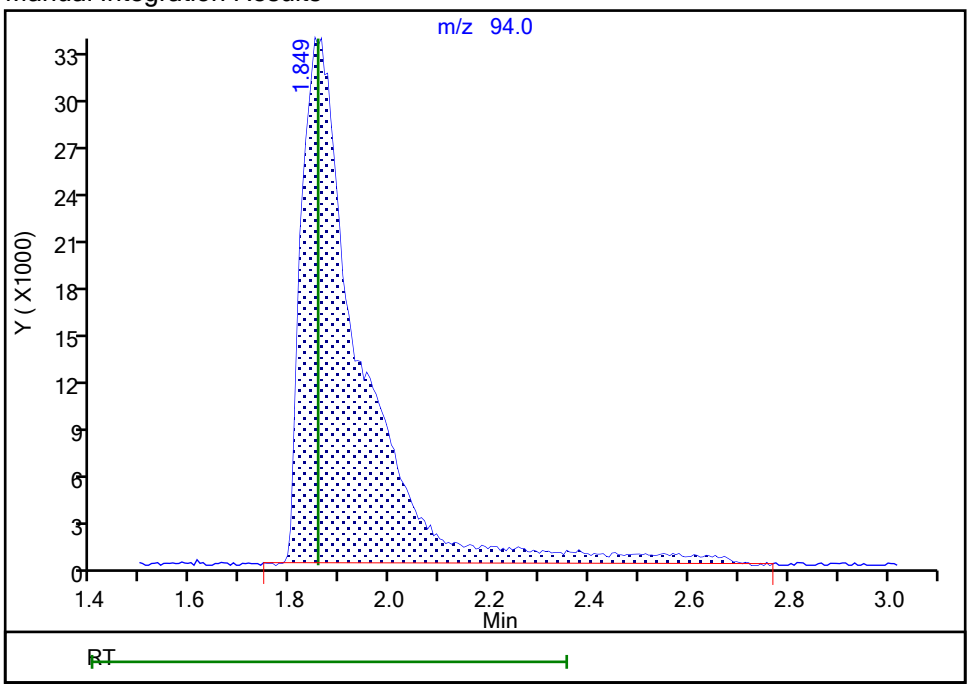
Processing Integration Results

RT: 1.85
Area: 179239
Amount: 109.8201
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 269415
Amount: 220.9179
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:04:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

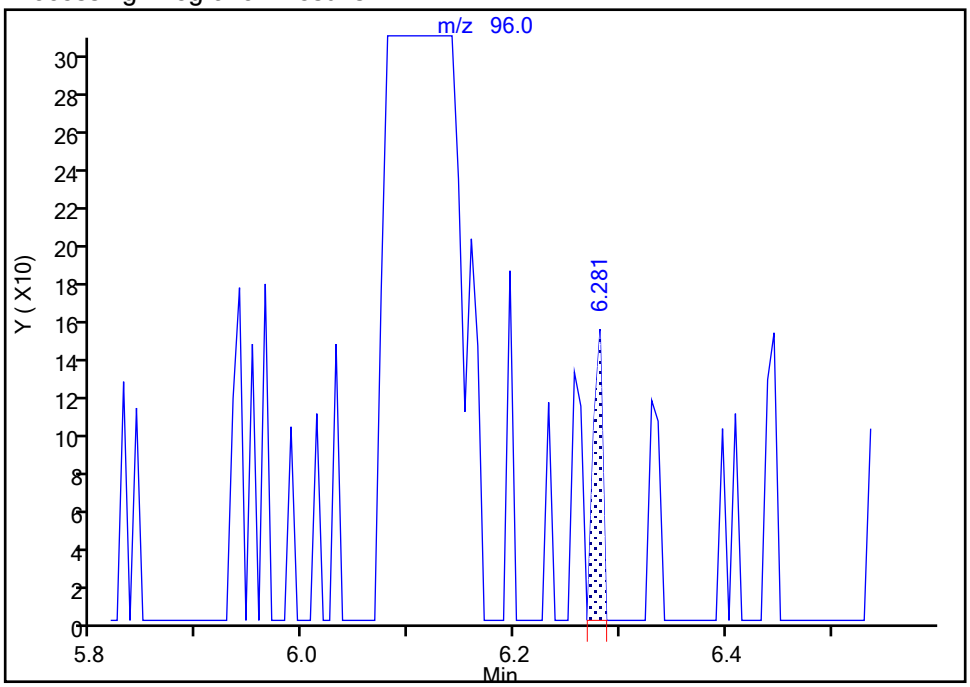
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D
Injection Date: 02-Oct-2020 03:21:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 42 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

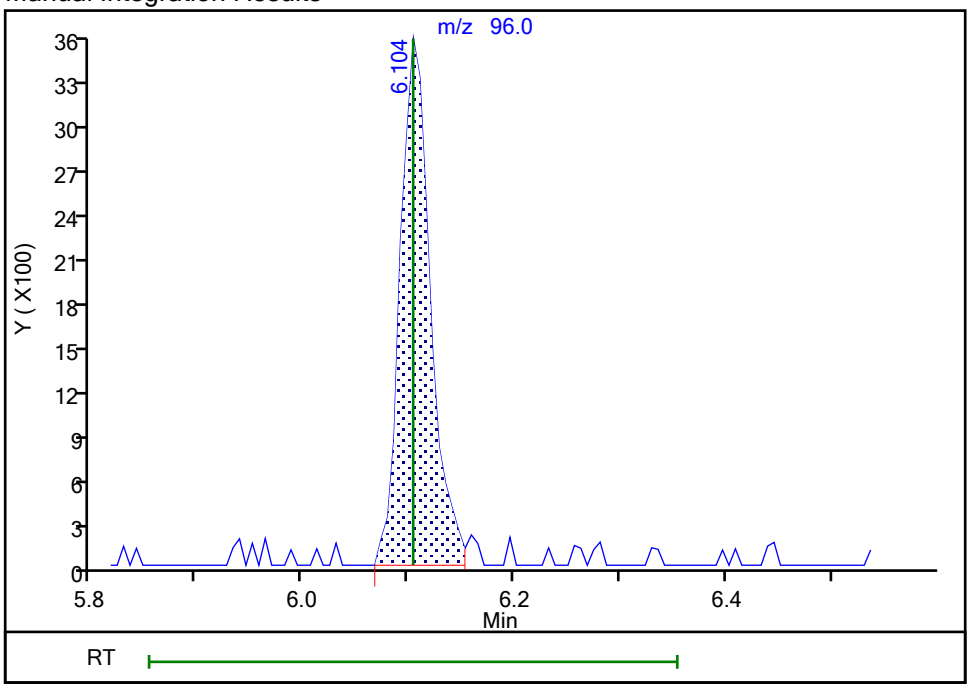
Processing Integration Results

RT: 6.28
Area: 95
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 6989
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:03:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5291.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 02-Oct-2020 03:45:30 ALS Bottle#: 43 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:43 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:04:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	177380	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	98	7003	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	143054	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	68726	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	41392	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	177088	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	91	55184	50.0	49.5	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	578355	200.0	196.8	
10 Chloromethane	50	1.526	1.526	0.000	98	410332	200.0	212.8	
11 Vinyl chloride	62	1.532	1.532	0.000	100	641772	200.0	209.9	
12 Butadiene	54	1.574	1.574	0.000	95	638544	200.0	205.1	
13 Bromomethane	94	1.855	1.855	0.000	92	334973	200.0	282.3	
14 Chloroethane	64	1.916	1.916	0.000	99	368122	200.0	204.7	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	99	880526	200.0	214.5	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	98	826172	200.0	214.6	

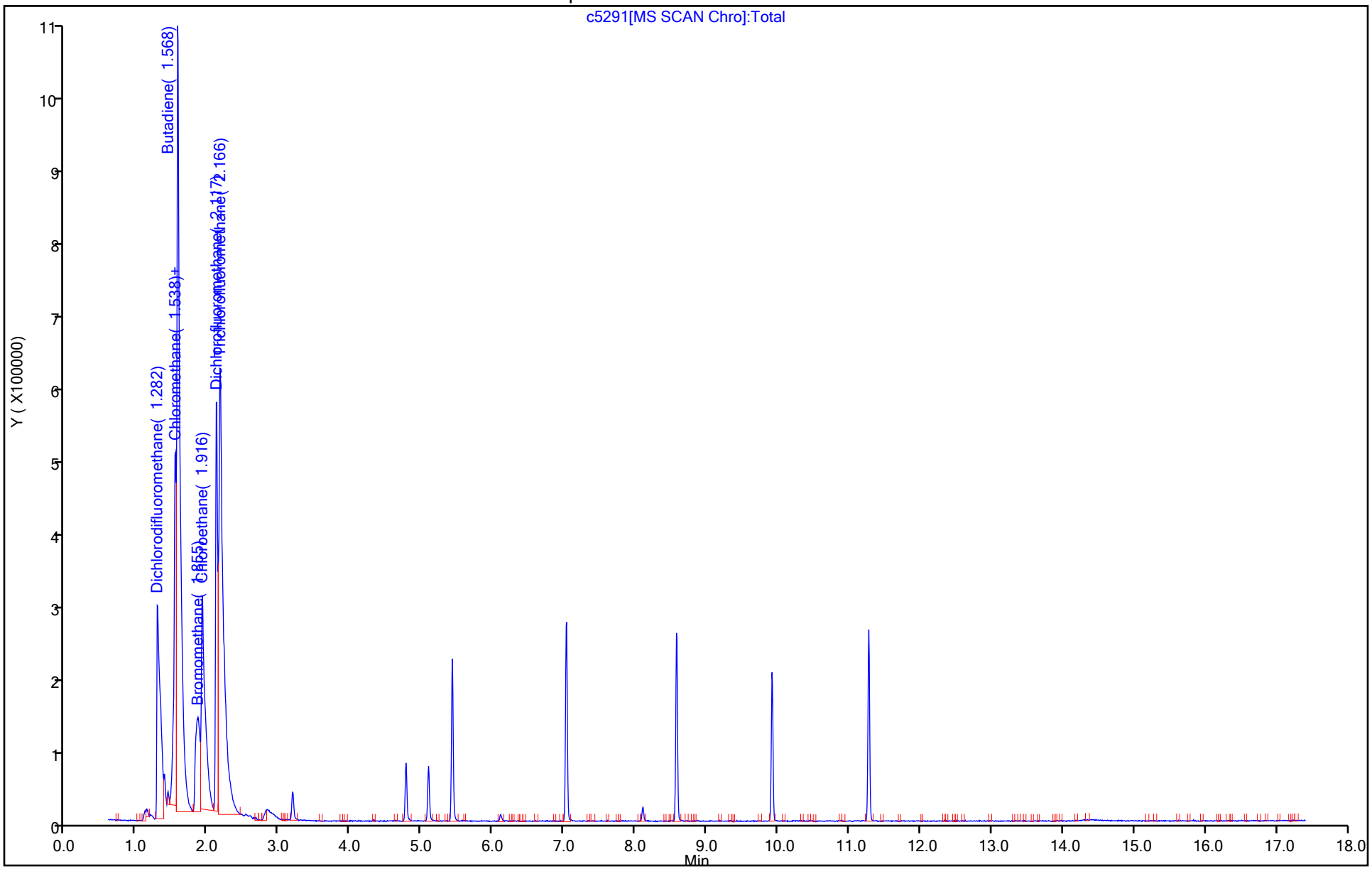
QC Flag Legend
Processing Flags

Reagents:
VV_I_GASES_00407 Amount Added: 200.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:44 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5291.D				
Injection Date:	02-Oct-2020 03:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std10			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5292.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 02-Oct-2020 04:09:30 ALS Bottle#: 44 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:45 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:04:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	178497	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	6977	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	142530	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	68864	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	42045	50.0	51.0	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	175372	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	90	56460	50.0	50.5	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	100	662630	250.0	224.0	
10 Chloromethane	50	1.538	1.526	0.012	73	502228	250.0	258.8	
11 Vinyl chloride	62	1.538	1.532	0.006	99	777837	250.0	252.9	
12 Butadiene	54	1.575	1.574	0.001	93	766157	250.0	244.6	
13 Bromomethane	94	1.855	1.855	0.000	92	422019	250.0	353.4	
14 Chloroethane	64	1.916	1.916	0.000	99	447568	250.0	247.3	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	1072050	250.0	259.5	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	97	992942	250.0	256.3	

QC Flag Legend
Processing Flags

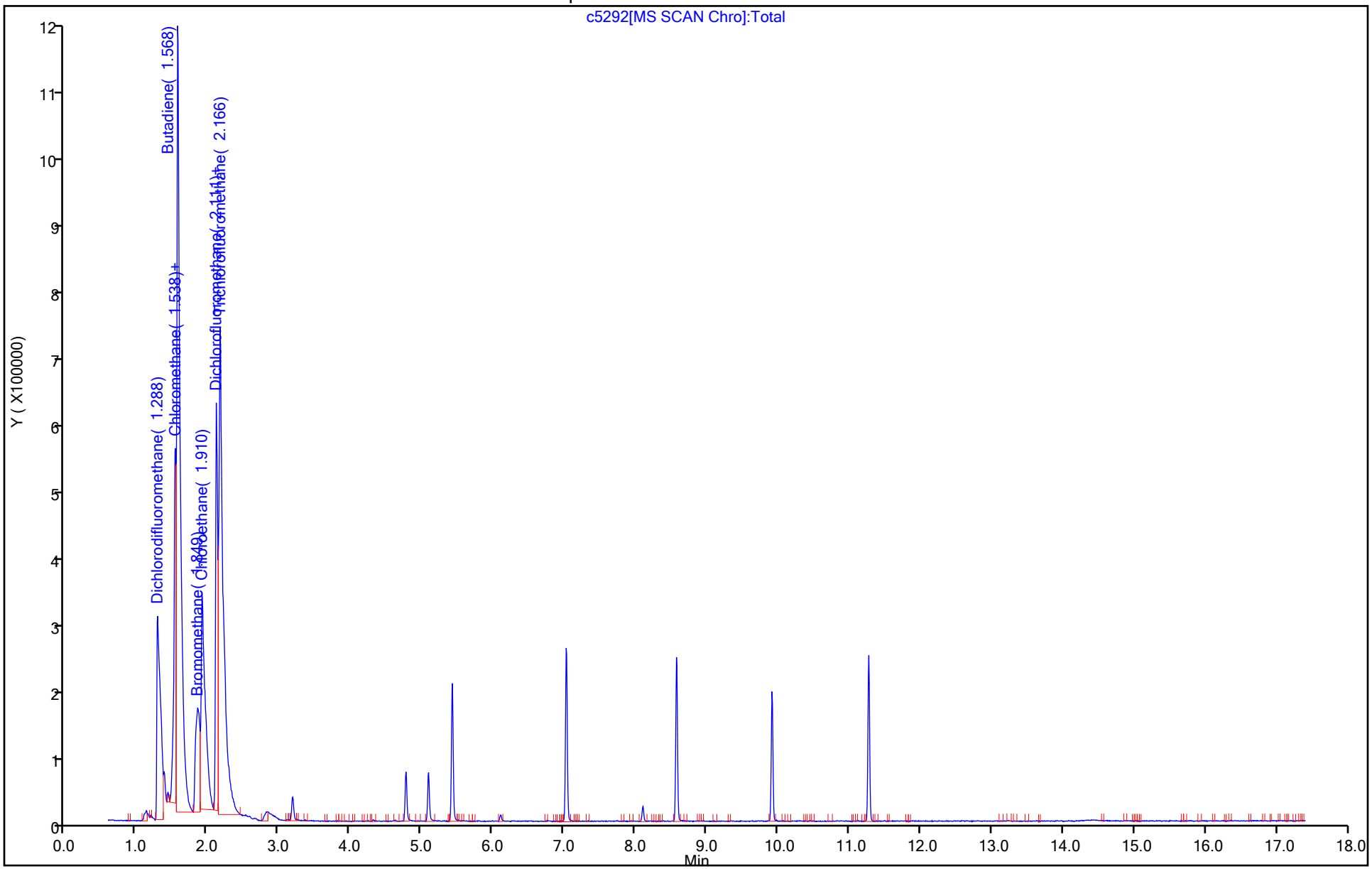
Reagents:
VV_I_GASES_00407 Amount Added: 250.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5292.D

Injection Date:	02-Oct-2020 04:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std11			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 02-Oct-2020 04:33:30 ALS Bottle#: 45 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:48 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:07:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	190564	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	7295	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	153118	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	73732	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	44194	50.0	50.2	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	190020	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	89	59760	50.0	49.9	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	100	1513261	500.0	479.2	
10 Chloromethane	50	1.532	1.526	0.006	74	1089527	500.0	525.9	
11 Vinyl chloride	62	1.538	1.532	0.006	99	1639192	500.0	499.1	
12 Butadiene	54	1.574	1.574	0.000	93	1641946	500.0	490.9	
13 Bromomethane	94	1.843	1.855	-0.012	93	915731	500.0	718.2	
14 Chloroethane	64	1.910	1.916	-0.006	99	935034	500.0	483.9	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	2251396	500.0	510.5	
16 Trichlorofluoromethane	101	2.166	2.172	-0.006	99	2173501	500.0	525.5	

QC Flag Legend
Processing Flags

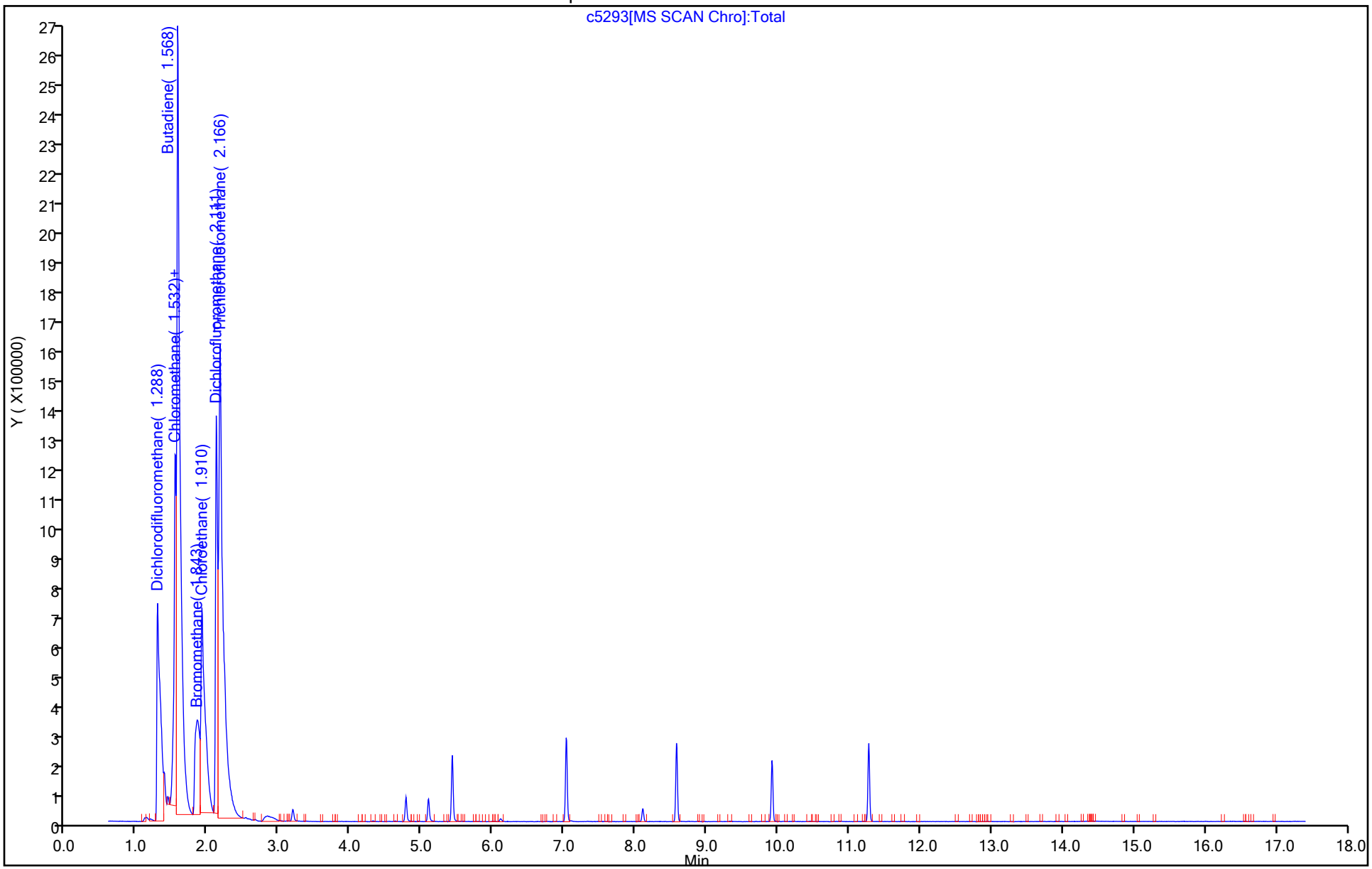
Reagents:
VV_I_GASES_00407 Amount Added: 500.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Injection Date:	02-Oct-2020 04:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std12			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/3	c5865.D
Level 2	STD2 310-295162/4	c5866.D
Level 3	STD3 310-295162/5	c5867.D
Level 4	STD4 310-295162/6	c5868.D
Level 5	STD5 310-295162/7	c5869.D
Level 6	STD6 310-295162/8	c5870.D
Level 7	STD7 310-295162/9	c5871.D
Level 8	ICIS 310-295162/10	c5872.D
Level 9	STD9 310-295162/11	c5873.D
Level 10	STD10 310-295162/12	c5874.D
Level 11	STD11 310-295162/13	c5875.D
Level 12	STD12 310-295162/14	c5876.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Ethanol	+++++ 0.0047 0.0043	+++++ 0.0042 0.0042	+++++ 0.0043	+++++ 0.0042	+++++ 0.0046	Ave		0.0043				5.0		20.0			
Diethyl ether	0.3240 0.3752 0.4538	0.3938 0.4125 0.4426	0.4164 0.4337	0.4502 0.4306	0.4814 0.4579	Ave		0.4227				10.1		20.0			
Acrolein	+++++ 0.0568 0.0660	0.0650 0.0609 0.0654	0.0599 0.0631	0.0649 0.0628	0.0760 0.0667	Ave		0.0643				7.6		20.0			
1,1-Dichloroethene	+++++ 0.4574 0.5474	0.4705 0.5091 0.5224	0.5529 0.5387	0.4598 0.5155	0.5223 0.5615	Ave		0.5143			0.1000	7.2		20.0			
1,1,2-Trichlorotrifluoroethane	+++++ 0.4548 0.5723	0.3770 0.5036 0.5748	0.5062 0.5338	0.4023 0.5251	0.5858 0.5797	Ave		0.5105			0.1000	14.1		20.0			
Acetone	+++++ 0.1109 0.1331	+++++ 0.1147 0.1294	+++++ 0.1157	0.1826 0.1242	0.1857 0.1290	Lin1	0.4297	0.1266			0.0500	15.7			0.9960		0.9900
Iodomethane	+++++ 0.4020 0.4567	+++++ 0.4937 +++++	+++++ 0.5643	+++++ 0.5101	0.3663 0.5003	Ave		0.4705				14.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Carbon disulfide	1.5067 1.3204 1.6256	1.5547 1.4924 1.5776	1.5234 1.5919	1.3336 1.5327	1.5440 1.6693	Ave		1.5227			0.1000	6.8		20.0			
Isopropyl alcohol	+++++ 0.0241 0.0228	0.0178 0.0216 0.0226	0.0247 0.0229	0.0252 0.0220	0.0315 0.0240	Ave		0.0236				14.1		20.0			
Acetonitrile	+++++ 0.0414 0.0451	0.0622 0.0429 0.0437	0.0552 0.0434	0.0513 0.0443	0.0559 0.0458	Ave		0.0483				14.1		20.0			
Allyl chloride	+++++ 0.3035 0.3742	0.2639 0.3112 0.3475	0.3058 0.3719	0.3406 0.3590	0.3035 0.3745	Ave		0.3323				11.1		20.0			
Methyl acetate	0.4196 0.2841 0.3463	0.4124 0.3170 0.3442	0.3654 0.3297	0.3735 0.3296	0.3678 0.3477	Ave		0.3531			0.1000	10.8		20.0			
Methylene Chloride	0.6284 0.5222 0.6001	0.7180 0.5622 0.5792	0.6530 0.5865	0.6152 0.5747	0.6532 0.6140	Ave		0.6089			0.1000	8.4		20.0			
tert-Butanol	+++++ 0.0330 0.0314	0.0287 0.0303 0.0314	0.0349 0.0318	0.0382 0.0306	0.0432 0.0334	Ave		0.0333				12.4		20.0			
Acrylonitrile	0.1400 0.1645 0.1892	0.1653 0.1793 0.1876	0.1774 0.1848	0.1925 0.1800	0.2147 0.1915	Ave		0.1806				10.2		20.0			
trans-1,2-Dichloroethene	0.4341 0.5323 0.6419	0.5646 0.5988 0.6223	0.5745 0.6336	0.5253 0.6176	0.6401 0.6554	Ave		0.5867			0.1000	11.0		20.0			
Methyl tert-butyl ether	1.0248 1.1878 1.4896	1.2916 1.3433 1.4957	1.3061 1.4052	1.3924 1.3917	1.5125 1.4898	Ave		1.3609			0.1000	10.6		20.0			
Hexane	0.6066 0.7806 0.8732	0.6674 0.8211 0.8435	0.8490 0.8708	0.6664 0.7972	0.8796 0.8913	Ave		0.7956				12.1		20.0			
1,1-Dichloroethane	0.7921 1.0141 1.1951	1.0422 1.1047 1.1675	1.0728 1.1802	1.1112 1.1354	1.1644 1.2254	Ave		1.1004			0.2000	10.5		20.0			
Vinyl acetate	+++++ 0.0953 0.1235	0.0947 0.1077 0.1214	0.0761 0.1190	0.1010 0.1158	0.1201 0.1241	Ave		0.1090				14.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chloroprene	+++++ 0.9698 1.2003	0.8501 1.0492 1.2231	0.9927 1.1386	0.8739 1.1010	1.0973 1.2085	Ave		1.0640				12.2		20.0			
Di-isopropyl ether (DIPE)	0.4341 0.4906 0.5710	0.4582 0.5441 0.5610	0.5086 0.5558	0.5568 0.5503	0.6295 0.5695	Ave		0.5358				10.1		20.0			
tert-Butyl ethyl ether	1.2270 1.5611 1.8994	1.6131 1.6920 1.8947	1.6290 1.7971	1.7245 1.7767	1.9340 1.8949	Ave		1.7203				11.6		20.0			
2,2-Dichloropropane	+++++ 0.7542 0.9747	+++++ 0.8539 1.0038	0.6891 0.9216	0.7277 0.9010	0.8792 0.9758	Ave		0.8681				12.8		20.0			
cis-1,2-Dichloroethene	0.4863 0.6350 0.7068	0.6651 0.6805 0.6879	0.6330 0.7137	0.6813 0.6883	0.7482 0.7299	Ave		0.6713			0.1000	10.1		20.0			
2-Butanone (MEK)	+++++ 0.1930 0.2024	0.2174 0.1846 0.1971	0.2190 0.1961	0.2339 0.1941	0.2587 0.2077	Ave		0.2094			0.0500	10.3		20.0			
Propionitrile	+++++ 0.0675 0.0699	0.0647 0.0676 0.0698	0.0710 0.0692	0.0781 0.0677	0.0921 0.0722	Ave		0.0718				10.5		20.0			
Ethyl acetate	+++++ 0.0732 0.0903	0.0642 0.0740 0.0953	0.0809 0.0854	0.0873 0.0794	0.0887 0.0856	Ave		0.0822				10.9		20.0			
Methacrylonitrile	+++++ 0.1938 0.2169	0.1946 0.2066 0.2160	0.2003 0.2114	0.2222 0.2056	0.2569 0.2190	Ave		0.2130				8.2		20.0			
Bromochloromethane	+++++ 0.2690 0.2597	0.2829 0.2920 0.2528	0.2688 0.2865	0.3109 0.2637	0.3282 0.2710	Ave		0.2805				8.1		20.0			
Tetrahydrofuran	+++++ 0.0440 0.0499	+++++ 0.0482 0.0512	0.0470 0.0483	0.0492 0.0489	0.0606 0.0510	Ave		0.0498				8.7		20.0			
Chloroform	+++++ 0.9705 1.1343	1.3533 1.0570 1.1180	1.3263 1.1197	1.1470 1.0731	1.2023 1.1577	Ave		1.1508			0.2000	9.7		20.0			
1,1,1-Trichloroethane	+++++ 0.8544 1.0588	0.7414 0.9345 1.0713	0.8683 1.0173	0.7779 0.9789	1.0055 1.0679	Ave		0.9433			0.1000	12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Cyclohexane	+++++ 1.0432 1.2306	0.9026 1.1407 1.2461	1.1195 1.1870	0.9090 1.1320	1.2141 1.2499	Ave		1.1250			0.1000	11.1		20.0			
Carbon tetrachloride	+++++ 0.7074 0.9092	+++++ 0.8015 0.9512	0.7099 0.8663	0.6204 0.8435	0.8270 0.9256	Ave		0.8162			0.1000	13.2		20.0			
1,1-Dichloropropene	+++++ 0.8273 0.9415	0.7511 0.8781 0.9408	0.8749 0.9193	0.7765 0.8943	0.9494 0.9608	Ave		0.8831				8.1		20.0			
Isobutyl alcohol	+++++ 0.0174 0.0172	0.0156 0.0164 0.0173	0.0194 0.0171	0.0184 0.0167	0.0227 0.0179	Ave		0.0178				10.7		20.0			
Benzene	1.9974 2.4460 2.7331	2.4238 2.5914 2.6964	2.5669 2.7266	2.5341 2.6110	2.8722 2.8048	Ave		2.5836			0.5000	8.9		20.0			
1,2-Dichloroethane	0.5899 0.7239 0.8689	0.8602 0.7850 0.8756	0.8291 0.8259	0.8284 0.8044	0.9500 0.8704	Ave		0.8176			0.1000	11.1		20.0			
n-Butanol	0.0192 0.0246 0.0269	0.0210 0.0260 0.0267	0.0277 0.0275	0.0202 0.0252	0.0288 0.0275	Ave		0.0251				12.8		20.0			
tert-Amyl methyl ether	+++++ 1.3873 1.6224	1.3530 1.4936 1.6529	1.4185 1.5690	1.6041 1.5389	1.7792 1.6386	Ave		1.5507				8.3		20.0			
Heptane	0.7863 0.7843 0.8441	0.7191 0.8109 0.8263	0.8470 0.8434	0.6441 0.7902	0.8755 0.8664	Ave		0.8031				8.2		20.0			
Trichloroethene	0.4863 0.6196 0.7161	0.6015 0.6683 0.7102	0.6832 0.6934	0.6183 0.6657	0.7415 0.7212	Ave		0.6604			0.2000	10.7		20.0			
Ethyl acrylate	0.4508 0.5660 0.6729	0.5457 0.6066 0.6890	0.5643 0.6367	0.6669 0.6368	0.7794 0.6753	Ave		0.6242				13.6		20.0			
Methylcyclohexane	0.8936 1.0561 1.1592	1.0076 1.1150 1.1525	1.0875 1.1733	0.8616 1.0831	1.2358 1.1885	Ave		1.0845			0.1000	10.6		20.0			
1,2-Dichloropropane	0.4566 0.5890 0.6721	0.6421 0.6222 0.6700	0.5822 0.6567	0.6430 0.6364	0.7126 0.6887	Ave		0.6310			0.1000	10.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dibromomethane	+++++ 0.3068 0.3290	0.3205 0.3283 0.3066	0.3327 0.3449	0.3441 0.3308	0.3995 0.3446	Ave		0.3352				7.5		20.0			
Methyl methacrylate	+++++ 0.3293 0.3738	0.2993 0.3444 0.3745	0.3231 0.3590	0.3686 0.3566	0.4448 0.3764	Ave		0.3591				10.5		20.0			
Dichlorobromomethane	0.5791 0.6504 0.8585	0.7172 0.7498 0.8632	0.6806 0.8110	0.7375 0.7948	0.8402 0.8612	Ave		0.7620			0.2000	12.1		20.0			
2-Nitropropane	+++++ 0.0944 +++++	+++++ 0.1117 +++++	+++++ 0.1325	0.0946 +++++	0.1203 +++++	Ave		0.1107				14.9		20.0			
2-Chloroethyl vinyl ether	+++++ 0.3058 0.3785	0.2792 0.3454 0.3788	0.2928 0.3613	0.3620 0.3592	0.4076 0.3797	Ave		0.3500				11.6		20.0			
cis-1,3-Dichloropropene	0.5834 0.8328 1.0647	0.6852 0.9613 1.0618	0.7189 1.0196	0.8743 1.0025	1.0588 1.0851	Ave		0.9124			0.2000	18.8		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4501 0.4859	0.4076 0.4530 0.4895	0.4439 0.4630	0.5160 0.4613	0.6428 0.4913	Ave		0.4822			0.1000	12.6		20.0			
Toluene	1.4219 1.6147 1.8147	1.6801 1.7424 1.7919	1.7692 1.8298	1.7667 1.7527	2.0520 1.8490	Ave		1.7571			0.4000	8.5		20.0			
trans-1,3-Dichloropropene	0.4718 0.7336 +++++	0.5754 0.8482 +++++	0.6262 0.9141	0.7433 0.9049	0.9685 +++++	Lin1	-0.324	0.8940			0.1000	13.6			0.9970		0.9900
Ethyl methacrylate	+++++ 0.6053 0.7210	0.6149 0.6564 0.7237	0.5822 0.6923	0.6811 0.6787	0.8629 0.7312	Ave		0.6863				11.2		20.0			
1,1,2-Trichloroethane	0.2667 0.3932 0.4409	0.3596 0.4158 0.4363	0.3894 0.4382	0.4750 0.4223	0.5451 0.4520	Ave		0.4195			0.1000	16.0		20.0			
Tetrachloroethene	0.5827 0.7101 0.7327	0.6886 0.7493 0.7153	0.7438 0.7745	0.6878 0.7221	0.8123 0.7648	Ave		0.7237			0.2000	7.9		20.0			
1,3-Dichloropropane	0.6356 0.8084 0.9246	0.8658 0.8898 0.9097	0.8989 0.9169	0.9838 0.8952	1.1173 0.9429	Ave		0.8991				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Hexanone	+++++ 0.3043 0.3192	0.2468 0.2968 0.3220	0.2926 0.3065	0.3305 0.3047	0.4199 0.3225	Ave		0.3151			0.1000	13.1		20.0			
Chlorodibromomethane	+++++ 0.4851 0.6248	0.4407 0.5540 0.6173	0.4422 0.6055	0.5176 0.5934	0.6432 0.6348	Ave		0.5599			0.1000	13.7		20.0			
n-Butyl acetate	+++++ 0.7709 0.8256	+++++ 0.7762 0.8322	0.7228 0.8004	0.8495 0.7866	1.0631 0.8302	Ave		0.8257				11.1		20.0			
1,2-Dibromoethane (EDB)	+++++ 0.4763 0.5320	0.4236 0.5110 0.5234	0.4326 0.5367	0.5462 0.5214	0.6393 0.5471	Ave		0.5172			0.1000	11.4		20.0			
Chlorobenzene	1.8416 2.2674 2.5134	2.8062 2.4475 2.4336	2.3968 2.5144	2.7329 2.3786	3.1981 2.5540	Ave		2.5070			0.5000	12.9		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.7110 0.8700	0.5823 0.8065 0.8468	0.6832 0.8499	0.8258 0.8225	1.0415 0.8780	Ave		0.8107				14.7		20.0			
Ethylbenzene	3.3847 4.0974 4.6231	3.9830 4.4029 4.4927	4.3031 4.5632	4.3835 4.3782	5.3564 4.6924	Ave		4.3884			0.1000	10.6		20.0			
m,p-Xylene	1.3900 1.5841 1.7787	1.5510 1.7011 1.7263	1.6493 1.7746	1.7175 1.6870	2.1439 1.7972	Ave		1.7084			0.1000	10.5		20.0			
o-Xylene	1.0820 1.4987 1.6951	1.6202 1.6279 1.6570	1.5860 1.6689	1.7076 1.5884	2.0596 1.7212	Ave		1.6261			0.3000	13.5		20.0			
Styrene	1.8939 2.5054 2.8997	2.3458 2.7029 2.8226	2.3390 2.8147	2.8585 2.7044	3.5090 2.9251	Ave		2.6934			0.3000	14.8		20.0			
Bromoform	+++++ 0.3400 0.4868	+++++ 0.3946 0.4967	+++++ 0.4521	0.3321 0.4470	0.4878 0.4904	Ave		0.4364			0.1000	14.9		20.0			
Isopropylbenzene	3.1489 3.9775 4.4905	3.7400 4.2824 4.3652	4.0299 4.4711	4.1844 4.2378	5.2405 4.5876	Ave		4.2297			0.1000	12.0		20.0			
Bromobenzene	+++++ 0.8956 1.0001	1.0606 0.9926 0.9682	0.9330 1.0158	1.1146 0.9608	1.3226 1.0227	Ave		1.0260				11.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1,2,2-Tetrachloroethane	0.4621 0.7568 0.8000	0.7271 0.7514 0.7861	0.7270 0.7778	0.8778 0.7617	1.1011 0.8124	Lin1	-0.037	0.7905			0.2000	16.9			0.9980		0.9900
1,2,3-Trichloropropane	+++++ 0.2424 0.2502	0.2149 0.2419 0.2432	0.3027 0.2474	0.3018 0.2383	0.3612 0.2514	Ave		0.2632				15.9		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1869 0.2451	+++++ 0.1979 0.2515	+++++ 0.2182	0.1748 0.2224	0.2354 0.2383	Ave		0.2190				12.3		20.0			
n-Propylbenzene	3.6424 4.6676 5.1556	4.2381 5.0003 5.0015	4.5717 5.1574	4.7204 4.9373	6.1000 5.2950	Ave		4.8739				12.3		20.0			
2-Chlorotoluene	2.1335 2.6353 2.9057	2.7549 2.8339 2.8893	2.7873 2.9154	2.9115 2.8054	3.6591 3.0235	Ave		2.8546				11.9		20.0			
4-Chlorotoluene	2.4967 3.0655 3.5371	3.0903 3.3200 3.4606	3.1601 3.3872	3.5018 3.3194	4.3769 3.5968	Ave		3.3594				13.0		20.0			
1,3,5-Trimethylbenzene	2.4919 3.1599 3.5624	3.0811 3.3723 3.4868	3.1366 3.4915	3.3871 3.3514	4.3441 3.6381	Ave		3.3753				12.8		20.0			
tert-Butylbenzene	2.3674 2.7608 3.0337	2.6745 2.9492 2.9578	2.7769 3.0618	2.8288 2.8893	3.6986 3.1042	Ave		2.9253				10.8		20.0			
1,2,4-Trimethylbenzene	+++++ 3.1866 3.5513	3.0405 3.3885 3.4979	3.1741 3.5143	3.5148 3.3551	4.3685 3.6398	Ave		3.4756				10.0		20.0			
sec-Butylbenzene	3.0966 4.0242 4.4426	3.4147 4.2550 4.3244	4.0045 4.4311	3.8993 4.2208	5.2242 4.5844	Ave		4.1601				13.2		20.0			
1,3-Dichlorobenzene	1.3301 1.6883 1.8385	1.7456 1.7990 1.7936	1.7629 1.8398	2.0074 1.7659	2.4850 1.8751	Ave		1.8276			0.6000	14.3		20.0			
p-Isopropyltoluene	6.0061 6.7983 7.9631	6.4219 7.5187 7.6955	6.8170 7.7741	7.2043 7.6710	9.3612 8.0827	Ave		7.4428				11.9		20.0			
1,4-Dichlorobenzene	3.2049 3.4842 3.9320	3.8777 3.8122 3.8090	3.9065 3.8870	4.5031 3.8510	5.3967 3.9767	Ave		3.9701			0.5000	13.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2,3-Trimethylbenzene	5.2172 6.2882 7.4084	6.3985 6.9317 7.2885	6.5833 7.1731	7.6354 7.1546	9.4265 7.4680	Ave		7.0811				14.1		20.0			
Benzyl chloride	+++++ 0.4496 0.7214	+++++ 0.5912 0.7364	+++++ 0.6549	+++++ 0.6734	0.6143 0.7118	Ave		0.6441				14.6		20.0			
1,2-Dichlorobenzene	+++++ 3.2754 3.6747	3.2704 3.5755 3.5786	3.6962 3.6054	4.0261 3.5755	5.1124 3.7074	Ave		3.7361			0.4000	13.4		20.0			
n-Butylbenzene	+++++ 5.7908 6.9879	5.2194 6.5617 6.7797	5.8661 6.8567	6.0368 6.8160	8.0585 7.1149	Ave		6.5535				11.9		20.0			
1,2-Dibromo-3-chloropropane	+++++ 0.2042 0.2607	+++++ 0.2257 0.2716	0.1806 0.2407	0.1955 0.2541	0.2844 0.2610	Ave		0.2379			0.0500	14.7		20.0			
1,2,4-Trichlorobenzene	1.6967 2.0225 2.3533	2.0384 2.2469 2.2798	2.2128 2.3576	2.3570 2.3519	3.0441 2.4181	Ave		2.2816			0.2000	13.8		20.0			
1,3,5-Trichlorobenzene	+++++ 1.6390 1.9251	1.6321 1.8177 1.8409	1.8098 1.9143	2.0273 1.9299	2.4747 1.9534	Ave		1.9058				11.8		20.0			
Hexachlorobutadiene	+++++ 0.8207 0.9768	0.7983 0.9217 0.9222	0.8241 0.9759	0.8696 0.9611	1.1544 0.9851	Ave		0.9282				10.9		20.0			
Naphthalene	+++++ 3.8732 4.2015	3.3750 3.9827 4.0014	3.8456 4.1818	4.2599 4.1629	5.5616 4.2750	Ave		4.1564				12.8		20.0			
1,2,3-Trichlorobenzene	1.1127 1.3721 1.5371	1.4585 1.4788 1.4577	1.5238 1.5238	1.6290 1.5273	2.0641 1.5718	Ave		1.5214				14.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/3	c5865.D
Level 2	STD2 310-295162/4	c5866.D
Level 3	STD3 310-295162/5	c5867.D
Level 4	STD4 310-295162/6	c5868.D
Level 5	STD5 310-295162/7	c5869.D
Level 6	STD6 310-295162/8	c5870.D
Level 7	STD7 310-295162/9	c5871.D
Level 8	ICIS 310-295162/10	c5872.D
Level 9	STD9 310-295162/11	c5873.D
Level 10	STD10 310-295162/12	c5874.D
Level 11	STD11 310-295162/13	c5875.D
Level 12	STD12 310-295162/14	c5876.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Ethanol	FB	Ave	+++++ 12012 144217	+++++ 26155 289149	+++++ 54539	+++++ 86149	+++++ 119684	+++++ 800 10000	+++++ 2000 20000	+++++ 4000	+++++ 6000	+++++ 8000
Diethyl ether	FB	Ave	447 23923 384793	1058 63989 765976	2263 136339	6383 223212	13878 298566	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Acrolein	FB	Ave	+++++ 17231 266433	831 44935 538297	1550 94356	4378 154853	10425 206827	+++++ 95.2 1190	4.76 238 2380	9.52 476	23.8 714	47.6 952
1,1-Dichloroethene	FB	Ave	+++++ 29164 464156	1264 78968 903993	3005 169348	6520 267205	15058 366088	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,2-Trichlorotrifluoroethane	FB	Ave	+++++ 28999 485273	1013 78118 994689	2751 167783	5704 272172	16888 377961	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Acetone	FB	Lin1	+++++ 14137 225662	+++++ 35597 447694	+++++ 72721	5179 128729	10707 168271	+++++ 40.0 500	+++++ 100 1000	+++++ 200	10.0 300	20.0 400
Iodomethane	FB	Ave	+++++ 25632 387251	+++++ 76573 +++++	+++++ 177375	+++++ 264409	10561 326157	+++++ 20.0 250	+++++ 50.0 +++++	+++++ 100	+++++ 150	10.0 200
Carbon disulfide	FB	Ave	2079 84184 1378380	4177 231488 2730049	8279 500417	18910 794423	44513 1088335	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isopropyl alcohol	FB	Ave	+++++ 15345 193100	477 33439 391322	1343 72053	3572 114198	9087 156610	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Acetonitrile	FB	Ave	+++++ 26386 382505	1671 66605 756184	3001 136343	7279 229730	16111 298576	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Allyl chloride	FB	Ave	+++++ 19350 317309	709 48267 601341	1662 116896	4829 186082	8750 244182	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methyl acetate	FB	Ave	1158 36226 587283	2216 98353 1191325	3972 207296	10592 341651	21205 453391	1.00 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Methylene Chloride	FB	Ave	867 33290 508797	1929 87198 1002379	3549 184369	8724 297867	18831 400344	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
tert-Butanol	FB	Ave	+++++ 21035 266006	770 46928 543563	1897 100031	5421 158525	12445 217696	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Acrylonitrile	FB	Ave	1932 104876 1604328	4442 278089 3246937	9642 581014	27301 932977	61893 1248302	5.00 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
trans-1,2-Dichloroethene	FB	Ave	599 33939 544308	1517 92873 1076950	3122 199161	7449 320120	18453 427320	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methyl tert-butyl ether	FB	Ave	1414 75730 1263087	3470 208359 2588342	7098 441722	19744 721382	43605 971336	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Hexane	FB	Ave	837 49770 740402	1793 127364 1459703	4614 273746	9450 413206	25358 581122	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1-Dichloroethane	FB	Ave	1093 64654 1013362	2800 171356 2020287	5830 370988	15757 588499	33570 798918	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Vinyl acetate	FB	Ave	+++++ 12154 209497	509 33401 420294	827 74802	2864 120034	6923 161865	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Chloroprene	FB	Ave	+++++ 61831 1017778	2284 162736 2116590	5395 357917	12392 570674	31634 787903	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Di-isopropyl ether (DIPE)	FB	Ave	599 31277 484165	1231 84398 970817	2764 174705	7895 285228	18147 371279	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
tert-Butyl ethyl ether	FB	Ave	1693 99532 1610503	4334 262448 3278675	8853 564903	24453 920936	55757 1235473	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2,2-Dichloropropane	FB	Ave	+++++ 48085 826438	+++++ 132455 1737091	3745 289710	10319 467030	25347 636194	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
cis-1,2-Dichloroethene	FB	Ave	671 40484 599338	1787 105556 1190436	3440 224357	9661 356748	21569 475897	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Butanone (MEK)	FB	Ave	+++++ 24606 343182	1168 57256 682199	2380 123300	6634 201245	14915 270827	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Propionitrile	FB	Ave	+++++ 43014 592518	1738 104790 1208385	3859 217461	11076 351145	26561 470953	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Ethyl acetate	FB	Ave	+++++ 9336 153061	345 22941 329929	879 53714	2477 82353	5113 111574	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Methacrylonitrile	FB	Ave	+++++ 123577 1838957	5227 320400 3737625	10885 664416	31501 1065799	74057 1427644	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Bromochloromethane	FB	Ave	+++++ 17152 220182	760 45286 437534	1461 90073	4409 136698	9461 176667	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Tetrahydrofuran	FB	Ave	+++++ 5606 84674	+++++ 14966 177100	511 30348	1396 50732	3494 66548	+++++ 40.0 500	+++++ 100 1000	4.00 200	10.0 300	20.0 400
Chloroform	FB	Ave	+++++ 61875 961757	3636 163959 1934707	7208 351967	16264 556220	34663 754824	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,1-Trichloroethane	FB	Ave	+++++ 54474 897749	1992 144945 1853831	4719 319797	11030 507413	28987 696226	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Cyclohexane	FB	Ave	+++++ 66512 1043474	2425 176929 2156428	6084 373121	12890 586722	35003 814904	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon tetrachloride	FB	Ave	+++++ 45100 770898	+++++ 124328 1646053	3858 272324	8797 437207	23843 603475	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
1,1-Dichloropropene	FB	Ave	+++++ 52748 798317	2018 136208 1628010	4755 288977	11010 463519	27371 626437	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Isobutyl alcohol	FB	Ave	+++++ 27699 364011	1045 63711 747062	2633 133992	6523 216458	16344 291625	+++++ 500 6250	25.0 1250 12500	50.0 2500	125 3750	250 5000
Benzene	FB	Ave	2756 155947 2317477	6512 401953 4666102	13950 857100	35933 1353344	82804 1828665	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dichloroethane	FB	Ave	814 46150 736768	2311 121762 1515161	4506 259608	11747 416961	27388 567476	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
n-Butanol	FB	Ave	664 39188 571159	1411 101015 1155461	3758 215916	7175 327034	20725 447648	12.5 500 6250	25.0 1250 12500	50.0 2500	125 3750	250 5000
tert-Amyl methyl ether	FB	Ave	+++++ 88451 1375681	3635 231676 2860395	7709 493216	22745 797639	51294 1068336	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Heptane	FB	Ave	1085 50002 715764	1932 125772 1429890	4603 265129	9133 409601	25241 564880	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Trichloroethene	FB	Ave	671 39505 607159	1616 103662 1228959	3713 217976	8767 345027	21376 470196	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Ethyl acrylate	FB	Ave	622 36085 570579	1466 94097 1192229	3067 200154	9456 330069	22470 440304	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methylcyclohexane	FB	Ave	1233 67334 982937	2707 172955 1994384	5910 368808	12217 561404	35629 774861	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dichloropropane	FB	Ave	630 37550 569883	1725 96515 1159412	3164 206428	9118 329863	20545 449040	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Dibromomethane	FB	Ave	+++++ 19559 278956	861 50926 530577	1808 108431	4879 171460	11516 224693	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Methyl methacrylate	FB	Ave	+++++ 41993 633981	1608 106838 1296121	3512 225693	10454 369629	25644 490835	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Dichlorobromomethane	FB	Ave	799 41469 727919	1927 116297 1493680	3699 254937	10458 411966	24223 561520	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Nitropropane	FB	Ave	+++++ 12034 +++++	+++++ 34658 +++++	+++++ 83296	2682 +++++	6934 +++++	+++++ 40.0 +++++	+++++ 100 +++++	+++++ 200	10.0 +++++	20.0 +++++
2-Chloroethyl vinyl ether	FB	Ave	+++++ 19499 320975	750 53569 655456	1591 113588	5133 186190	11751 247569	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
cis-1,3-Dichloropropene	FB	Ave	805 53096 902811	1841 149104 1837353	3907 320494	12398 519632	30524 707454	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 57389 824007	2190 140519 1694170	4825 291062	14634 478227	37062 640642	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Toluene	FB	Ave	1962 102944 1538700	4514 270263 3100949	9615 575198	25051 908469	59158 1205515	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
trans-1,3-Dichloropropene	FB	Lin1	651 46768 +++++	1546 131564 +++++	3403 287350	10540 469028	27921 +++++	0.500 20.0 +++++	1.00 50.0 +++++	2.00 100	5.00 150	10.0 +++++
Ethyl methacrylate	FB	Ave	+++++ 38591 611318	1652 101807 1252335	3164 217634	9658 351773	24877 476733	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,2-Trichloroethane	FB	Ave	368 25070 373824	966 64494 755043	2116 137753	6736 218875	15716 294668	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Tetrachloroethene	FB	Ave	804 45271 621264	1850 116227 1237748	4042 243474	9753 374289	23418 498635	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3-Dichloropropane	FB	Ave	877 51539 783956	2326 138017 1574200	4885 288225	13950 463989	32211 614765	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Hexanone	FB	Ave	+++++ 38798 541233	1326 92086 1114548	3180 192696	9374 315901	24213 420569	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chlorodibromomethane	FB	Ave	+++++ 30929 529757	1184 85925 1068212	2403 190332	7339 307574	18543 413885	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
n-Butyl acetate	FB	Ave	+++++ 49151 700054	+++++ 120393 1440031	3928 251591	12046 407719	30650 541266	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dibromoethane (EDB)	FB	Ave	+++++ 30367 451068	1138 79261 905817	2351 168707	7745 270235	18430 356689	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Chlorobenzene	CBNZ d5	Ave	1937 111261 1577563	5797 289226 3151533	9914 602850	29009 937906	68339 1253361	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 34891 546096	1203 95306 1096544	2826 203777	8766 324315	22255 430882	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Ethylbenzene	CBNZ d5	Ave	3560 201060 2901779	8228 520303 5818033	17799 1094090	46529 1726342	114457 2302794	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
m,p-Xylene	CBNZ d5	Ave	1462 77730 1116451	3204 201025 2235485	6822 425486	18231 665198	45812 881949	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
o-Xylene	CBNZ d5	Ave	1138 73542 1063985	3347 192378 2145850	6560 400141	18126 626337	44010 844682	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Styrene	CBNZ d5	Ave	1992 122940 1820064	4846 319407 3655260	9675 674858	30342 1066367	74982 1435489	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Bromoform	CBNZ d5	Ave	+++++ 16686 305575	+++++ 46626 643252	+++++ 108385	3525 176253	10424 240686	+++++ 20.0 250	+++++ 50.0 500	+++++ 100	5.00 150	10.0 200
Isopropylbenzene	CBNZ d5	Ave	3312 195179 2818535	7726 506065 5652838	16669 1072001	44416 1671006	111982 2251337	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Bromobenzene	CBNZ d5	Ave	+++++ 43949 627734	2191 117293 1253773	3859 243560	11831 378854	28261 501867	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,2,2-Tetrachloroethane	CBNZ d5	Lin1	486 37137 502162	1502 88795 1017959	3007 186481	9318 300355	23528 398669	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2,3-Trichloropropane	CBNZ d5	Ave	+++++ 11895 157048	444 28589 314907	1252 59328	3204 93956	7718 123377	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
trans-1,4-Dichloro-2-butene	CBNZ d5	Ave	+++++ 9173 153844	+++++ 23391 325722	+++++ 52313	1855 87699	5031 116968	+++++ 20.0 250	+++++ 50.0 500	+++++ 100	5.00 150	10.0 200
n-Propylbenzene	CBNZ d5	Ave	3831 229040 3236015	8755 590896 6476857	18910 1236556	50105 1946827	130348 2598529	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Chlorotoluene	CBNZ d5	Ave	2244 129314 1823817	5691 334892 3741652	11529 698997	30904 1106175	78189 1483757	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
4-Chlorotoluene	CBNZ d5	Ave	2626 150423 2220113	6384 392335 4481390	13071 812123	37170 1308877	93528 1765116	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3,5-Trimethylbenzene	CBNZ d5	Ave	2621 155060 2236003	6365 398516 4515326	12974 837133	35953 1321492	92826 1785375	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
tert-Butylbenzene	CBNZ d5	Ave	2490 135472 1904173	5525 348509 3830382	11486 734102	30027 1139275	79033 1523388	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,4-Trimethylbenzene	CBNZ d5	Ave	+++++ 156367 2229026	6281 400430 4529742	13129 842589	37308 1322936	93347 1786213	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
sec-Butylbenzene	CBNZ d5	Ave	3257 197468 2788442	7054 502827 5600030	16564 1062415	41390 1664286	111633 2249763	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3-Dichlorobenzene	CBNZ d5	Ave	1399 82846 1153950	3606 212595 2322712	7292 441110	21308 696302	53101 920200	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
p-Isopropyltoluene	DCBd 4	Ave	2931 164844 2343928	6323 420087 4701903	13327 886323	36080 1385446	95136 1876962	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,4-Dichlorobenzene	DCBd 4	Ave	1564 84486 1157395	3818 212997 2327243	7637 443152	22552 695523	54846 923470	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,3-Trimethylbenzene	DCBd 4	Ave	2546 152476 2180658	6300 387286 4453213	12870 817804	38239 1292178	95800 1734226	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzyl chloride	DCBd 4	Ave	+++++ 10901 212334	+++++ 33030 449904	+++++ 74667	+++++ 121624	6243 165299	+++++ 20.0 250	+++++ 50.0 500	+++++ 100	+++++ 150	10.0 200
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 79423 1081640	3220 199770 2186474	7226 411046	20163 645769	51956 860941	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
n-Butylbenzene	DCBd 4	Ave	+++++ 140416 2056899	5139 366616 4142334	11468 781733	30233 1231038	81897 1652224	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dibromo-3-chloropropane	DCBd 4	Ave	+++++ 4952 76750	+++++ 12612 165970	353 27437	979 45896	2890 60609	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
1,2,4-Trichlorobenzene	DCBd 4	Ave	828 49042 692684	2007 125538 1392929	4326 268789	11804 424780	30937 561538	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 39742 566644	1607 101560 1124797	3538 218247	10153 348565	25150 453613	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Hexachlorobutadiene	DCBd 4	Ave	+++++ 19900 287521	786 51495 563478	1611 111264	4355 173590	11732 228752	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Naphthalene	DCBd 4	Ave	+++++ 93917 1236700	3323 222523 2444812	7518 476762	21334 751860	56521 992752	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,3-Trichlorobenzene	DCBd 4	Ave	543 33271 452443	1436 82621 890617	2979 173729	8158 275840	20977 364999	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/3	c5865.D
Level 2	STD2 310-295162/4	c5866.D
Level 3	STD3 310-295162/5	c5867.D
Level 4	STD4 310-295162/6	c5868.D
Level 5	STD5 310-295162/7	c5869.D
Level 6	STD6 310-295162/8	c5870.D
Level 7	STD7 310-295162/9	c5871.D
Level 8	ICIS 310-295162/10	c5872.D
Level 9	STD9 310-295162/11	c5873.D
Level 10	STD10 310-295162/12	c5874.D
Level 11	STD11 310-295162/13	c5875.D
Level 12	STD12 310-295162/14	c5876.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Ethanol	+++++	+++++	+++++	+++++	+++++	8.3						40
Diethyl ether	-23.4						40					
Acrolein	+++++	1.1						40				
1,1-Dichloroethene	+++++	-8.5						40				
1,1,2-Trichlorotrifluoroethane	+++++	-26.1						40				
Acetone	+++++	+++++	+++++	10.3						40		
Iodomethane	+++++	+++++	+++++	+++++	-22.1	+++++					40	
Carbon disulfide	-1.0						40					
Isopropyl alcohol	+++++	-24.6						40				
Acetonitrile	+++++	28.8						40				
Allyl chloride	+++++	-20.6						40				
Methyl acetate	18.8						40					
Methylene Chloride	3.2						40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
tert-Butanol	+++++	-14.0						40				
Acrylonitrile	-22.5						40					
trans-1,2-Dichloroethene	-26.0						40					
Methyl tert-butyl ether	-24.7						40					
Hexane	-23.8						40					
1,1-Dichloroethane	-28.0						40					
Vinyl acetate	+++++	-13.1						40				
Chloroprene	+++++	-20.1						40				
Di-isopropyl ether (DIPE)	-19.0						40					
tert-Butyl ethyl ether	-28.7						40					
2,2-Dichloropropane	+++++	+++++	-20.6						40			
cis-1,2-Dichloroethene	-27.6						40					
2-Butanone (MEK)	+++++	3.8						40				
Propionitrile	+++++	-9.9						40				
Ethyl acetate	+++++	-21.9						40				
Methacrylonitrile	+++++	-8.7						40				
Bromochloromethane	+++++	0.8						40				
Tetrahydrofuran	+++++	+++++	-5.7						40			
Chloroform	+++++	17.6						40				
1,1,1-Trichloroethane	+++++	-21.4						40				
Cyclohexane	+++++	-19.8						40				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Carbon tetrachloride	+++++	+++++	-13.0						40			
1,1-Dichloropropene	+++++	-14.9						40				
Isobutyl alcohol	+++++	-12.6						40				
Benzene	-22.7						40					
1,2-Dichloroethane	-27.8						40					
n-Butanol	-23.4						40					
tert-Amyl methyl ether	+++++	-12.8						40				
Heptane	-2.1						40					
Trichloroethene	-26.4						40					
Ethyl acrylate	-27.8						40					
Methylcyclohexane	-17.6						40					
1,2-Dichloropropane	-27.6						40					
Dibromomethane	+++++	-4.4						40				
Methyl methacrylate	+++++	-16.7						40				
Dichlorobromomethane	-24.0						40					
2-Nitropropane	+++++	+++++	+++++ +++++	-14.6 +++++	+++++	+++++				40		
2-Chloroethyl vinyl ether	+++++	-20.2						40				
cis-1,3-Dichloropropene	-36.1						40					
4-Methyl-2-pentanone (MIBK)	+++++	-15.5						40				
Toluene	-19.1						40					
trans-1,3-Dichloropropene	25.3			+++++	+++++	+++++	40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Ethyl methacrylate	+++++	-10.4						40				
1,1,2-Trichloroethane	-36.4						40					
Tetrachloroethene	-19.5						40					
1,3-Dichloropropane	-29.3						40					
2-Hexanone	+++++	-21.7						40				
Chlorodibromomethane	+++++	-21.3						40				
n-Butyl acetate	+++++	+++++	-12.5						40			
1,2-Dibromoethane (EDB)	+++++	-18.1						40				
Chlorobenzene	-26.5						40					
1,1,1,2-Tetrachloroethane	+++++	-28.2						40				
Ethylbenzene	-22.9						40					
m,p-Xylene	-18.6						40					
o-Xylene	-33.5						40					
Styrene	-29.7						40					
Bromoform	+++++	+++++	+++++	-23.9						40		
Isopropylbenzene	-25.6						40					
Bromobenzene	+++++	3.4						40				
1,1,2,2-Tetrachloroethane	-32.2						40					
1,2,3-Trichloropropane	+++++	-18.3						40				
trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	-20.2						40		
n-Propylbenzene	-25.3						40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
2-Chlorotoluene	-25.3						40					
4-Chlorotoluene	-25.7						40					
1,3,5-Trimethylbenzene	-26.2						40					
tert-Butylbenzene	-19.1						40					
1,2,4-Trimethylbenzene	+++++	-12.5						40				
sec-Butylbenzene	-25.6						40					
1,3-Dichlorobenzene	-27.2						40					
p-Isopropyltoluene	-19.3						40					
1,4-Dichlorobenzene	-19.3						40					
1,2,3-Trimethylbenzene	-26.3						40					
Benzyl chloride	+++++	+++++	+++++	+++++	-4.6						40	
1,2-Dichlorobenzene	+++++	-12.5						40				
n-Butylbenzene	+++++	-20.4						40				
1,2-Dibromo-3-chloropropane	+++++	+++++	-24.1						40			
1,2,4-Trichlorobenzene	-25.6						40					
1,3,5-Trichlorobenzene	+++++	-14.4						40				
Hexachlorobutadiene	+++++	-14.0						40				
Naphthalene	+++++	-18.8						40				
1,2,3-Trichlorobenzene	-26.9						40					

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Oct-2020 08:16:30 ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:25:42 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:12:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	137980	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	4669	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	105179	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	48800	50.0	50.0	
17 Ethanol	45	2.391	2.373	0.018	20	174	20.0	14.5	M
18 Ethyl ether	59	2.452	2.452	0.000	84	447	0.5000	0.3832	
19 Acrolein	56	2.556	2.550	0.006	4	142	2.38	0.8002	a
20 1,1-Dichloroethene	96	2.659	2.647	0.012	37	202	0.5000	0.1423	M
21 112TCTFE	101	2.659	2.666	-0.007	13	432	0.5000	0.3067	
22 Acetone	43	2.714	2.708	0.006	20	911	1.00	-0.7867	Ma
24 Carbon disulfide	76	2.830	2.836	-0.006	63	2079	0.5000	0.4948	M
105 Isopropyl alcohol	45	2.879	2.891	-0.012	21	139	5.00	2.14	M
118 Acetonitrile	40	2.970	2.971	-0.001	67	918	5.00	6.89	M
25 3-Chloro-1-propene	76	3.013	3.001	0.012	1	84	0.5000	0.0916	M
26 Methyl acetate	43	3.037	3.031	0.006	31	1158	1.00	1.19	M
27 Methylene Chloride	84	3.111	3.105	0.006	92	867	0.5000	0.5160	
23 Iodomethane	142		3.153				ND	ND	
35 2-Methyl-2-propanol	59	3.257	3.263	-0.006	6	316	5.00	3.43	M
30 Acrylonitrile	53	3.342	3.342	0.000	93	1932	5.00	3.88	M
28 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	95	599	0.5000	0.3700	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	1414	0.5000	0.3765	
31 Hexane	57	3.647	3.641	0.006	87	837	0.5000	0.3812	
32 1,1-Dichloroethane	63	3.763	3.775	-0.012	1	1093	0.5000	0.3599	M
33 Vinyl acetate	86	3.836	3.842	-0.006	97	191	1.00	0.6351	M
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	88	997	0.5000	0.3395	
36 Isopropyl ether	87	3.873	3.867	0.006	84	599	0.5000	0.4051	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	97	1693	0.5000	0.3566	
39 cis-1,2-Dichloroethene	96	4.330	4.312	0.018	82	671	0.5000	0.3622	M
38 2,2-Dichloropropane	77	4.318	4.318	0.000	73	863	0.5000	0.3602	a
40 2-Butanone (MEK)	43	4.348	4.348	0.000	31	373	1.00	0.6453	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	87	578	5.00	2.92	a
104 Ethyl acetate	61	4.415	4.415	0.000	23	42	1.00	0.1851	M
43 Methacrylonitrile	67	4.537	4.543	-0.006	88	1993	5.00	3.39	
42 Chlorobromomethane	128	4.537	4.543	-0.006	44	208	0.5000	0.2687	
44 Tetrahydrofuran	71		4.598				ND	ND	
45 Chloroform	83	4.622	4.635	-0.013	94	2393	0.5000	0.7535	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	90	877	0.5000	0.3369	
47 Cyclohexane	56	4.842	4.848	-0.006	90	966	0.5000	0.3112	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	74	613	0.5000	0.2722	
49 1,1-Dichloropropene	75	4.952	4.958	-0.006	80	799	0.5000	0.3279	
108 Isobutyl alcohol	43	5.110	5.117	-0.006	29	331	12.5	6.73	M
50 Benzene	78	5.153	5.153	0.000	96	2756	0.5000	0.3865	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	89	814	0.5000	0.3608	M
116 n-Butanol	56	5.256	5.257	-0.001	31	664	12.5	9.58	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	92	1435	0.5000	0.3353	
53 n-Heptane	43	5.445	5.446	-0.001	90	1085	0.5000	0.4895	a
54 Trichloroethene	95	5.793	5.793	0.000	89	671	0.5000	0.3682	
117 Ethyl acrylate	55	5.915	5.927	-0.012	91	622	0.5000	0.3611	Ma
114 Methylcyclohexane	83	5.982	5.988	-0.006	79	1233	0.5000	0.4120	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	86	630	0.5000	0.3618	
56 Dibromomethane	93	6.122	6.122	0.000	26	315	0.5000	0.3405	a
57 Methyl methacrylate	69	6.153	6.153	0.000	91	566	1.00	0.5712	
115 1,4-Dioxane	58		6.159				ND	ND	
58 Dichlorobromomethane	83	6.287	6.287	0.000	91	799	0.5000	0.3800	
106 2-Nitropropane	43	6.525	6.519	0.005	60	238	1.00	0.7792	M
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	1	225	0.5000	0.2329	a
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	92	805	0.5000	0.3197	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	90	714	1.00	0.5366	a
62 Toluene	92	7.098	7.098	0.000	97	1962	0.5000	0.4046	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	82	651	0.5000	0.6264	a
64 Ethyl methacrylate	69	7.463	7.458	0.005	84	546	0.5000	0.2883	a
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	78	368	0.5000	0.3179	
66 Tetrachloroethene	166	7.683	7.677	0.006	0	804	0.5000	0.4026	a
67 1,3-Dichloropropane	76	7.695	7.701	-0.006	86	877	0.5000	0.3535	
68 2-Hexanone	43	7.817	7.817	0.000	11	426	1.00	0.4899	M
69 Chlorodibromomethane	129	7.933	7.939	-0.006	1	417	0.5000	0.2699	M
109 n-Butyl acetate	43	7.975	7.970	0.005	36	766	0.5000	0.3362	M
70 Ethylene Dibromide	107	8.049	8.049	0.000	77	434	0.5000	0.3041	M
71 Chlorobenzene	112	8.603	8.610	-0.007	95	1937	0.5000	0.3673	a
72 1,1,1,2-Tetrachloroethane	131	8.701	8.707	-0.006	83	473	0.5000	0.2774	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	97	1462	0.5000	0.4068	a
73 Ethylbenzene	91	8.750	8.884	-0.134	95	3560	0.5000	0.3856	a
75 o-Xylene	106	9.323	9.317	0.006	97	1138	0.5000	0.3327	
76 Styrene	104	9.341	9.341	0.000	90	1992	0.5000	0.3516	
77 Bromoform	173	9.530	9.530	0.000	1	111	0.5000	0.1209	a
78 Isopropylbenzene	105	9.756	9.762	-0.006	94	3312	0.5000	0.3722	
79 Bromobenzene	156	10.073	10.085	-0.012	91	691	0.5000	0.3201	
80 1,1,2,2-Tetrachloroethane	83	10.091	10.097	-0.006	83	486	0.5000	0.3391	a
81 1,2,3-Trichloropropane	110	10.146	10.146	0.000	1	149	0.5000	0.2691	M
82 trans-1,4-Dichloro-2-butene	53		10.164				ND	ND	
83 N-Propylbenzene	91	10.237	10.237	0.000	95	3831	0.5000	0.3737	
84 2-Chlorotoluene	91	10.316	10.317	-0.001	93	2244	0.5000	0.3737	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	97	2626	0.5000	0.3716	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	79	2621	0.5000	0.3691	
87 tert-Butylbenzene	119	10.829	10.829	0.000	92	2490	0.5000	0.4046	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	94	2405	0.5000	0.3290	
89 sec-Butylbenzene	105	11.091	11.091	0.000	93	3257	0.5000	0.3722	
90 1,3-Dichlorobenzene	146	11.194	11.188	0.006	93	1399	0.5000	0.3639	
91 4-Isopropyltoluene	119	11.280	11.268	0.012	66	2931	0.5000	0.4035	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	94	2546	0.5000	0.3684	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	91	1564	0.5000	0.4036	a
113 Benzyl chloride	126		11.463				ND	ND	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	90	1151	0.5000	0.3156	
94 n-Butylbenzene	91	11.761	11.761	0.000	85	2104	0.5000	0.3289	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	ND	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	87	828	0.5000	0.3718	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	90	601	0.5000	0.3231	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	1	268	0.5000	0.2958	M
98 Naphthalene	128	13.974	13.974	0.000	90	1361	0.5000	0.3355	a
99 1,2,3-Trichlorobenzene	180	14.273	14.279	-0.006	1	543	0.5000	0.3657	a
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		1.00	0.7321	
S 102 1,3-Dichloropropene, Total	1				0		1.00	0.9462	
S 100 Xylenes, Total	1				0		1.00	0.7395	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

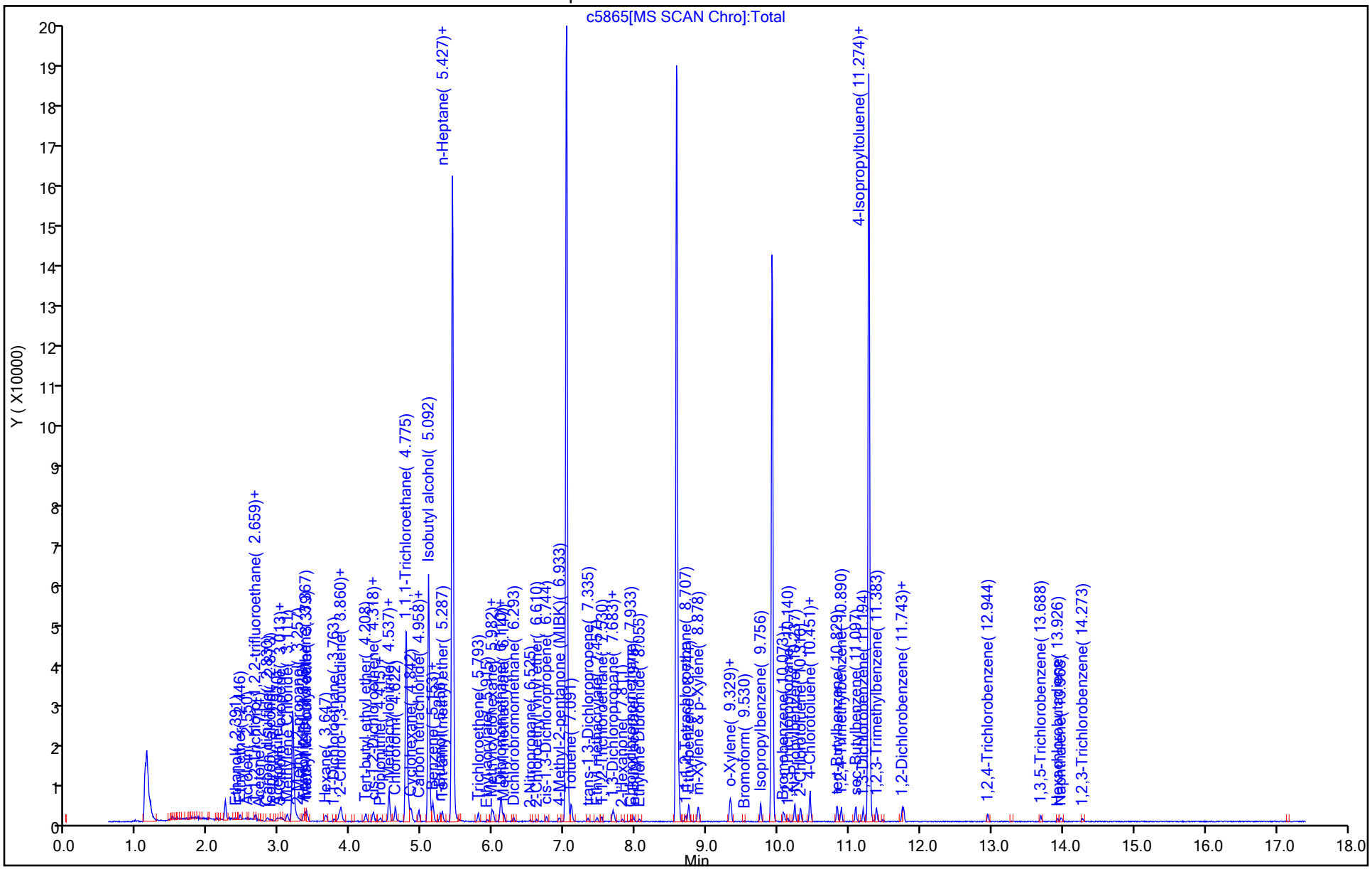
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	0.50	Units: uL

Report Date: 13-Oct-2020 18:25:44 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D

Injection Date:	13-Oct-2020 08:16:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

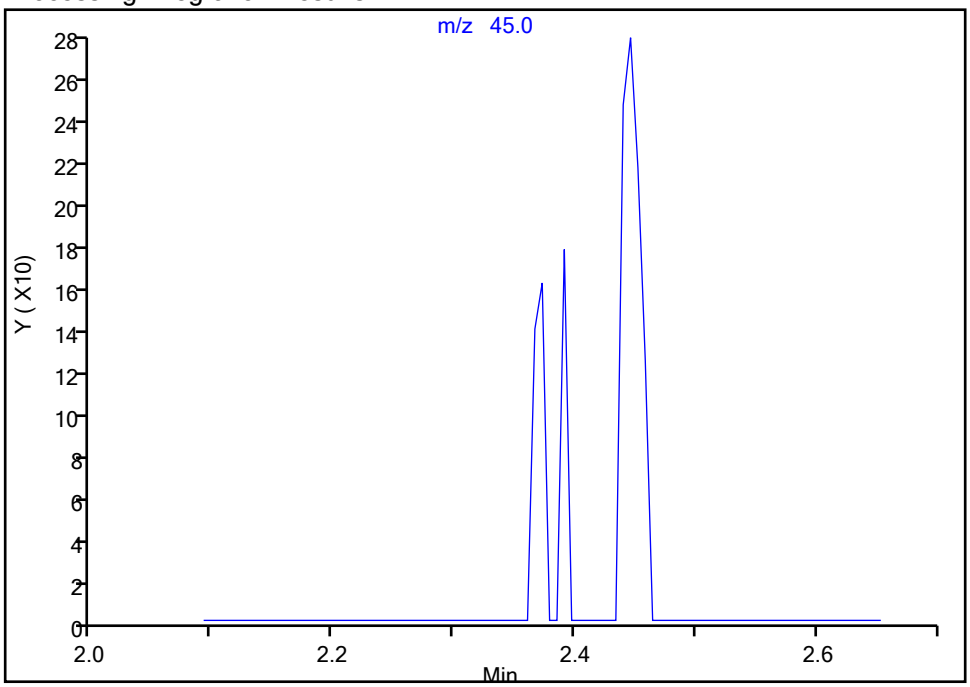
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

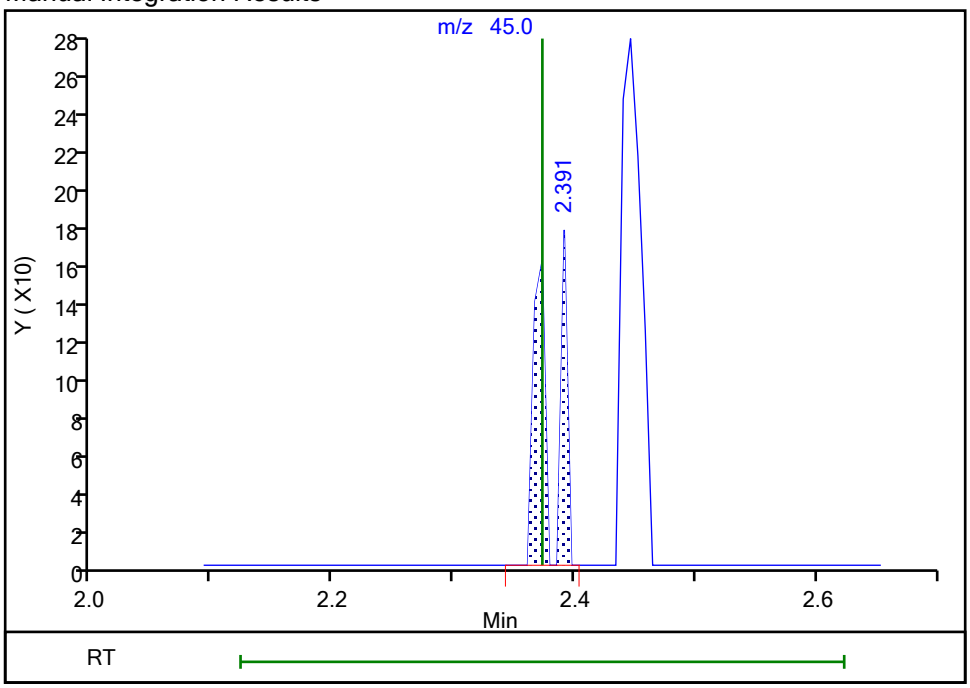
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.39
Area: 174
Amount: 14.501073
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:03
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

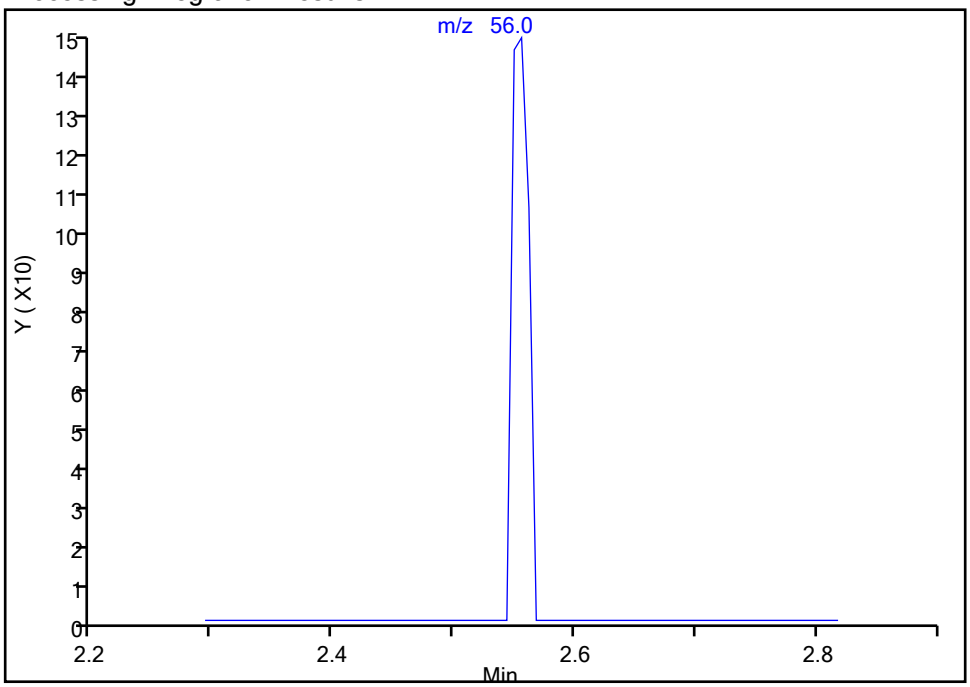
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

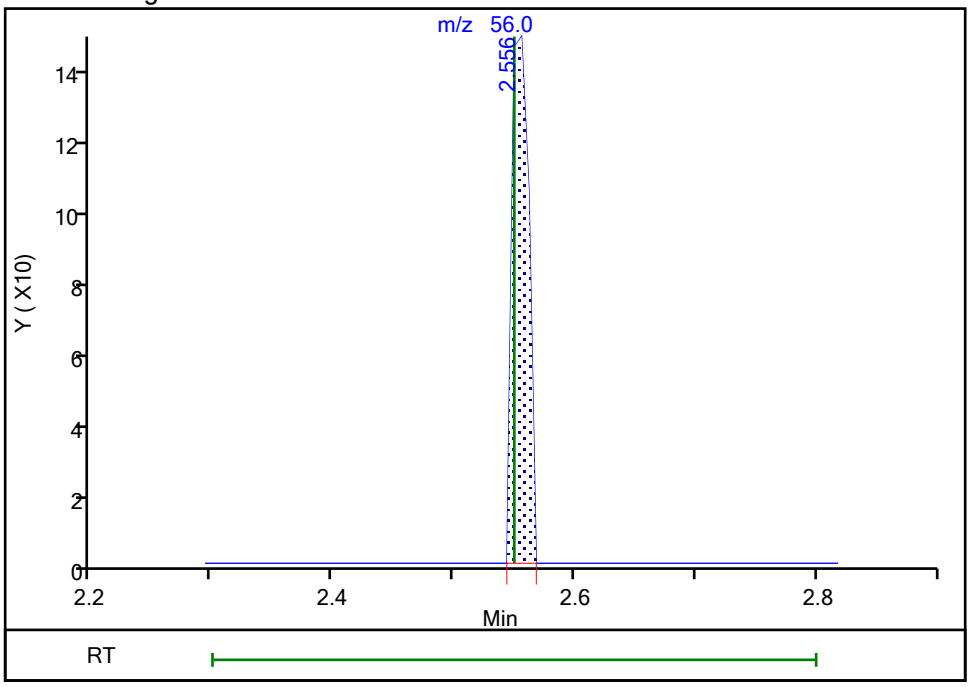
Not Detected
Expected RT: 2.55

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 142
Amount: 0.800239
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:12
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

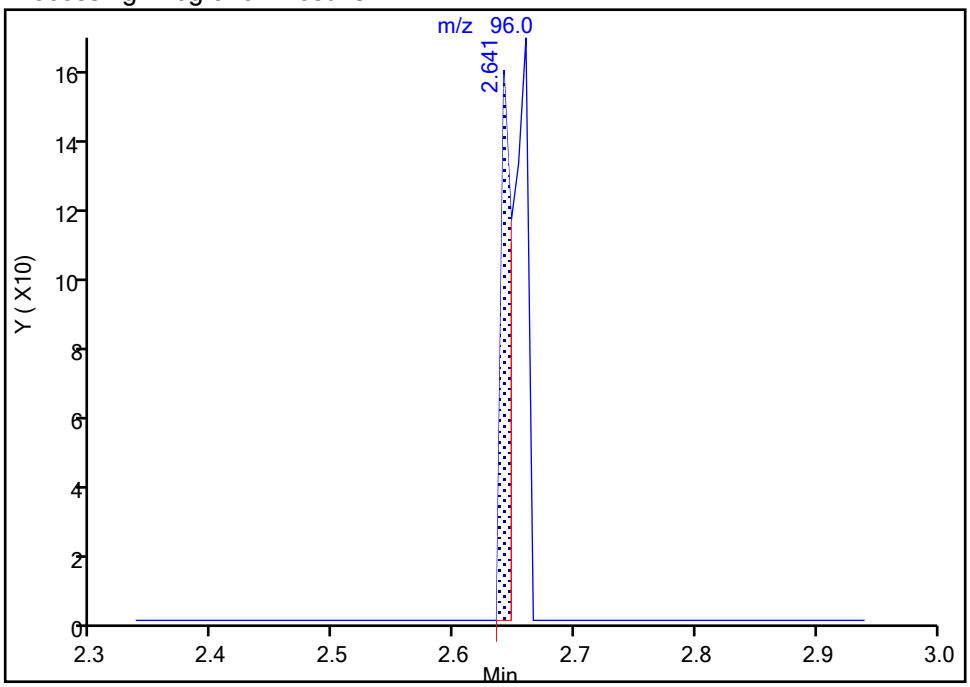
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

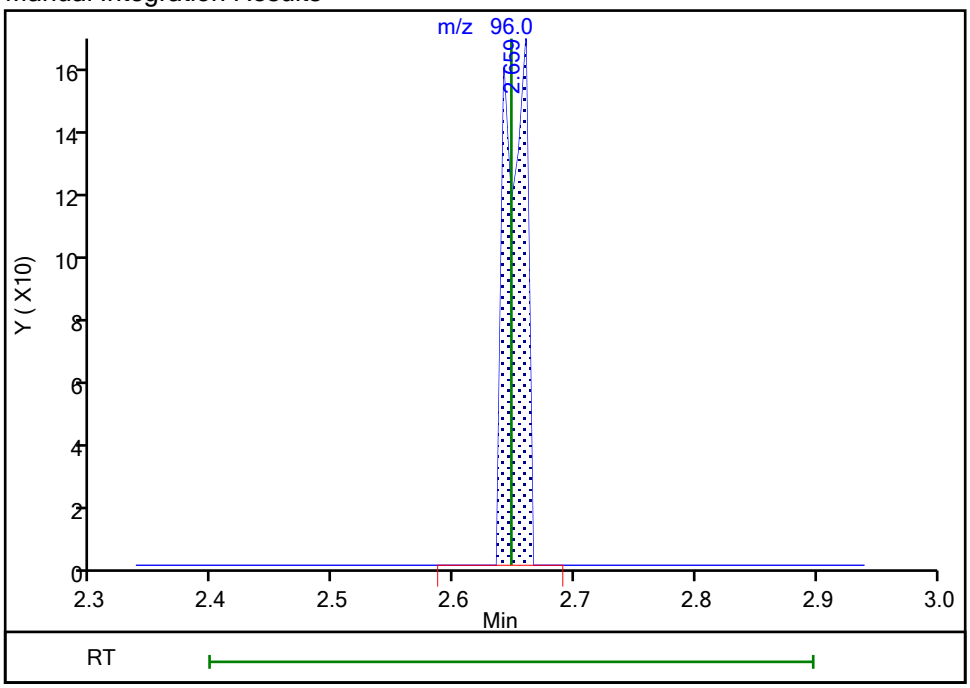
Processing Integration Results

RT: 2.64
Area: 96
Amount: 0.521048
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 202
Amount: 0.142320
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:19
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

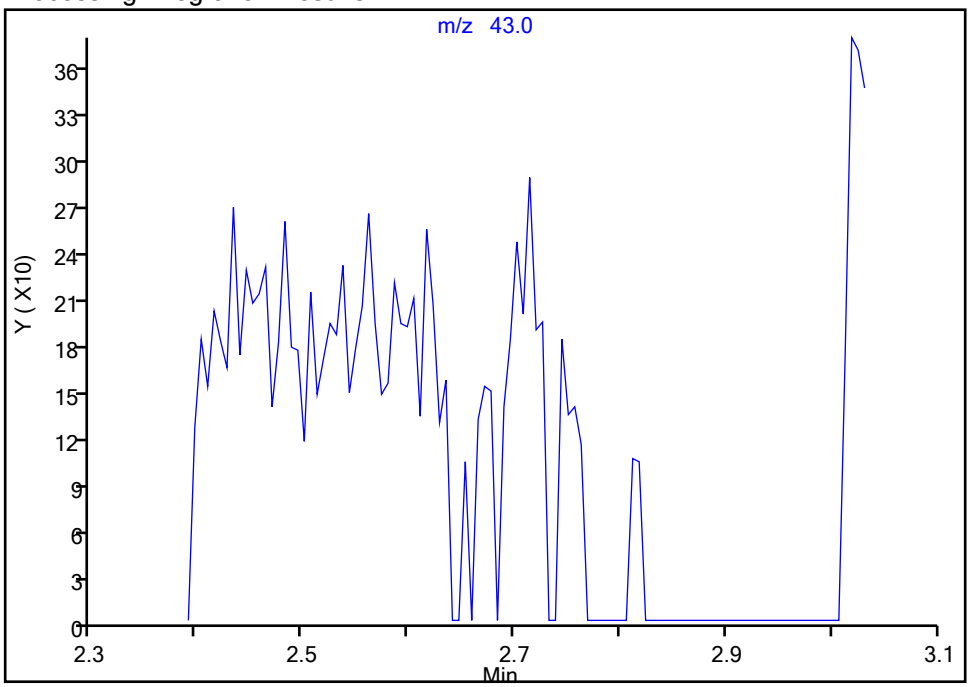
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

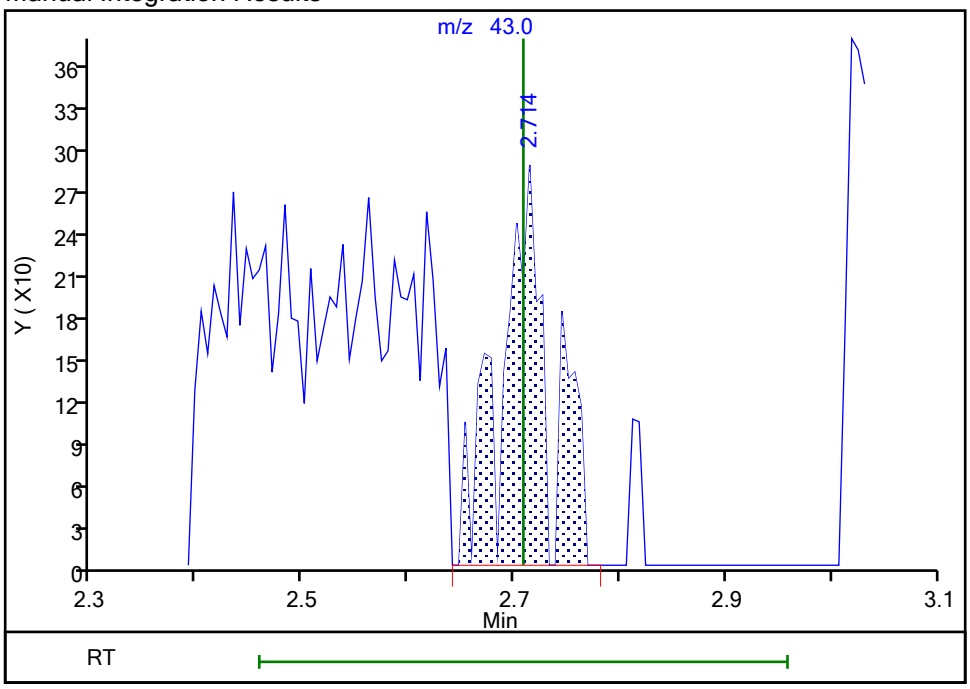
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 911
Amount: -0.786674
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:49
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

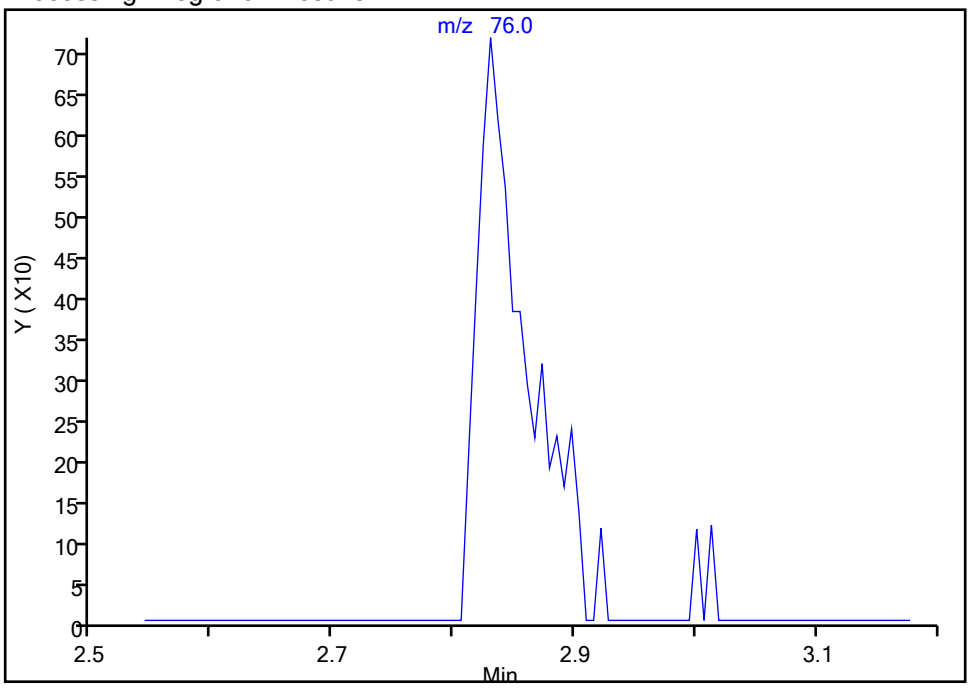
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

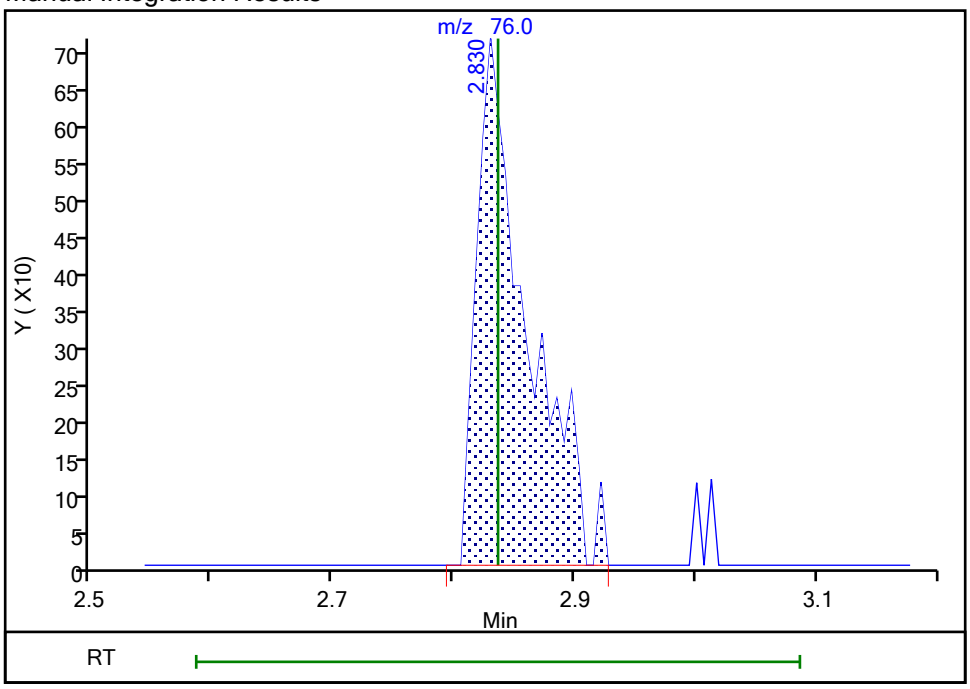
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.83
Area: 2079
Amount: 0.494761
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:01
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

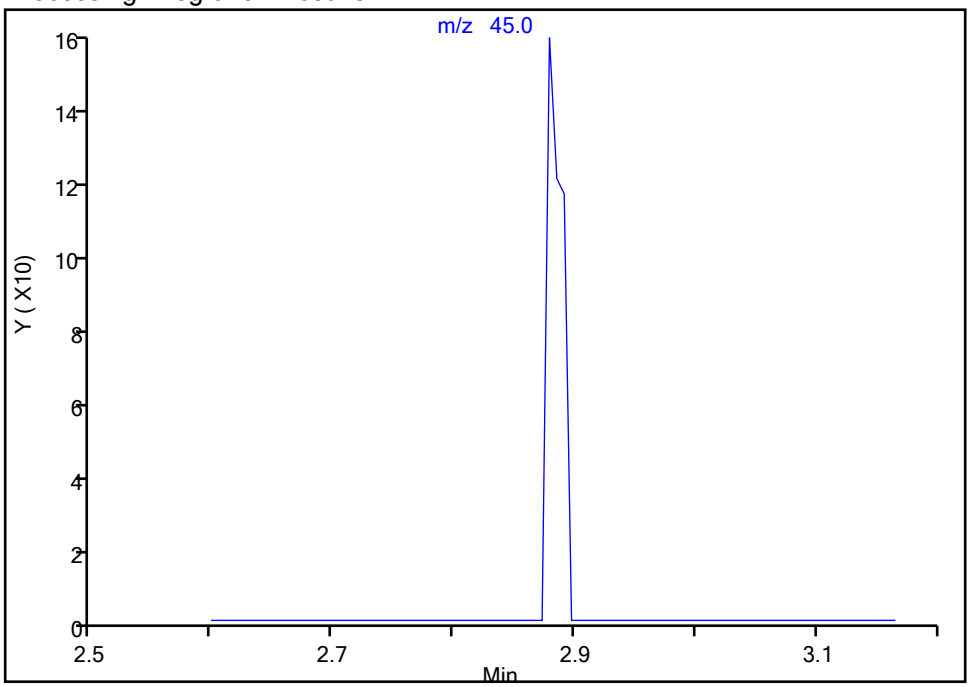
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

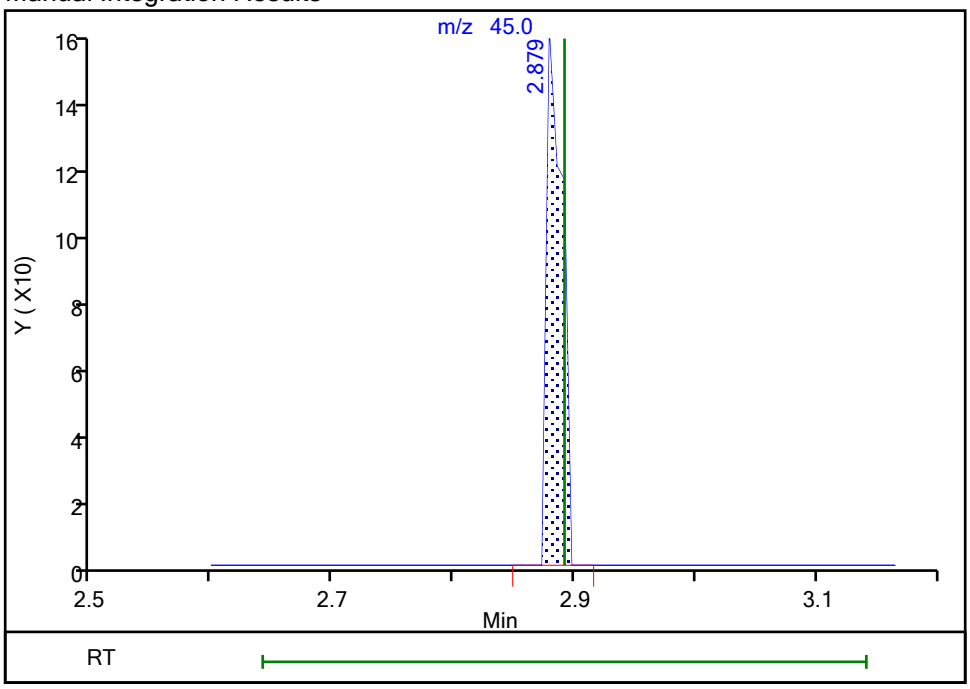
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.88
Area: 139
Amount: 2.137893
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:07
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

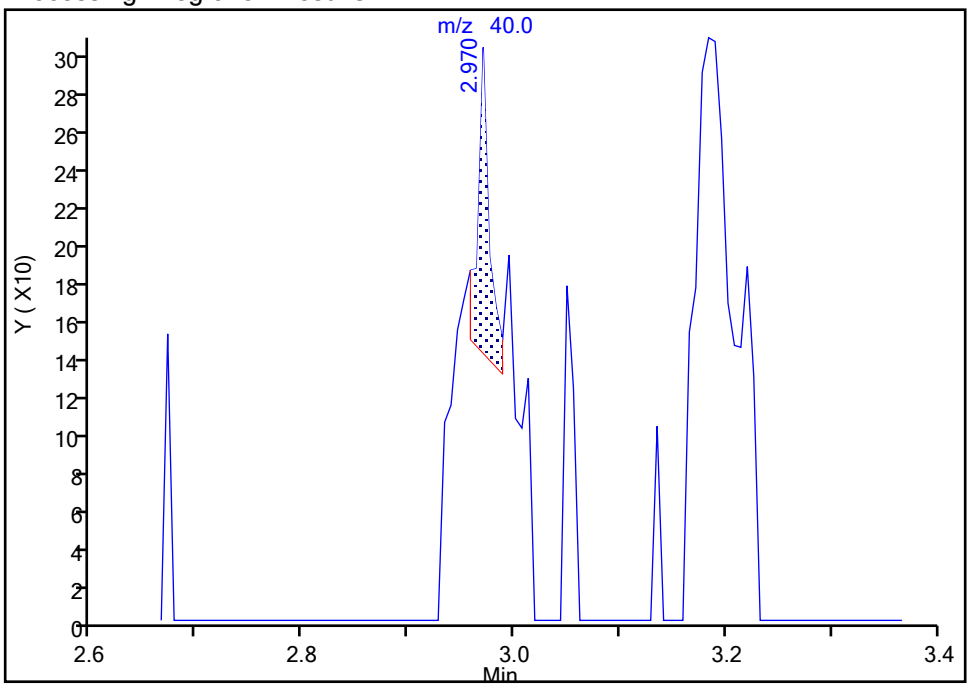
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

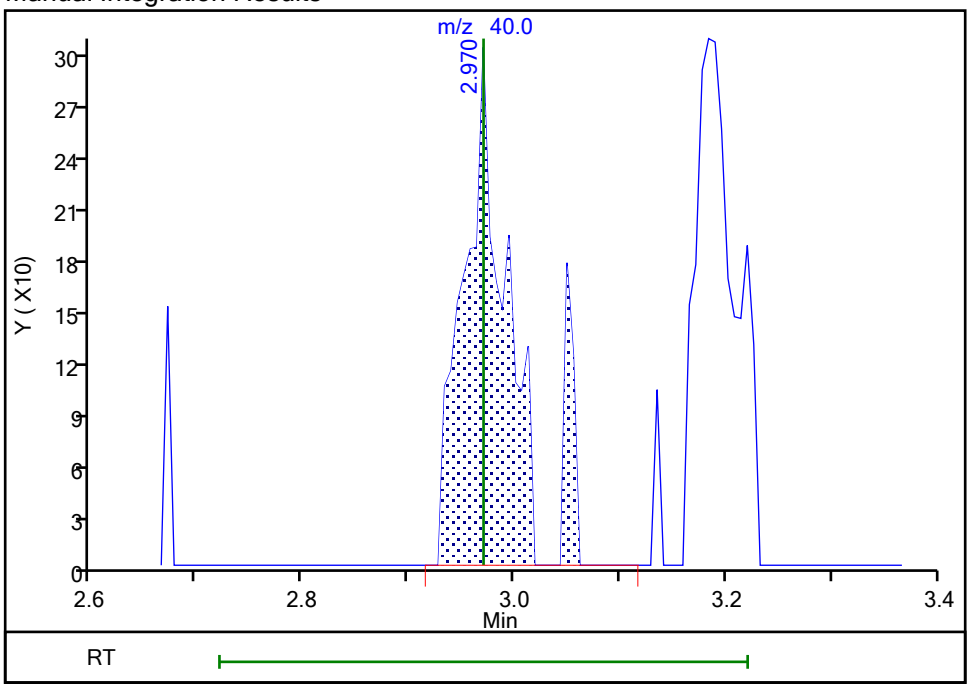
Processing Integration Results

RT: 2.97
Area: 124
Amount: 1.536645
Amount Units: ug/l



Manual Integration Results

RT: 2.97
Area: 918
Amount: 6.887842
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:25
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

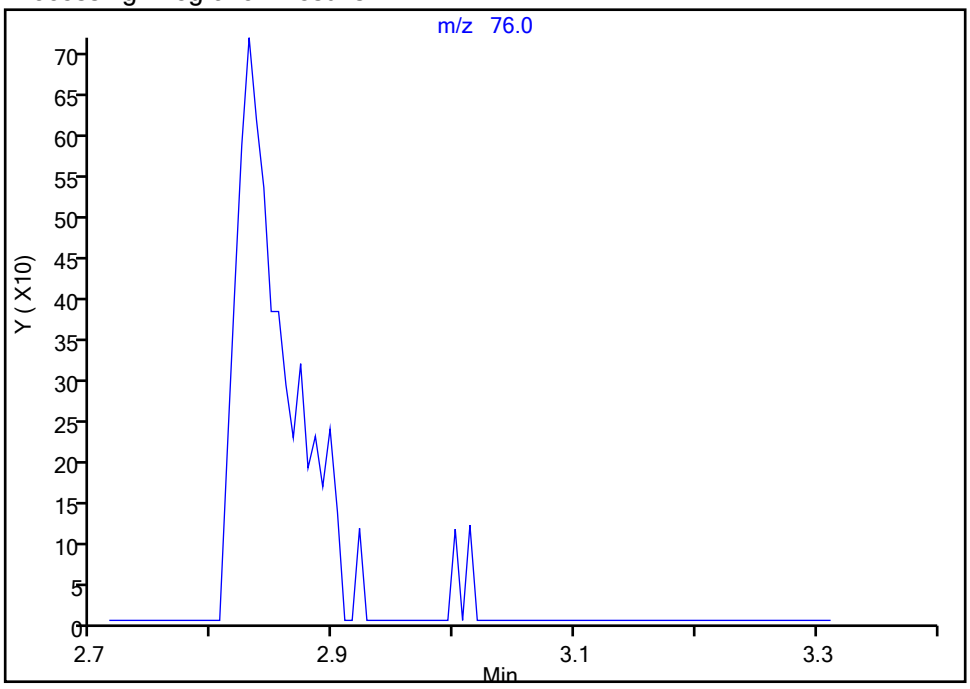
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

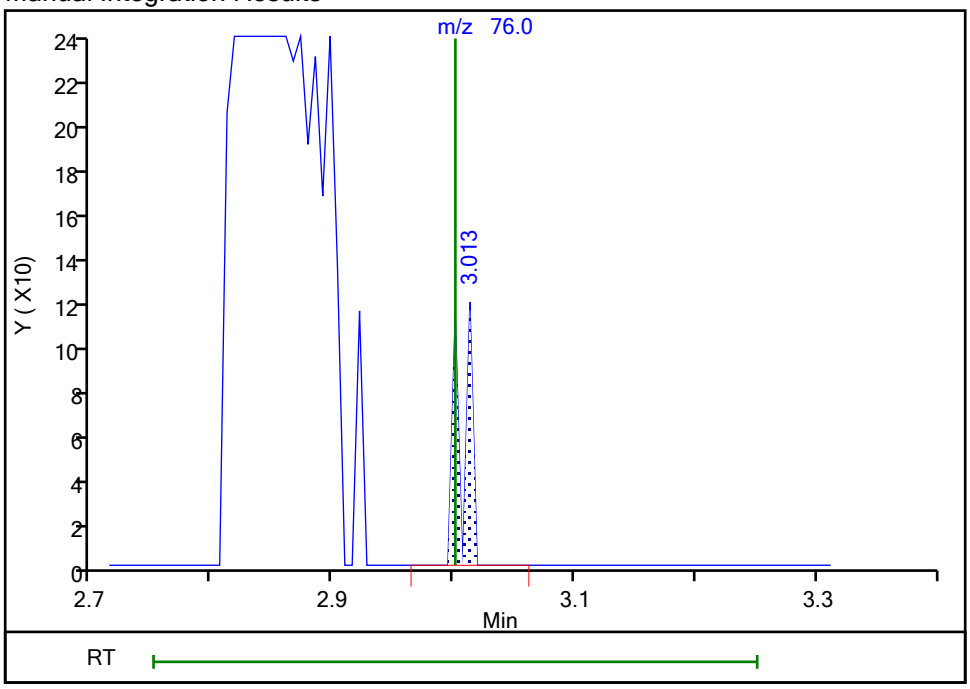
Not Detected
Expected RT: 3.00

Processing Integration Results



Manual Integration Results

RT: 3.01
Area: 84
Amount: 0.091595
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:32
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

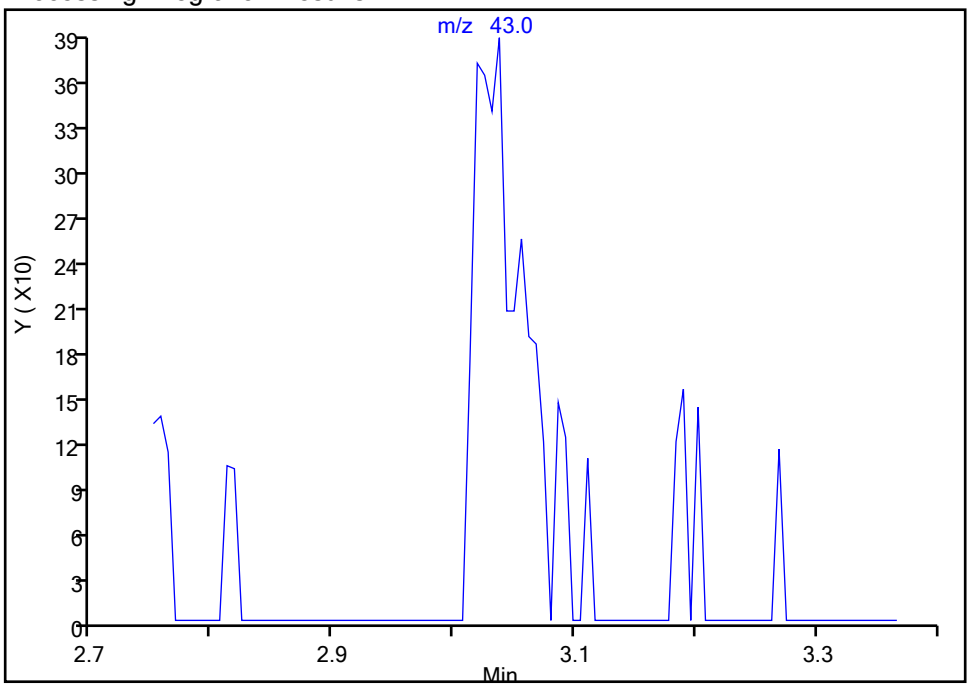
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

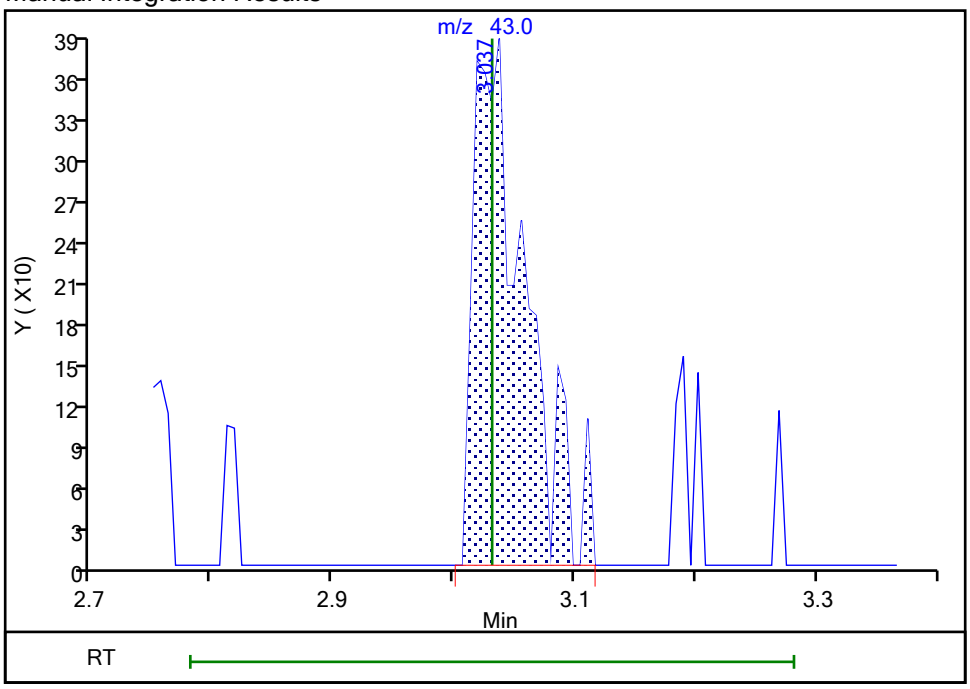
Not Detected
Expected RT: 3.03

Processing Integration Results



Manual Integration Results

RT: 3.04
Area: 1158
Amount: 1.188353
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:39
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

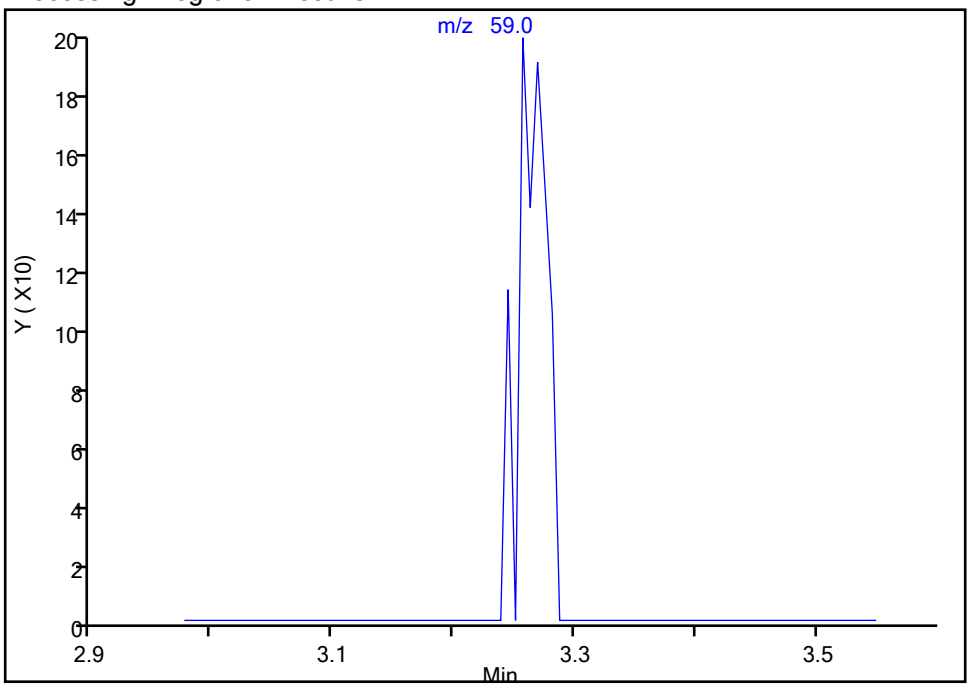
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

35 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

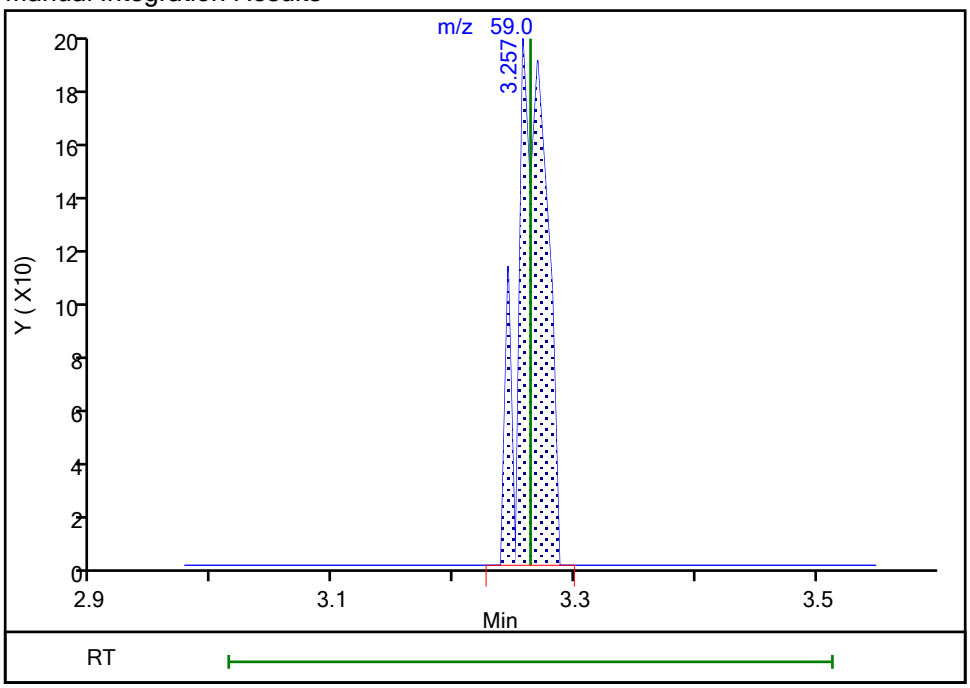
Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 316
Amount: 3.434125
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:57
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

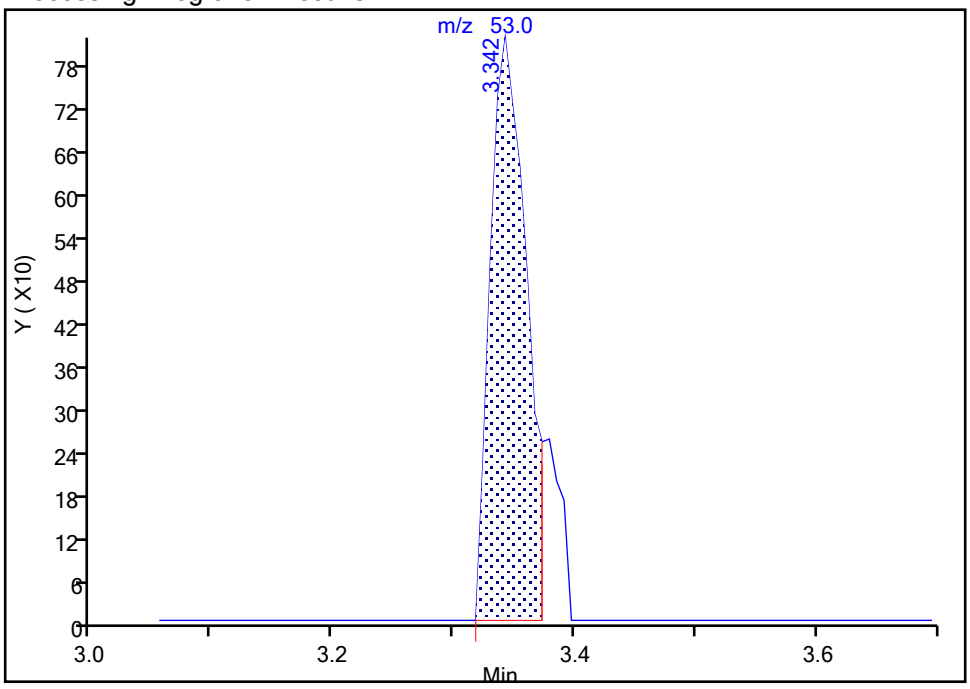
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

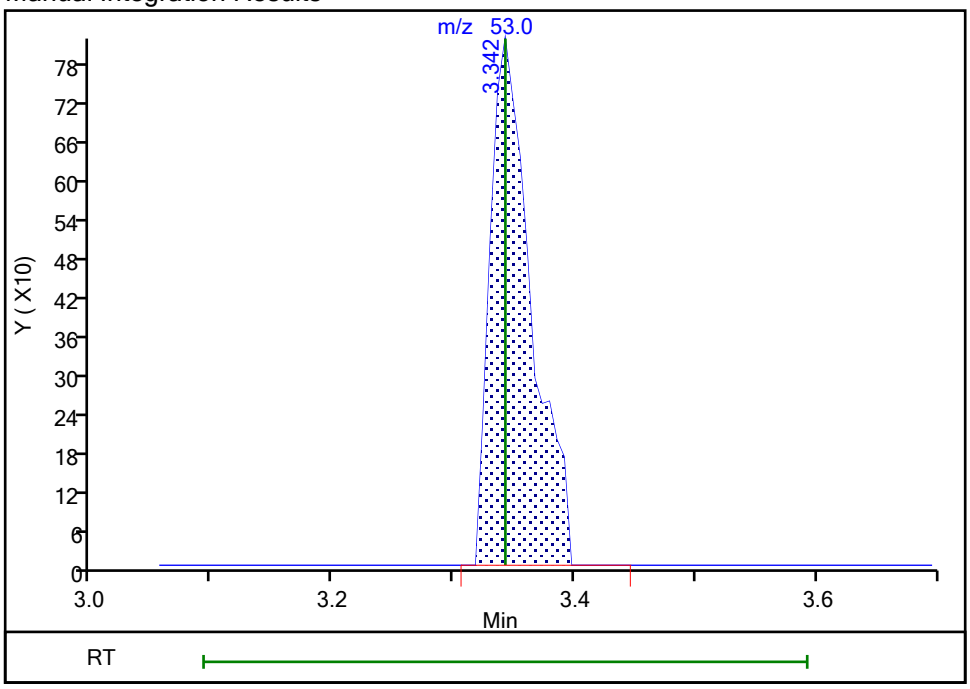
Processing Integration Results

RT: 3.34
Area: 1706
Amount: 3.499153
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 1932
Amount: 3.877055
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:03
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

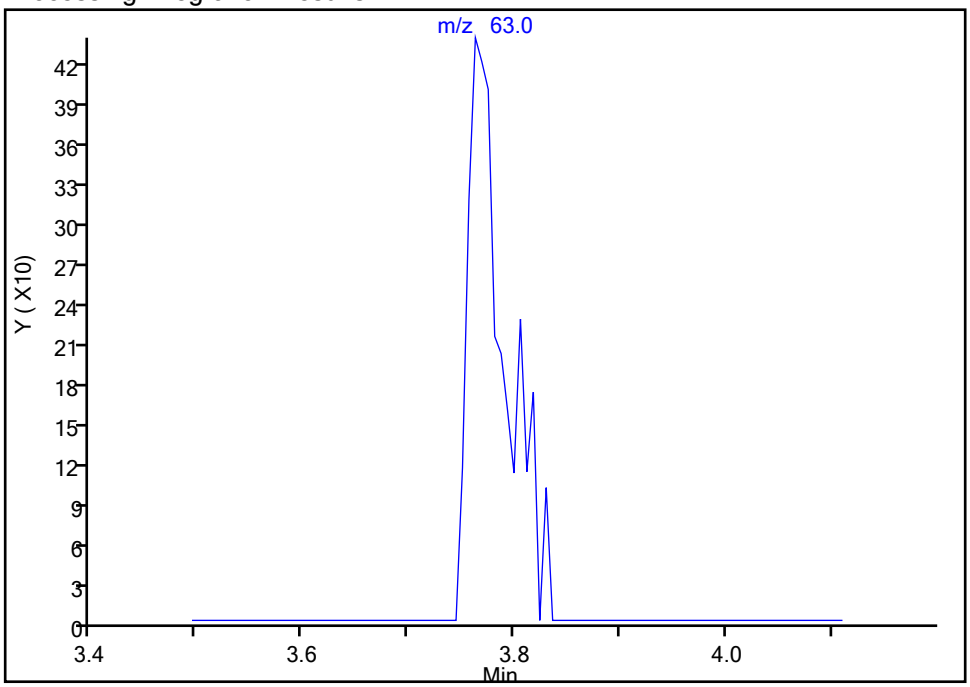
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

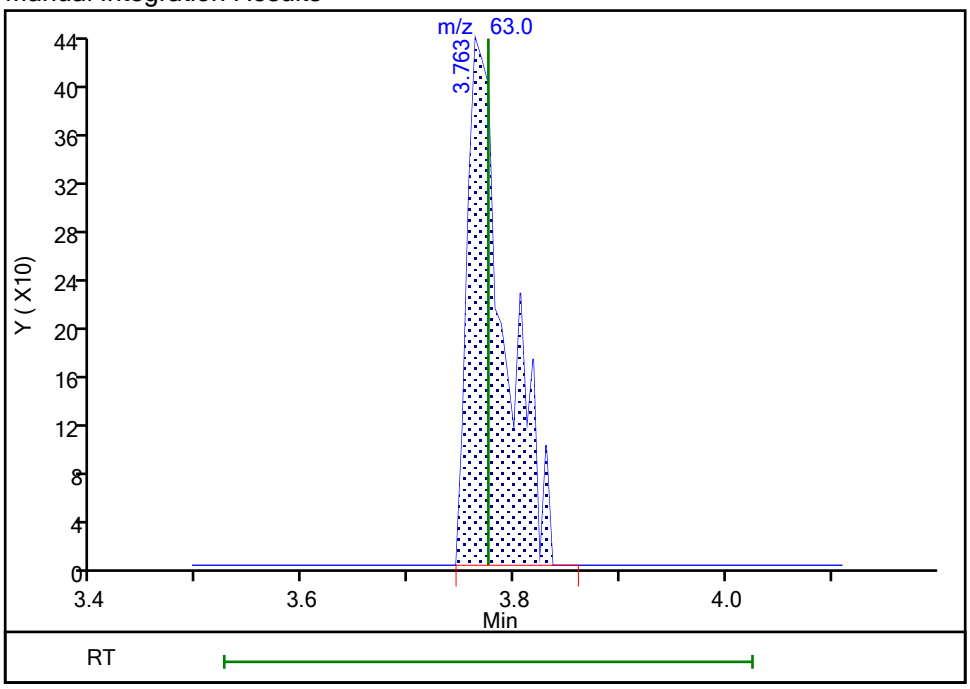
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 1093
Amount: 0.359927
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:19
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

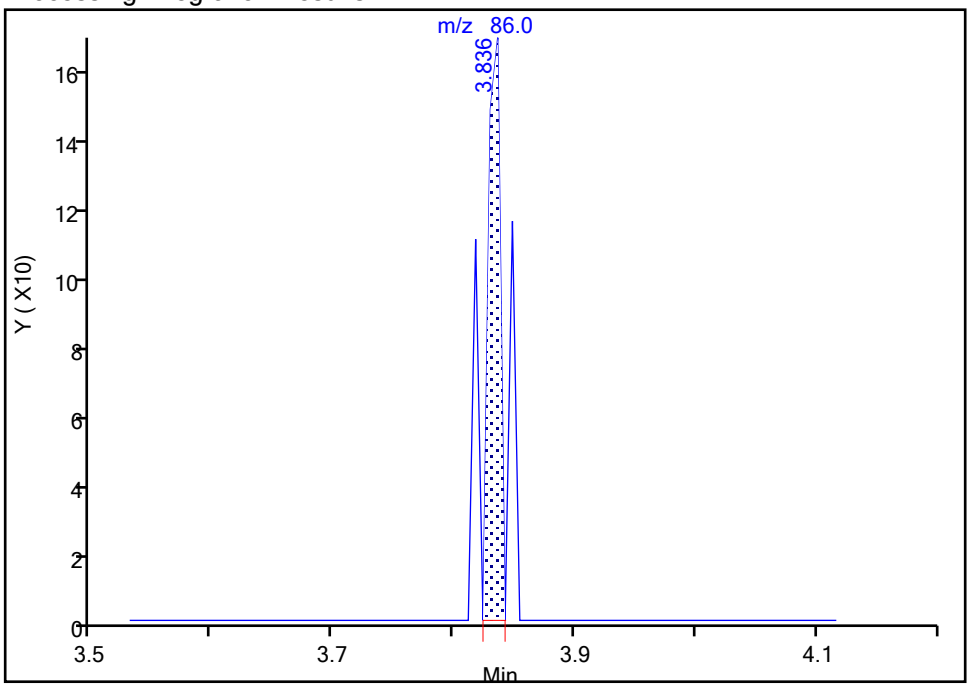
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

33 Vinyl acetate, CAS: 108-05-4

Signal: 1

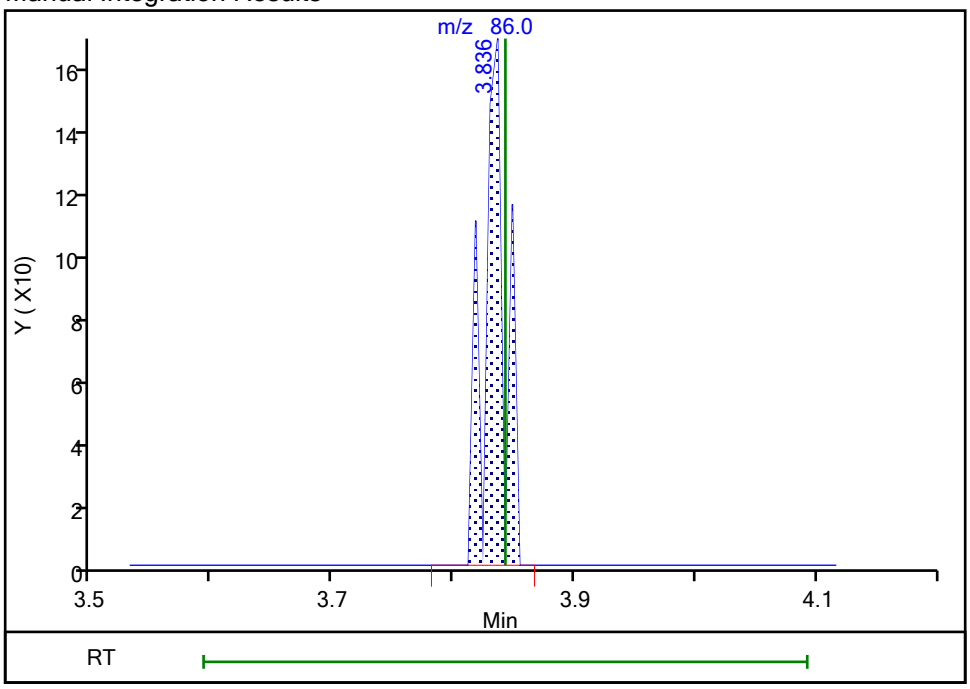
Processing Integration Results

RT: 3.84
Area: 111
Amount: 1.186618
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 191
Amount: 0.635123
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:27
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

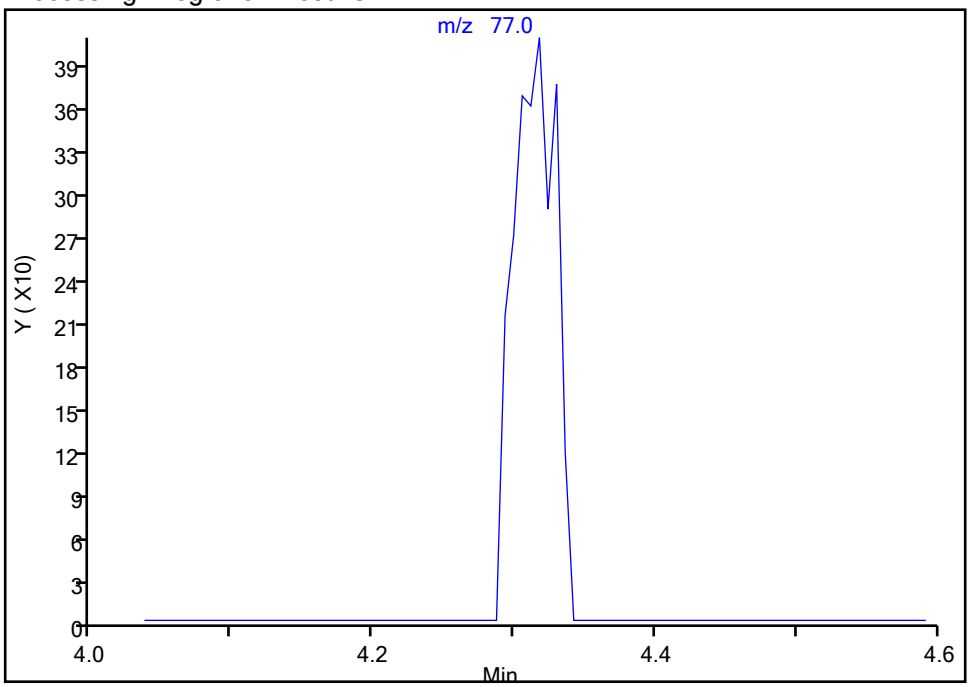
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

38 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

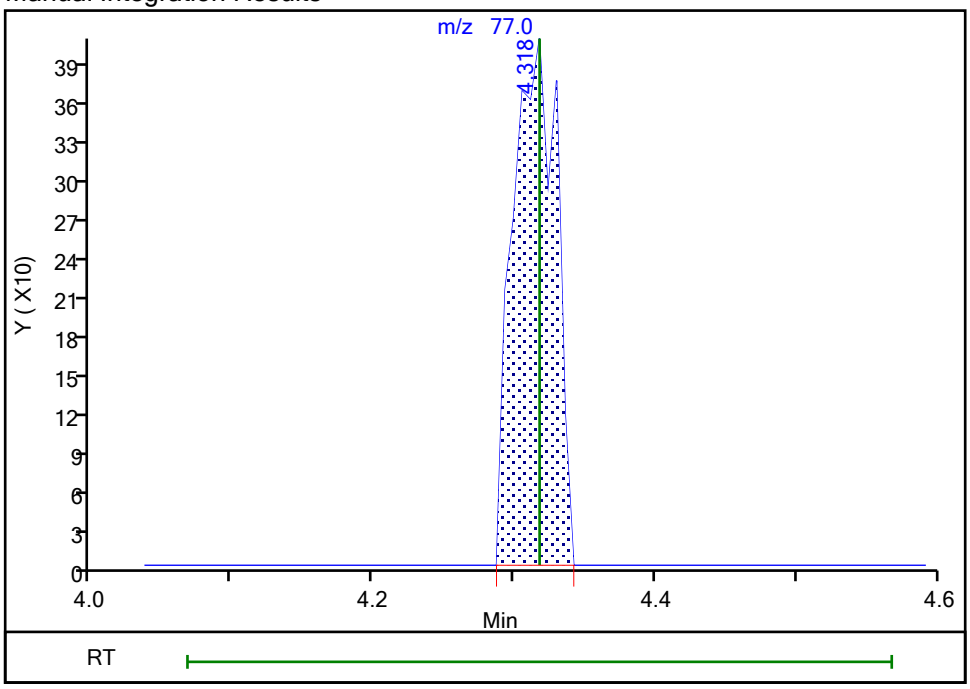
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 863
Amount: 0.360238
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:48
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

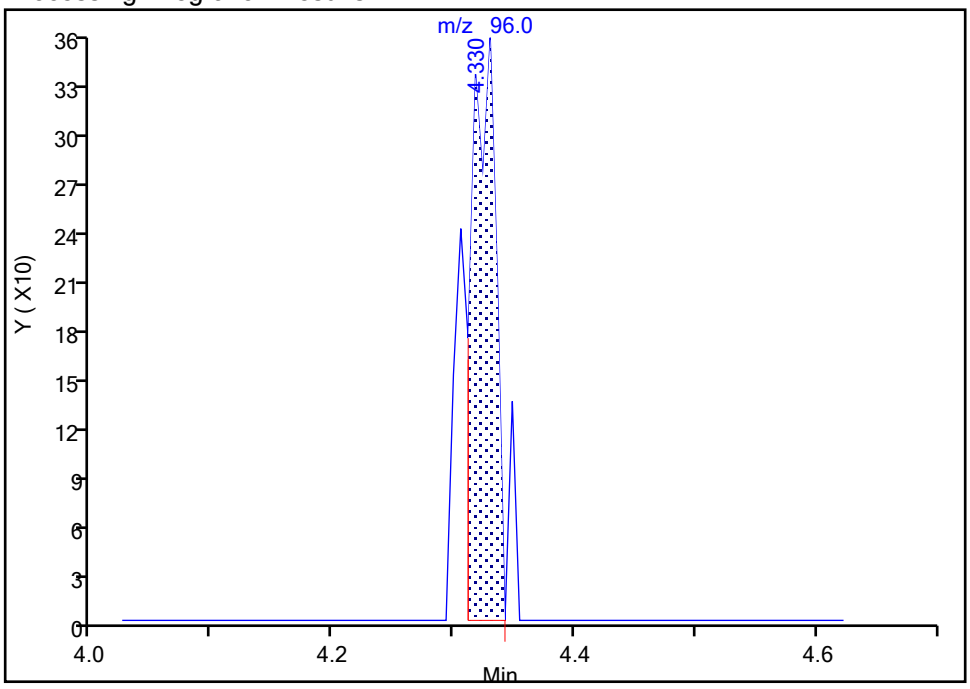
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

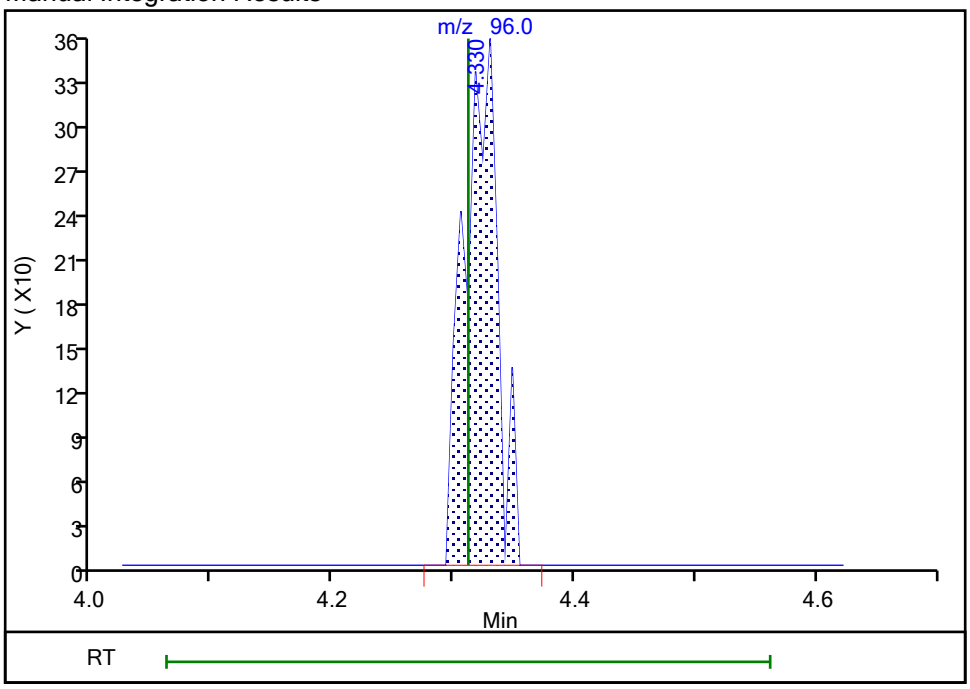
Processing Integration Results

RT: 4.33
Area: 482
Amount: 0.612475
Amount Units: ug/l



Manual Integration Results

RT: 4.33
Area: 671
Amount: 0.362188
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:40
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

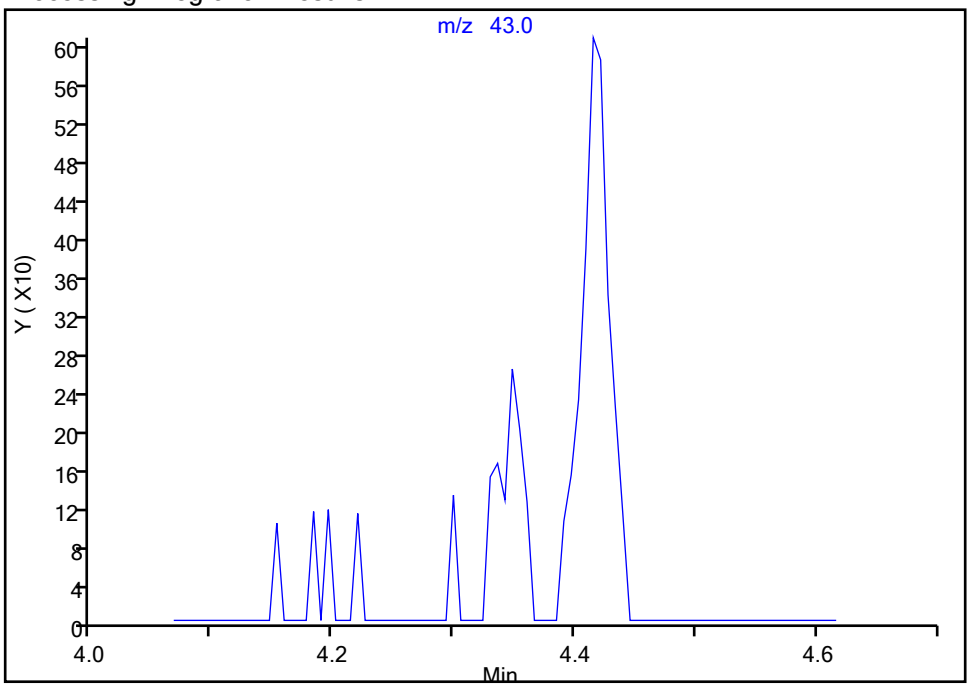
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

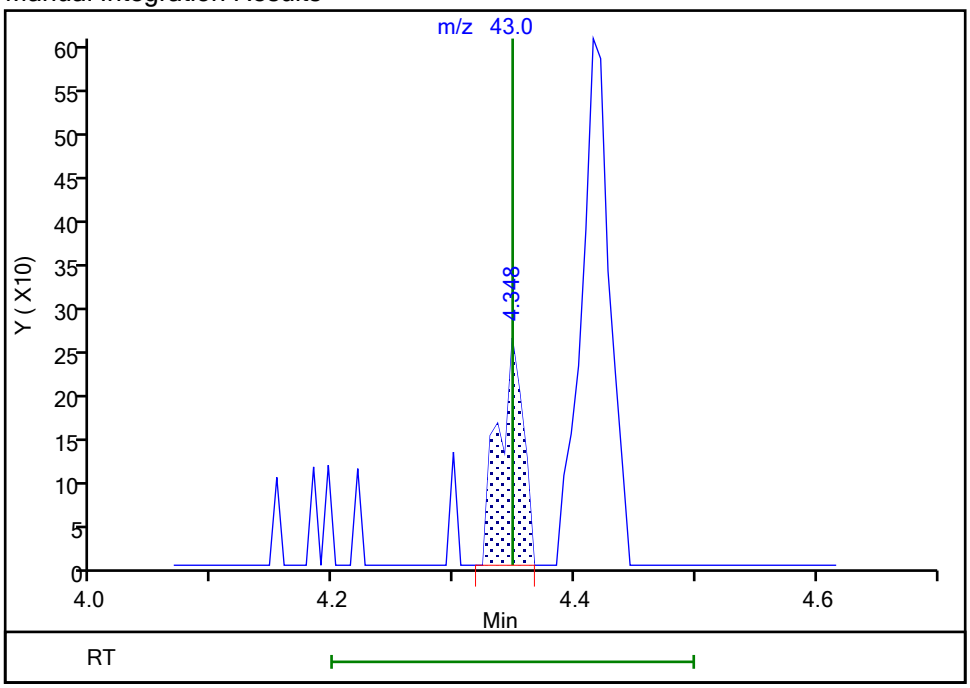
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 373
Amount: 0.645345
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:06:01
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

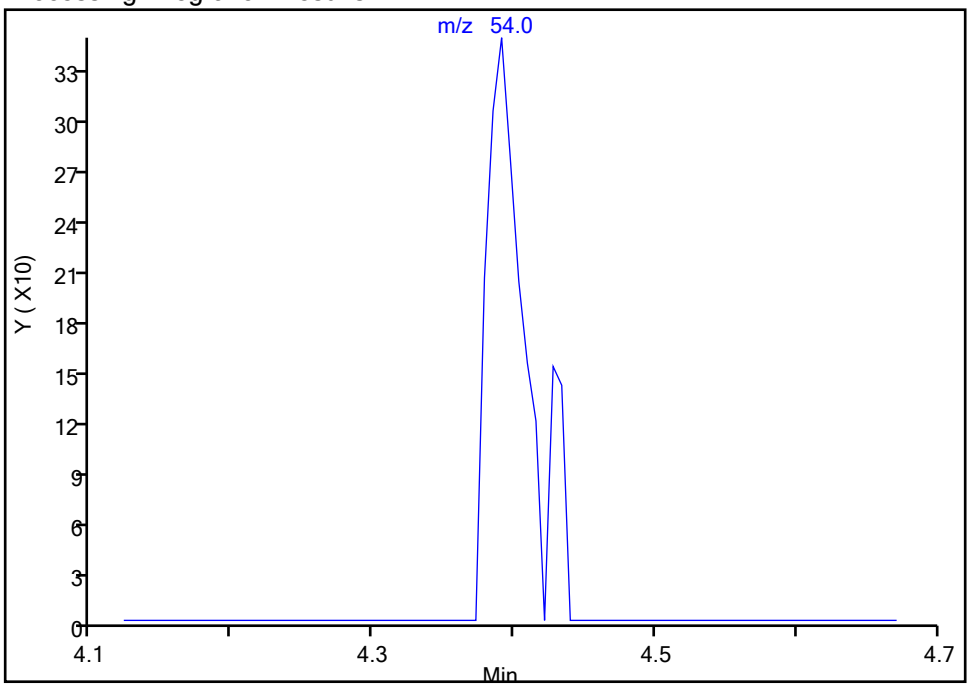
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

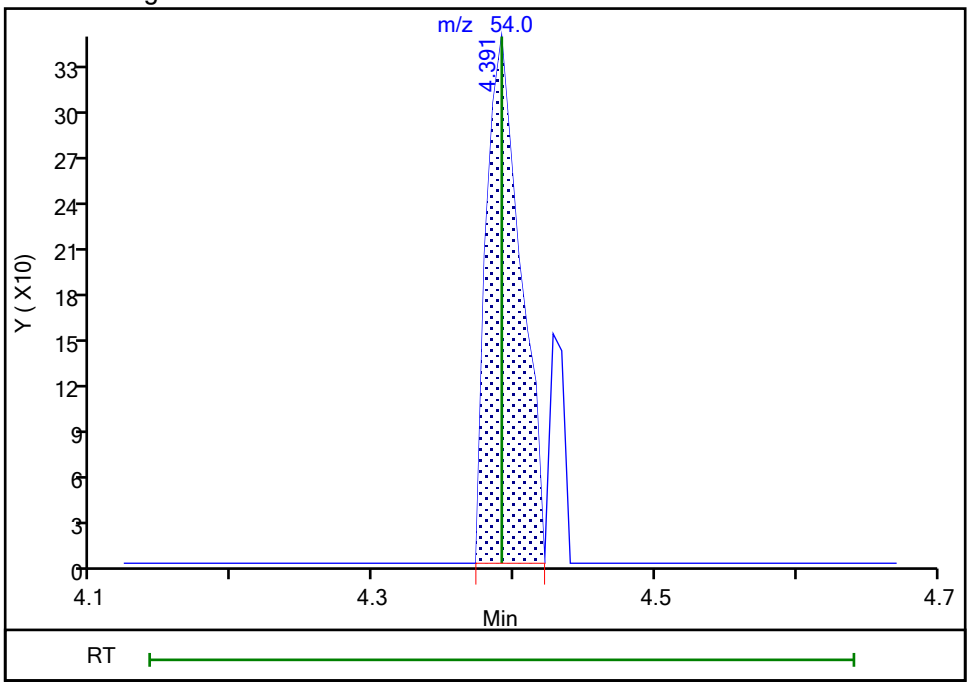
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 578
Amount: 2.917021
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:06:08
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

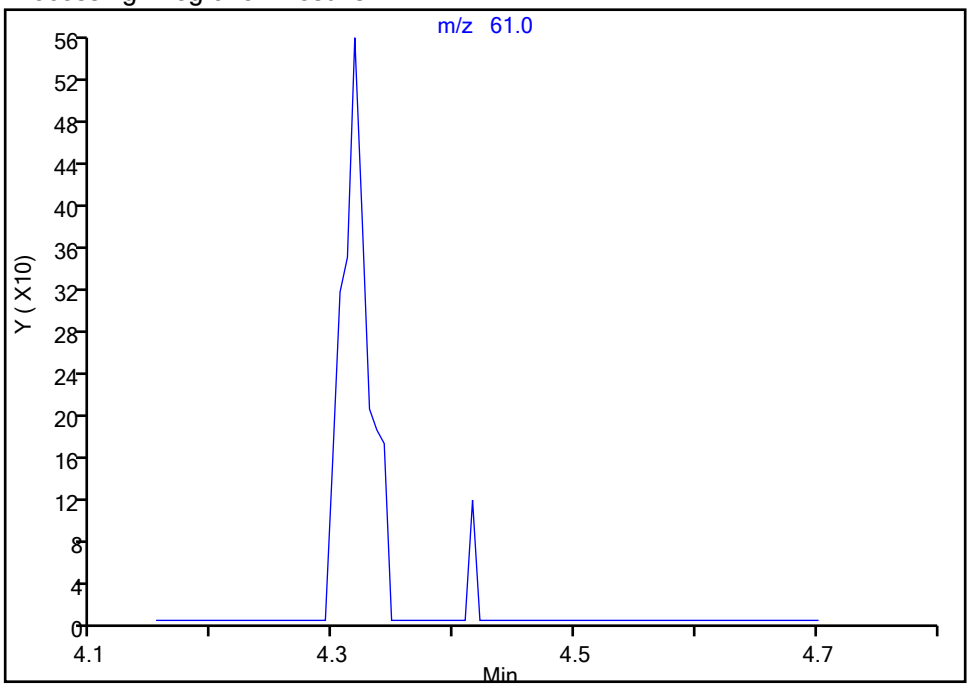
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

104 Ethyl acetate, CAS: 141-78-6

Signal: 1

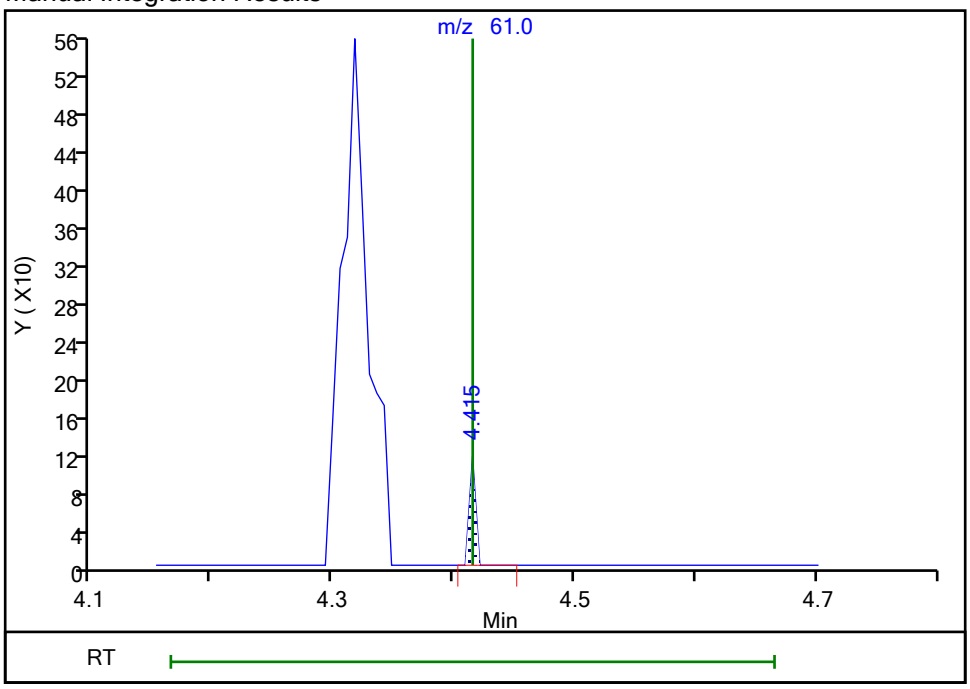
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 42
Amount: 0.185134
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:06:21
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

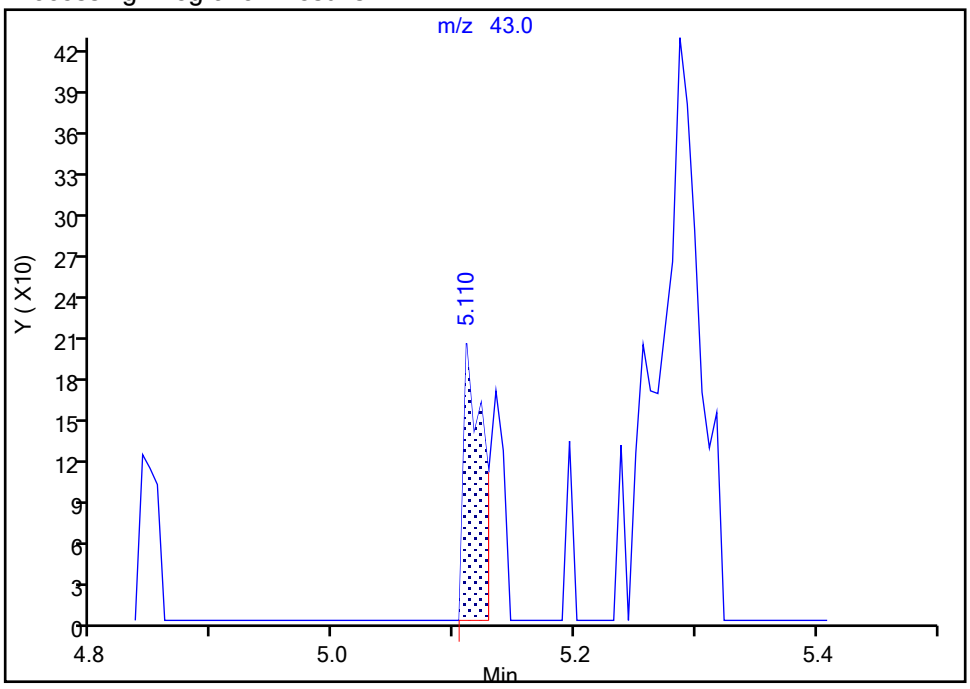
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

108 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

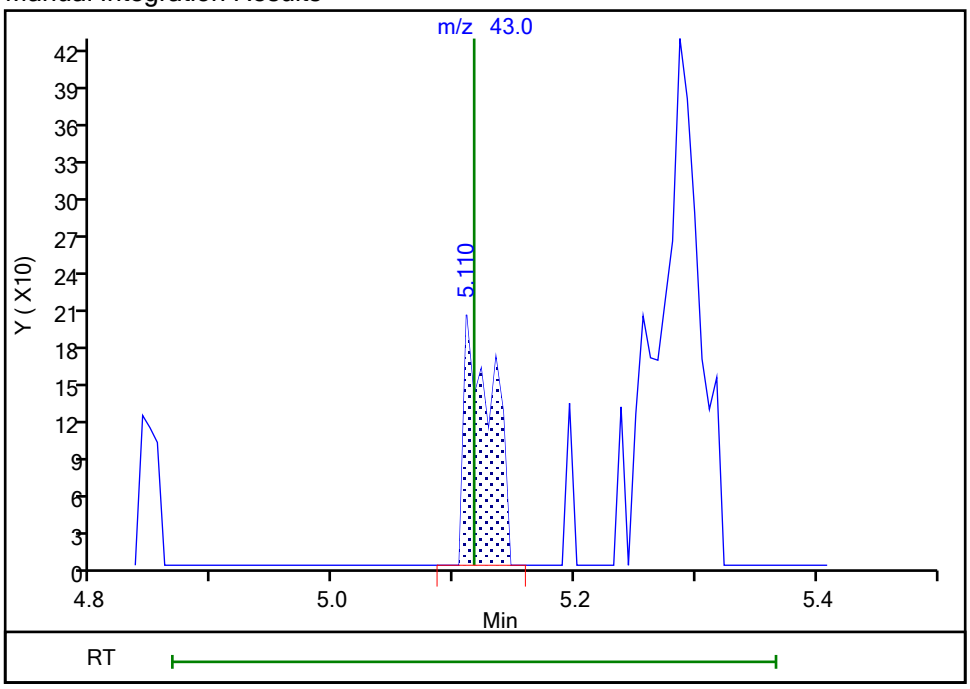
Processing Integration Results

RT: 5.11
Area: 223
Amount: 4.831655
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 331
Amount: 6.734701
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:05
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

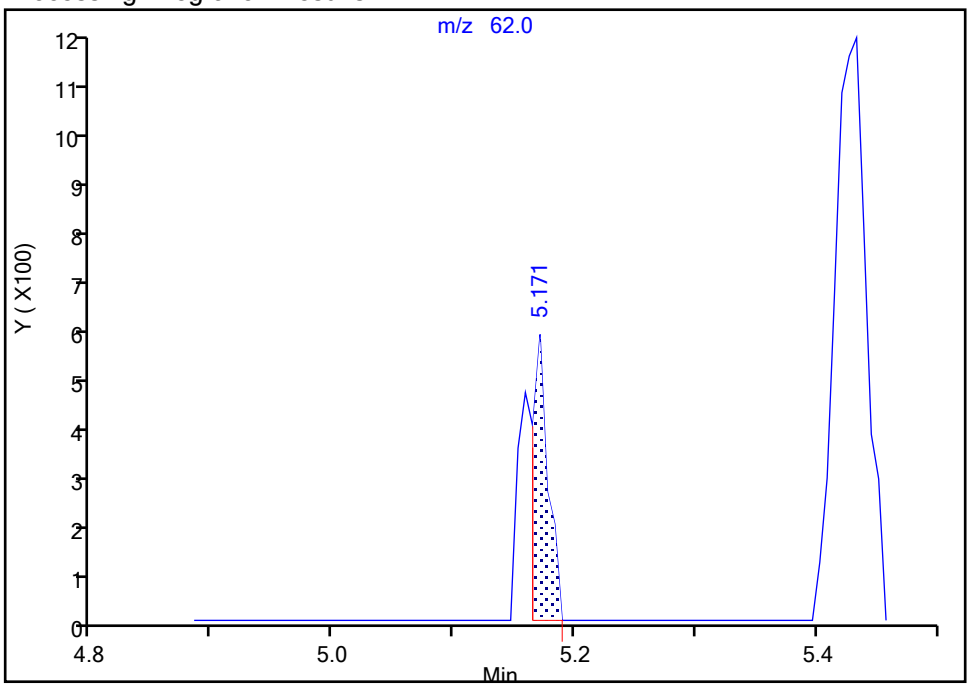
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

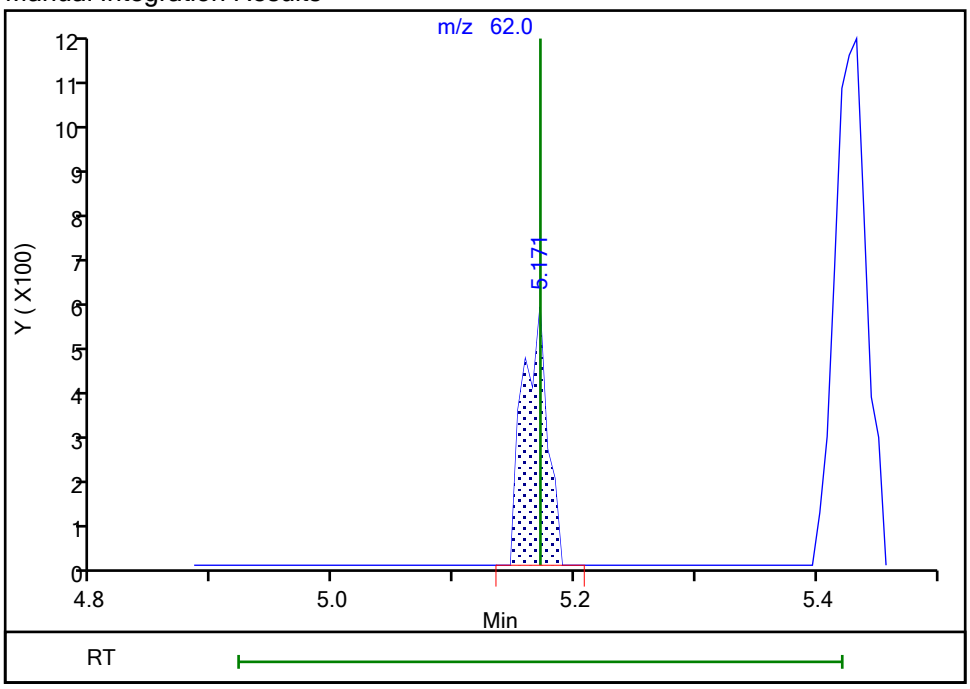
Processing Integration Results

RT: 5.17
Area: 520
Amount: 0.427781
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 814
Amount: 0.360757
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:15
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

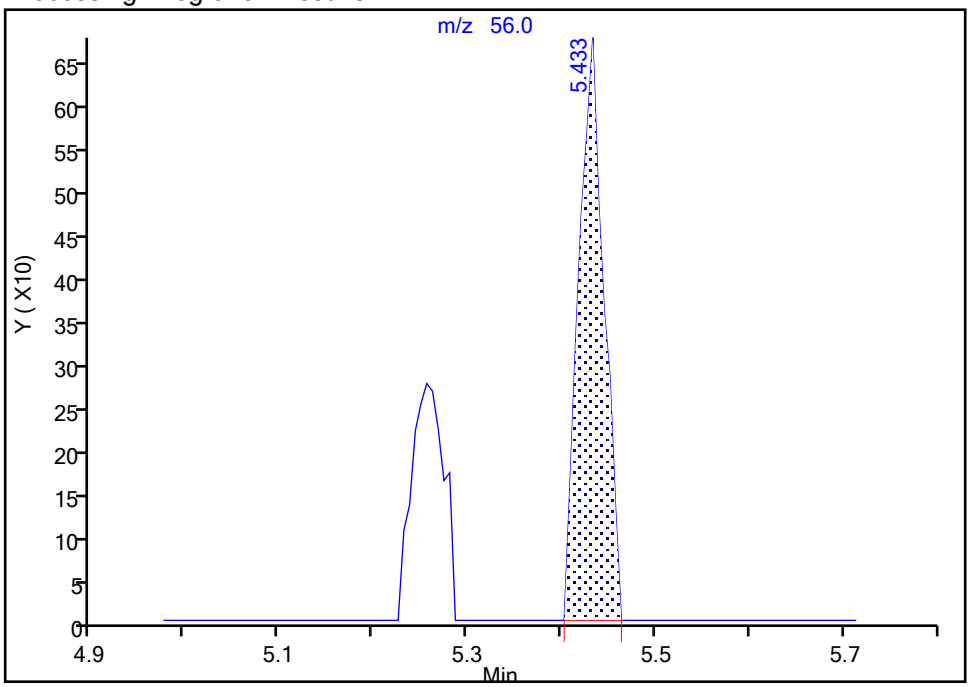
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

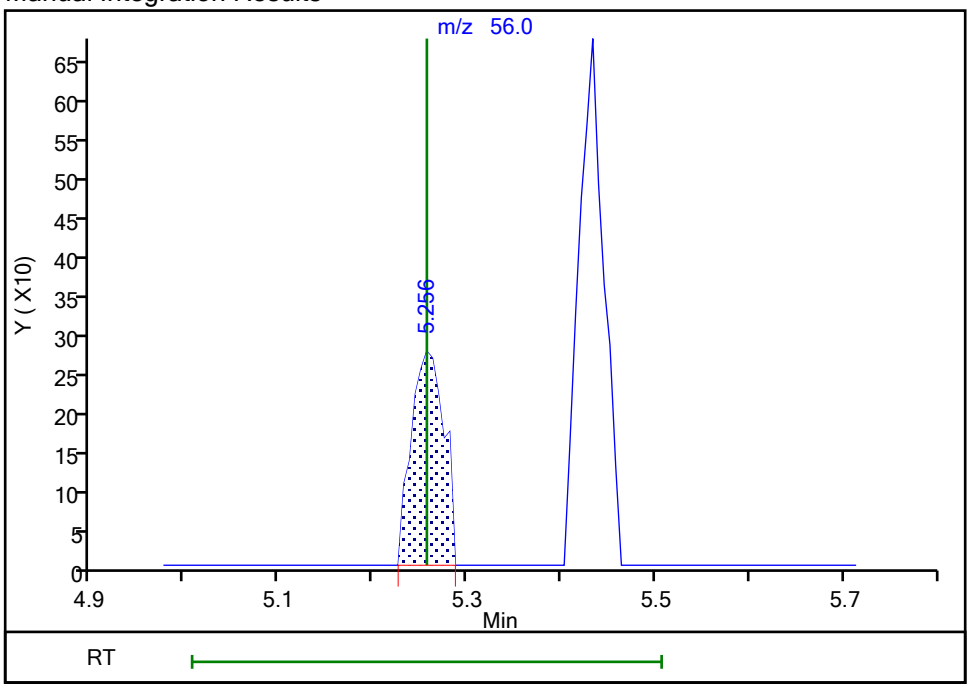
Processing Integration Results

RT: 5.43
Area: 1269
Amount: 73.519097
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 664
Amount: 9.580622
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:23
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

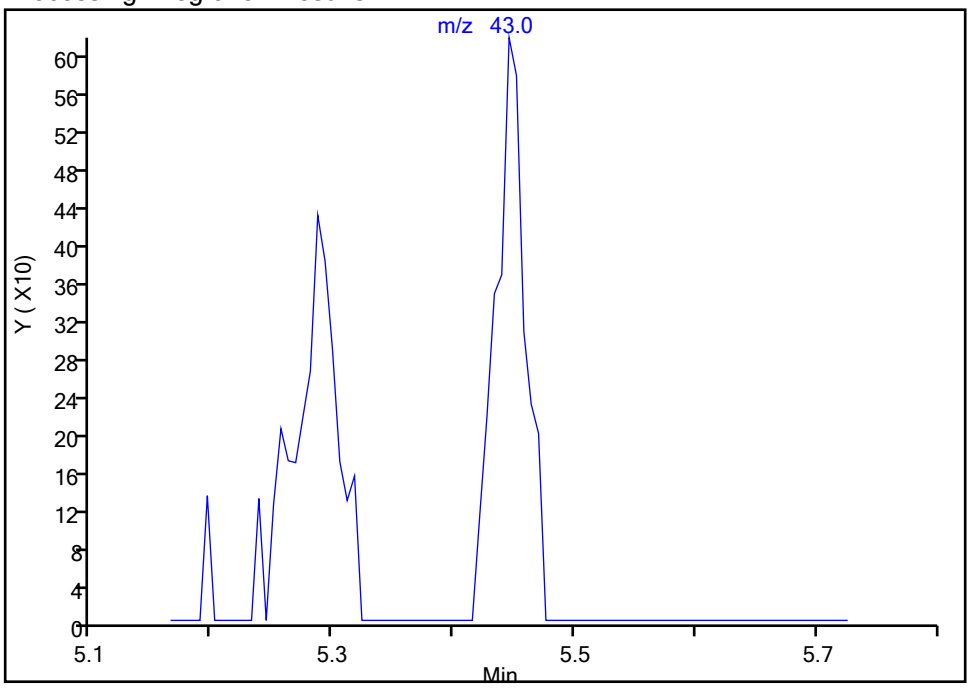
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

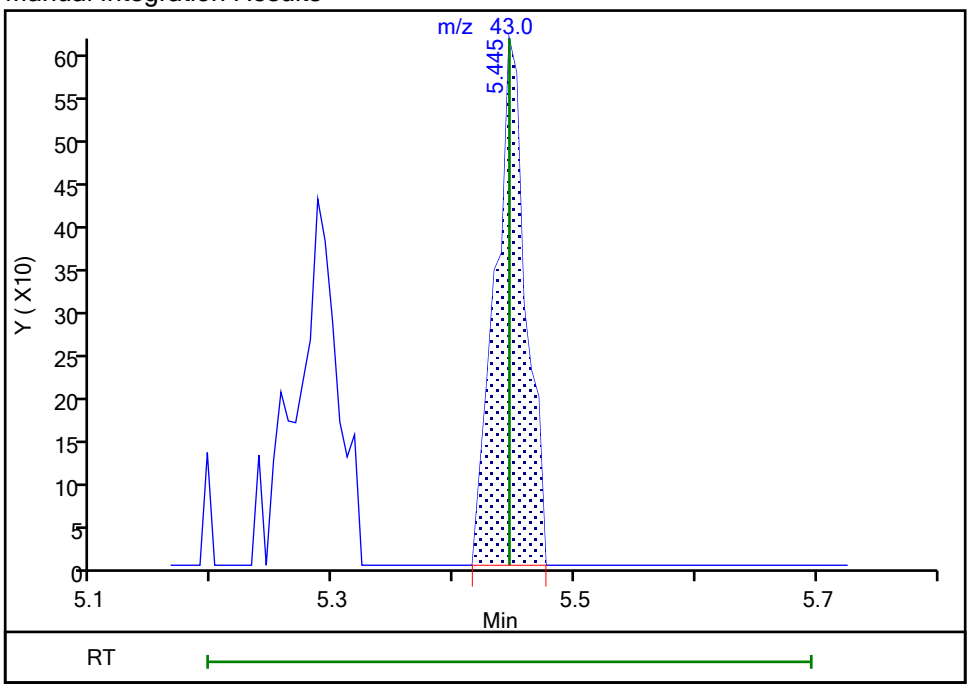
Not Detected
Expected RT: 5.45

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 1085
Amount: 0.489545
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:30
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

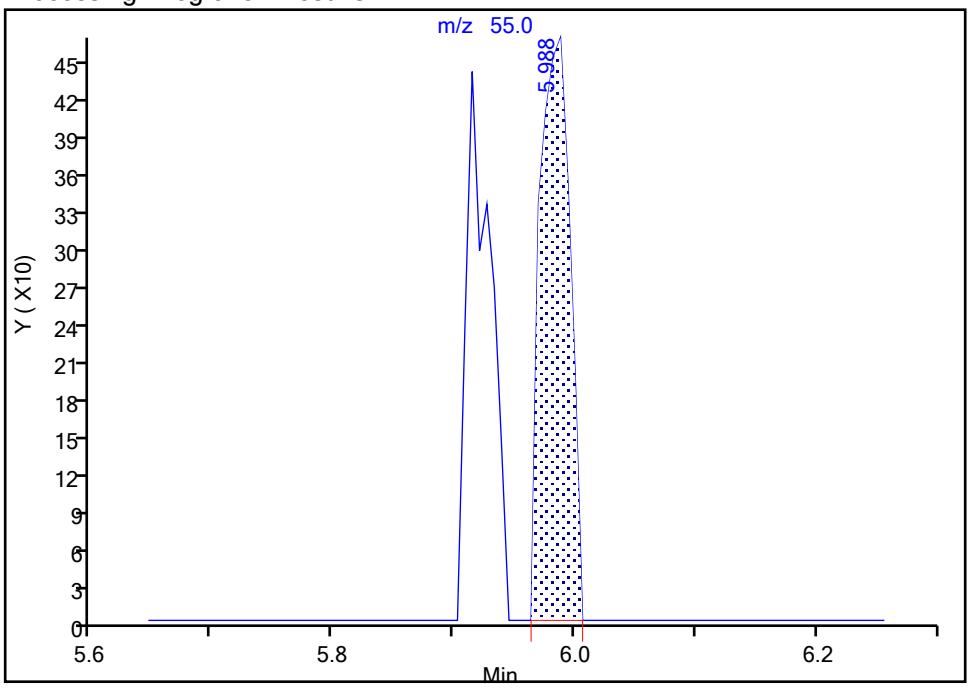
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

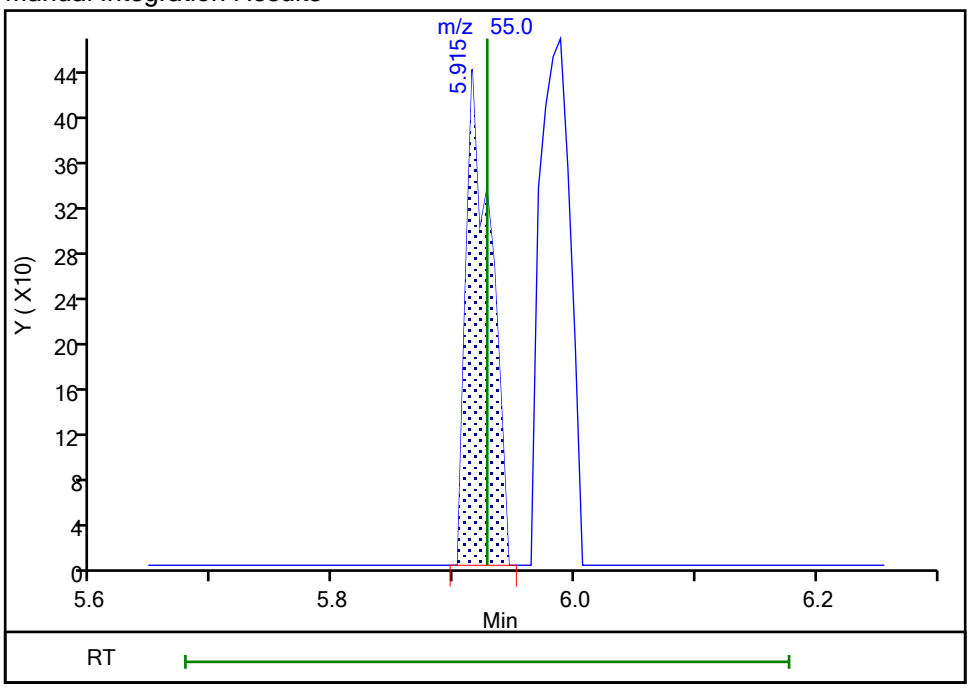
Processing Integration Results

RT: 5.99
Area: 804
Amount: 0.460762
Amount Units: ug/l



Manual Integration Results

RT: 5.91
Area: 622
Amount: 0.361093
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:45
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

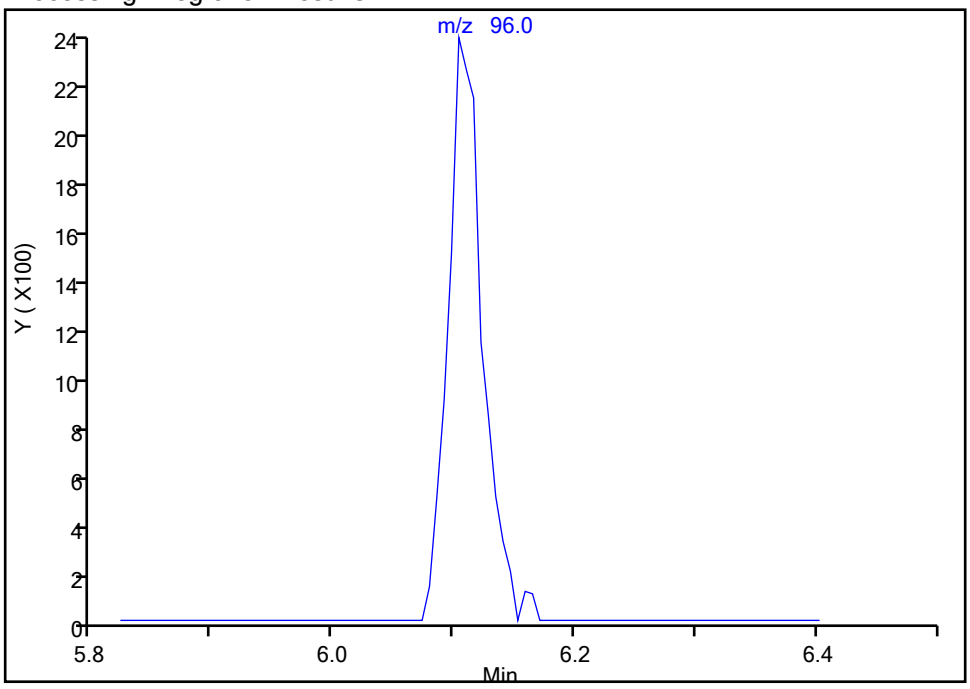
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

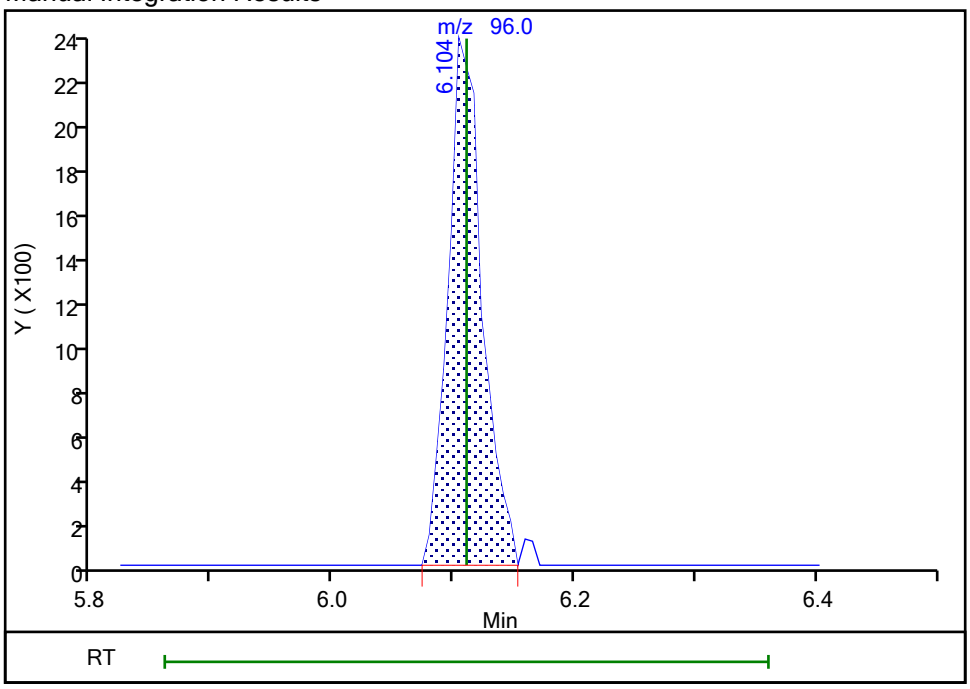
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 4669
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:02:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

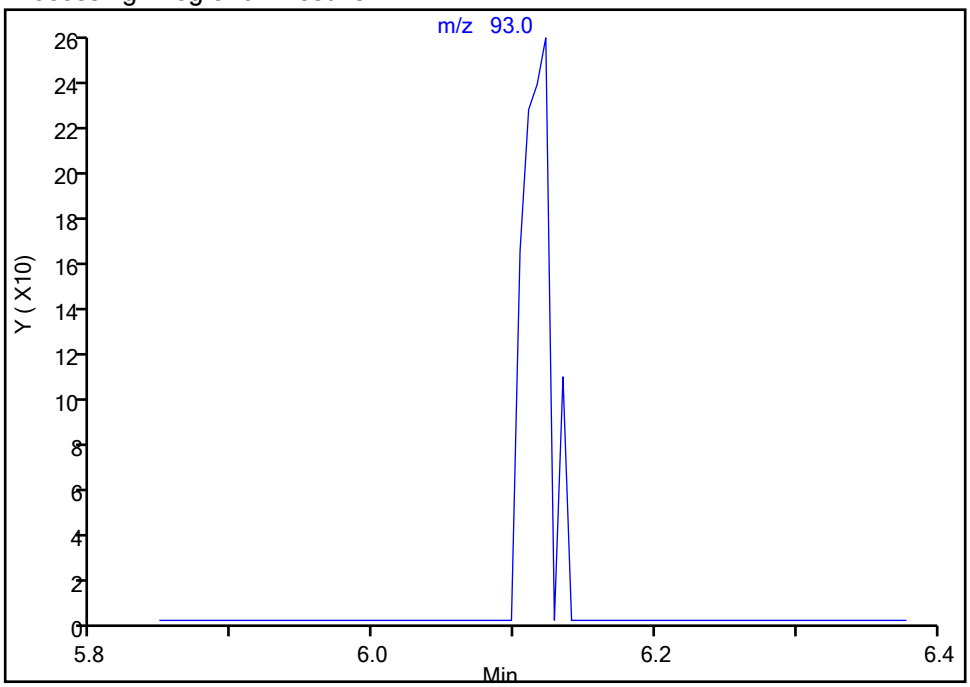
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

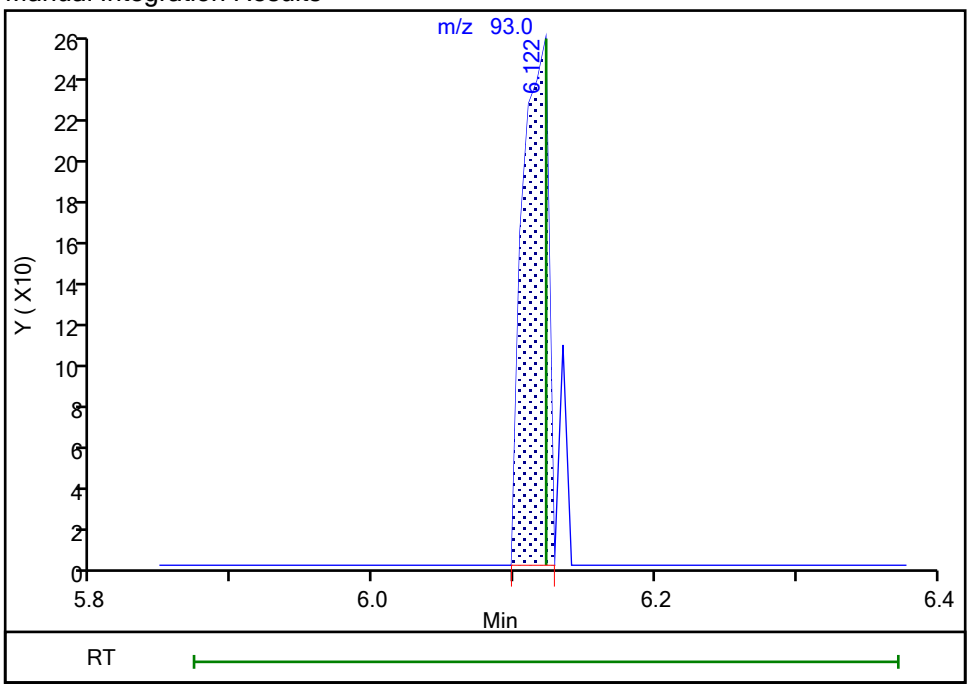
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 315
Amount: 0.340483
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:54
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

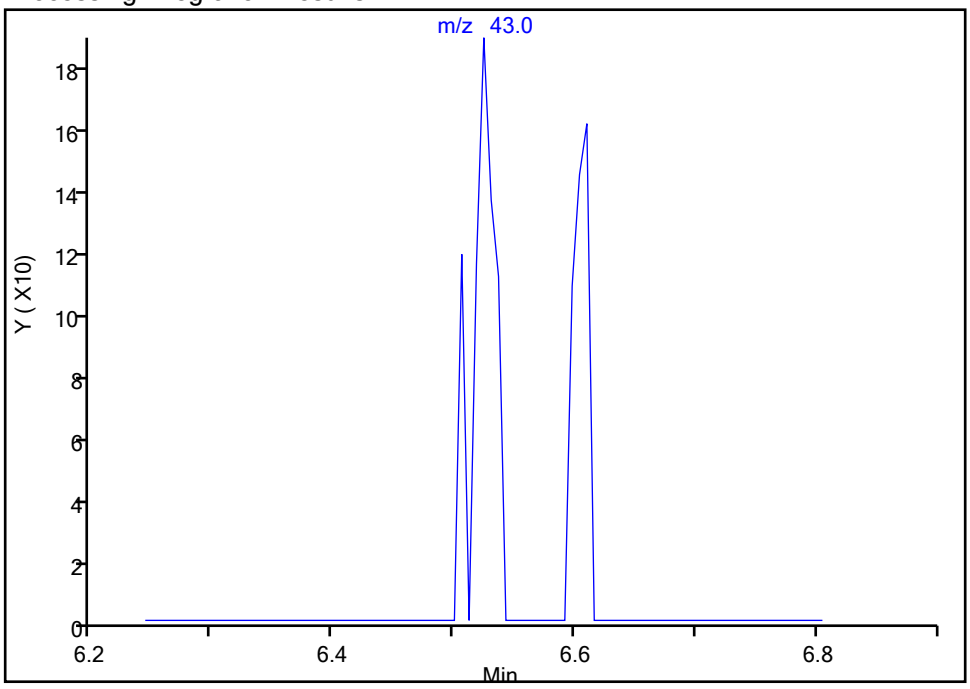
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

106 2-Nitropropane, CAS: 79-46-9

Signal: 1

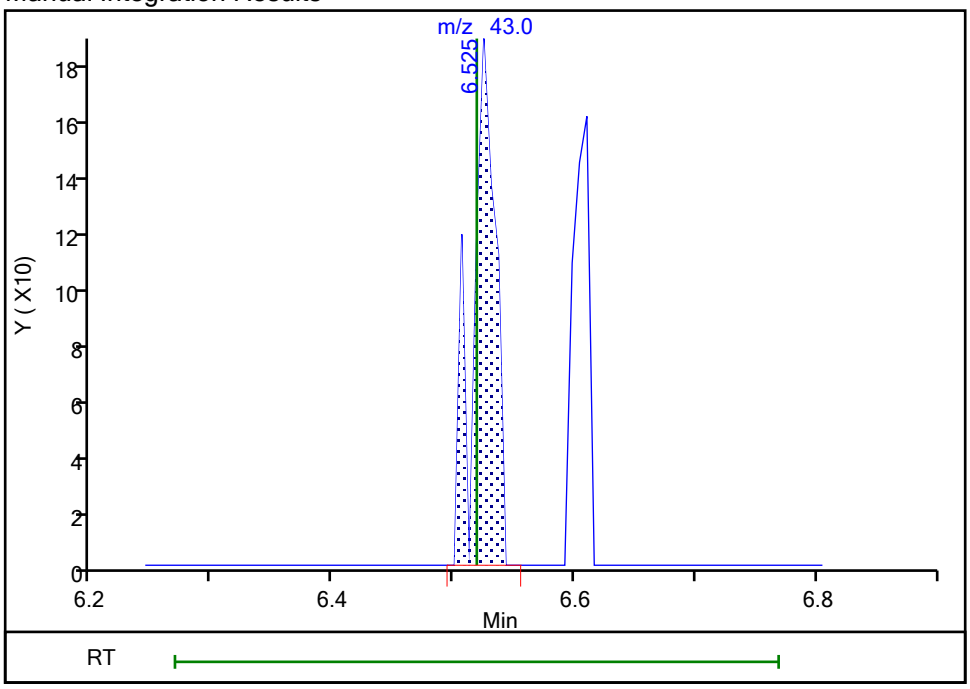
Not Detected
Expected RT: 6.52

Processing Integration Results



Manual Integration Results

RT: 6.52
Area: 238
Amount: 0.779197
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:07
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

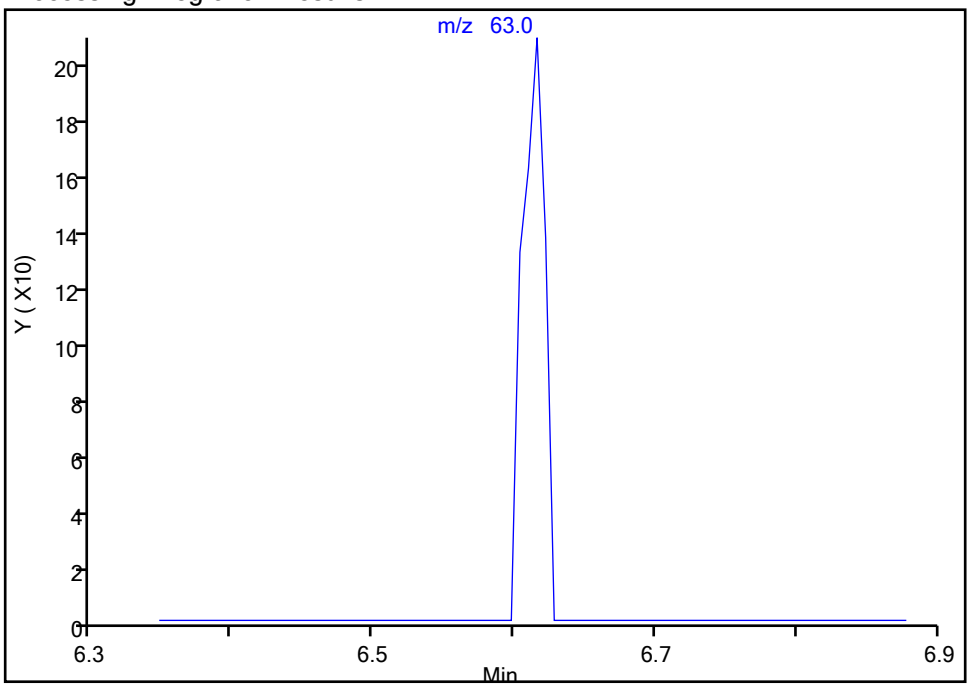
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

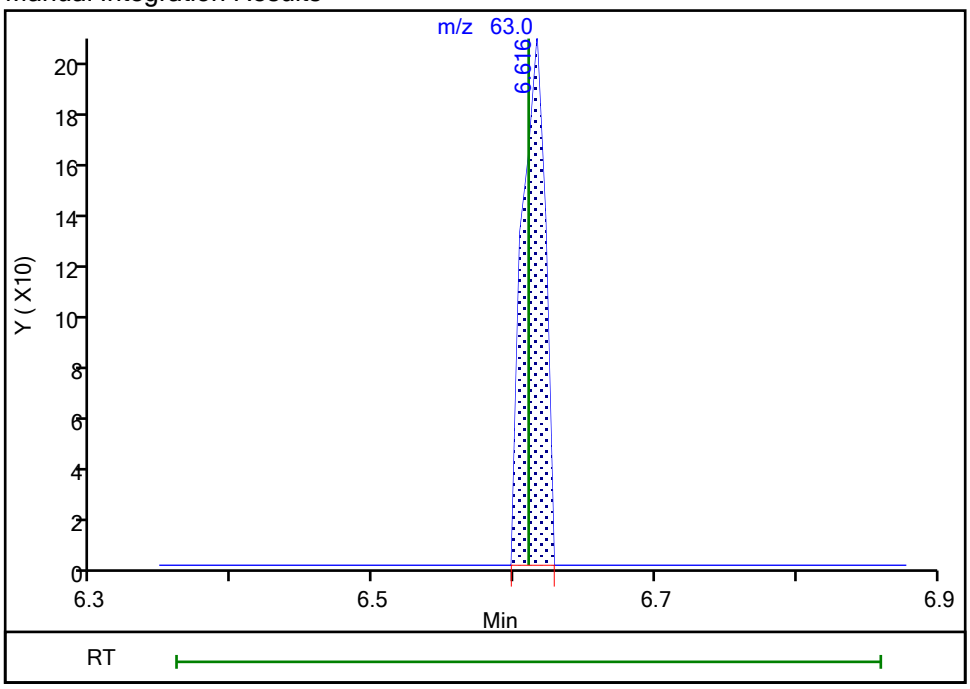
Not Detected
Expected RT: 6.61

Processing Integration Results



Manual Integration Results

RT: 6.62
Area: 225
Amount: 0.232935
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:15
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

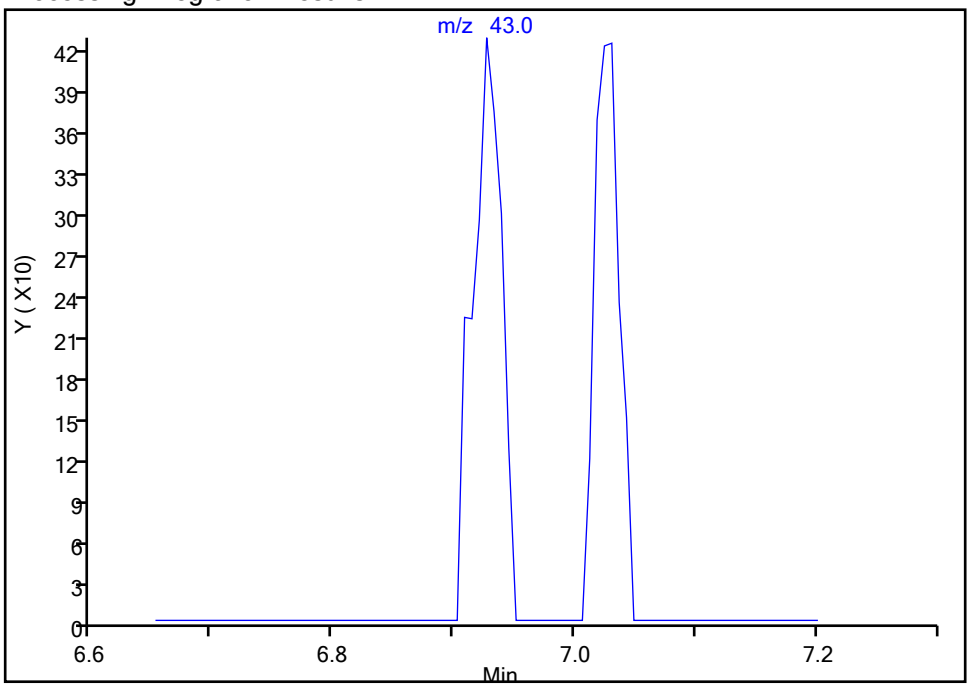
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

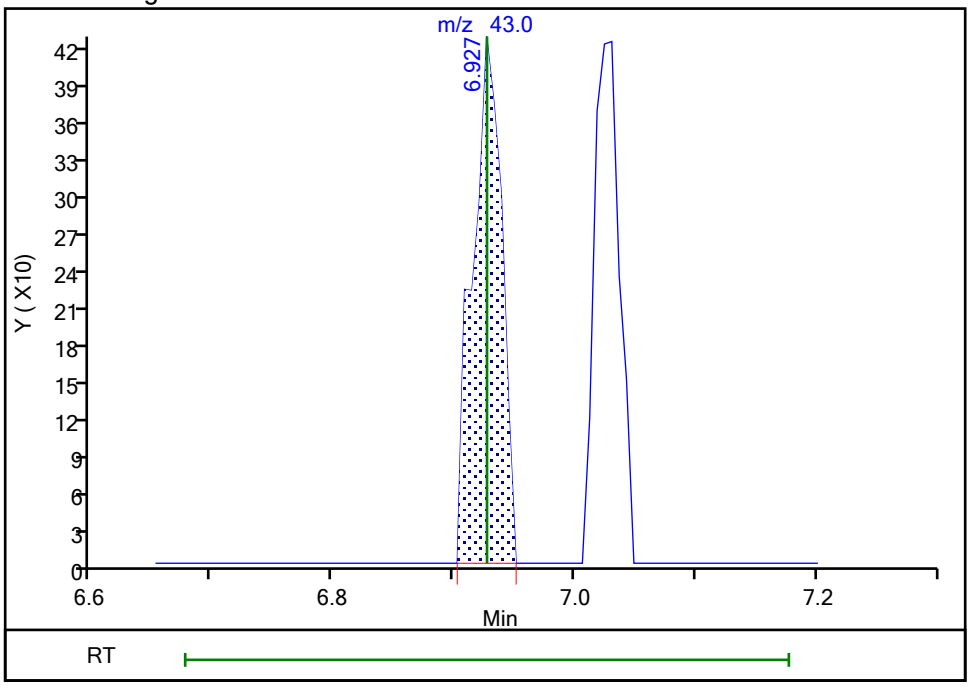
Not Detected
Expected RT: 6.93

Processing Integration Results



Manual Integration Results

RT: 6.93
Area: 714
Amount: 0.536558
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:25
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

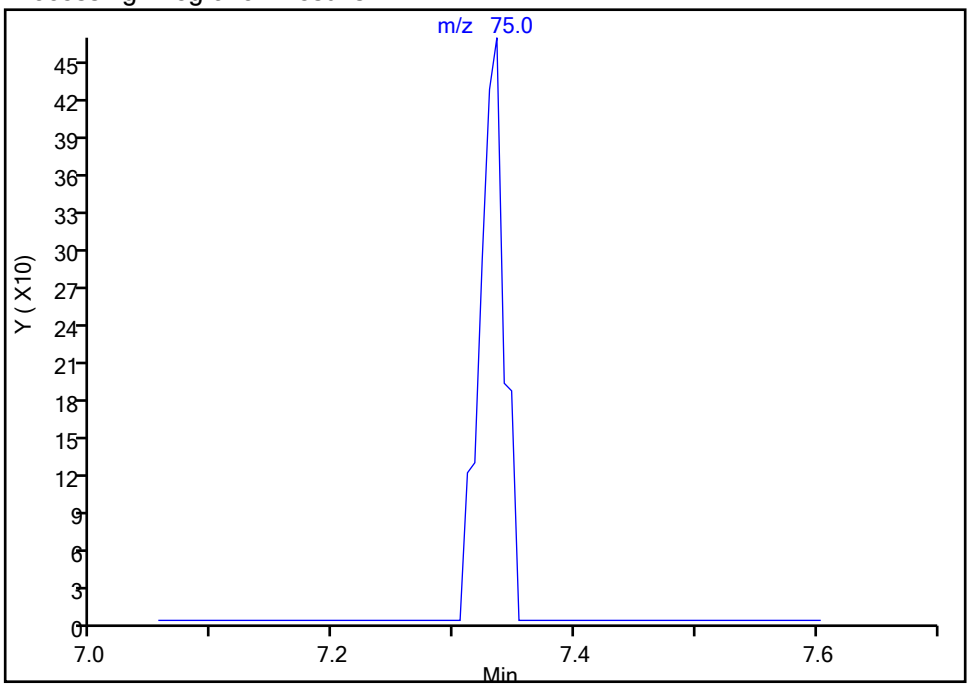
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

63 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

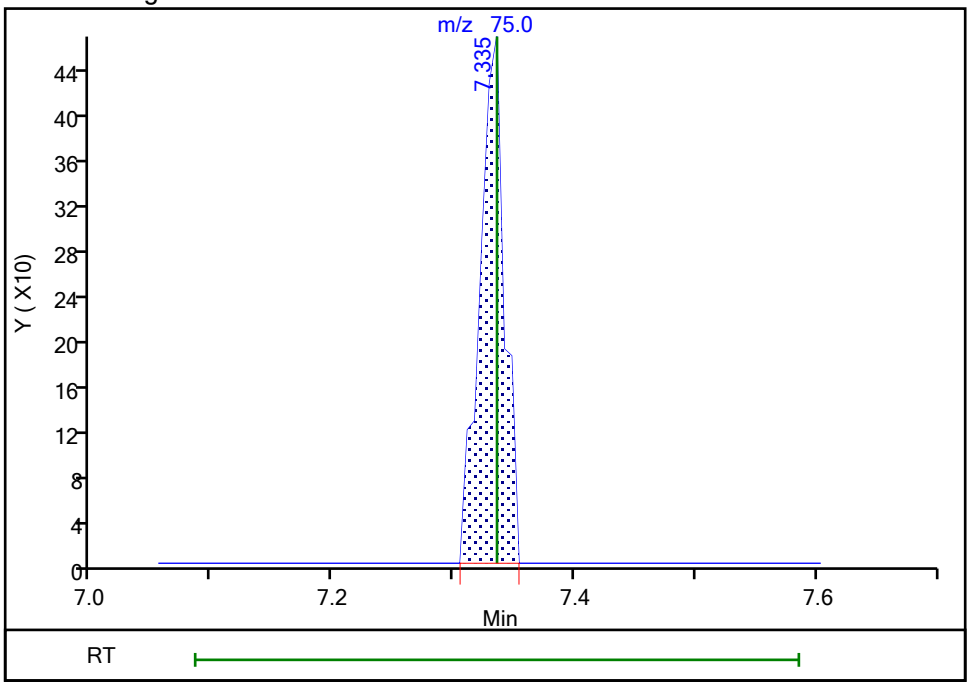
Not Detected
Expected RT: 7.34

Processing Integration Results



Manual Integration Results

RT: 7.34
Area: 651
Amount: 0.626448
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:35
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

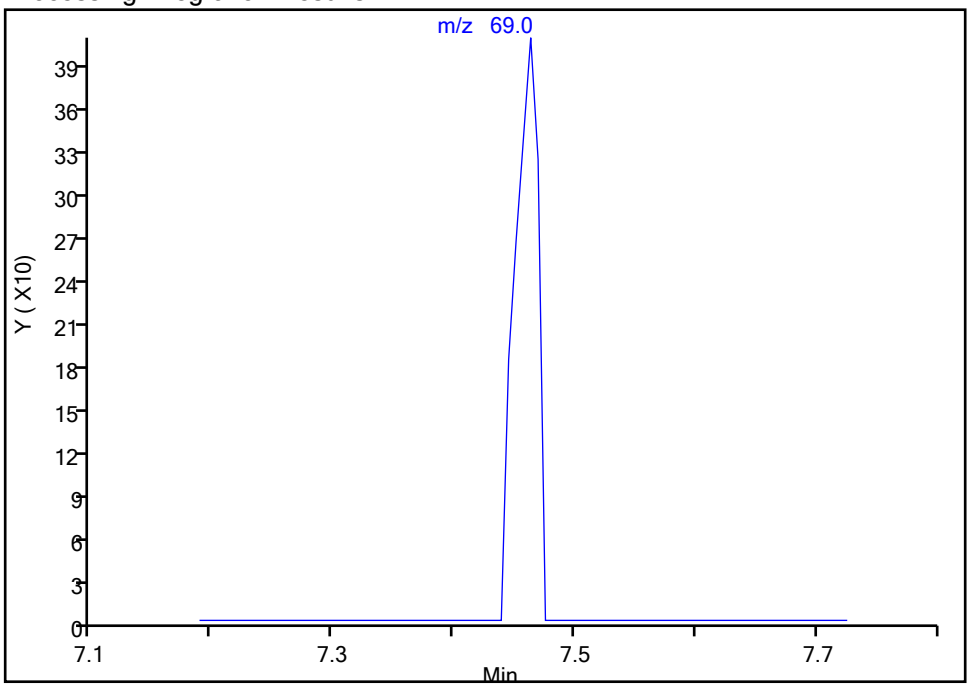
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

64 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

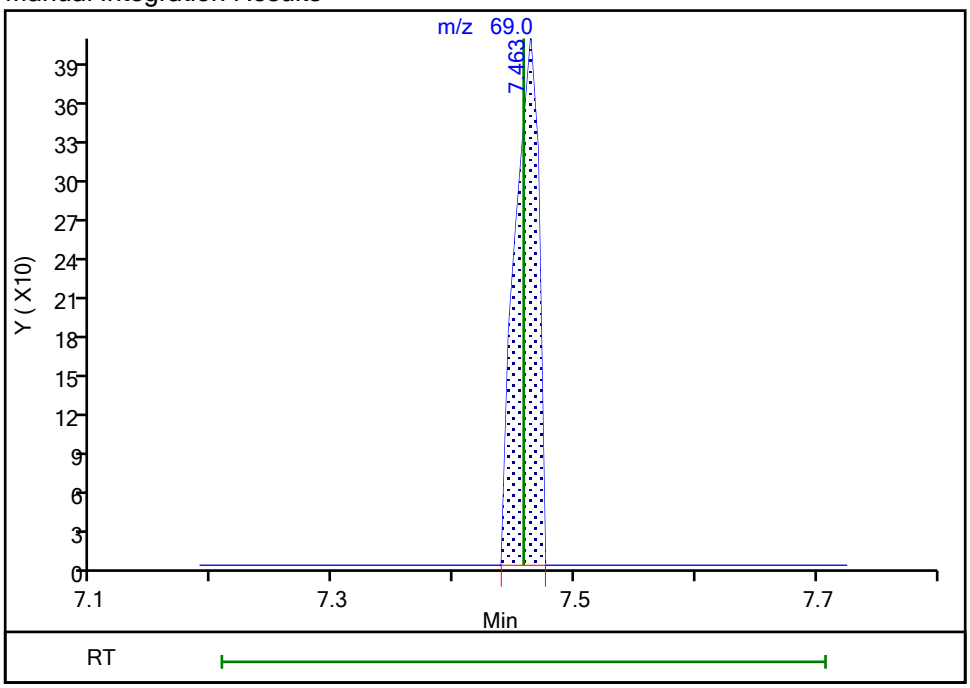
Not Detected
Expected RT: 7.46

Processing Integration Results



Manual Integration Results

RT: 7.46
Area: 546
Amount: 0.288280
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:42
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

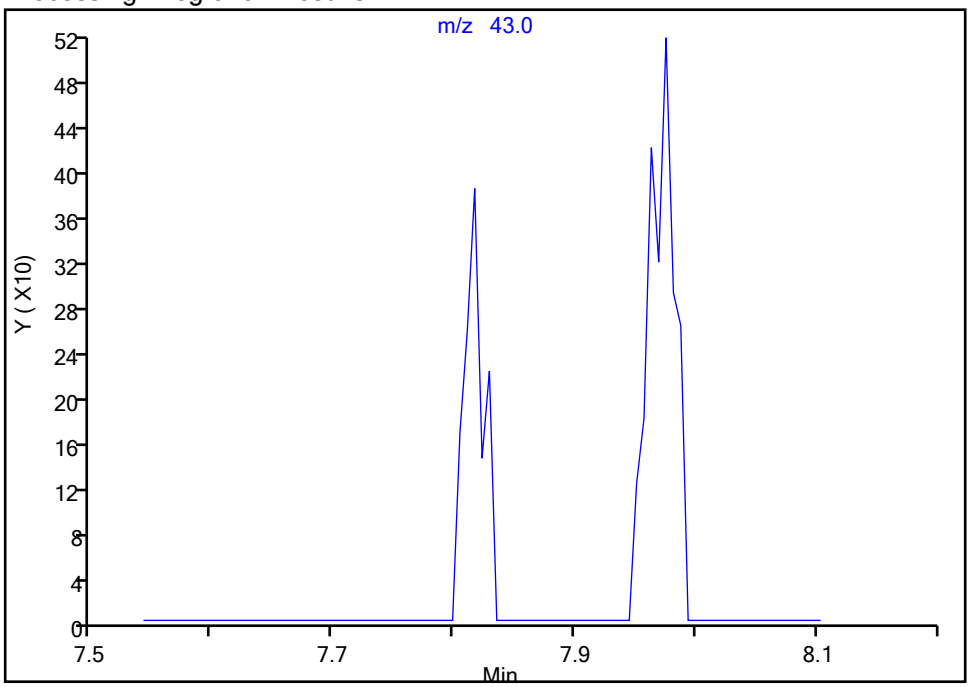
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

68 2-Hexanone, CAS: 591-78-6

Signal: 1

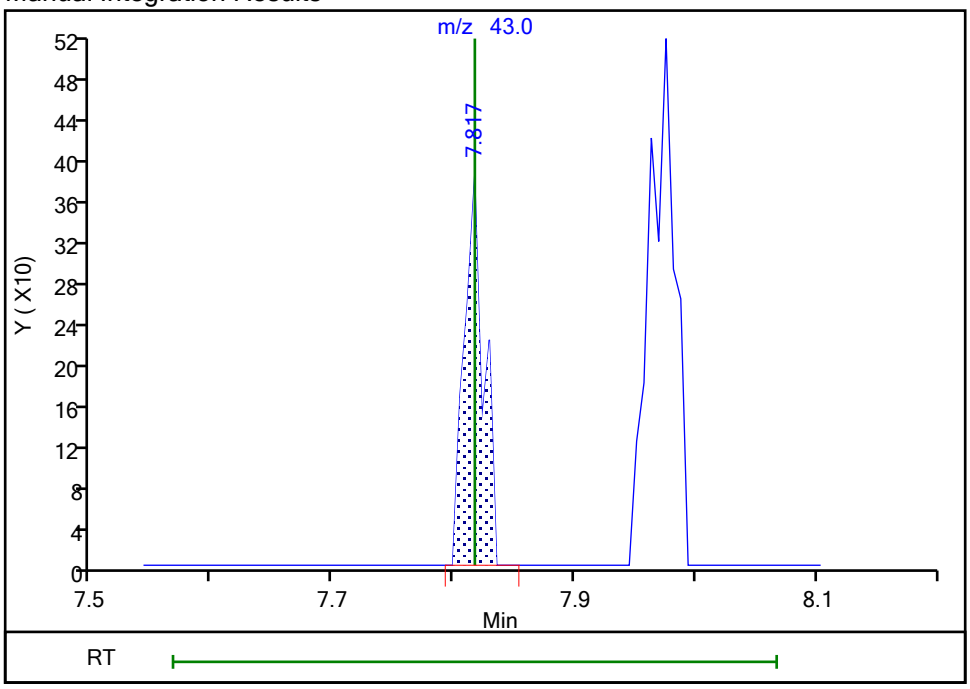
Not Detected
Expected RT: 7.82

Processing Integration Results



Manual Integration Results

RT: 7.82
Area: 426
Amount: 0.489940
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:59
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

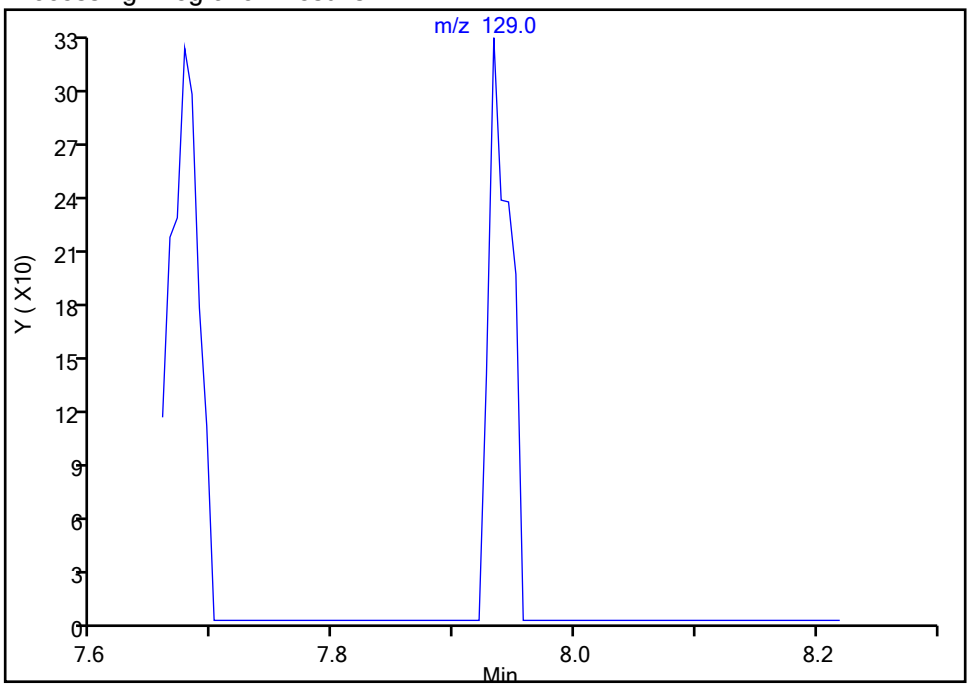
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

69 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

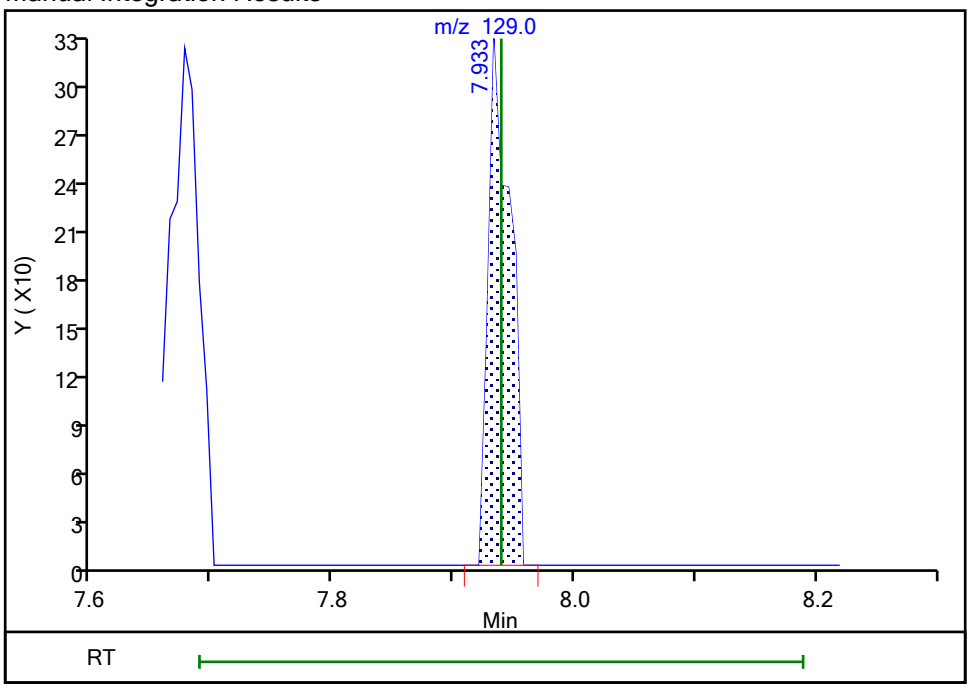
Not Detected
Expected RT: 7.94

Processing Integration Results



Manual Integration Results

RT: 7.93
Area: 417
Amount: 0.269905
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:08
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

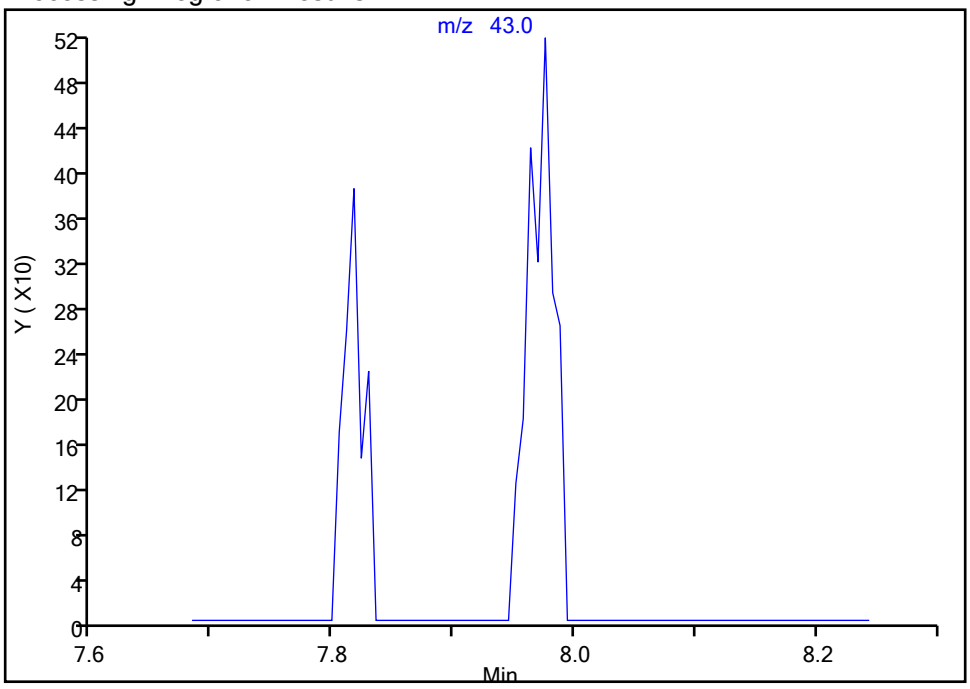
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

109 n-Butyl acetate, CAS: 123-86-4

Signal: 1

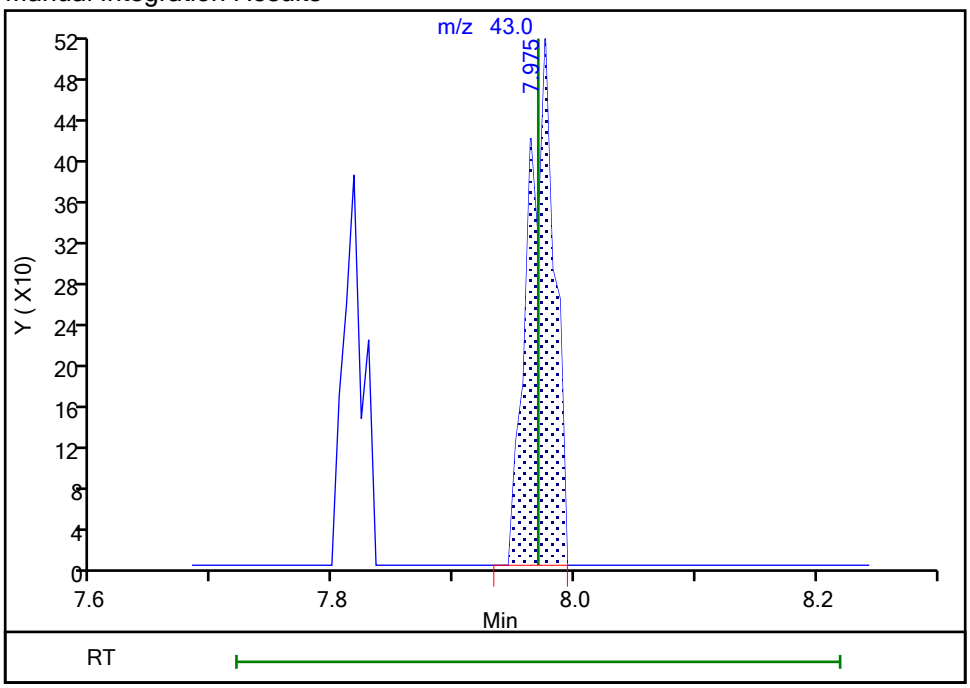
Not Detected
Expected RT: 7.97

Processing Integration Results



Manual Integration Results

RT: 7.98
Area: 766
Amount: 0.336152
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:16
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

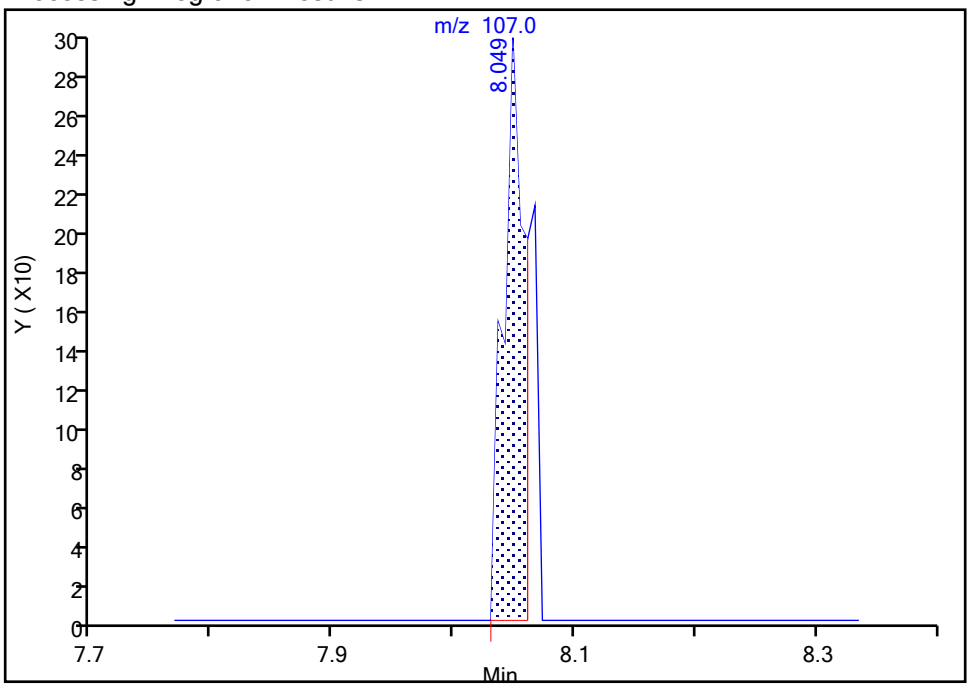
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

70 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

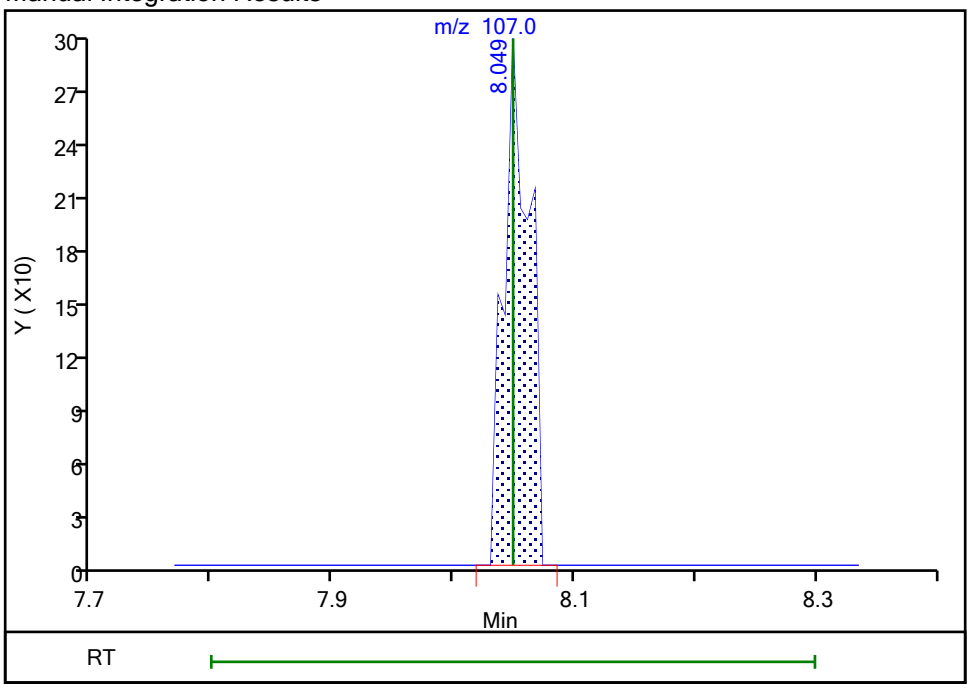
Processing Integration Results

RT: 8.05
Area: 358
Amount: 0.494145
Amount Units: ug/l



Manual Integration Results

RT: 8.05
Area: 434
Amount: 0.304062
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:23
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

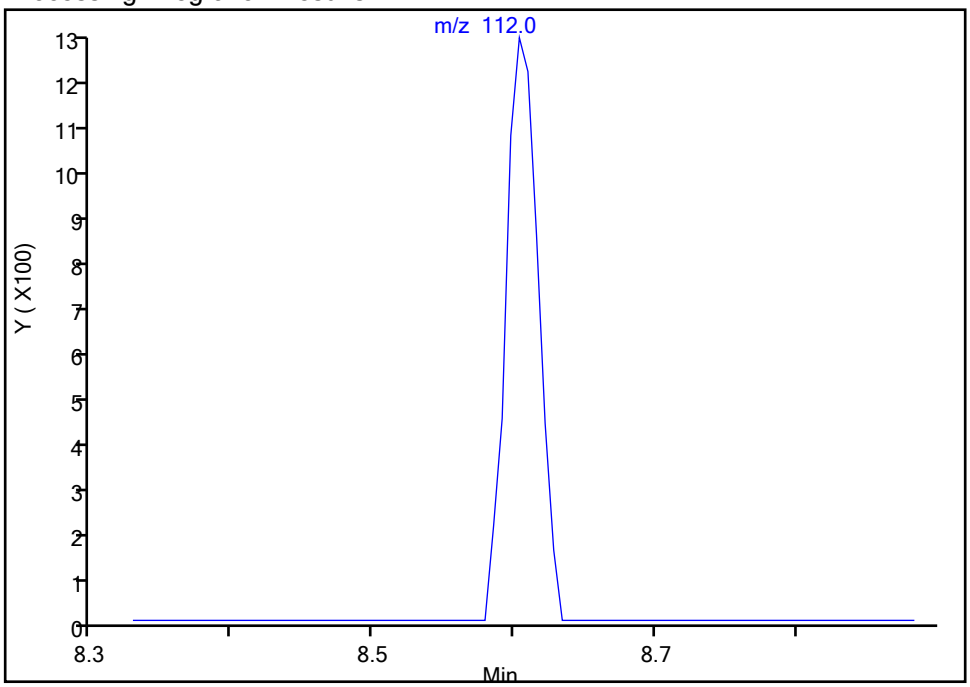
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

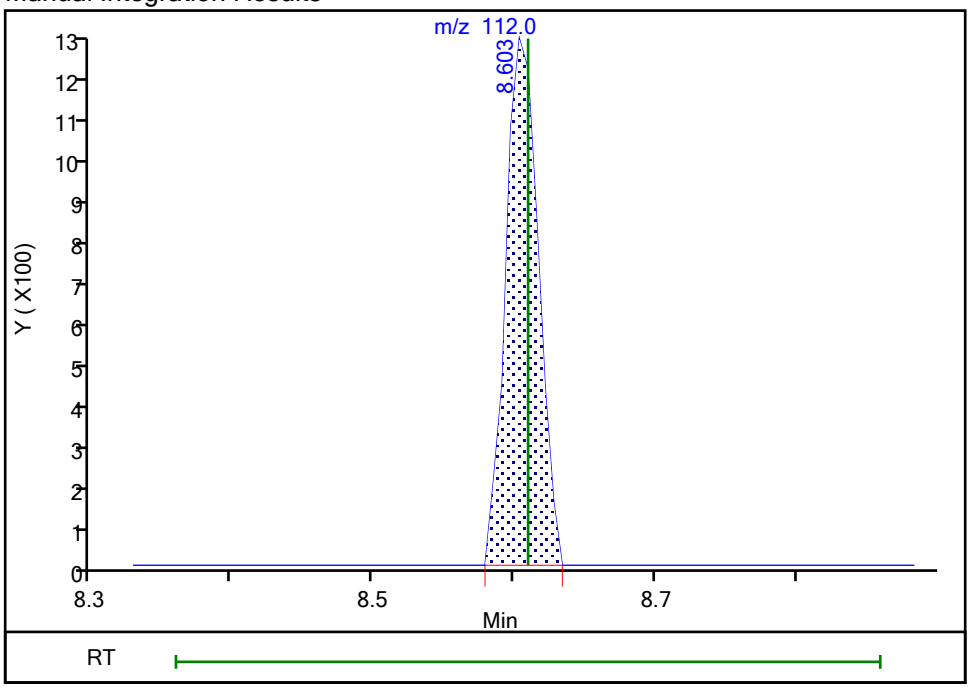
Not Detected
Expected RT: 8.61

Processing Integration Results



Manual Integration Results

RT: 8.60
Area: 1937
Amount: 0.367289
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:32
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

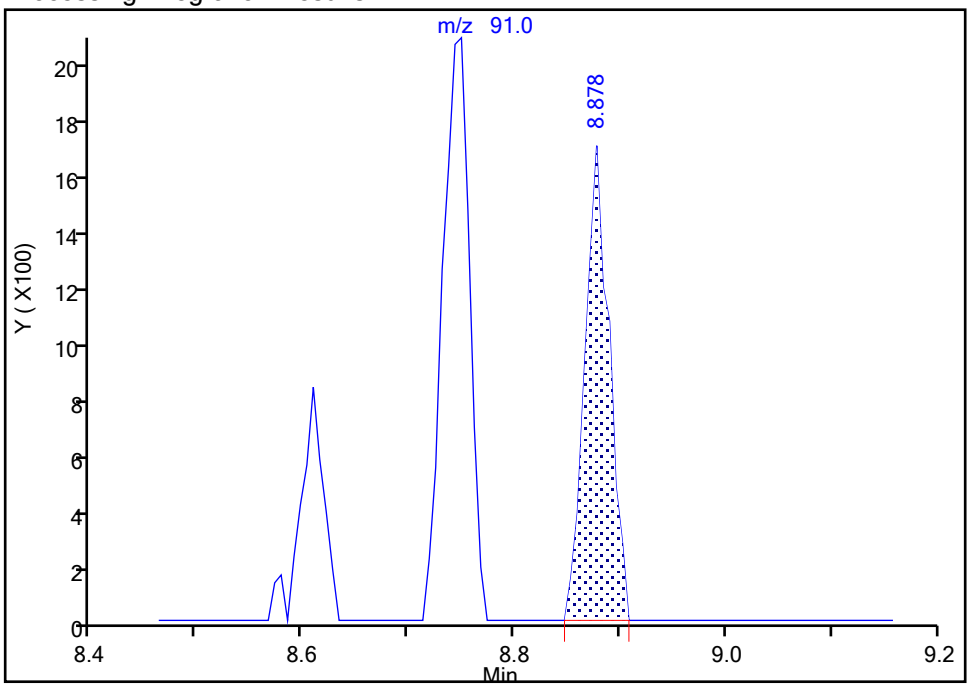
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

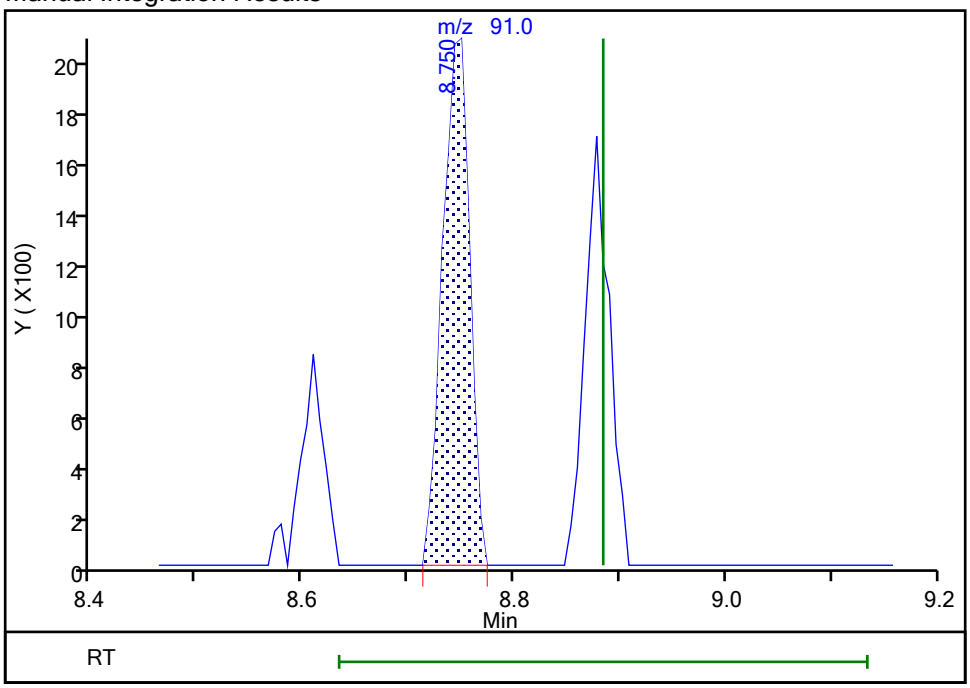
Processing Integration Results

RT: 8.88
Area: 2606
Amount: 0.365107
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 3560
Amount: 0.385644
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:54
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

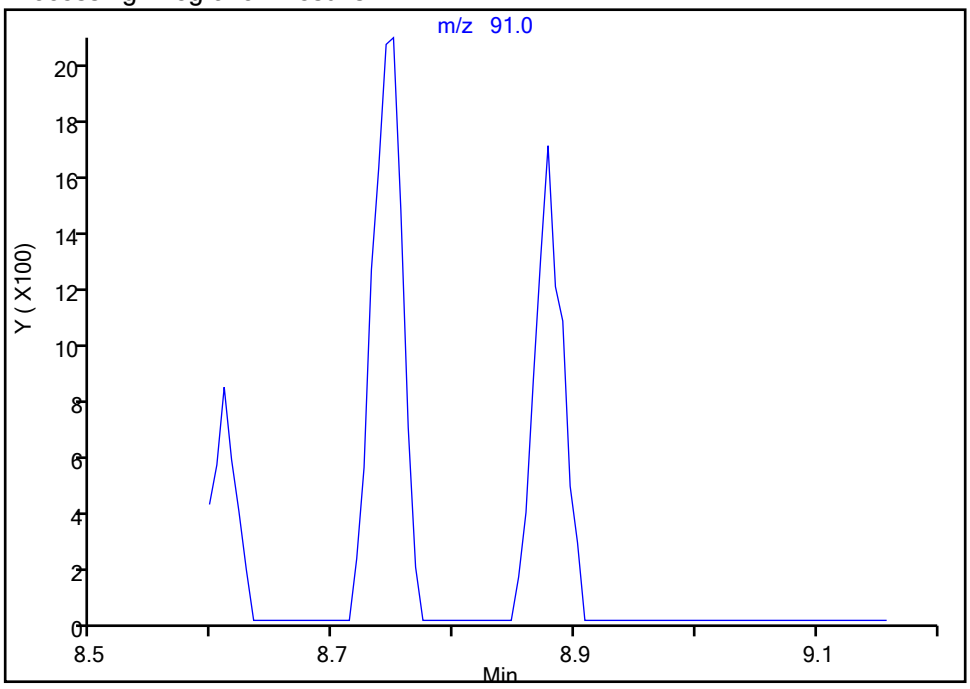
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

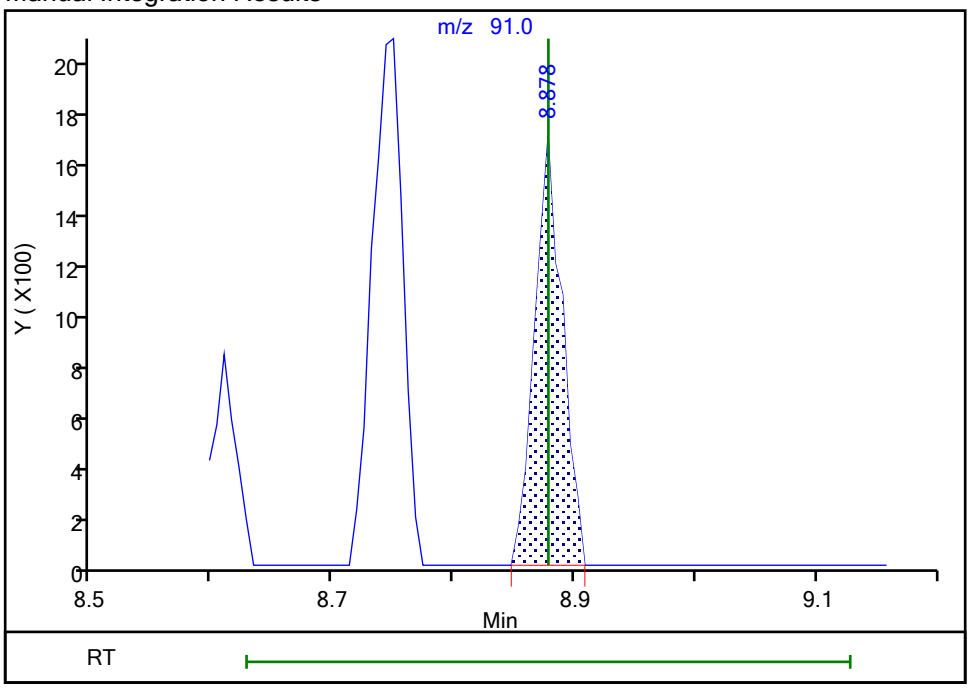
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 2606
Amount: 0.406819
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:40
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

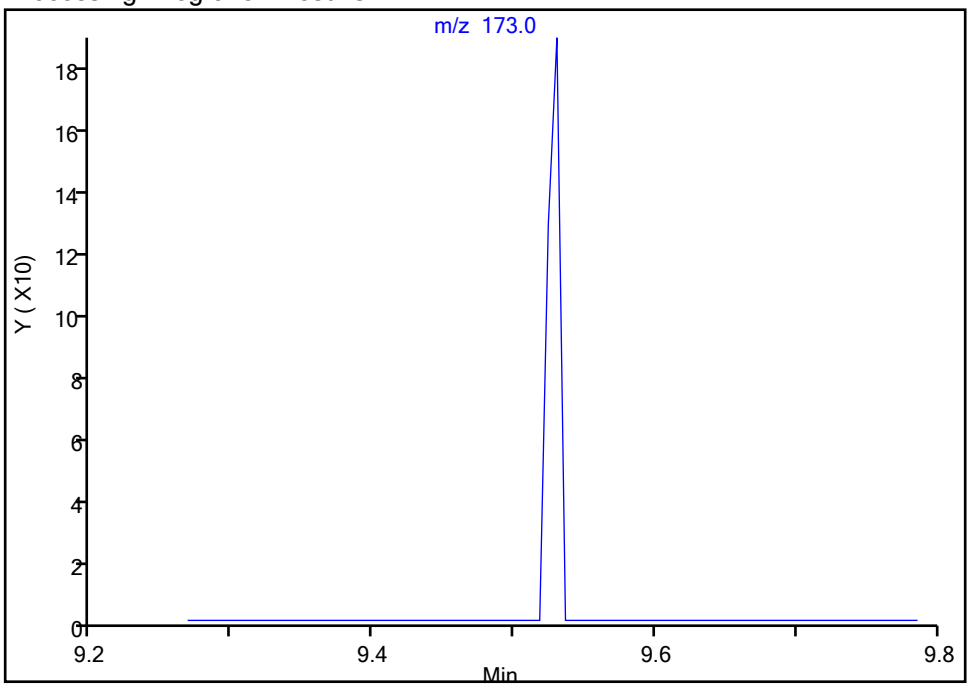
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

77 Bromoform, CAS: 75-25-2

Signal: 1

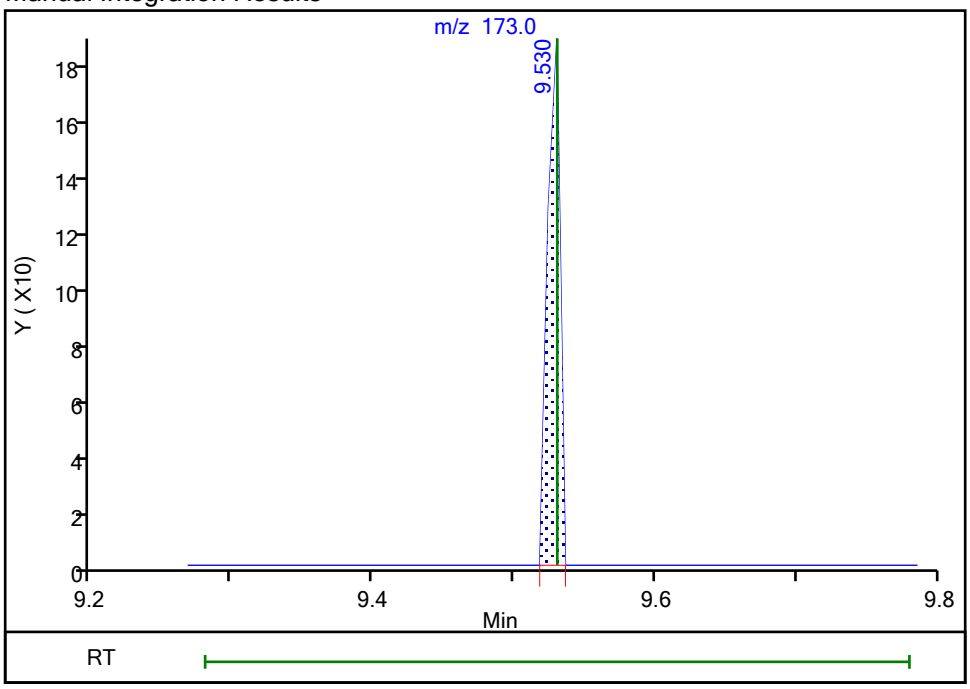
Not Detected
Expected RT: 9.53

Processing Integration Results



Manual Integration Results

RT: 9.53
Area: 111
Amount: 0.120915
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:07
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

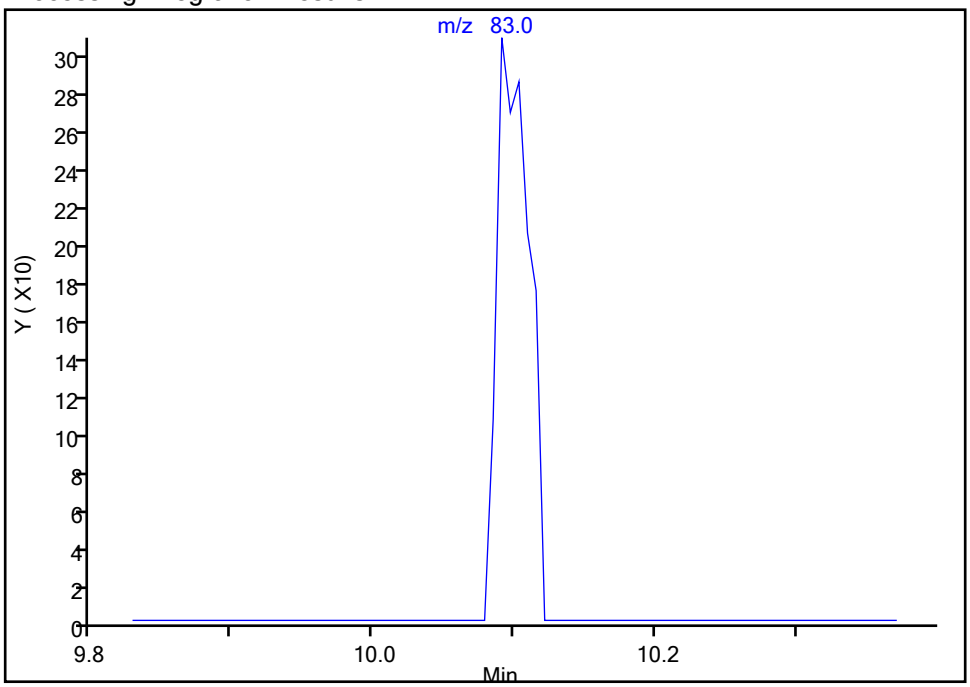
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

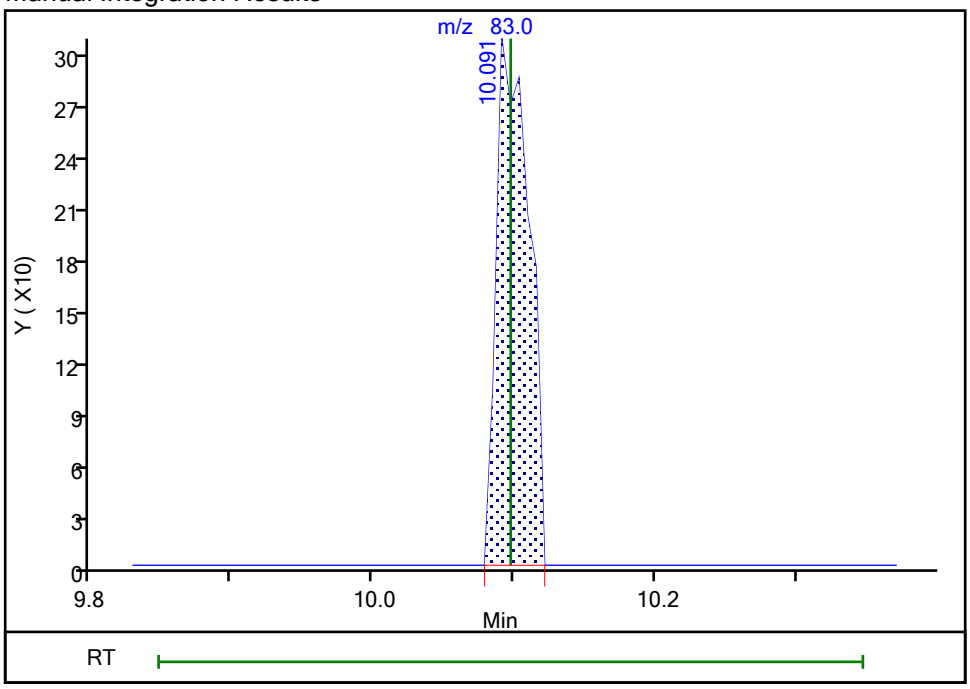
Not Detected
Expected RT: 10.10

Processing Integration Results



Manual Integration Results

RT: 10.09
Area: 486
Amount: 0.339148
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:16
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

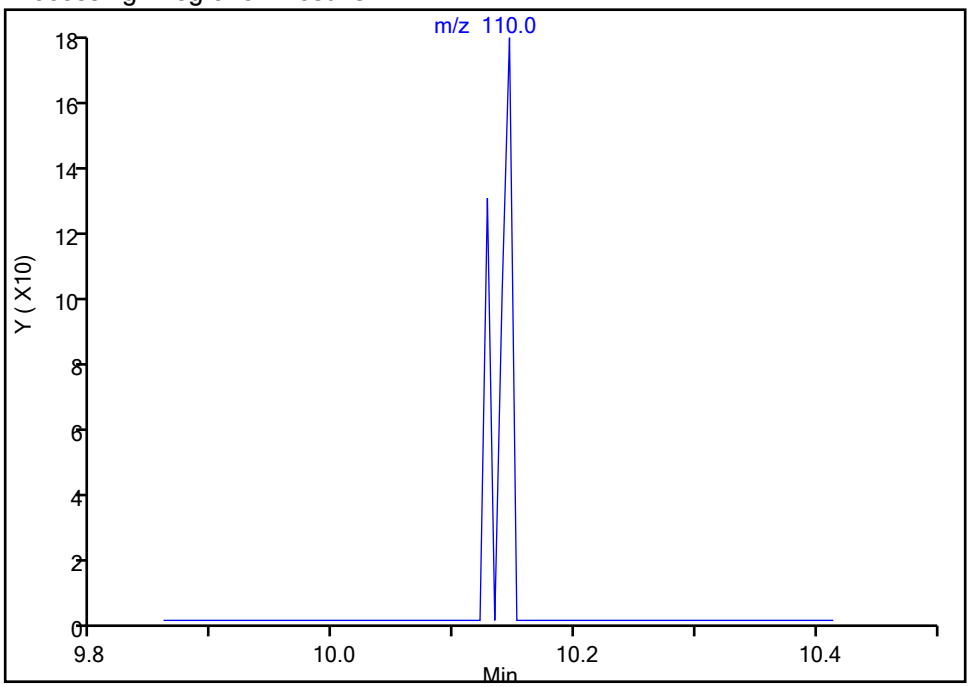
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

81 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

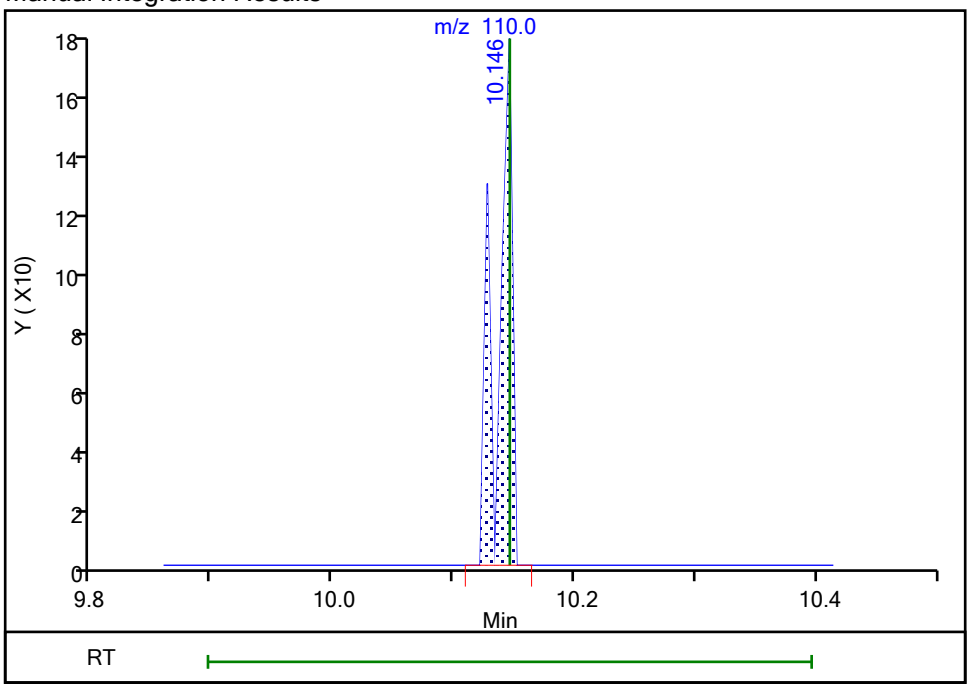
Not Detected
Expected RT: 10.15

Processing Integration Results



Manual Integration Results

RT: 10.15
Area: 149
Amount: 0.269089
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:46
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

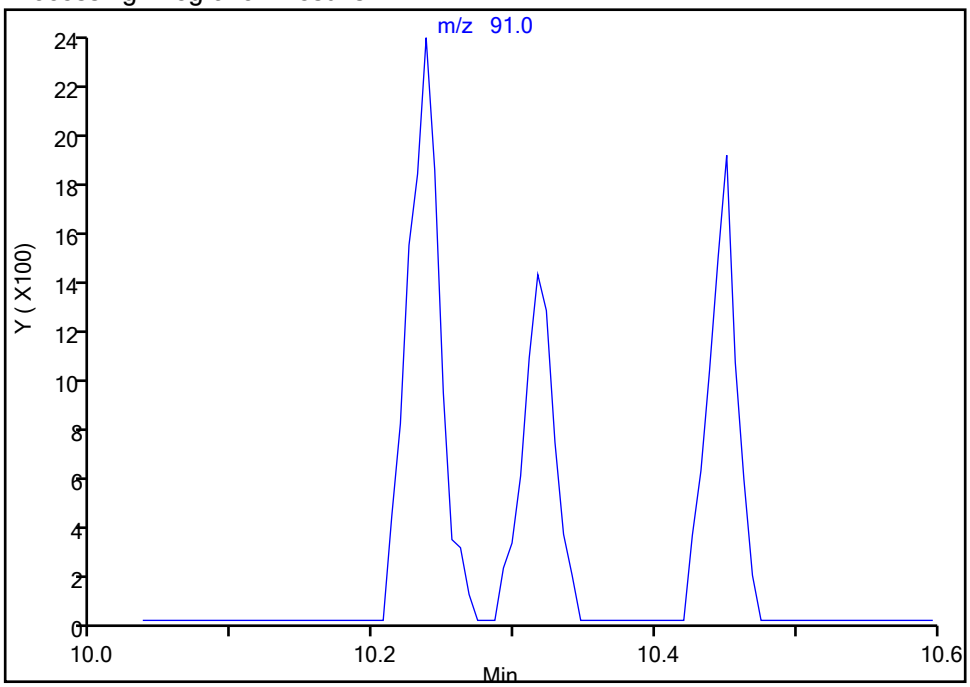
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

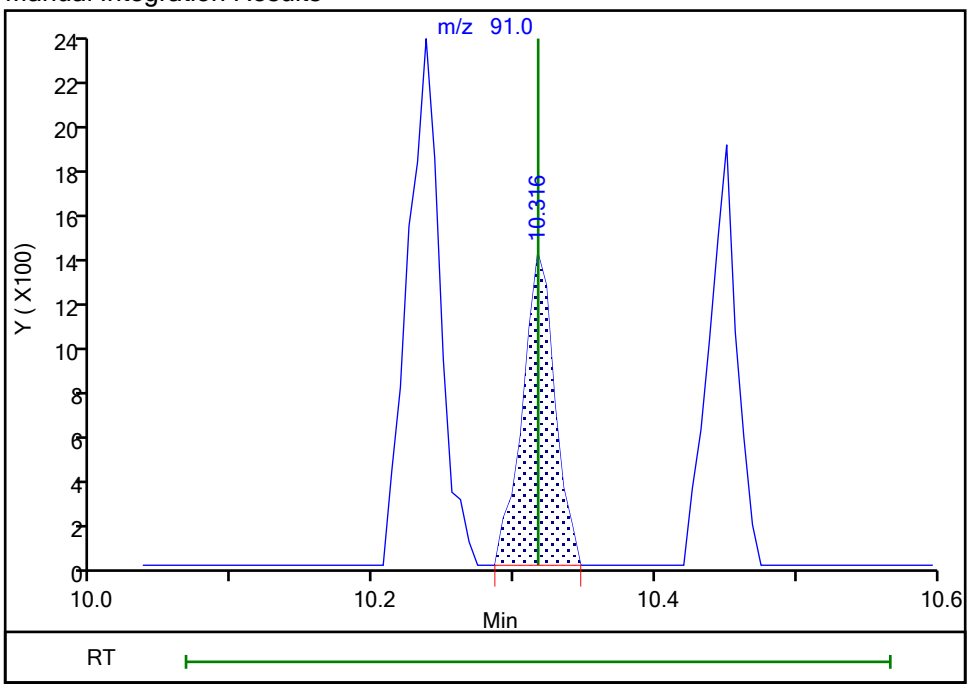
Not Detected
Expected RT: 10.32

Processing Integration Results



Manual Integration Results

RT: 10.32
Area: 2244
Amount: 0.373702
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:57
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

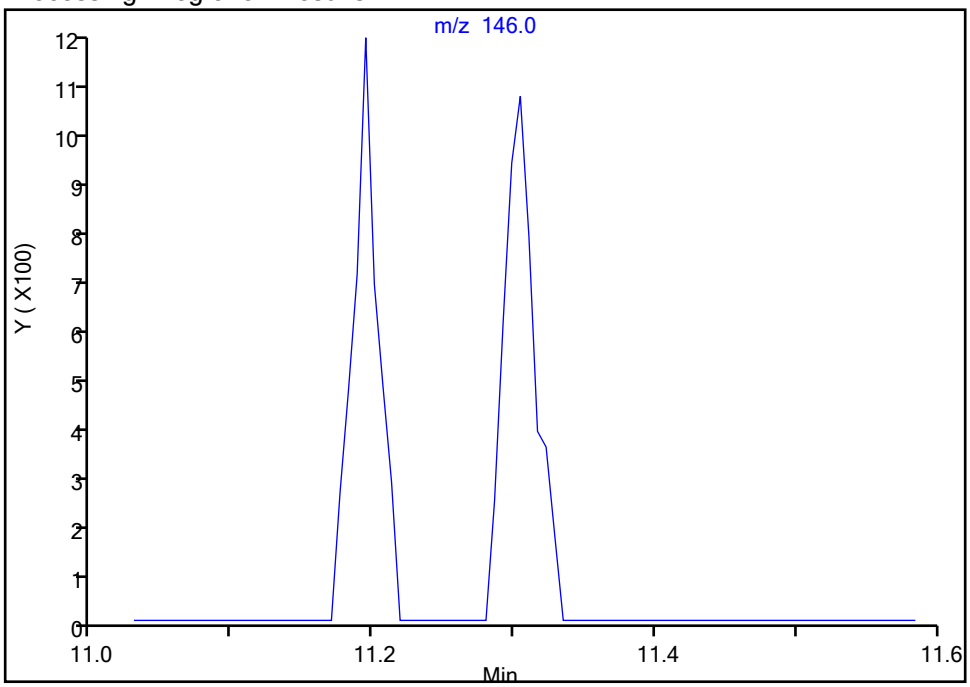
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

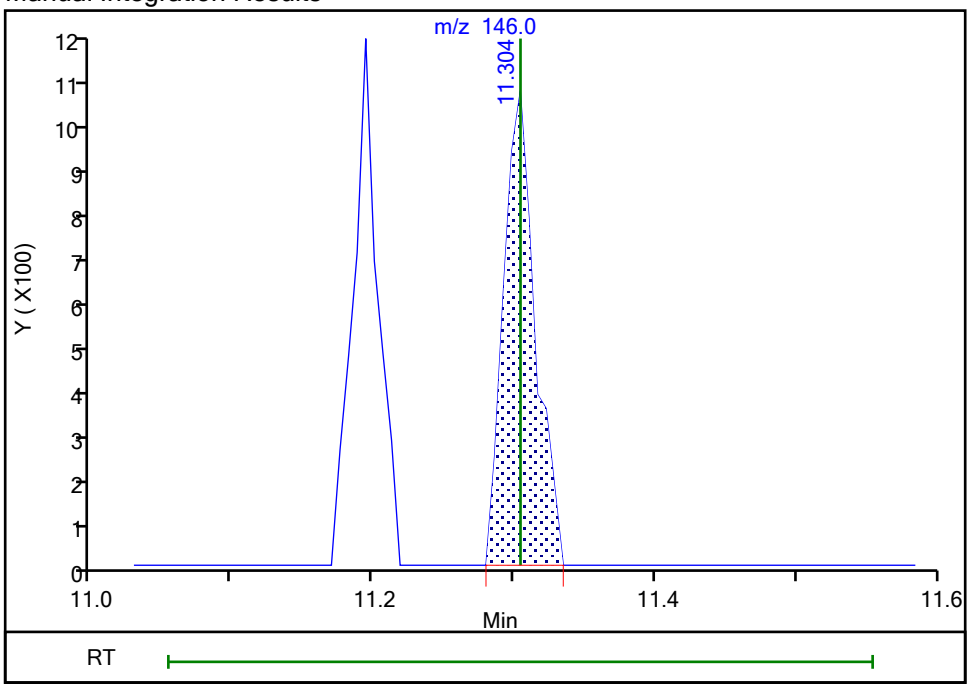
Not Detected
Expected RT: 11.30

Processing Integration Results



Manual Integration Results

RT: 11.30
Area: 1564
Amount: 0.403633
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:14
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

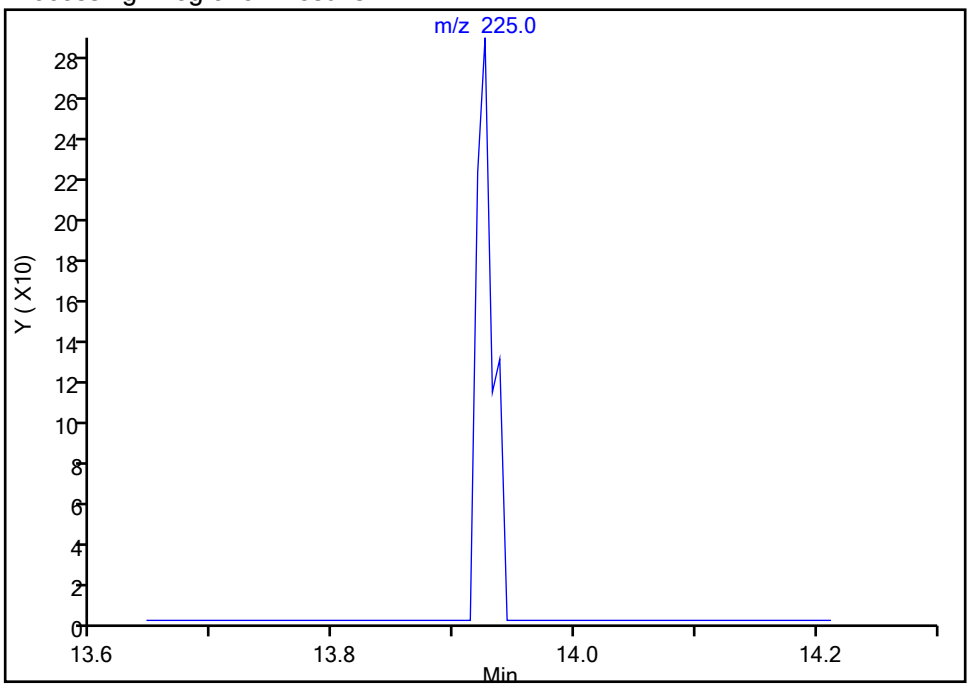
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

97 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

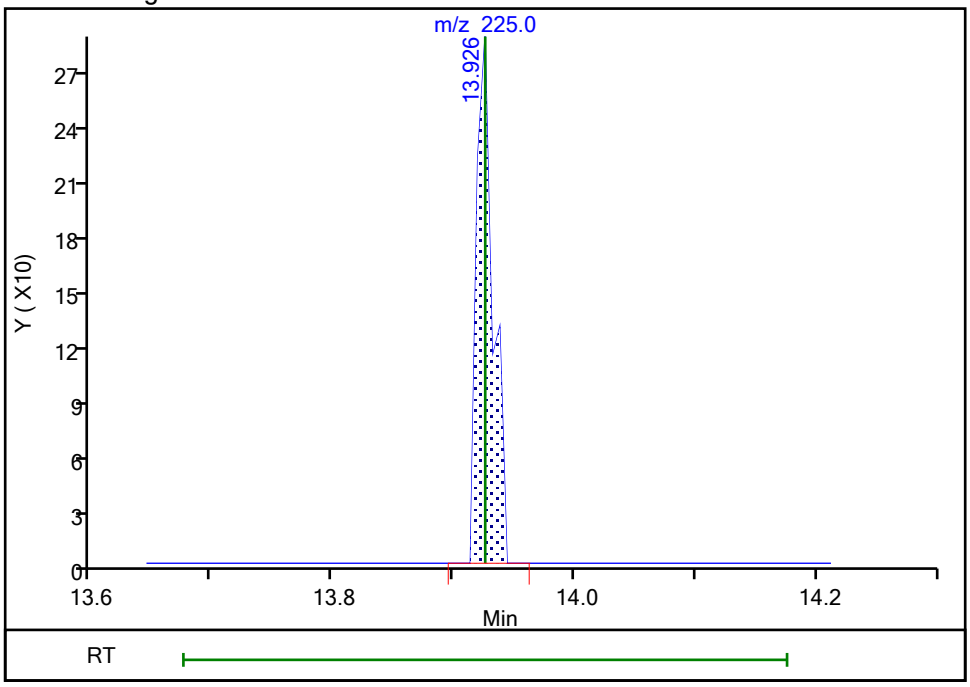
Not Detected
Expected RT: 13.93

Processing Integration Results



Manual Integration Results

RT: 13.93
Area: 268
Amount: 0.295841
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:34
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

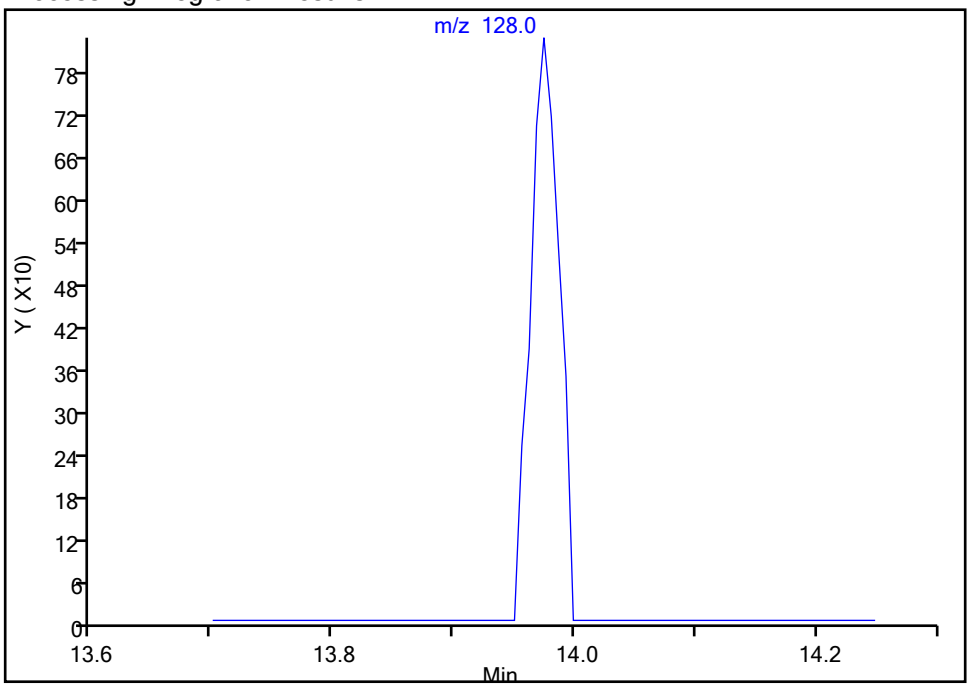
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

98 Naphthalene, CAS: 91-20-3

Signal: 1

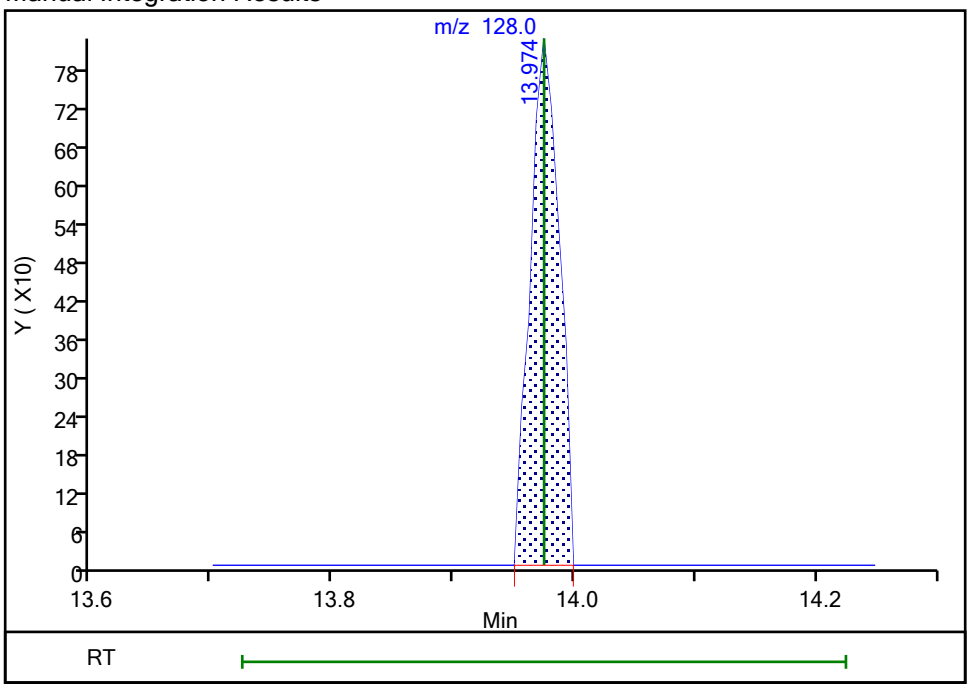
Not Detected
Expected RT: 13.97

Processing Integration Results



Manual Integration Results

RT: 13.97
Area: 1361
Amount: 0.335498
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:42
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

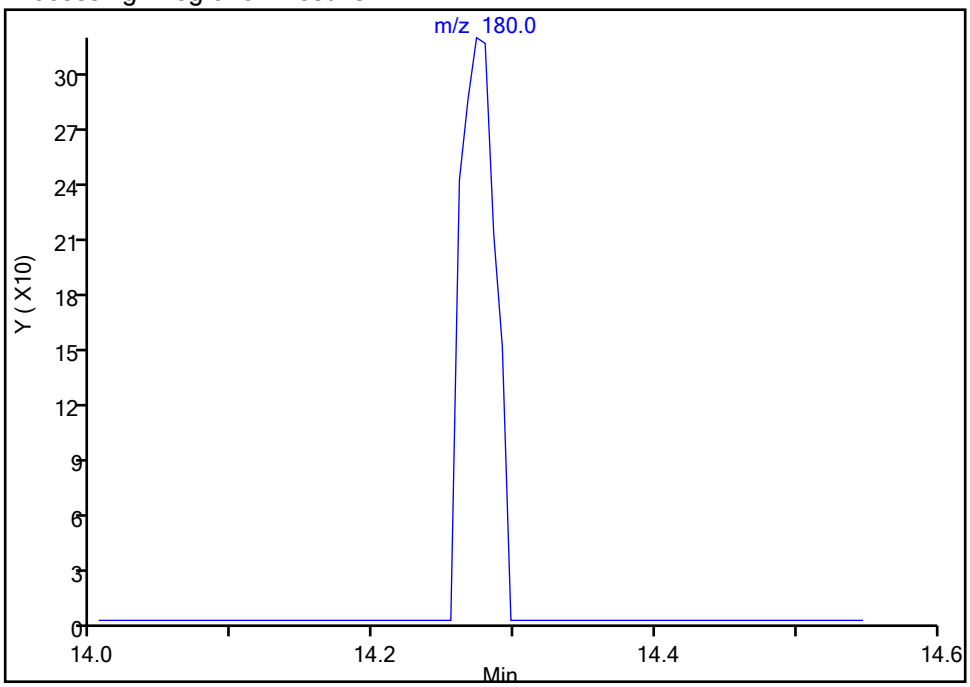
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

99 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

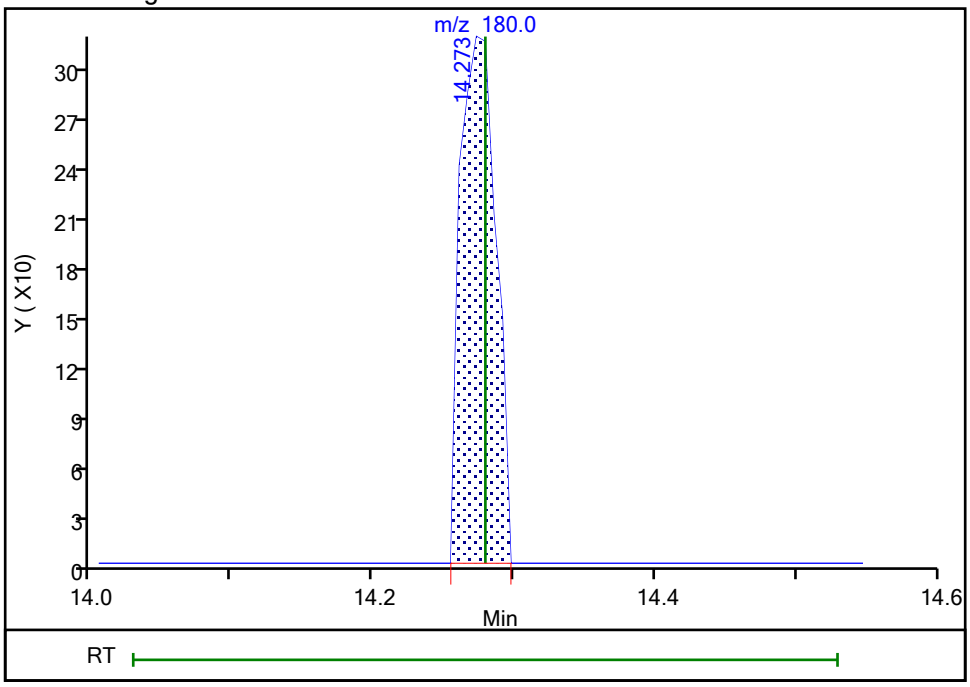
Not Detected
Expected RT: 14.28

Processing Integration Results



Manual Integration Results

RT: 14.27
Area: 543
Amount: 0.365690
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:49
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Oct-2020 08:40:30 ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:25:55 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:20:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	134334	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5109	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	87	103290	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	49230	50.0	50.0	
17 Ethanol	45	2.361	2.373	-0.012	17	573	40.0	49.0	M
18 Ethyl ether	59	2.446	2.452	-0.006	86	1058	1.00	0.9317	
19 Acrolein	56	2.556	2.550	0.006	62	831	4.76	4.81	M
20 1,1-Dichloroethene	96	2.653	2.647	0.006	94	1264	1.00	0.9147	M
21 112TCTFE	101	2.666	2.666	0.000	84	1013	1.00	0.7386	
22 Acetone	43	2.708	2.708	0.000	29	1183	2.00	0.0835	M
24 Carbon disulfide	76	2.830	2.836	-0.006	99	4177	1.00	1.02	M
105 Isopropyl alcohol	45	2.891	2.891	0.000	37	477	10.0	7.54	a
118 Acetonitrile	40	2.964	2.971	-0.007	96	1671	10.0	12.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	35	709	1.00	0.7941	M
26 Methyl acetate	43	3.037	3.031	0.006	75	2216	2.00	2.34	M
27 Methylene Chloride	84	3.111	3.105	0.006	93	1929	1.00	1.18	M
23 Iodomethane	142		3.153				ND	ND	
35 2-Methyl-2-propanol	59	3.275	3.263	0.012	6	770	10.0	8.60	
30 Acrylonitrile	53	3.342	3.342	0.000	93	4442	10.0	9.16	M
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	96	1517	1.00	0.9624	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	95	3470	1.00	0.9491	
31 Hexane	57	3.647	3.641	0.006	92	1793	1.00	0.8389	
32 1,1-Dichloroethane	63	3.769	3.775	-0.006	93	2800	1.00	0.9471	M
33 Vinyl acetate	86	3.830	3.842	-0.012	99	509	2.00	1.74	
34 2-Chloro-1,3-butadiene	53	3.848	3.854	-0.006	91	2284	1.00	0.7989	
36 Isopropyl ether	87	3.873	3.867	0.006	86	1231	1.00	0.8552	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	95	4334	1.00	0.9377	
39 cis-1,2-Dichloroethene	96	4.312	4.312	0.000	86	1787	1.00	0.99	M
38 2,2-Dichloropropane	77	4.324	4.318	0.006	68	1577	1.00	0.6761	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	98	1168	2.00	2.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	96	1738	10.0	9.01	Ma
104 Ethyl acetate	61	4.409	4.415	-0.006	44	345	2.00	1.56	M
43 Methacrylonitrile	67	4.537	4.543	-0.006	89	5227	10.0	9.13	
42 Chlorobromomethane	128	4.543	4.543	0.000	41	760	1.00	1.01	M
44 Tetrahydrofuran	71	4.610	4.598	0.012	31	149	2.00	1.11	M
45 Chloroform	83	4.629	4.635	-0.006	94	3636	1.00	1.18	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	94	1992	1.00	0.7860	
47 Cyclohexane	56	4.842	4.848	-0.006	90	2425	1.00	0.8023	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	74	1525	1.00	0.6954	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	90	2018	1.00	0.8505	
108 Isobutyl alcohol	43	5.122	5.117	0.006	87	1045	25.0	21.8	
50 Benzene	78	5.153	5.153	0.000	97	6512	1.00	0.9381	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	96	2311	1.00	1.05	
116 n-Butanol	56	5.263	5.257	0.006	46	1411	25.0	20.9	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	92	3635	1.00	0.8725	
53 n-Heptane	43	5.446	5.446	0.000	36	1932	1.00	0.8954	
54 Trichloroethene	95	5.787	5.793	-0.006	95	1616	1.00	0.9107	
117 Ethyl acrylate	55	5.921	5.927	-0.006	94	1466	1.00	0.8742	
114 Methylcyclohexane	83	5.982	5.988	-0.006	85	2707	1.00	0.9291	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	90	1725	1.00	1.02	a
56 Dibromomethane	93	6.110	6.122	-0.012	36	861	1.00	0.9559	a
57 Methyl methacrylate	69	6.159	6.153	0.006	94	1608	2.00	1.67	
115 1,4-Dioxane	58		6.159				ND	ND	
58 Dichlorobromomethane	83	6.287	6.287	0.000	97	1927	1.00	0.9413	
106 2-Nitropropane	43	6.525	6.519	0.006	21	221	2.00	0.7432	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	89	750	1.00	0.7975	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	92	1841	1.00	0.7510	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	95	2190	2.00	1.69	
62 Toluene	92	7.104	7.098	0.006	96	4514	1.00	0.9562	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	92	1546	1.00	1.01	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	82	1652	1.00	0.8959	
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	81	966	1.00	0.8570	
66 Tetrachloroethene	166	7.683	7.677	0.006	92	1850	1.00	0.9515	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	93	2326	1.00	0.9630	
68 2-Hexanone	43	7.823	7.817	0.006	92	1326	2.00	1.57	a
69 Chlorodibromomethane	129	7.939	7.939	0.000	83	1184	1.00	0.7871	a
109 n-Butyl acetate	43	7.976	7.970	0.006	94	1720	1.00	0.7753	
70 Ethylene Dibromide	107	8.049	8.049	0.000	95	1138	1.00	0.8189	
71 Chlorobenzene	112	8.610	8.610	0.000	96	5797	1.00	1.12	a
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	90	1203	1.00	0.7183	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	97	3204	1.00	0.9079	
73 Ethylbenzene	91	8.744	8.884	-0.140	97	8228	1.00	0.9076	a
75 o-Xylene	106	9.329	9.317	0.012	96	3347	1.00	1.00	
76 Styrene	104	9.341	9.341	0.000	90	4846	1.00	0.8709	
77 Bromoform	173	9.524	9.530	-0.006	1	504	1.00	0.5591	
78 Isopropylbenzene	105	9.756	9.762	-0.006	95	7726	1.00	0.8842	
79 Bromobenzene	156	10.079	10.085	-0.006	91	2191	1.00	1.03	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	89	1502	1.00	0.9667	a
81 1,2,3-Trichloropropane	110	10.140	10.146	-0.006	86	444	1.00	0.8165	M
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	1	283	1.00	0.6256	a
83 N-Propylbenzene	91	10.237	10.237	0.000	99	8755	1.00	0.8695	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	5691	1.00	0.9651	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.445	10.451	-0.006	97	6384	1.00	0.9199	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	89	6365	1.00	0.9129	
87 tert-Butylbenzene	119	10.829	10.829	0.000	91	5525	1.00	0.9143	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	6281	1.00	0.8748	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	7054	1.00	0.8208	
90 1,3-Dichlorobenzene	146	11.200	11.188	0.012	96	3606	1.00	0.9551	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	50	6323	1.00	0.8628	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	97	6300	1.00	0.9036	
92 1,4-Dichlorobenzene	146	11.298	11.304	-0.006	93	3818	1.00	0.9767	a
113 Benzyl chloride	126	11.469	11.463	0.006	92	241	1.00	0.3800	a
93 1,2-Dichlorobenzene	146	11.737	11.737	0.000	94	3220	1.00	0.8753	
94 n-Butylbenzene	91	11.767	11.761	0.006	97	5139	1.00	0.7964	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	ND	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	91	2007	1.00	0.8934	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	92	1607	1.00	0.8564	
97 Hexachlorobutadiene	225	13.932	13.926	0.006	86	786	1.00	0.8601	
98 Naphthalene	128	13.980	13.974	0.006	96	3323	1.00	0.8120	
99 1,2,3-Trichlorobenzene	180	14.273	14.279	-0.006	92	1436	1.00	0.9586	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		2.00	1.95	
S 102 1,3-Dichloropropene, Total	1				0		2.00	1.76	
S 100 Xylenes, Total	1				0		2.00	1.90	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

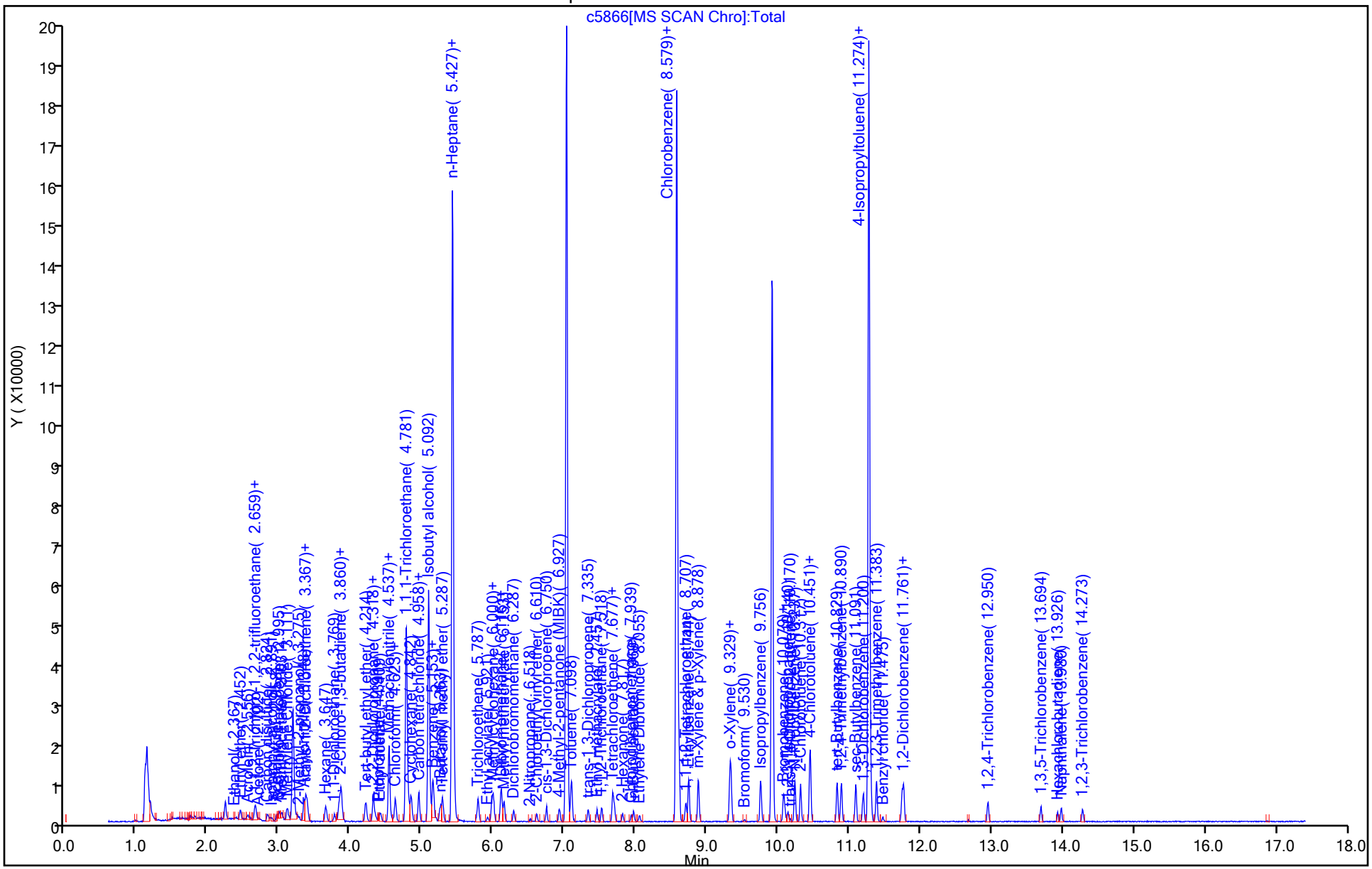
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	1.00	Units: uL

Report Date: 13-Oct-2020 18:25:58 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D

Injection Date:	13-Oct-2020 08:40:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std2			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

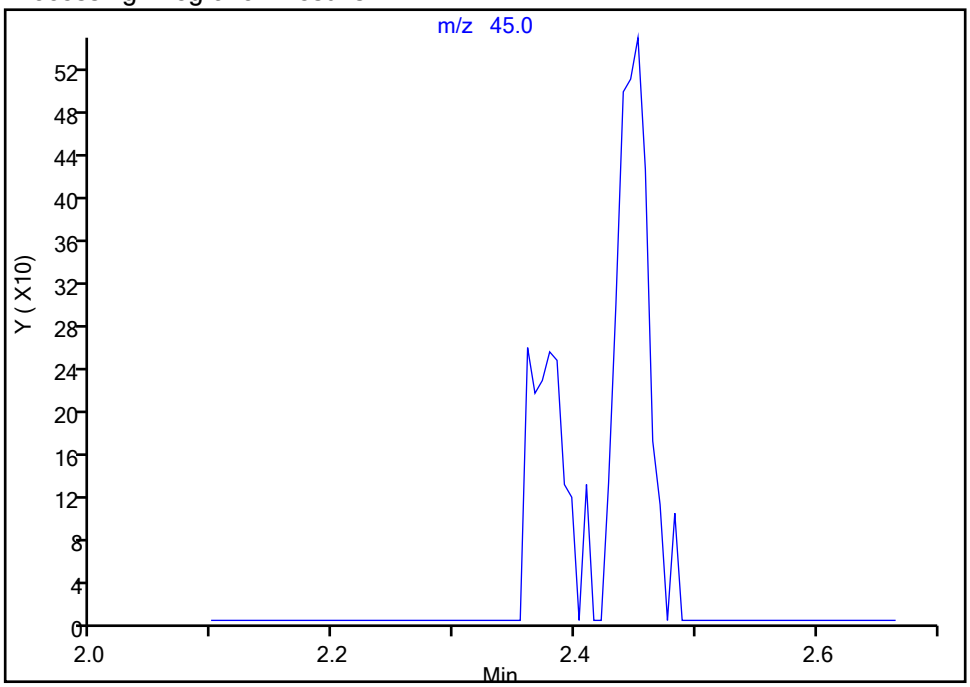
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

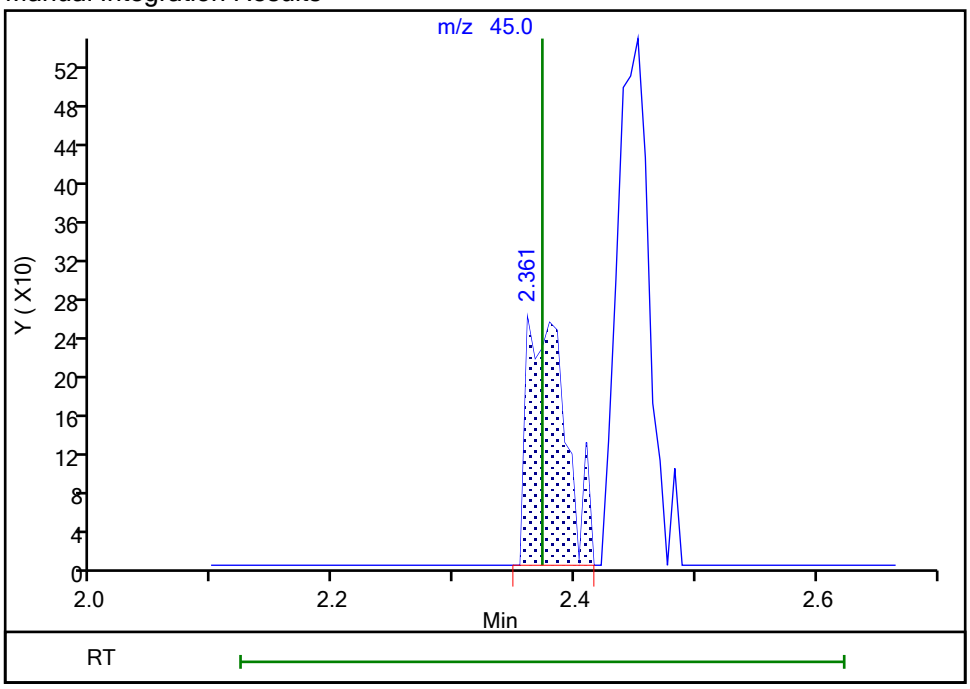
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.36
Area: 573
Amount: 49.049625
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:20:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

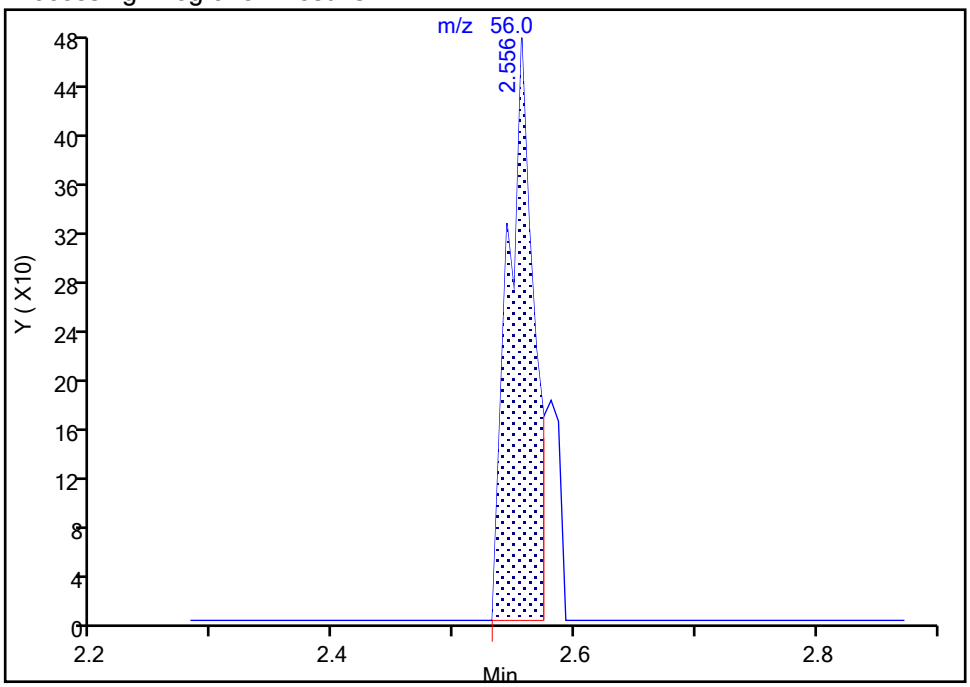
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

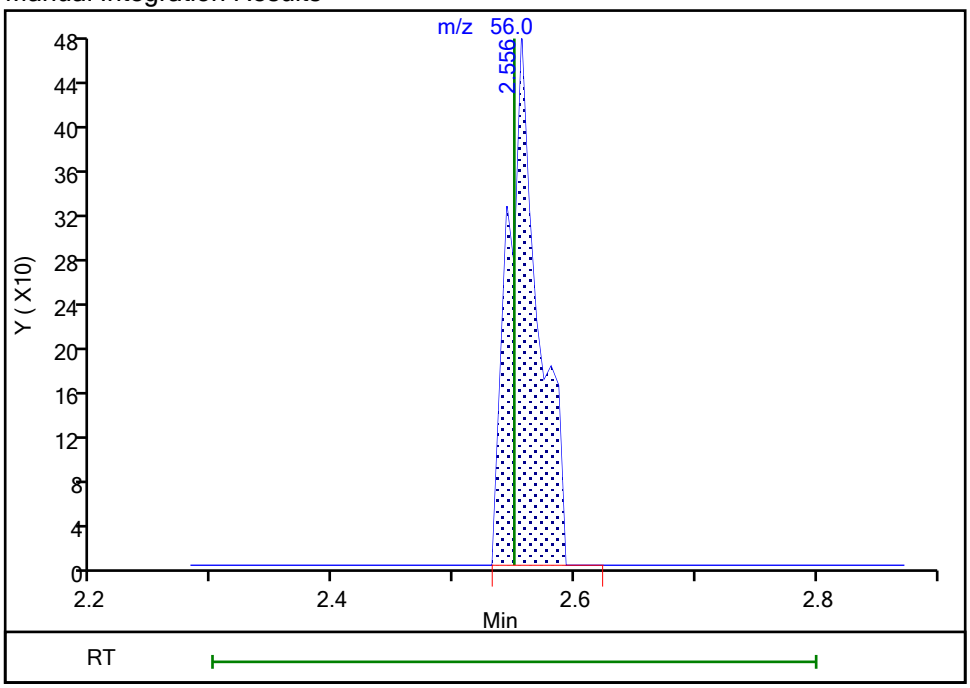
Processing Integration Results

RT: 2.56
Area: 707
Amount: 5.433855
Amount Units: ug/l



Manual Integration Results

RT: 2.56
Area: 831
Amount: 4.810196
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

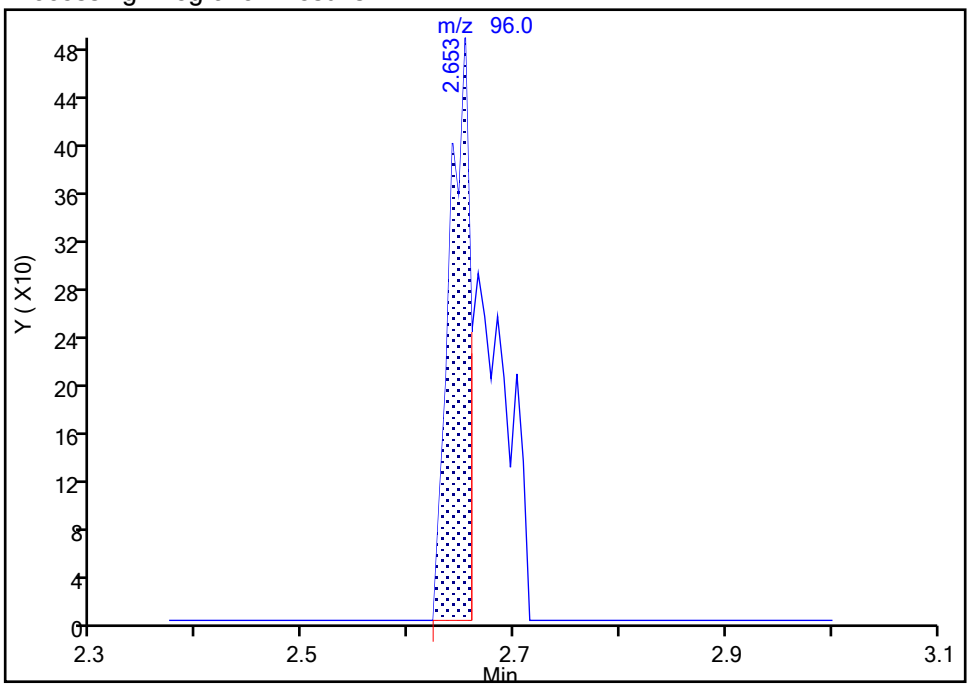
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

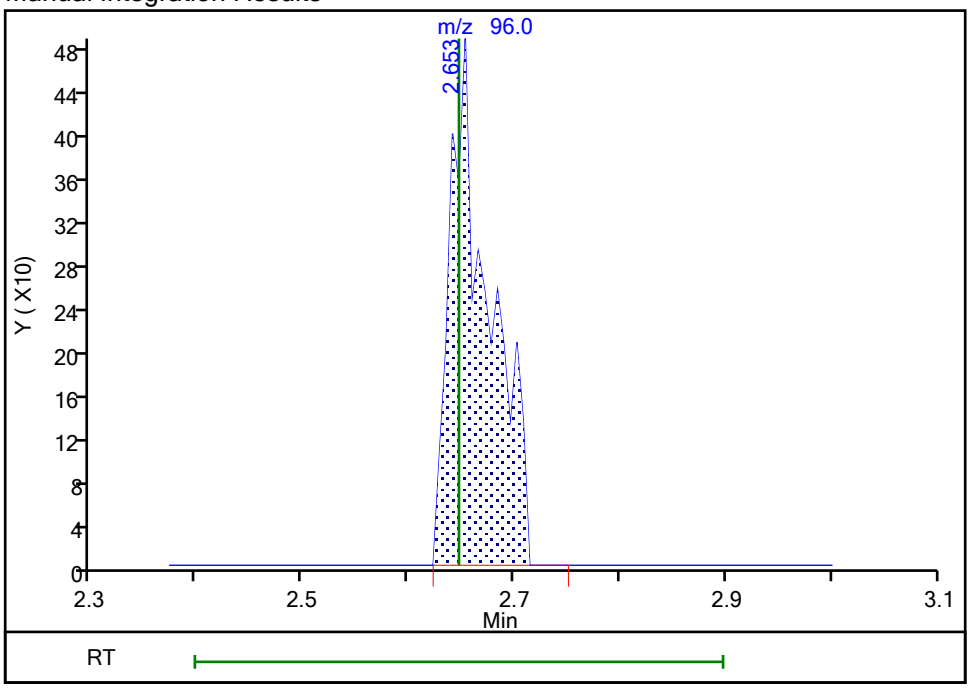
Processing Integration Results

RT: 2.65
Area: 653
Amount: 0.863317
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 1264
Amount: 0.914725
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

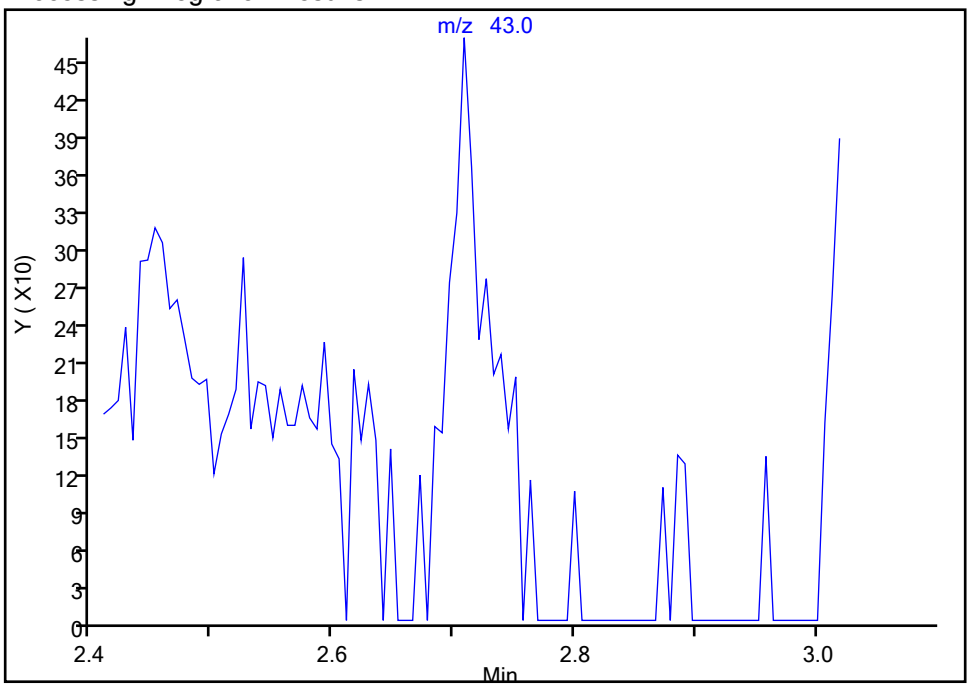
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

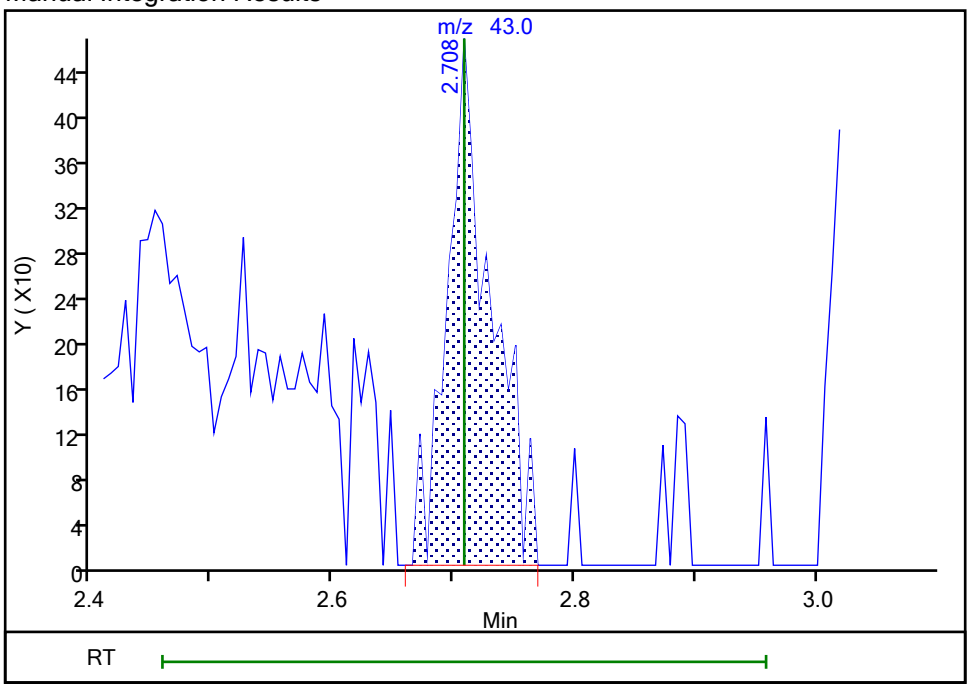
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 1183
Amount: 0.083480
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

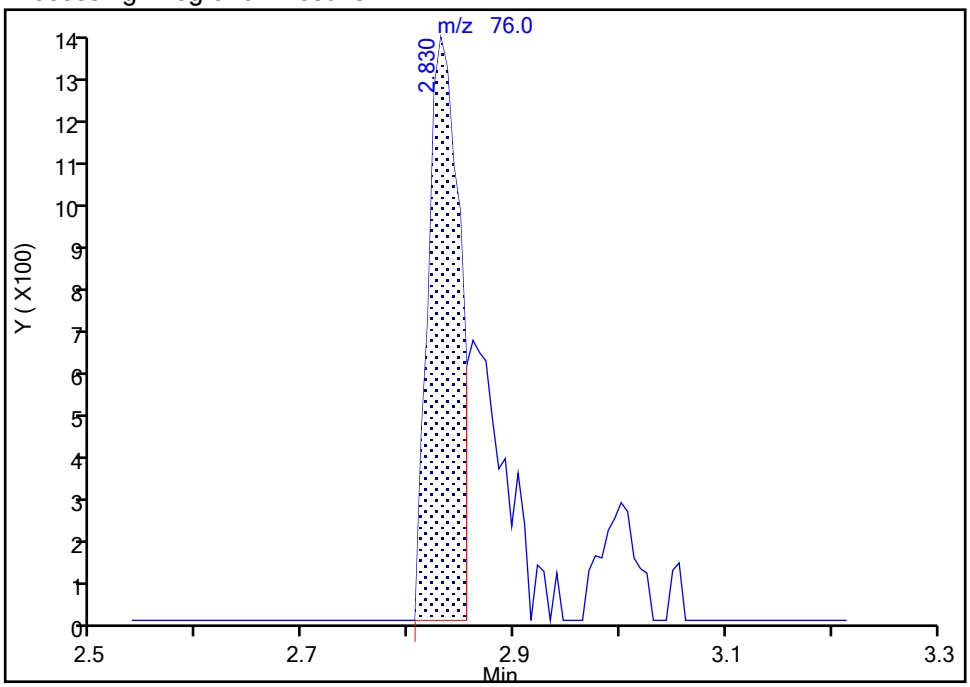
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

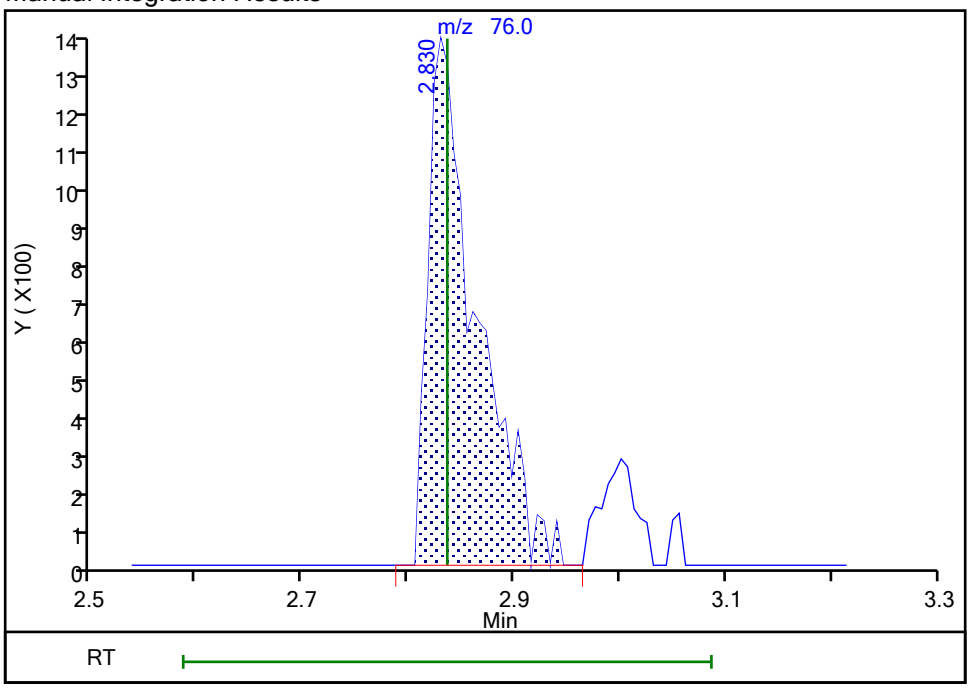
Processing Integration Results

RT: 2.83
Area: 2690
Amount: 0.675083
Amount Units: ug/l



Manual Integration Results

RT: 2.83
Area: 4177
Amount: 1.021023
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

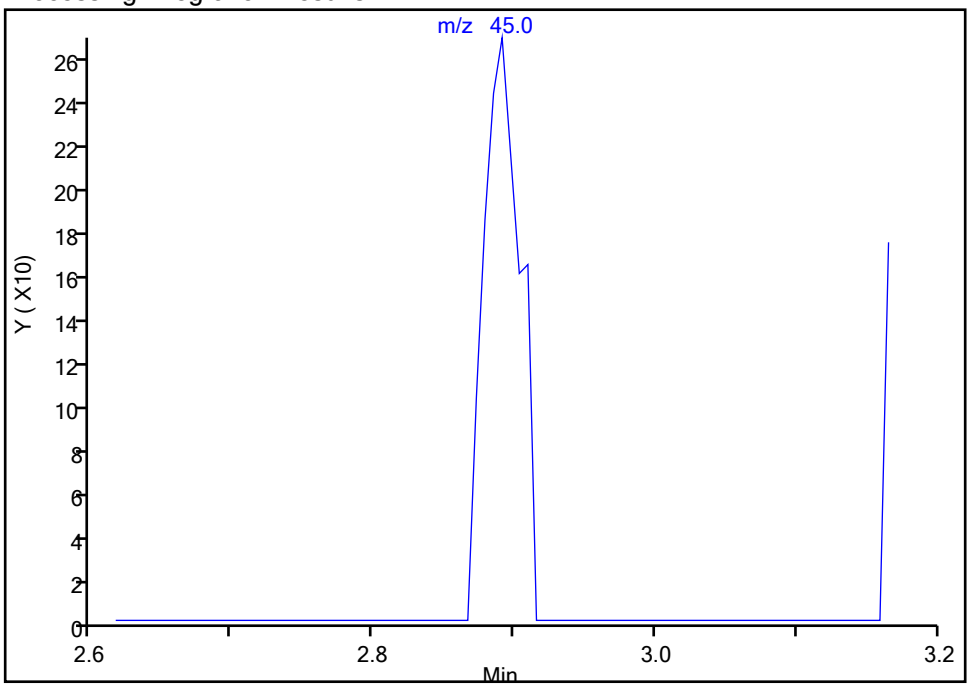
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

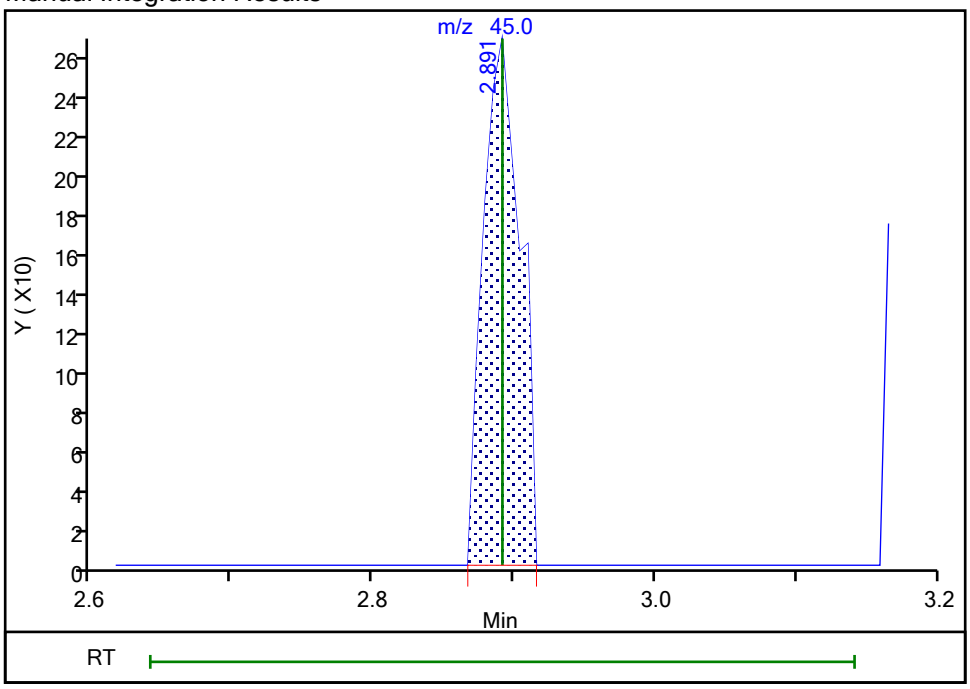
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 477
Amount: 7.535632
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:17
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

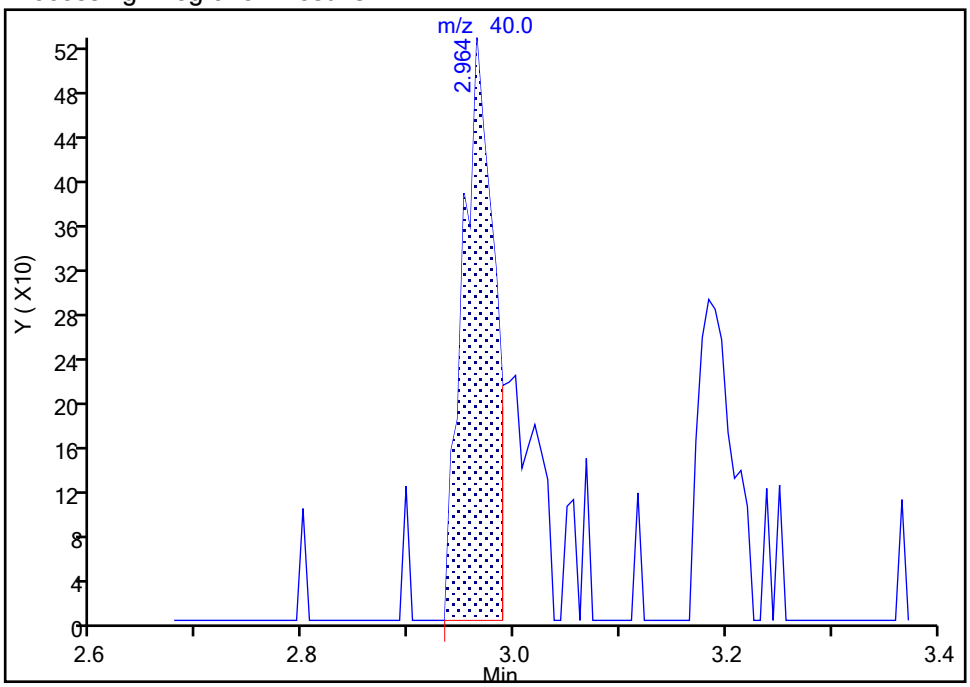
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

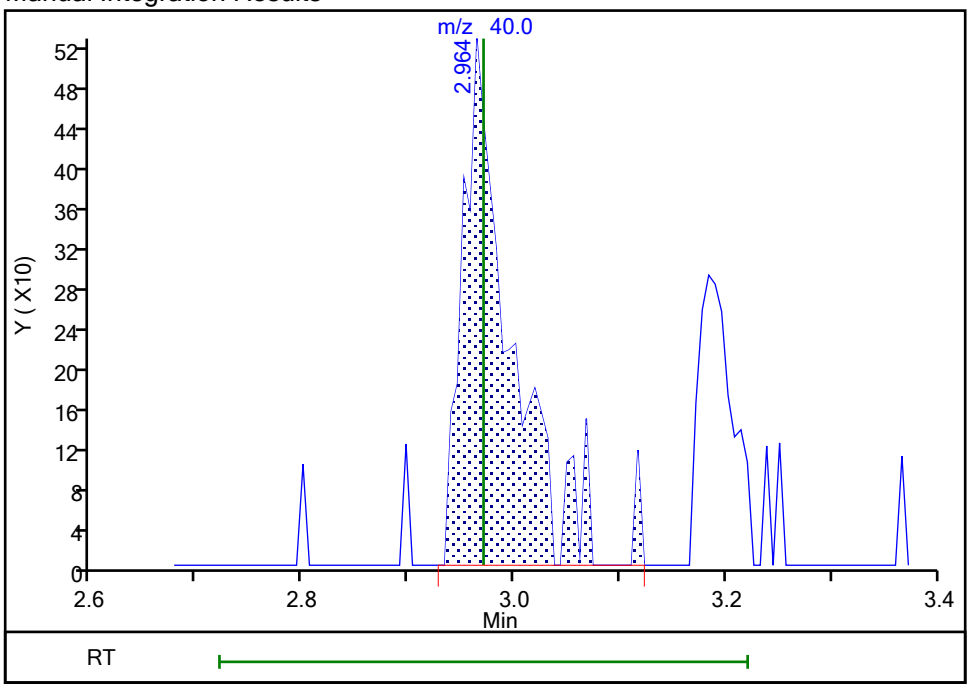
Processing Integration Results

RT: 2.96
Area: 1069
Amount: 11.542046
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 1671
Amount: 12.877963
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

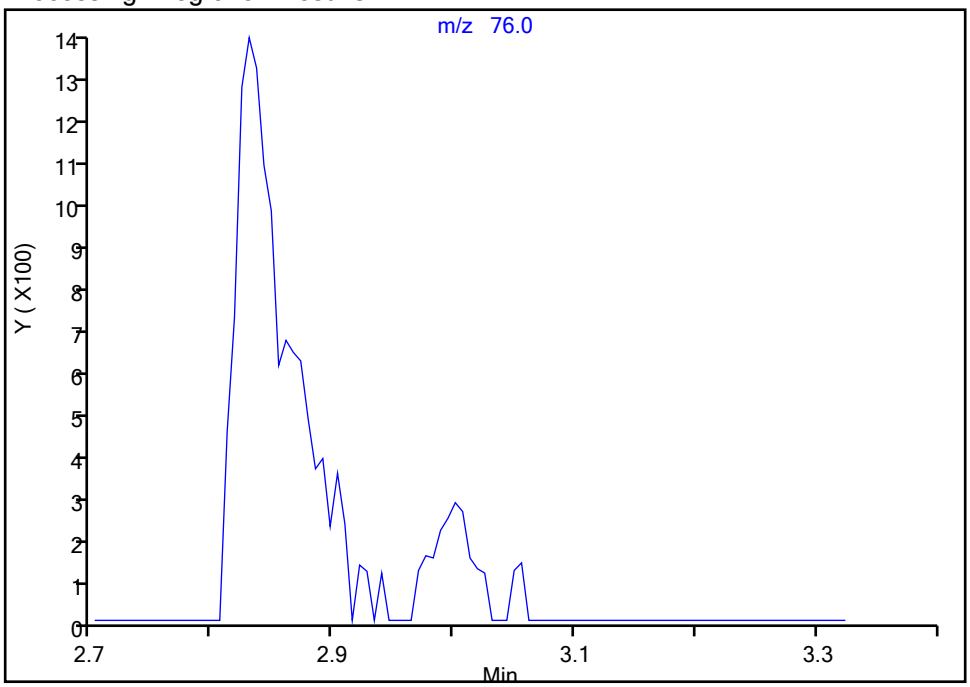
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

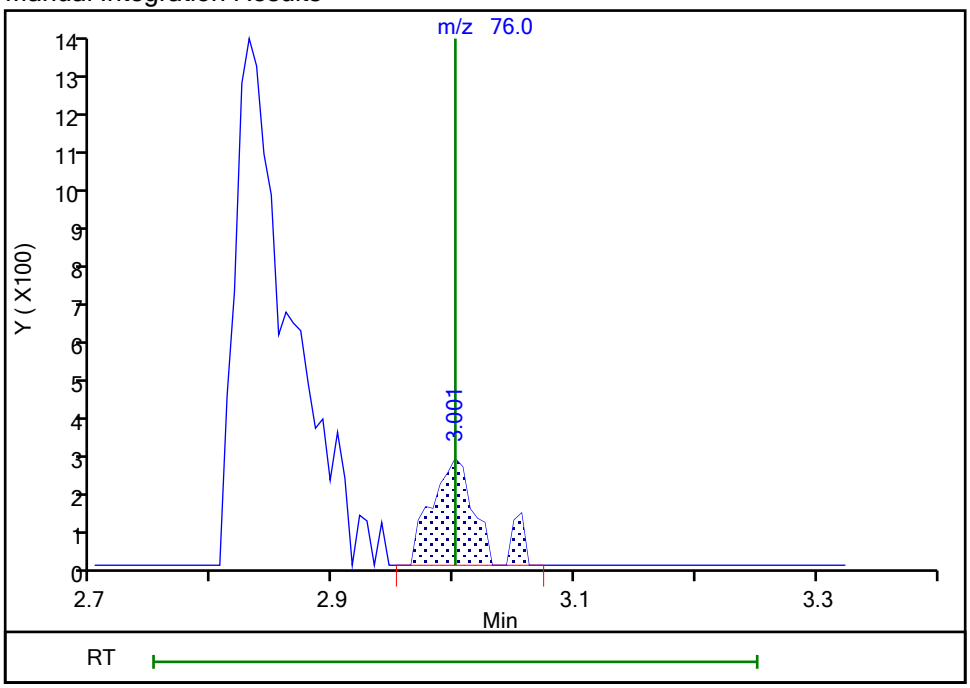
Not Detected
Expected RT: 3.00

Processing Integration Results



Manual Integration Results

RT: 3.00
Area: 709
Amount: 0.794086
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

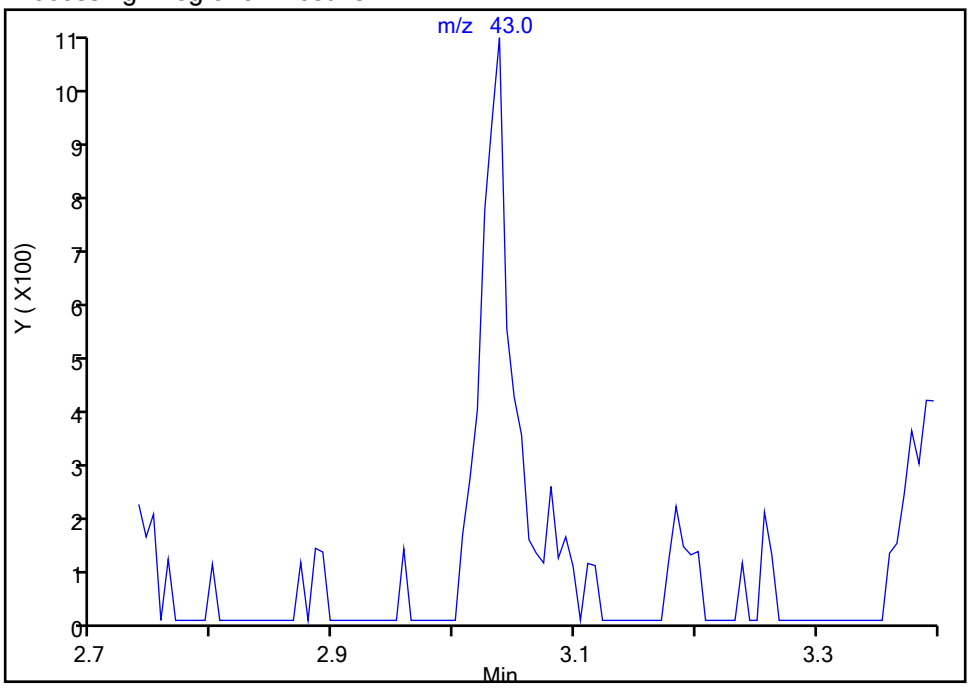
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

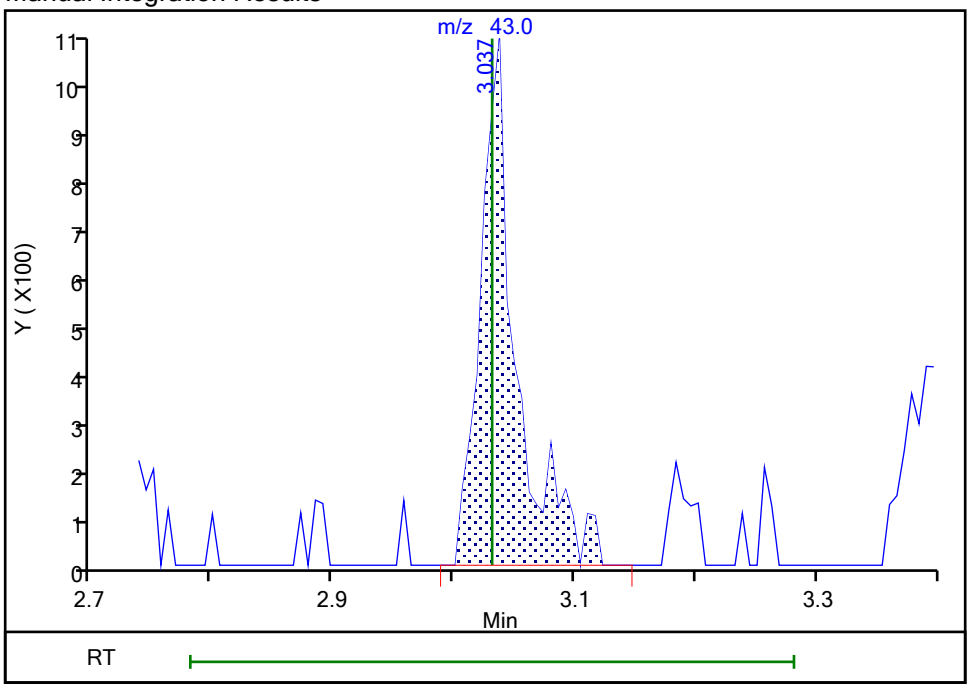
Not Detected
Expected RT: 3.03

Processing Integration Results



Manual Integration Results

RT: 3.04
Area: 2216
Amount: 2.335806
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

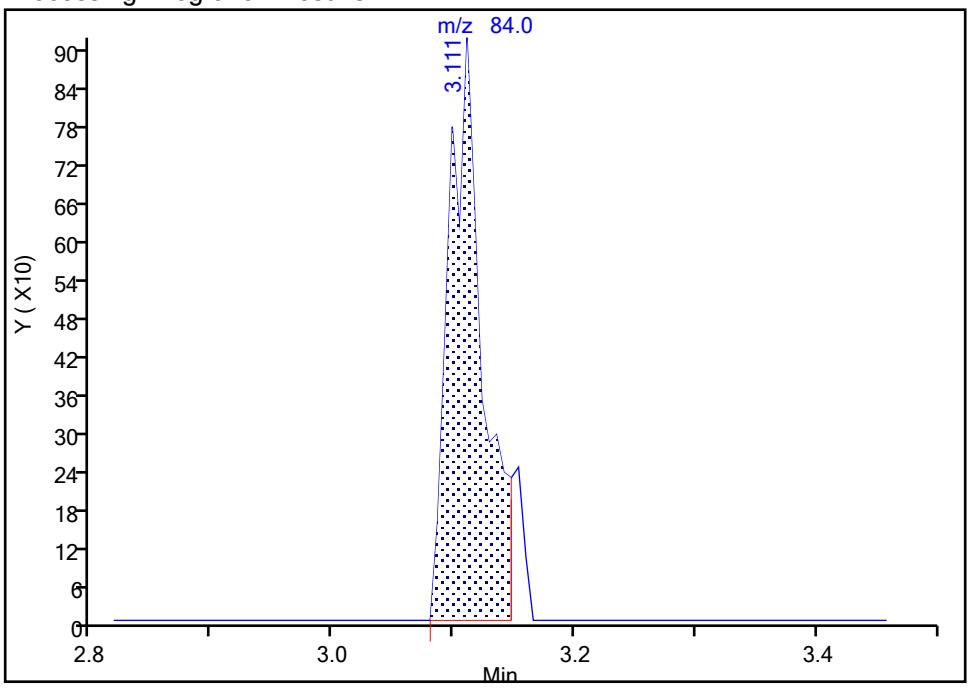
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

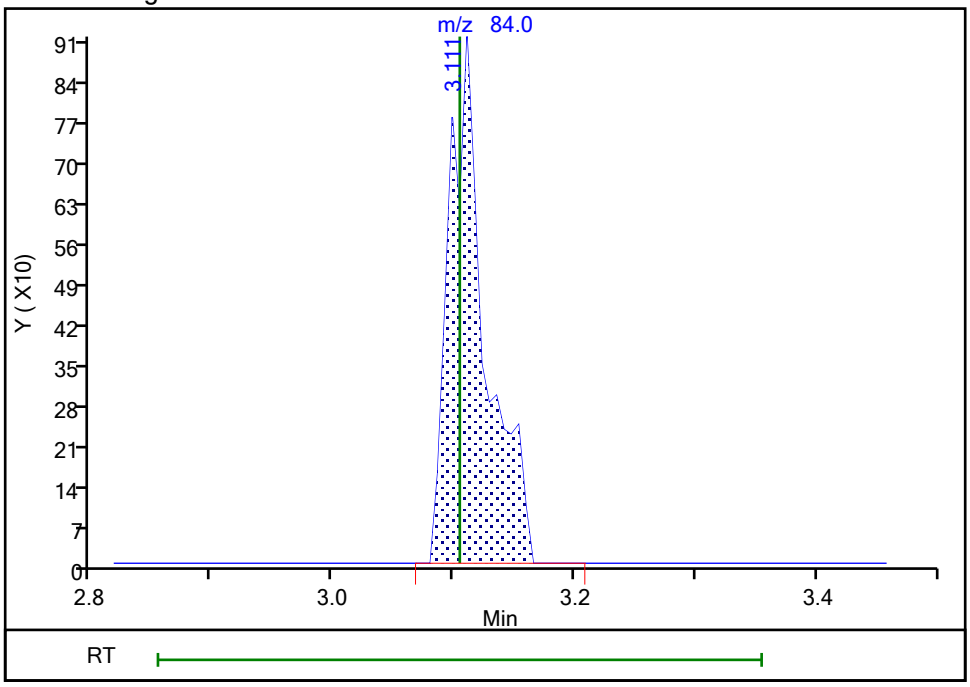
Processing Integration Results

RT: 3.11
Area: 1804
Amount: 1.122767
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 1929
Amount: 1.179178
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

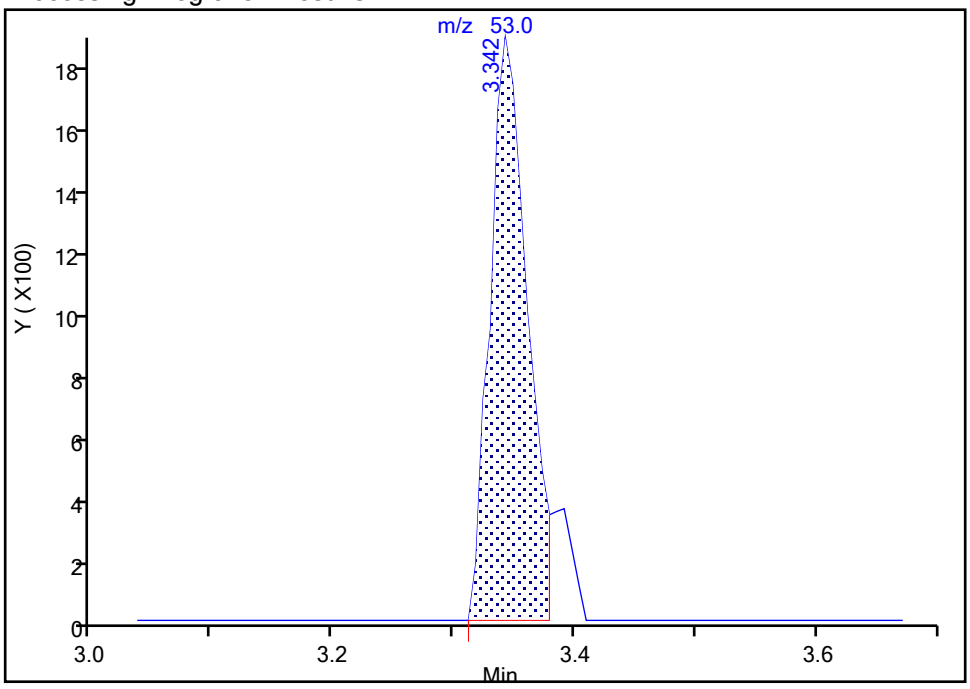
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

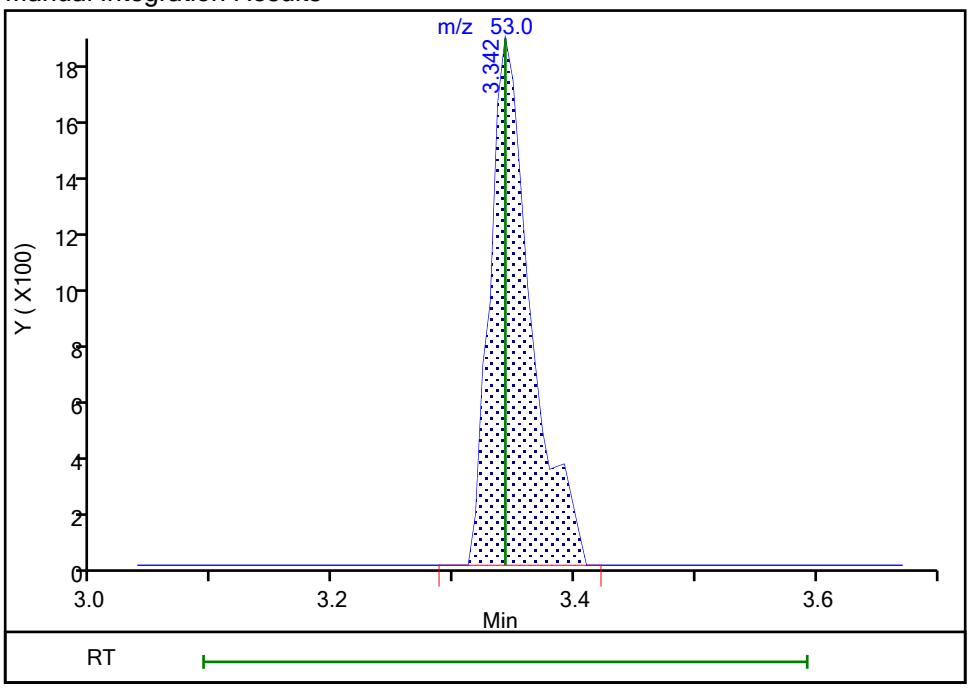
Processing Integration Results

RT: 3.34
Area: 4050
Amount: 8.461050
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 4442
Amount: 9.155953
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

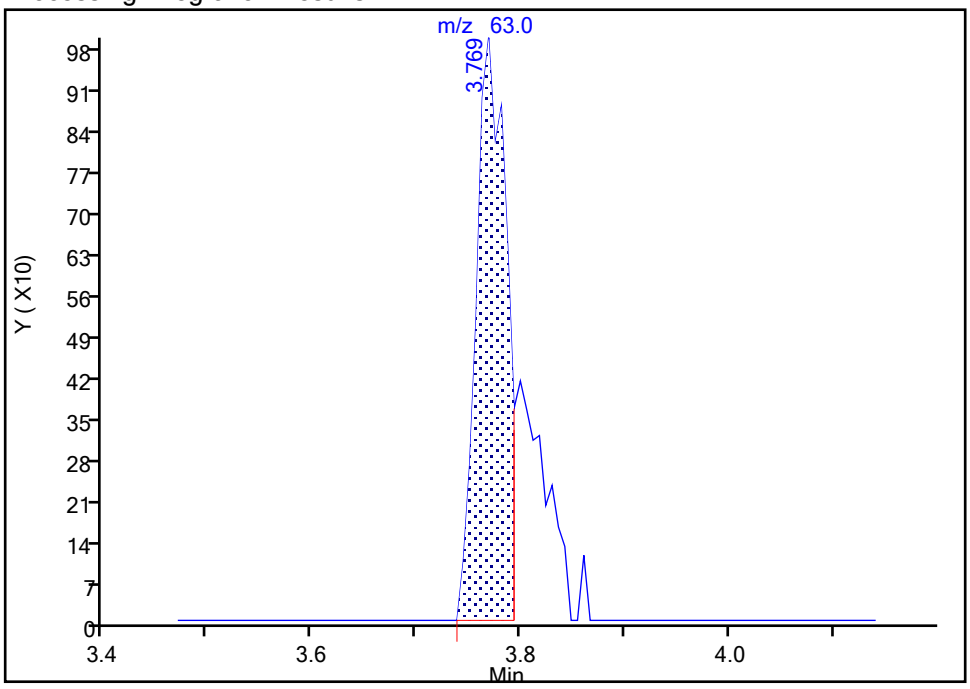
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

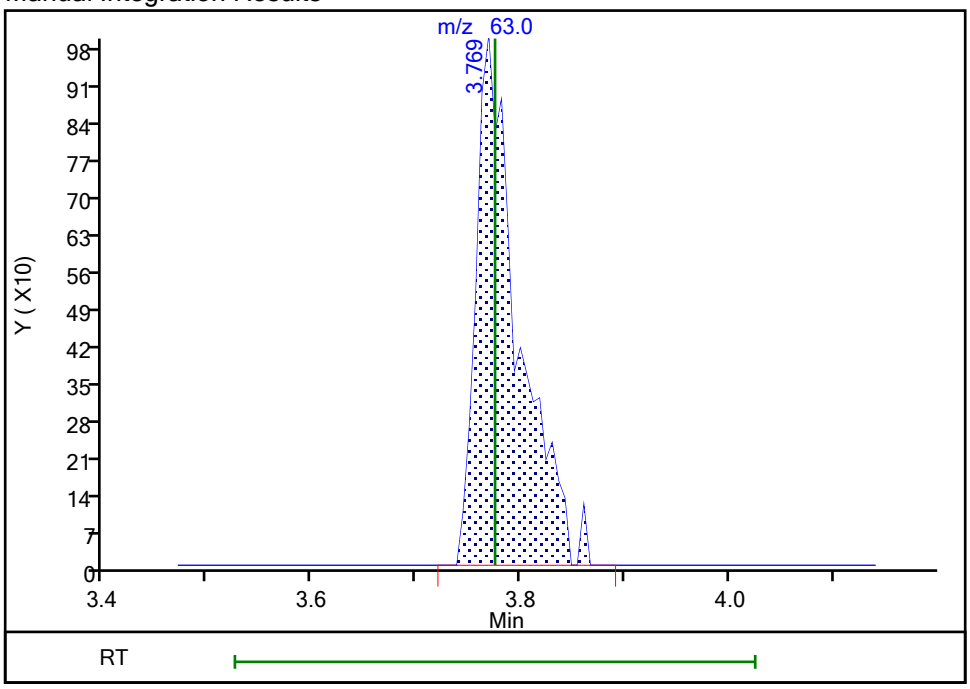
Processing Integration Results

RT: 3.77
Area: 1992
Amount: 0.710487
Amount Units: ug/l



Manual Integration Results

RT: 3.77
Area: 2800
Amount: 0.947070
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

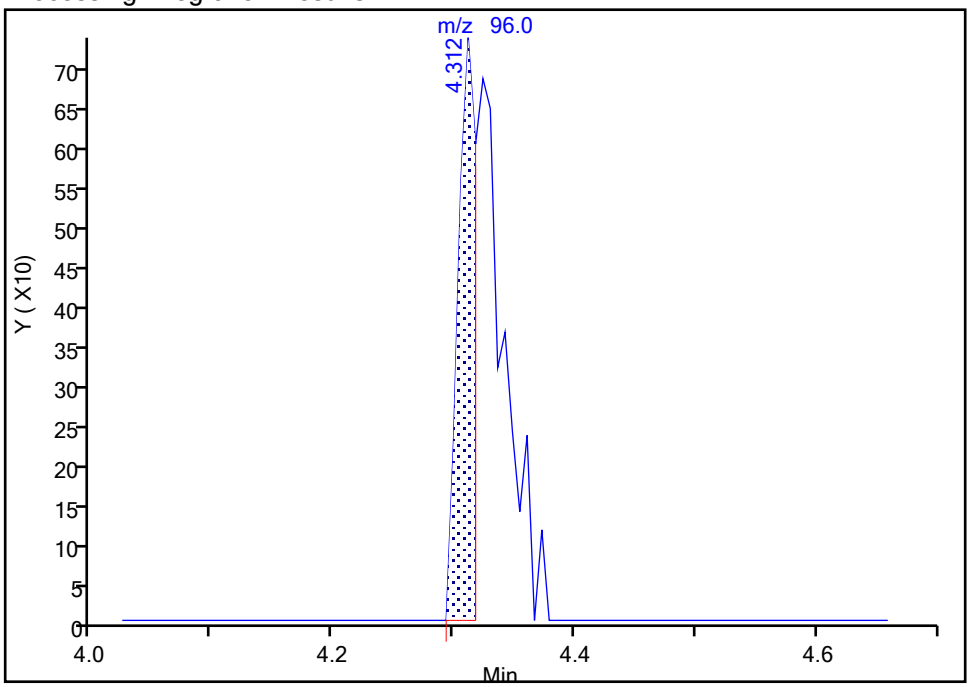
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

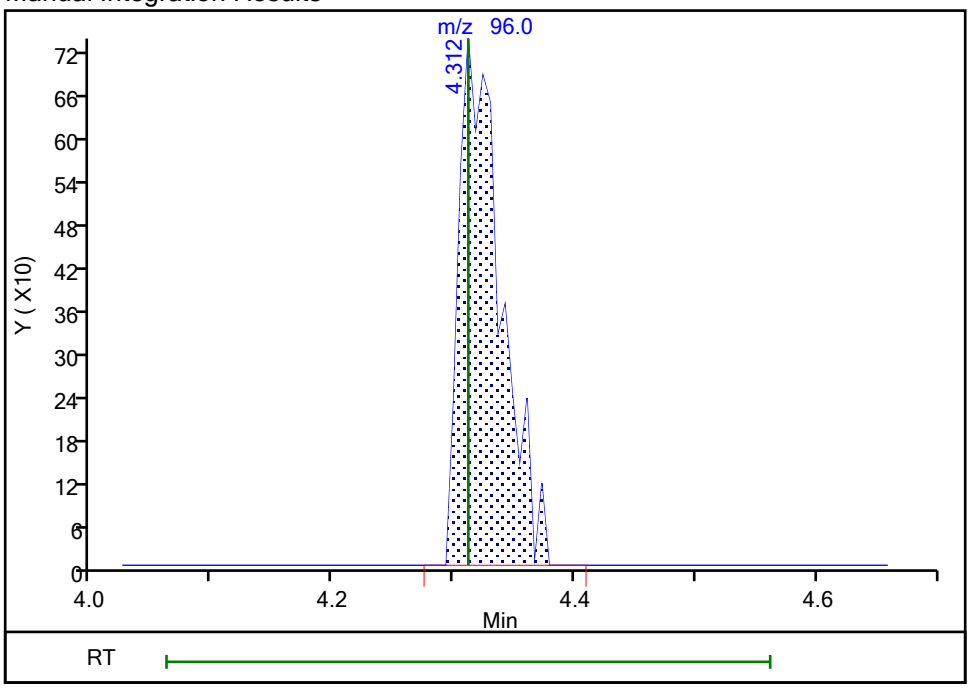
Processing Integration Results

RT: 4.31
Area: 779
Amount: 0.723209
Amount Units: ug/l



Manual Integration Results

RT: 4.31
Area: 1787
Amount: 0.990755
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

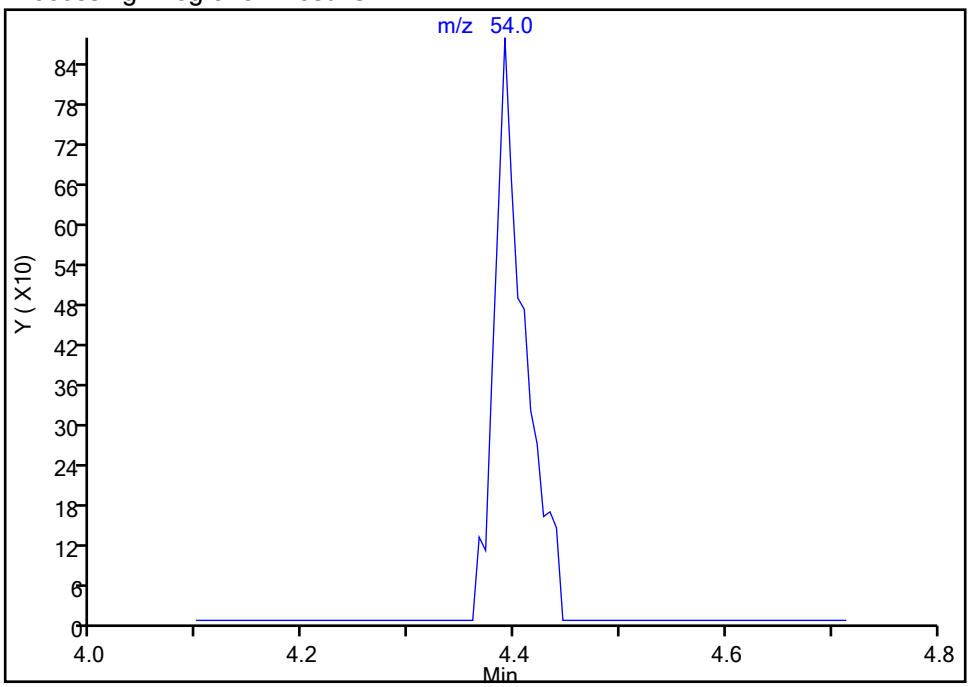
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

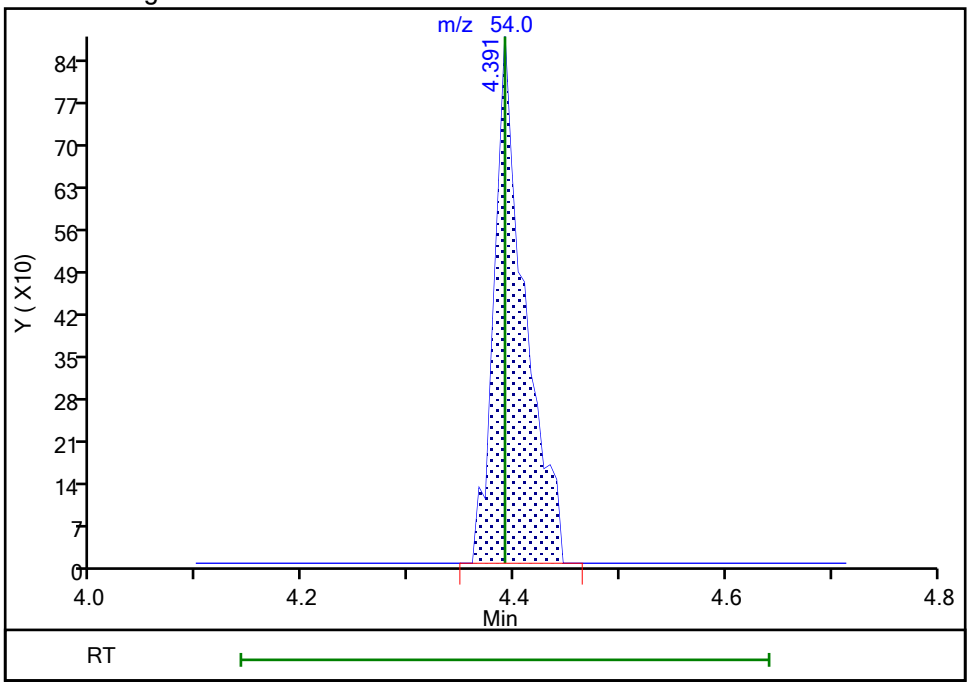
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 1738
Amount: 9.009314
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

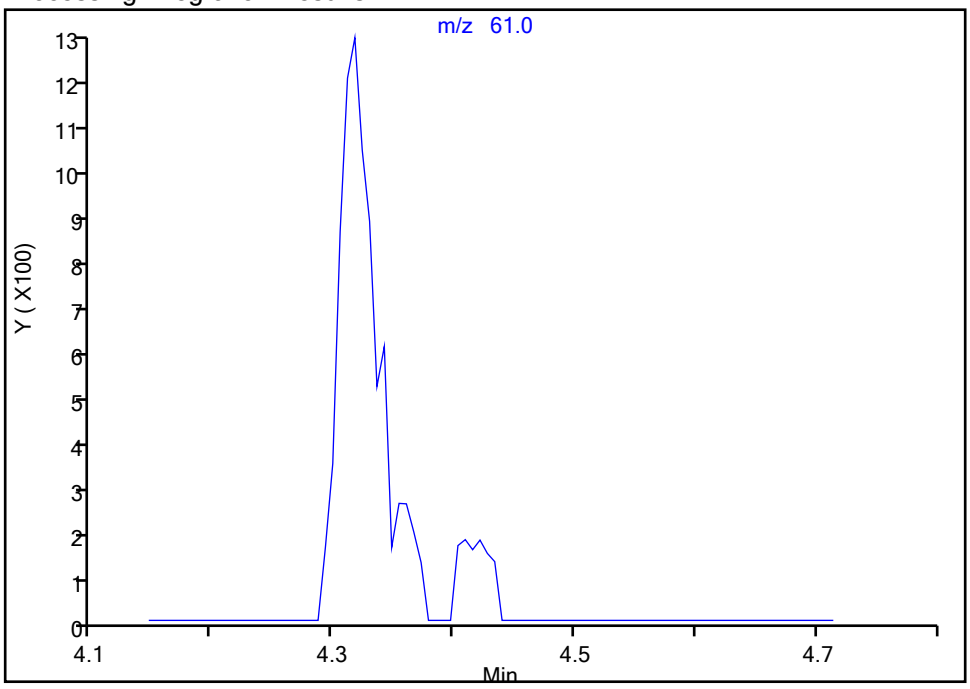
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

104 Ethyl acetate, CAS: 141-78-6

Signal: 1

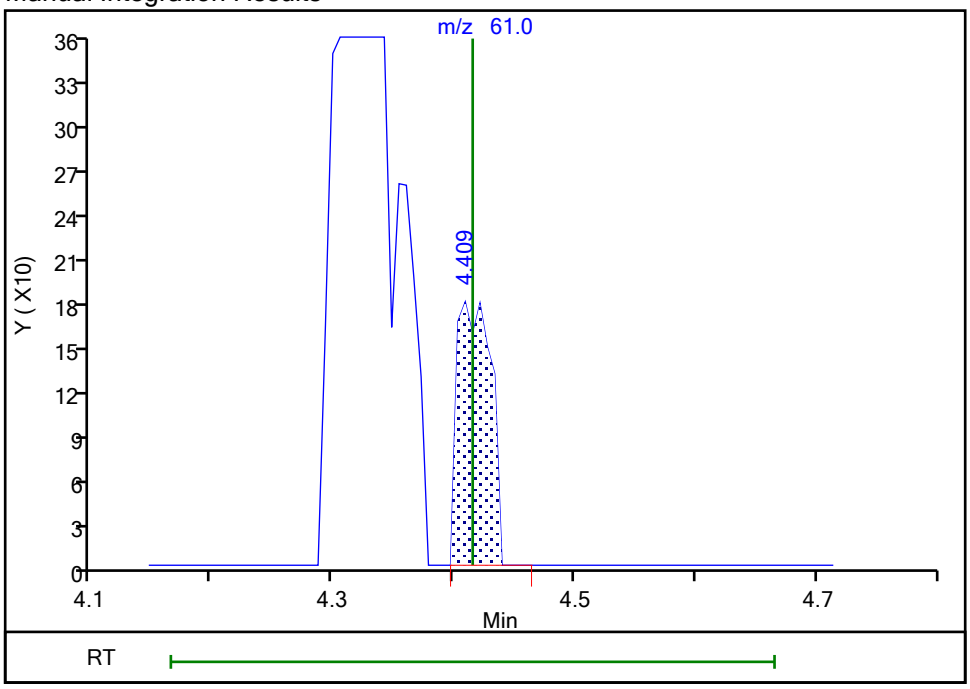
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 345
Amount: 1.562022
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

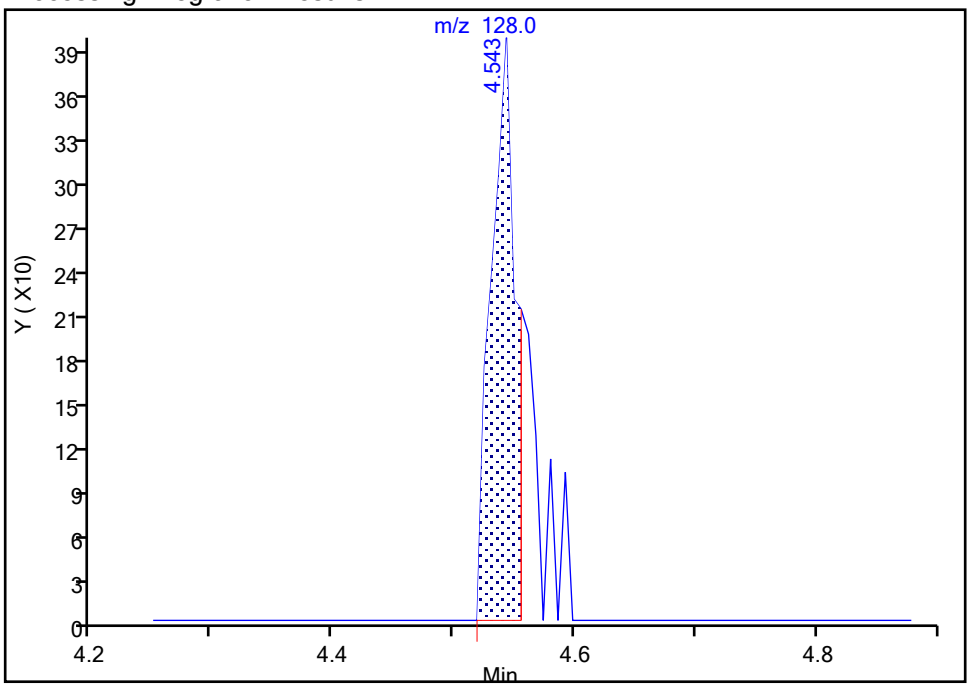
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

42 Chlorobromomethane, CAS: 74-97-5

Signal: 1

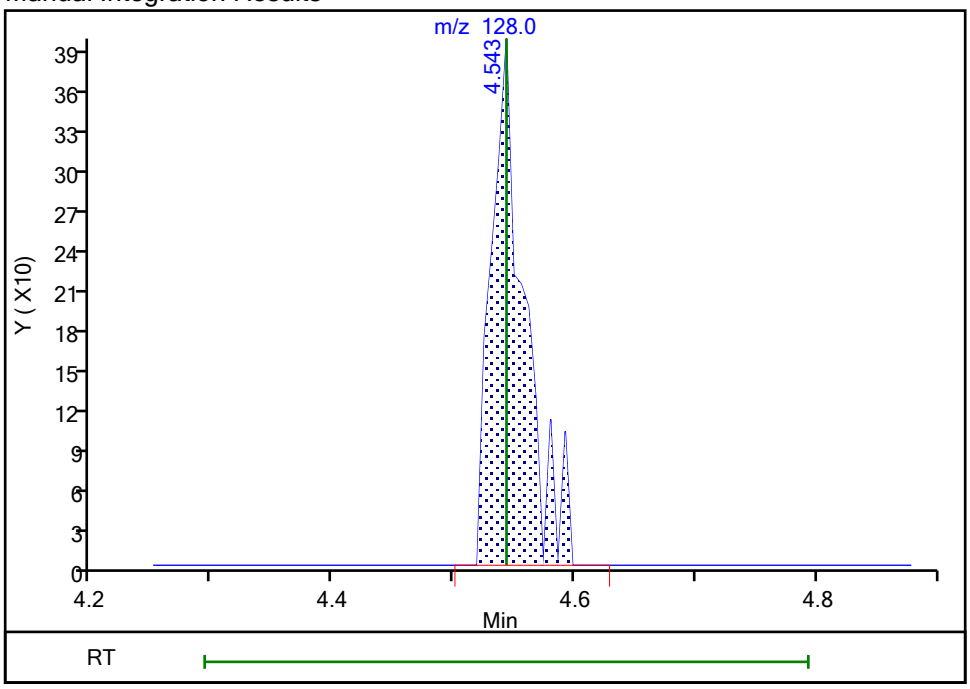
Processing Integration Results

RT: 4.54
Area: 565
Amount: 0.974164
Amount Units: ug/l



Manual Integration Results

RT: 4.54
Area: 760
Amount: 1.008456
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

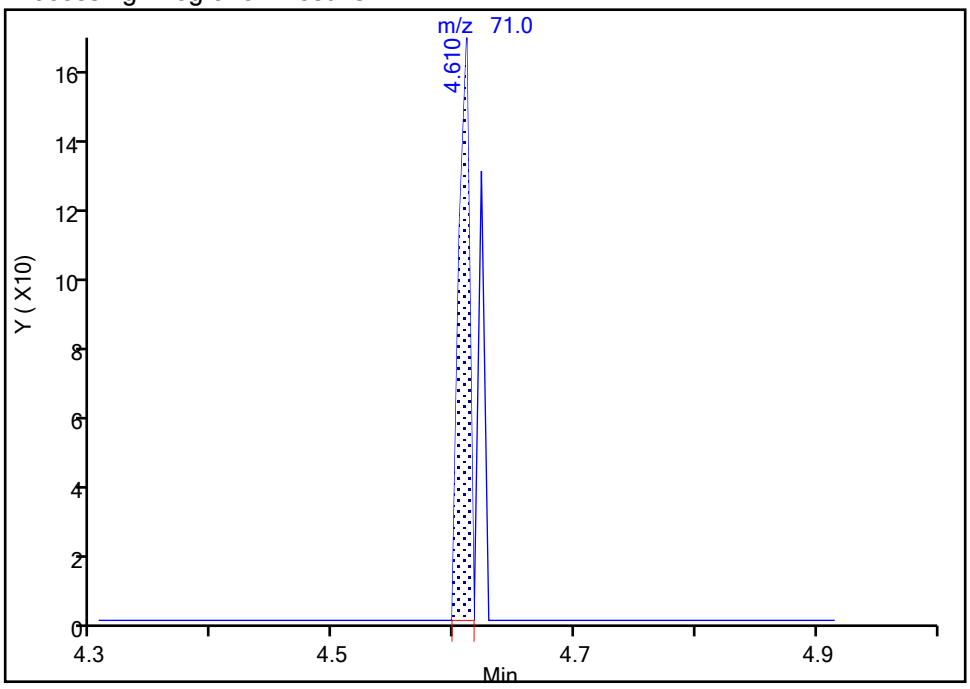
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

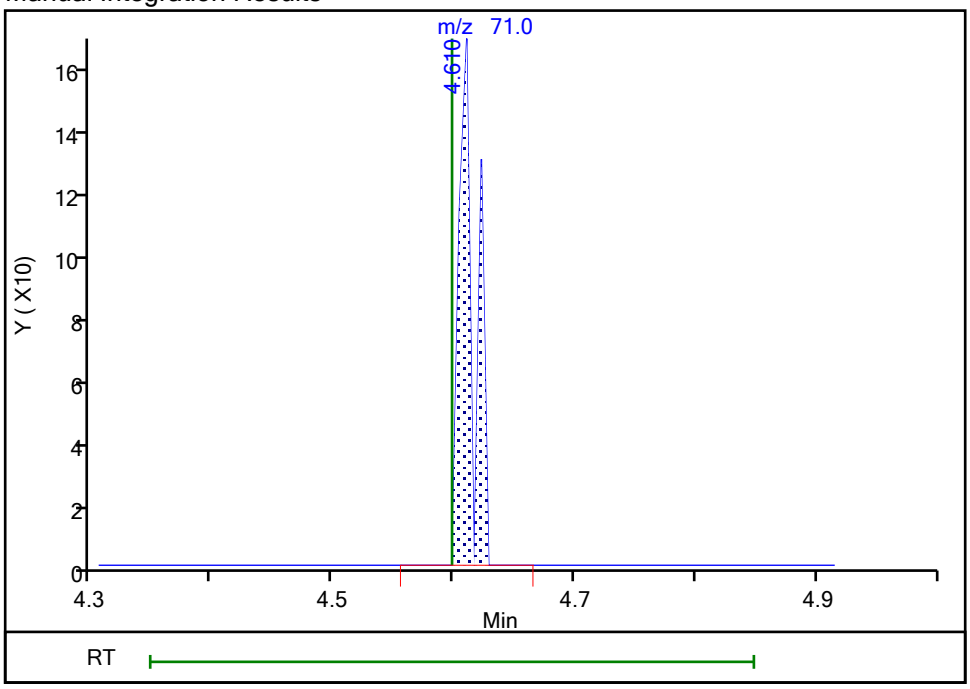
Processing Integration Results

RT: 4.61
Area: 102
Amount: 1.591512
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 149
Amount: 1.112759
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

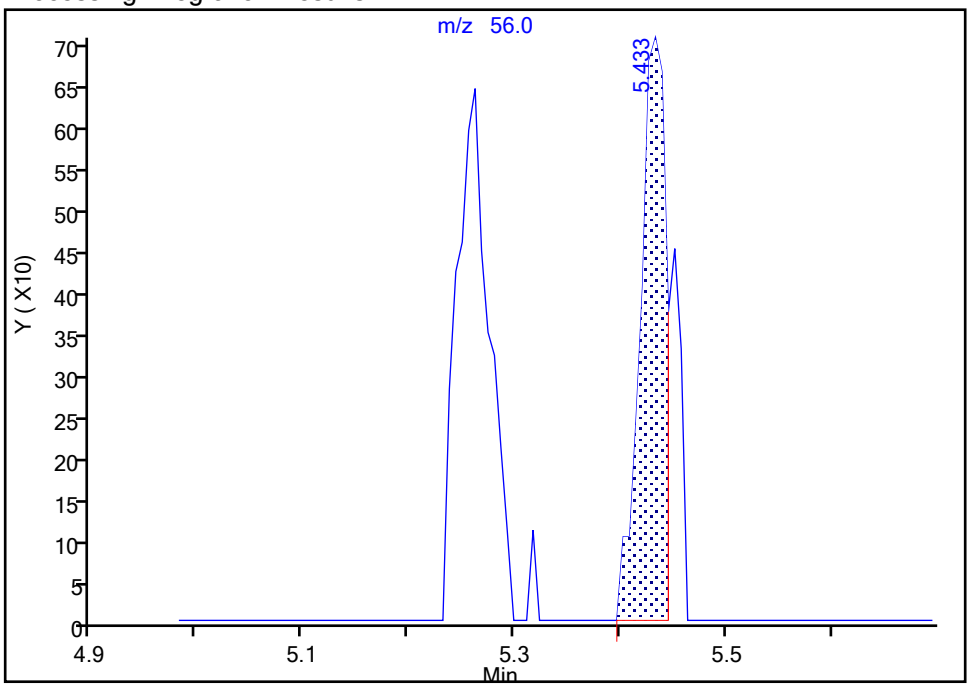
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

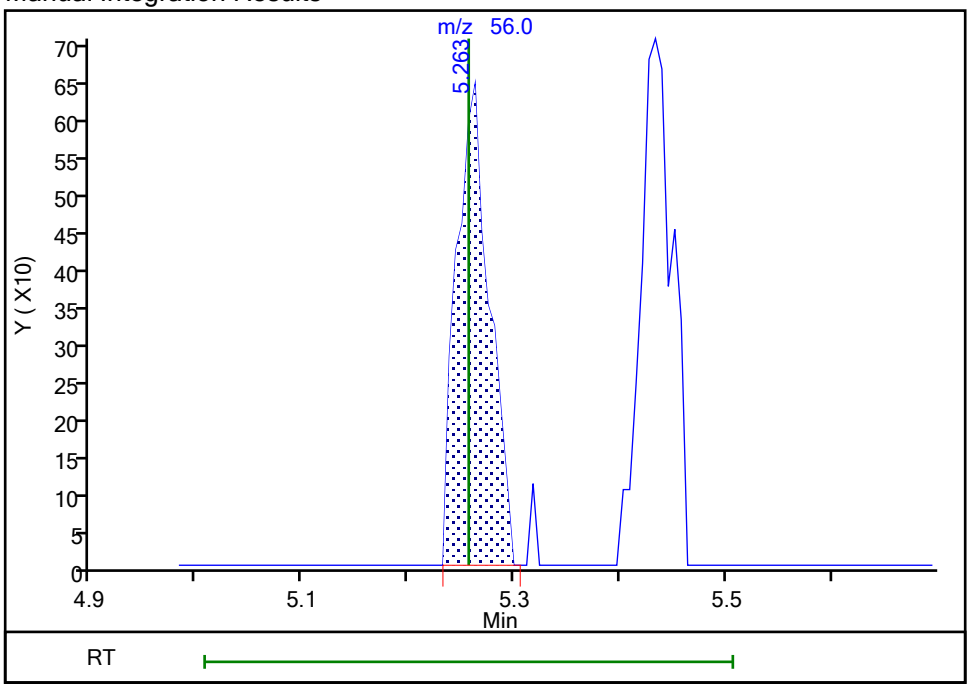
Processing Integration Results

RT: 5.43
Area: 1205
Amount: 99.647619
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 1411
Amount: 20.911386
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:16
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

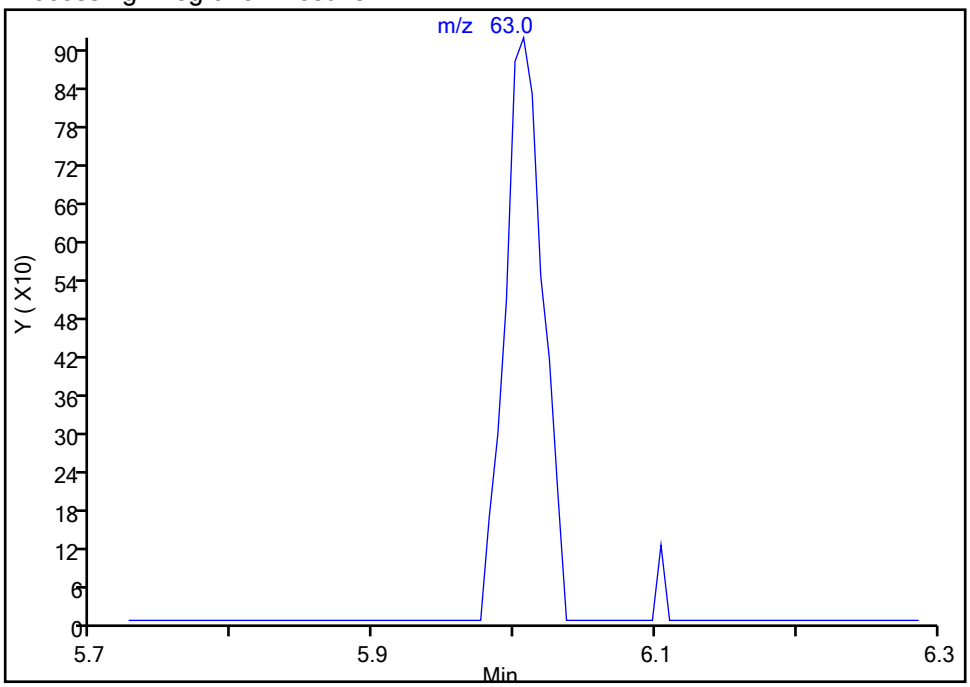
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

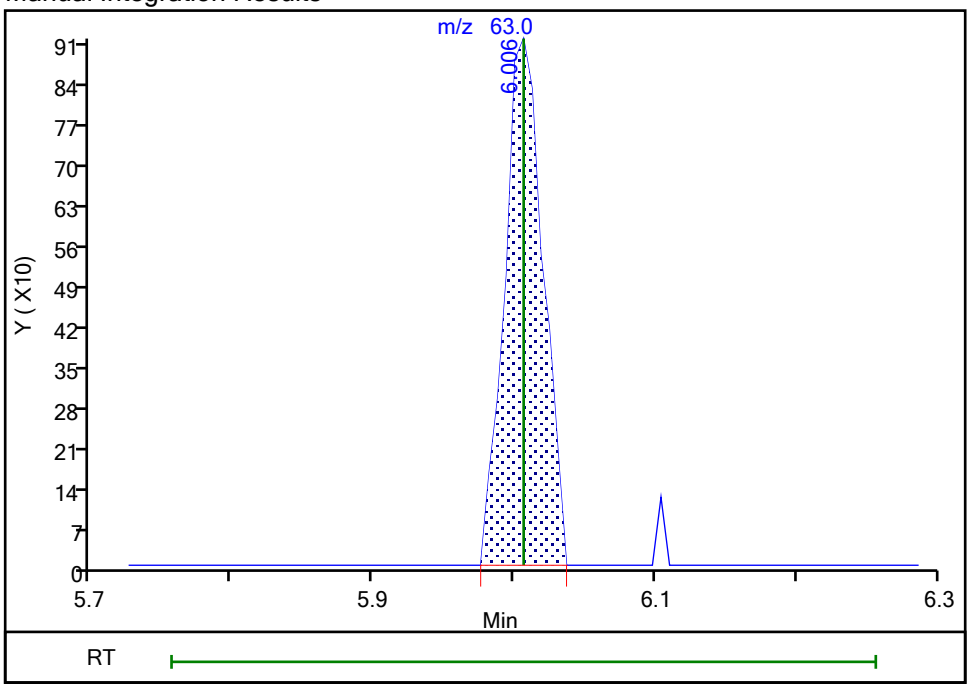
Not Detected
Expected RT: 6.01

Processing Integration Results



Manual Integration Results

RT: 6.01
Area: 1725
Amount: 1.017574
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:03
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

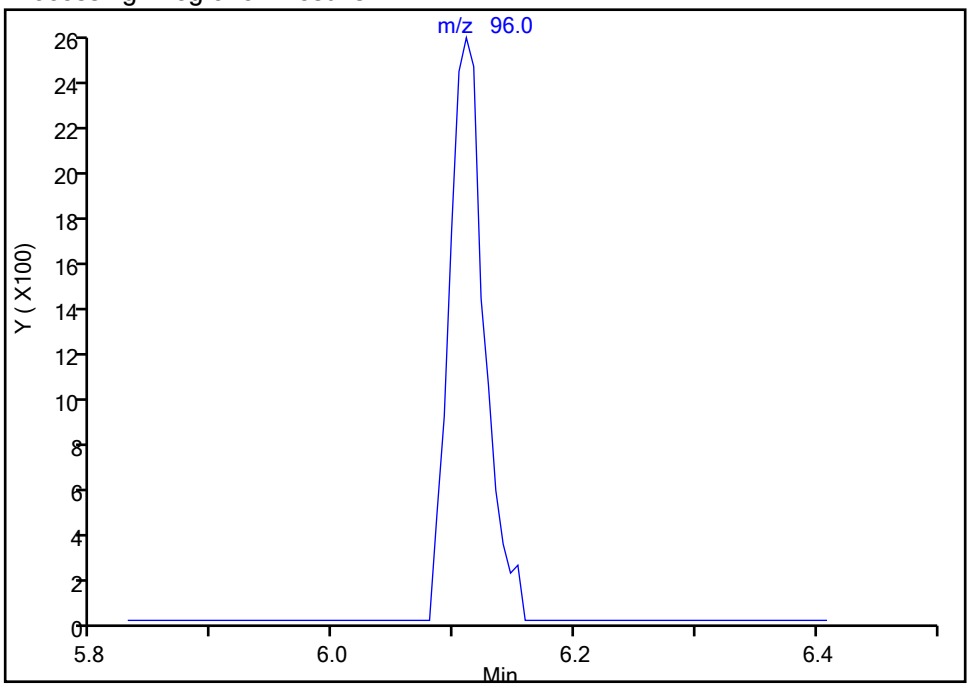
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

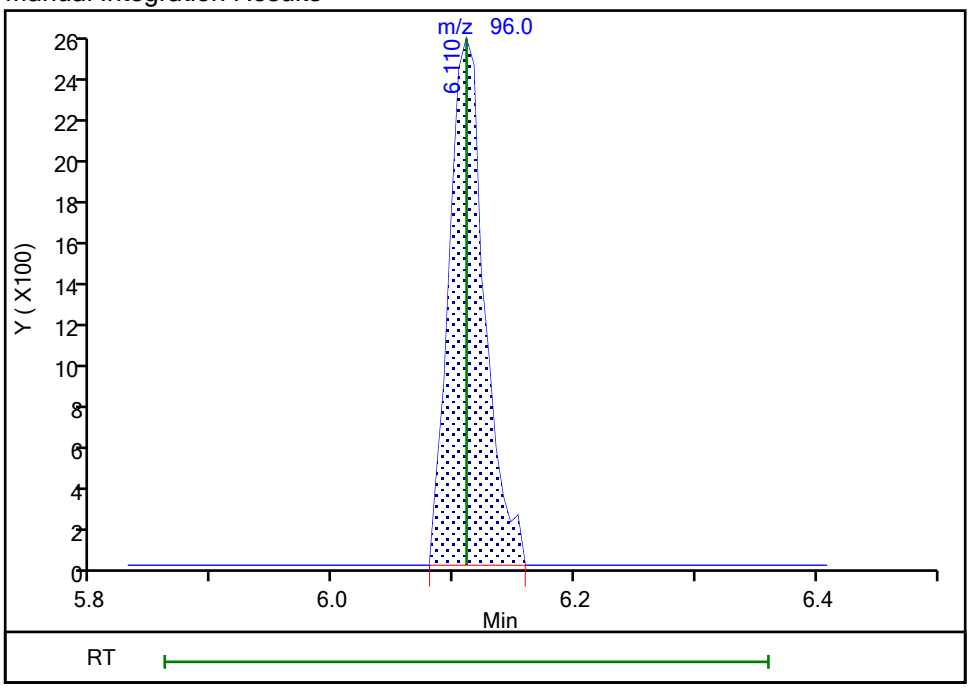
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5109
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:20:13
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

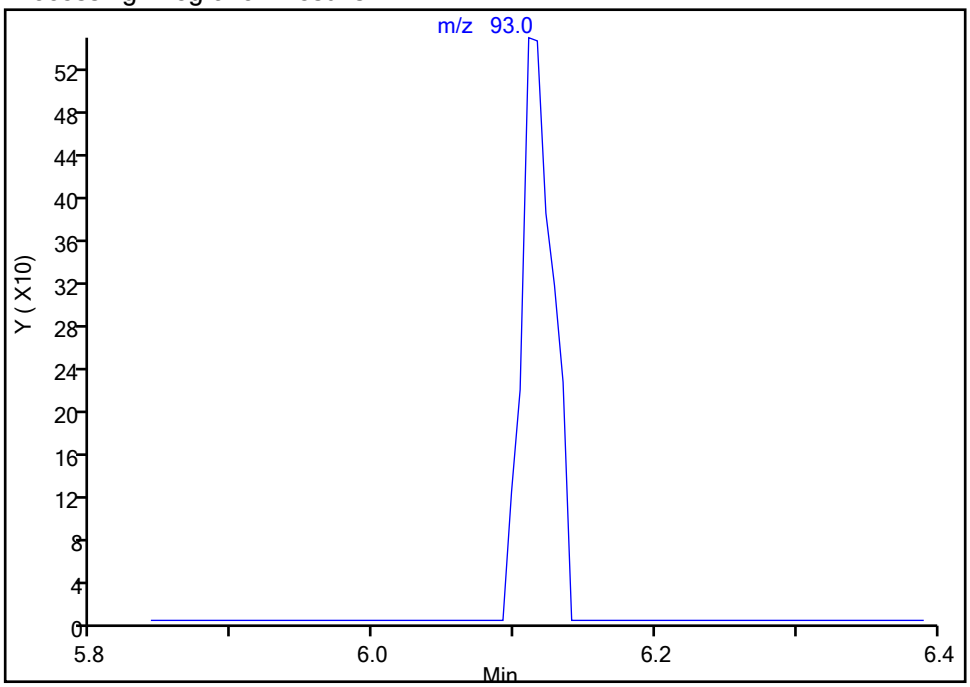
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

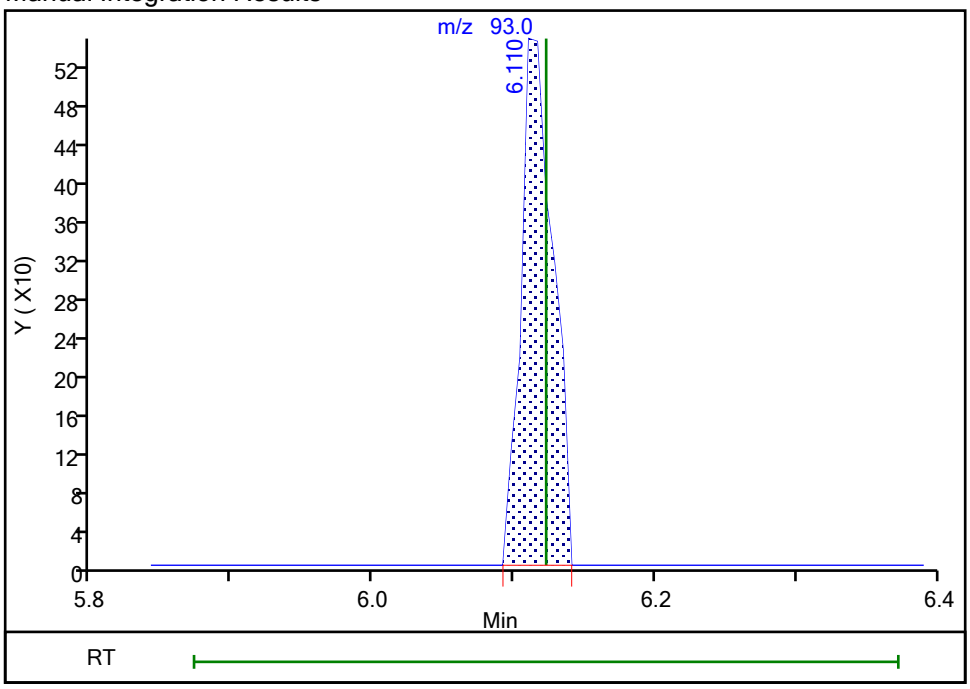
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 861
Amount: 0.955913
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:57
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

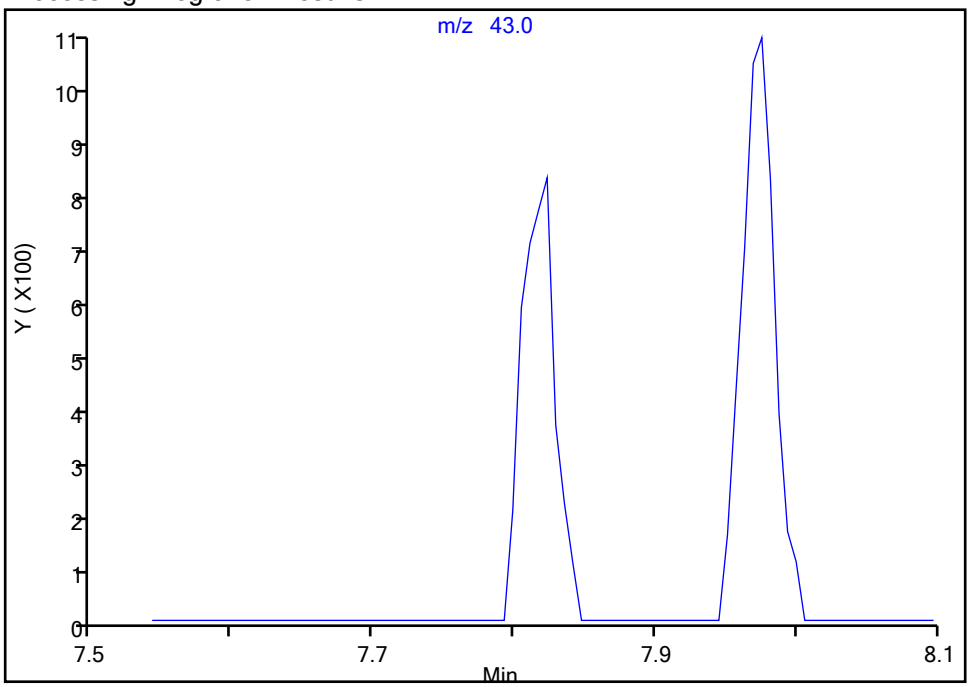
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

68 2-Hexanone, CAS: 591-78-6

Signal: 1

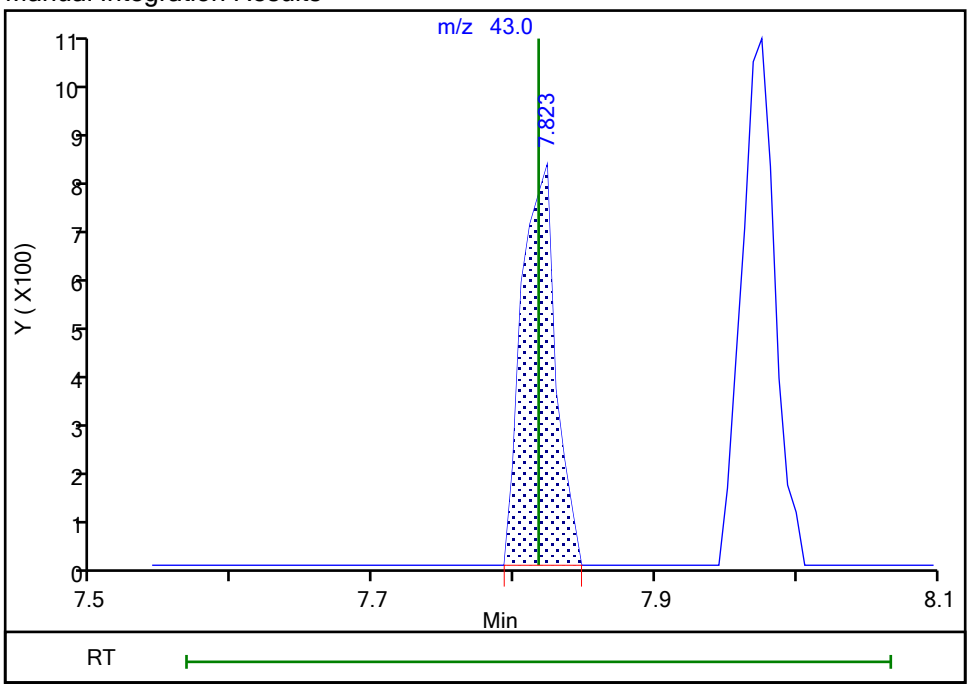
Not Detected
Expected RT: 7.82

Processing Integration Results



Manual Integration Results

RT: 7.82
Area: 1326
Amount: 1.566414
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:38
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

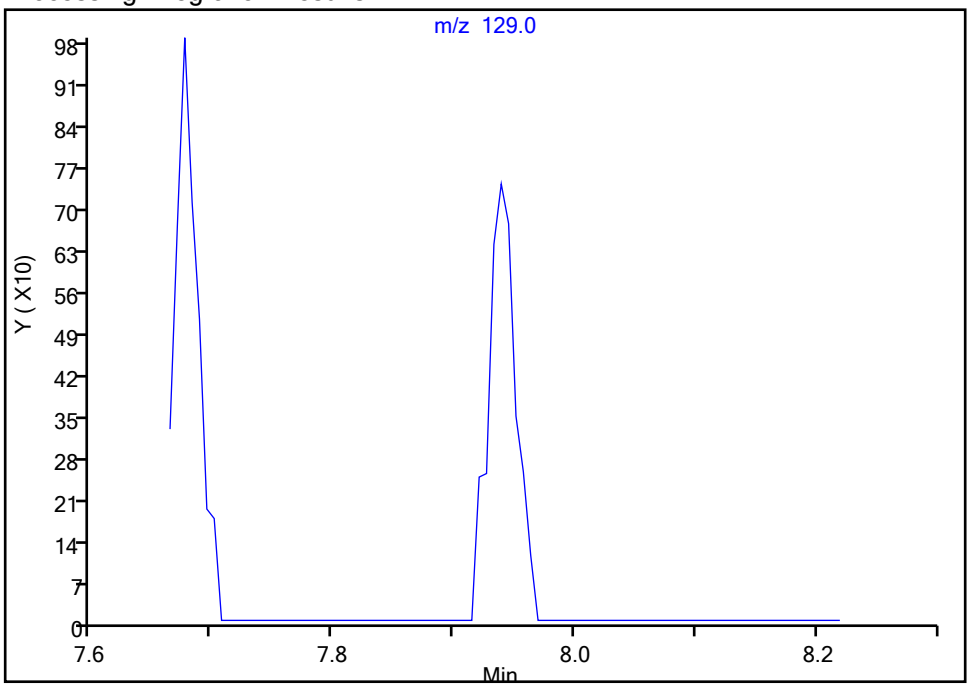
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

69 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

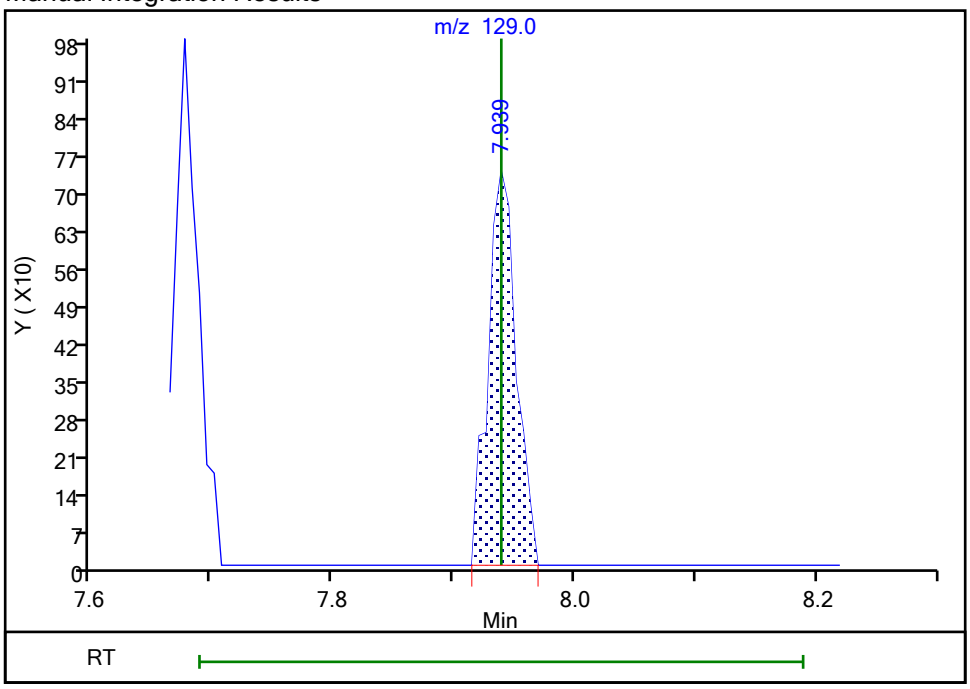
Not Detected
Expected RT: 7.94

Processing Integration Results



Manual Integration Results

RT: 7.94
Area: 1184
Amount: 0.787148
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:31
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

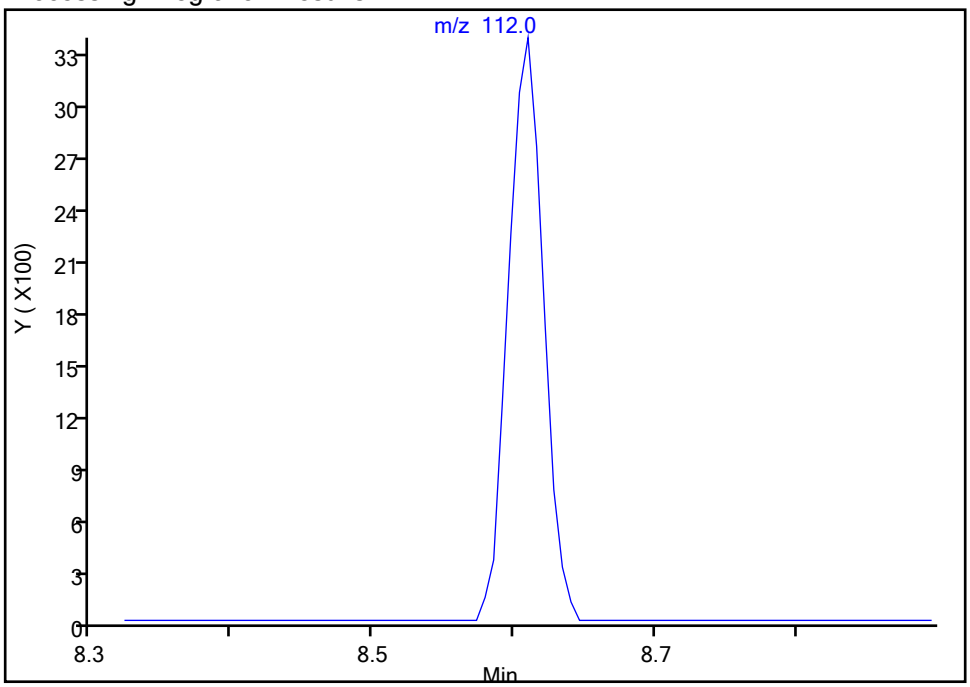
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

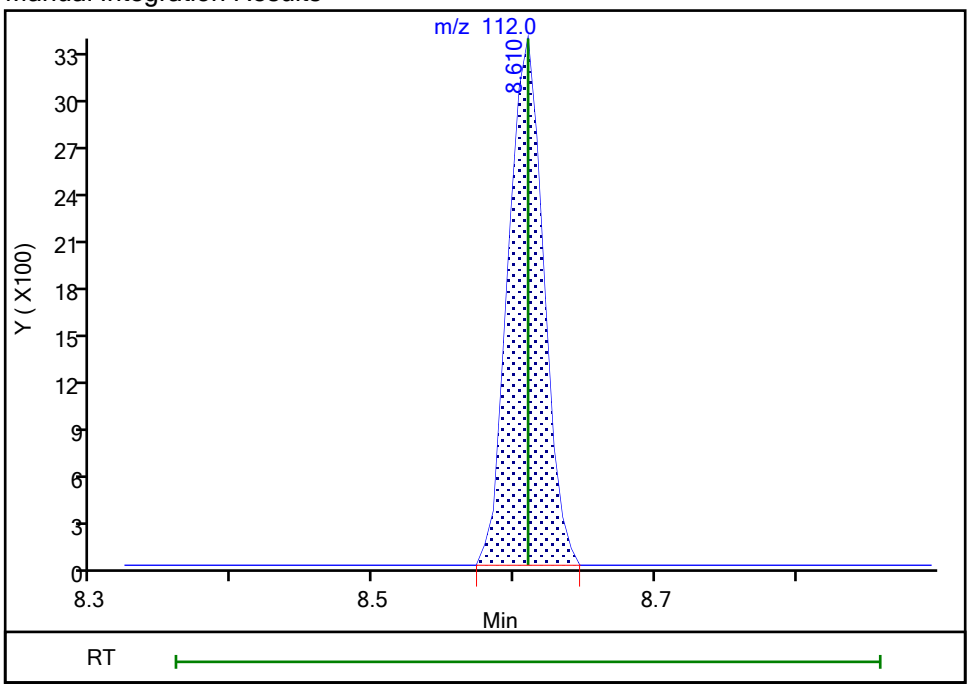
Not Detected
Expected RT: 8.61

Processing Integration Results



Manual Integration Results

RT: 8.61
Area: 5797
Amount: 1.119317
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:19
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

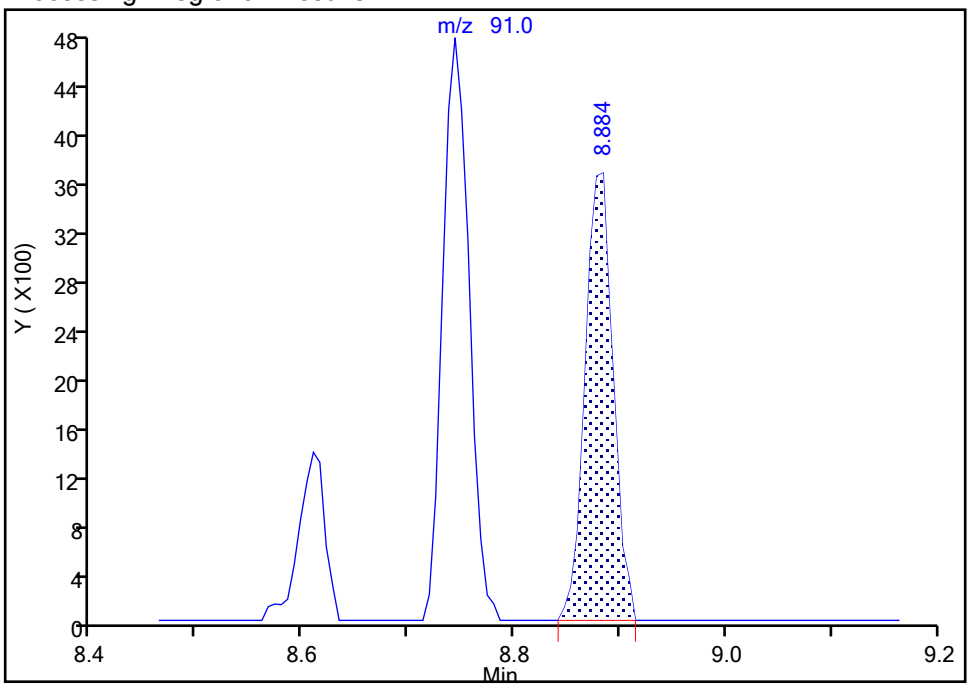
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

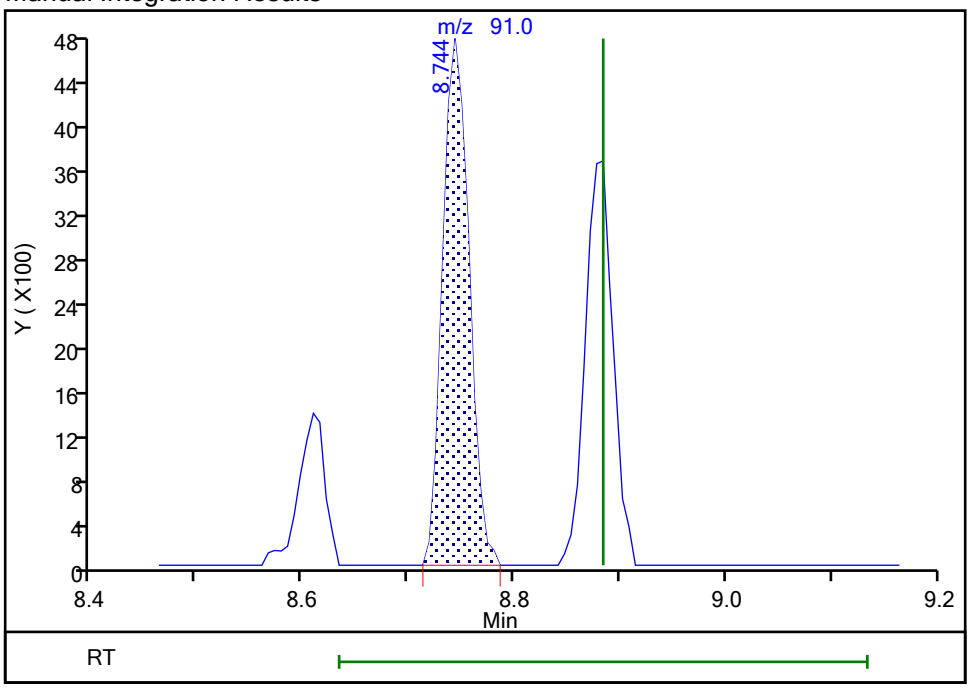
Processing Integration Results

RT: 8.88
Area: 6648
Amount: 0.925934
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 8228
Amount: 0.907615
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:08
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

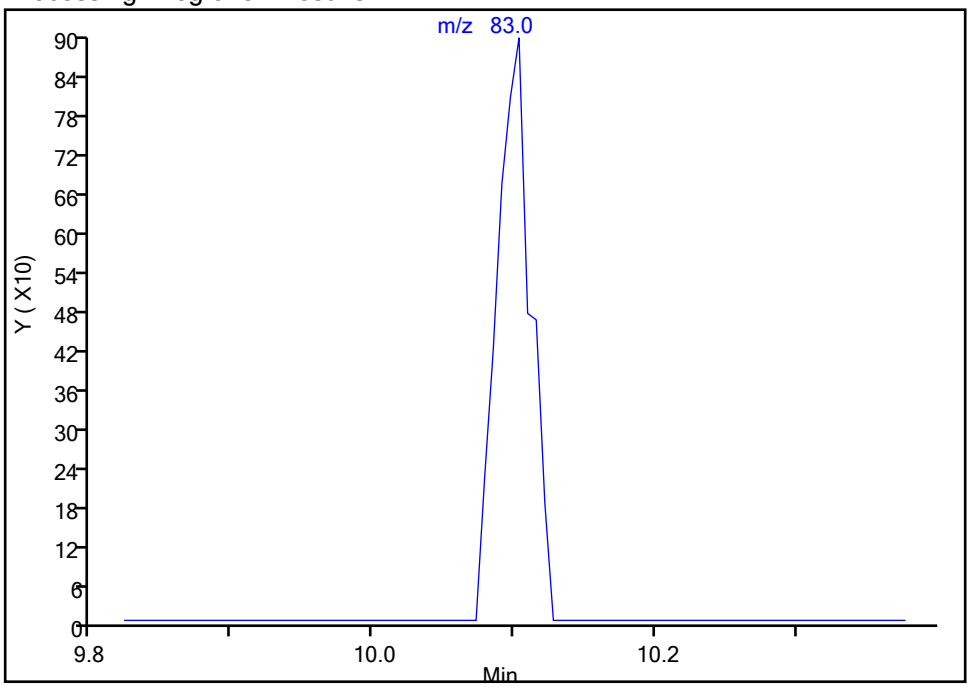
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

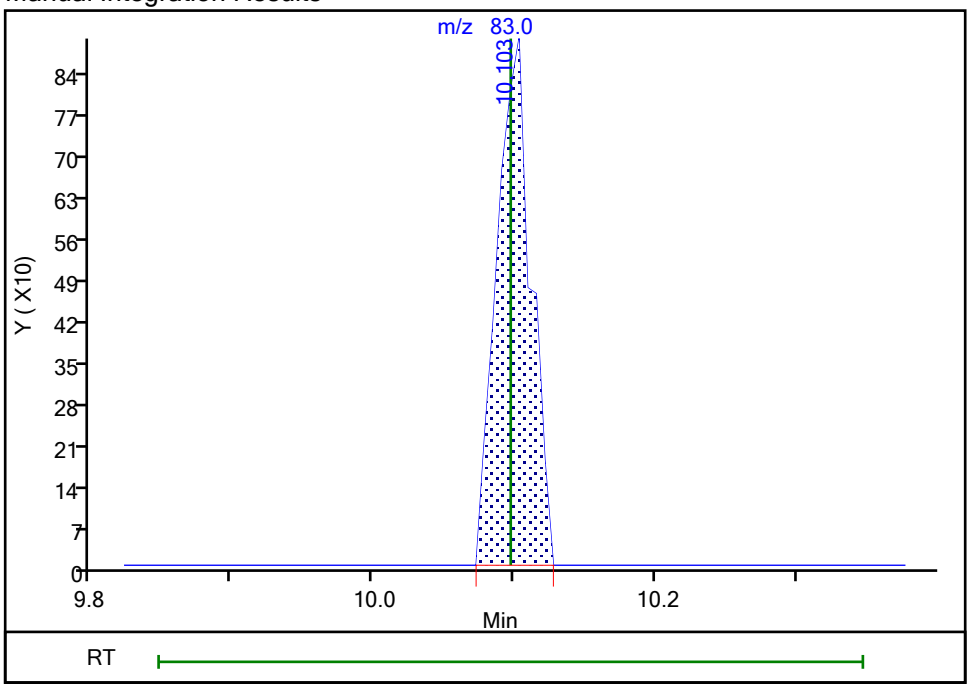
Not Detected
Expected RT: 10.10

Processing Integration Results



Manual Integration Results

RT: 10.10
Area: 1502
Amount: 0.966677
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:46
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

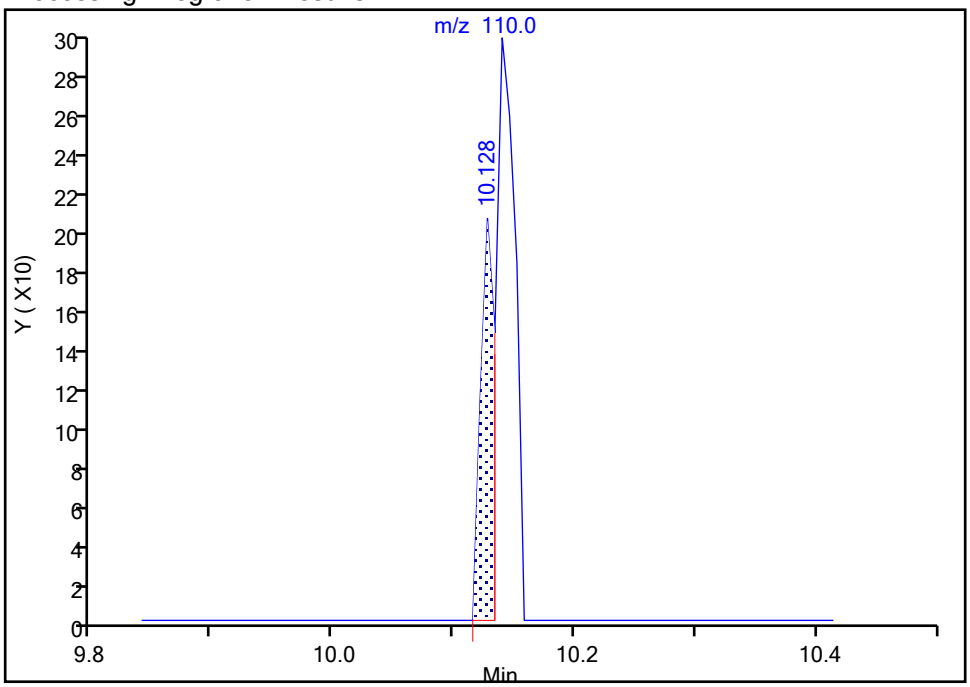
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

81 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

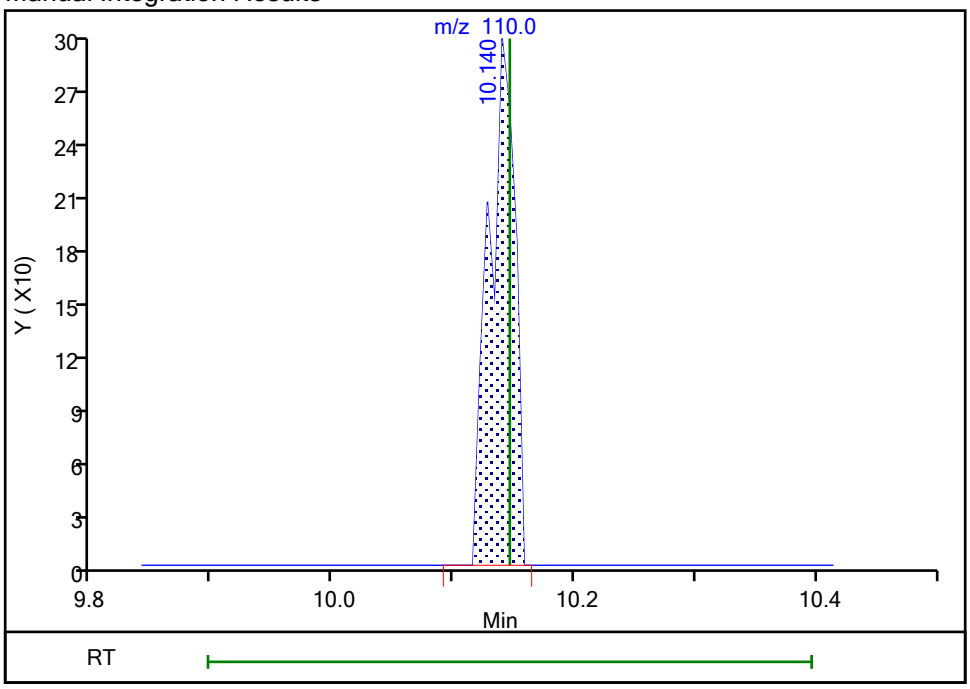
Processing Integration Results

RT: 10.13
Area: 171
Amount: 0.349784
Amount Units: ug/l



Manual Integration Results

RT: 10.14
Area: 444
Amount: 0.816515
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

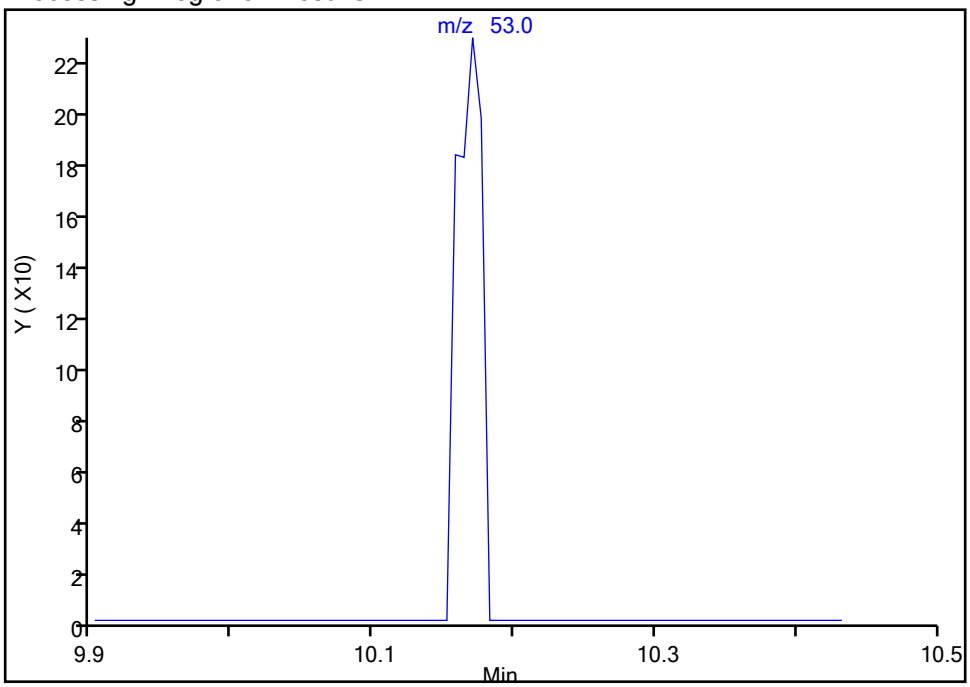
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

82 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

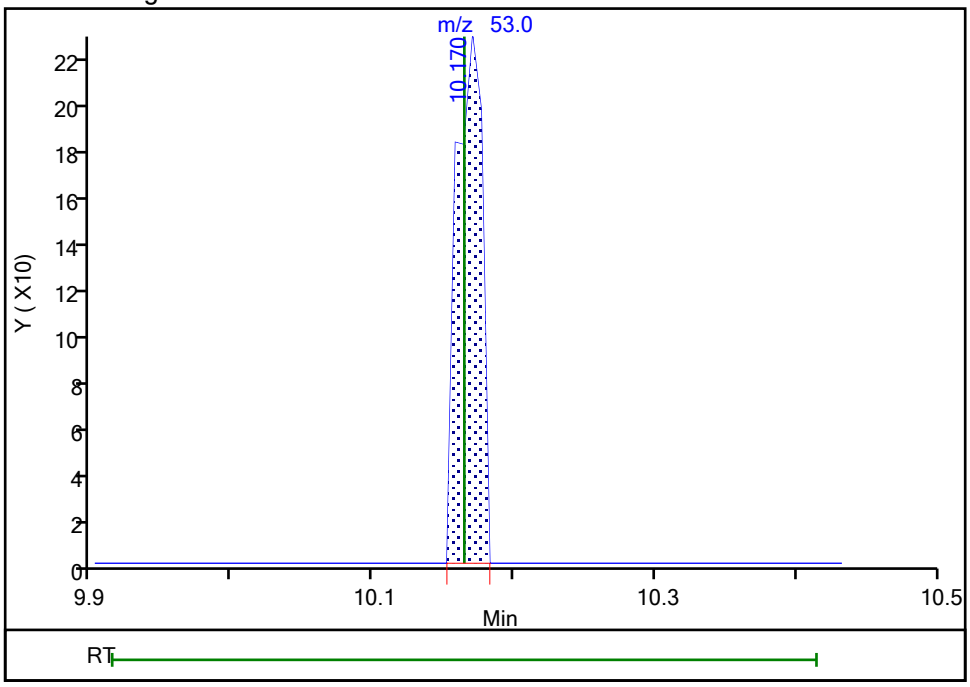
Not Detected
Expected RT: 10.16

Processing Integration Results



Manual Integration Results

RT: 10.17
Area: 283
Amount: 0.625649
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

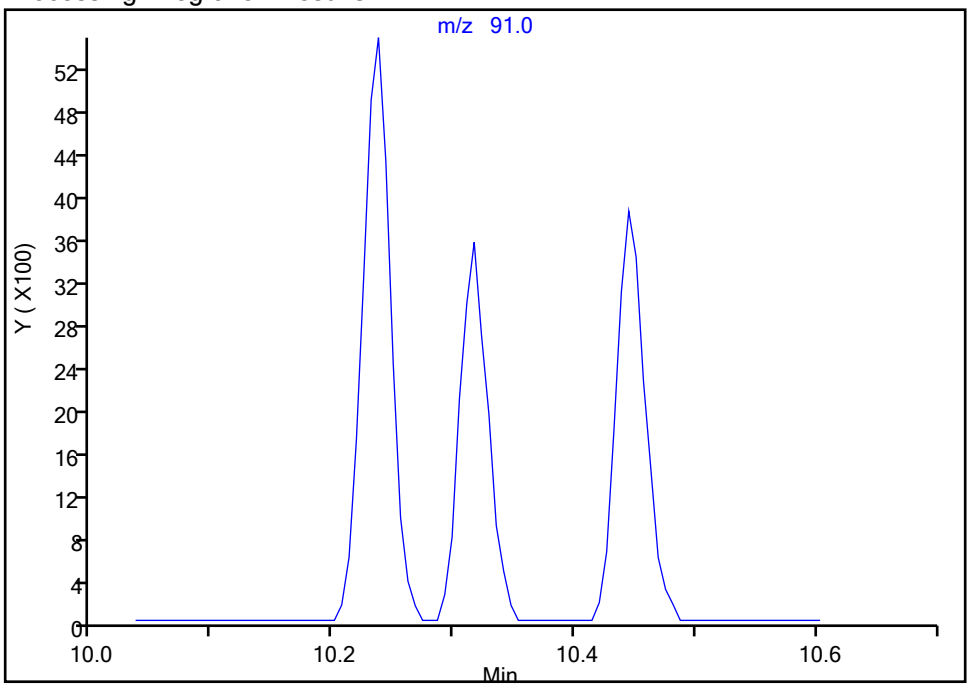
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

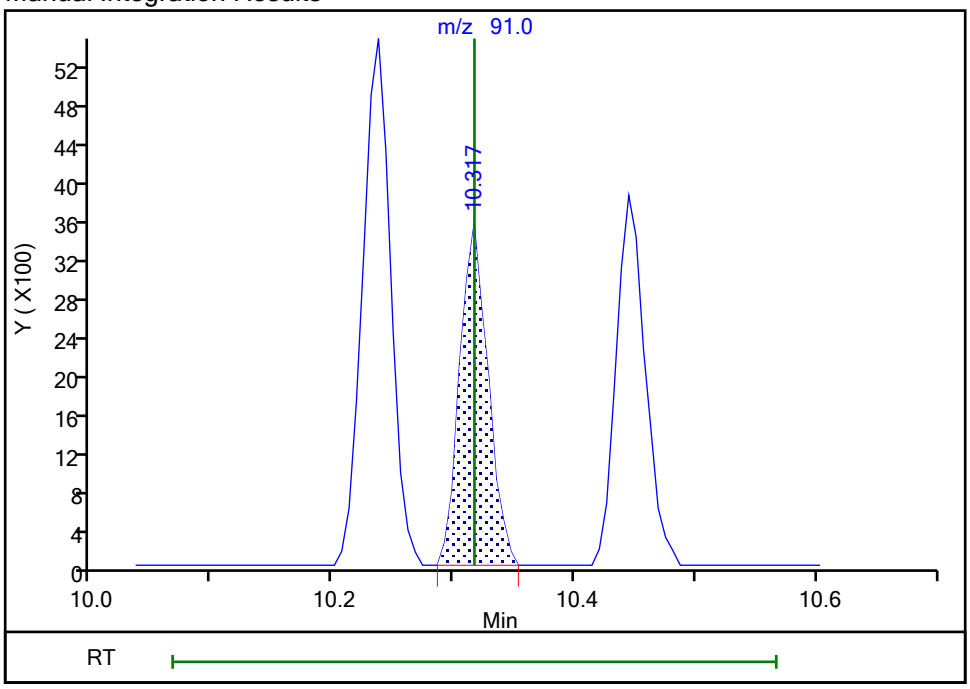
Not Detected
Expected RT: 10.32

Processing Integration Results



Manual Integration Results

RT: 10.32
Area: 5691
Amount: 0.965077
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:09
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

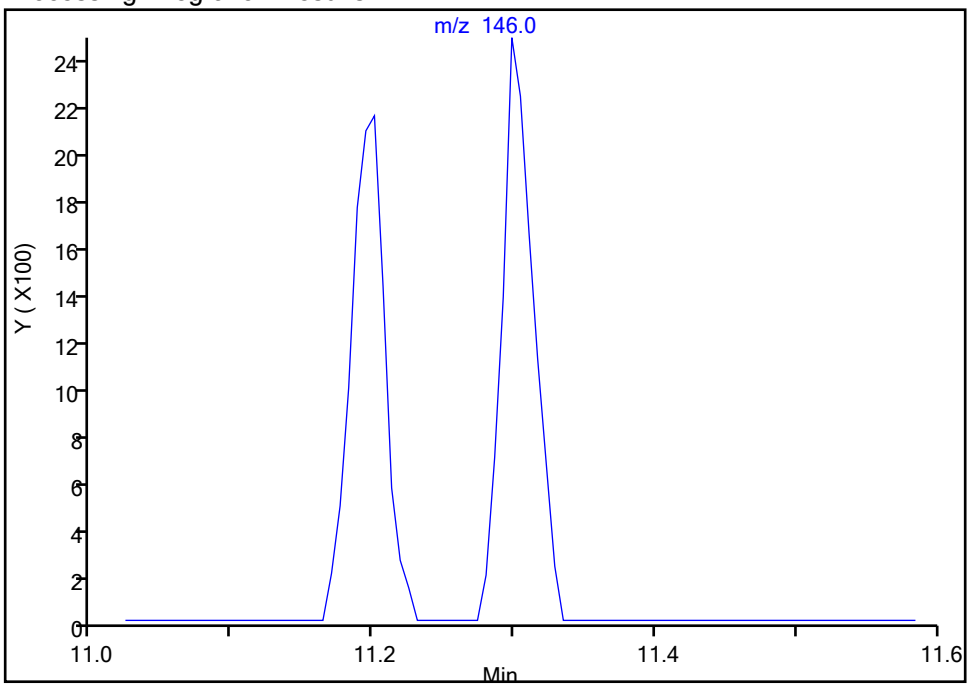
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

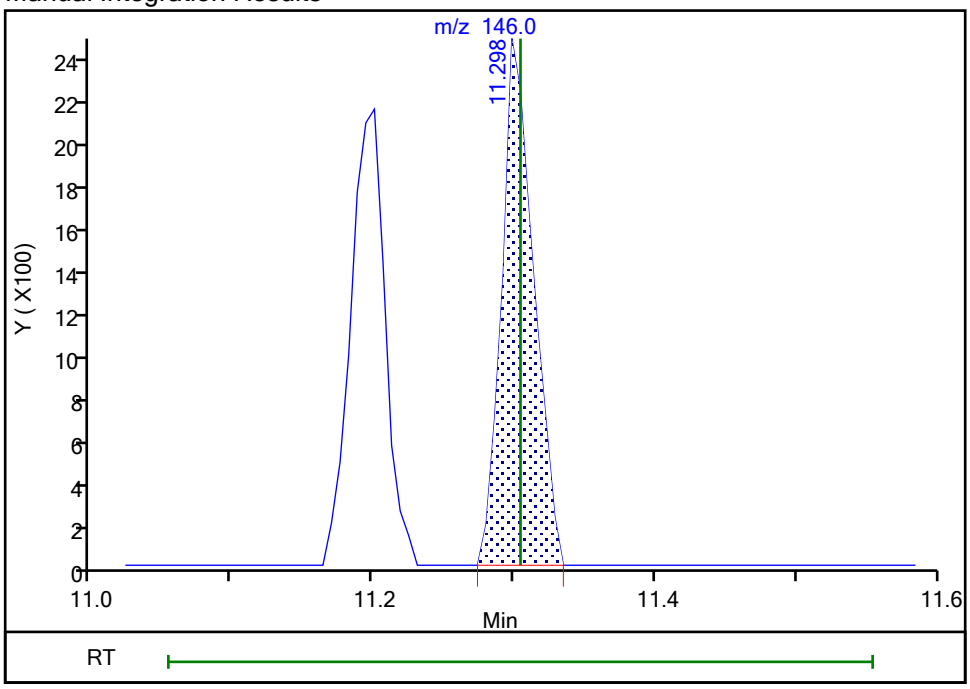
Not Detected
Expected RT: 11.30

Processing Integration Results



Manual Integration Results

RT: 11.30
Area: 3818
Amount: 0.976733
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:14:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

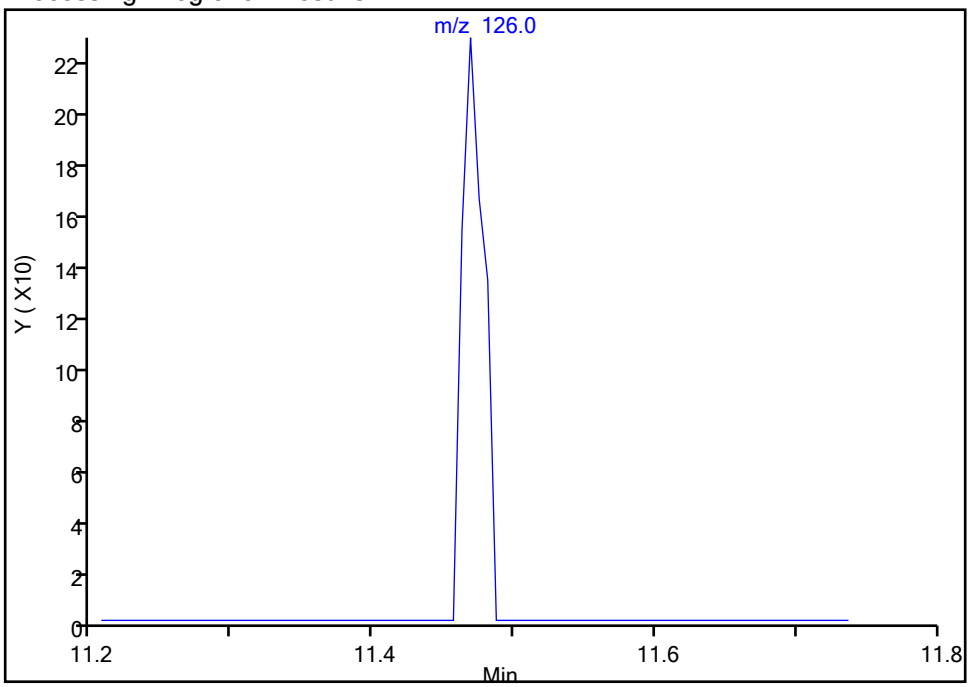
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

113 Benzyl chloride, CAS: 100-44-7

Signal: 1

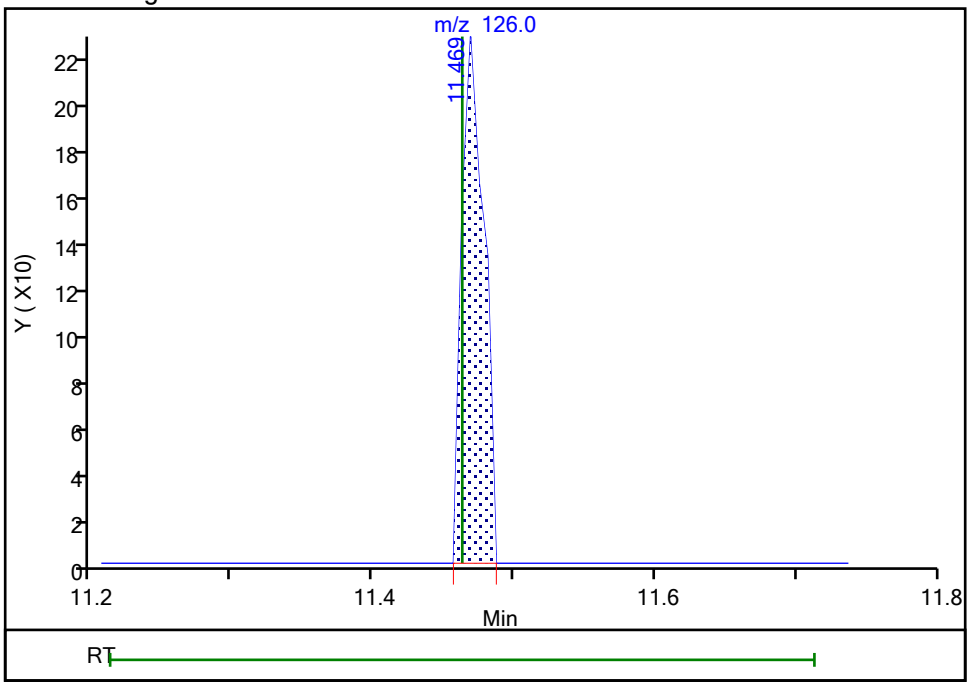
Not Detected
Expected RT: 11.46

Processing Integration Results



Manual Integration Results

RT: 11.47
Area: 241
Amount: 0.380010
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:14:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Oct-2020 09:05:30 ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:10 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:26:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	135865	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	4752	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	86	103408	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	48874	50.0	50.0	
17 Ethanol	45	2.367	2.373	-0.006	97	1433	80.0	121.3	Ma
18 Ethyl ether	59	2.452	2.452	0.000	94	2263	2.00	1.97	
19 Acrolein	56	2.556	2.550	0.006	95	1550	9.52	8.87	M
20 1,1-Dichloroethene	96	2.660	2.647	0.013	51	3005	2.00	2.15	M
21 112TCTFE	101	2.666	2.666	0.000	93	2751	2.00	1.98	
22 Acetone	43	2.714	2.708	0.006	62	1921	4.00	2.19	M
24 Carbon disulfide	76	2.842	2.836	0.006	98	8279	2.00	2.00	M
105 Isopropyl alcohol	45	2.885	2.891	-0.006	46	1343	20.0	21.0	M
118 Acetonitrile	40	2.964	2.971	-0.007	99	3001	20.0	22.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	85	1662	2.00	1.84	M
26 Methyl acetate	43	3.038	3.031	0.007	98	3972	4.00	4.14	M
27 Methylene Chloride	84	3.111	3.105	0.006	95	3549	2.00	2.15	M
23 Iodomethane	142	2.769	3.153	-0.384	52	541	2.00	0.4232	
35 2-Methyl-2-propanol	59	3.269	3.263	0.006	98	1897	20.0	20.9	
30 Acrylonitrile	53	3.342	3.342	0.000	99	9642	20.0	19.7	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	97	3122	2.00	1.96	
29 Methyl tert-butyl ether	73	3.391	3.391	0.000	96	7098	2.00	1.92	
31 Hexane	57	3.653	3.641	0.012	93	4614	2.00	2.13	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	93	5830	2.00	1.95	M
33 Vinyl acetate	86	3.836	3.842	-0.006	97	827	4.00	2.79	
34 2-Chloro-1,3-butadiene	53	3.861	3.854	0.007	93	5395	2.00	1.87	
36 Isopropyl ether	87	3.873	3.867	0.006	86	2764	2.00	1.90	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	98	8853	2.00	1.89	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	85	3440	2.00	1.89	M
38 2,2-Dichloropropane	77	4.312	4.318	-0.006	82	3745	2.00	1.59	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	98	2380	4.00	4.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	97	3859	20.0	19.8	M
104 Ethyl acetate	61	4.415	4.415	0.000	98	879	4.00	3.93	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	10885	20.0	18.8	
42 Chlorobromomethane	128	4.549	4.543	0.006	58	1461	2.00	1.92	
44 Tetrahydrofuran	71	4.604	4.598	0.006	54	511	4.00	3.77	
45 Chloroform	83	4.629	4.635	-0.006	96	7208	2.00	2.30	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	97	4719	2.00	1.84	
47 Cyclohexane	56	4.848	4.848	0.000	91	6084	2.00	1.99	
48 Carbon tetrachloride	117	4.958	4.958	0.000	84	3858	2.00	1.74	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	89	4755	2.00	1.98	
108 Isobutyl alcohol	43	5.122	5.117	0.006	84	2633	50.0	54.4	
50 Benzene	78	5.153	5.153	0.000	96	13950	2.00	1.99	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	4506	2.00	2.03	
116 n-Butanol	56	5.269	5.257	0.012	52	3758	50.0	55.1	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	96	7709	2.00	1.83	
53 n-Heptane	43	5.452	5.446	0.006	96	4603	2.00	2.11	
54 Trichloroethene	95	5.793	5.793	0.000	97	3713	2.00	2.07	
117 Ethyl acrylate	55	5.921	5.927	-0.006	97	3067	2.00	1.81	
114 Methylcyclohexane	83	5.988	5.988	0.000	92	5910	2.00	2.01	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	93	3164	2.00	1.85	
56 Dibromomethane	93	6.116	6.122	-0.006	60	1808	2.00	1.98	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	3512	4.00	3.60	
115 1,4-Dioxane	58	6.153	6.159	-0.006	33	503	40.0	0	M
58 Dichlorobromomethane	83	6.287	6.287	0.000	97	3699	2.00	1.79	
106 2-Nitropropane	43	6.525	6.519	0.006	91	878	4.00	2.92	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	90	1591	2.00	1.67	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	91	3907	2.00	1.58	
61 4-Methyl-2-pentanone (MIBK)	43	6.921	6.927	-0.006	95	4825	4.00	3.68	
62 Toluene	92	7.098	7.098	0.000	99	9615	2.00	2.01	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	95	3403	2.00	1.76	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	86	3164	2.00	1.70	
65 1,1,2-Trichloroethane	83	7.518	7.531	-0.013	89	2116	2.00	1.86	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	4042	2.00	2.06	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	91	4885	2.00	2.00	
68 2-Hexanone	43	7.817	7.817	0.000	97	3180	4.00	3.71	
69 Chlorodibromomethane	129	7.939	7.939	0.000	86	2403	2.00	1.58	
109 n-Butyl acetate	43	7.969	7.970	-0.001	98	3928	2.00	1.75	
70 Ethylene Dibromide	107	8.055	8.049	0.006	95	2351	2.00	1.67	
71 Chlorobenzene	112	8.610	8.610	0.000	88	9914	2.00	1.91	a
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	88	2826	2.00	1.69	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	98	6822	2.00	1.93	
73 Ethylbenzene	91	8.744	8.884	-0.140	97	17799	2.00	1.96	a
75 o-Xylene	106	9.329	9.317	0.012	97	6560	2.00	1.95	
76 Styrene	104	9.341	9.341	0.000	95	9675	2.00	1.74	
77 Bromoform	173	9.530	9.530	0.000	91	1127	2.00	1.25	
78 Isopropylbenzene	105	9.756	9.762	-0.006	95	16669	2.00	1.91	
79 Bromobenzene	156	10.079	10.085	-0.006	92	3859	2.00	1.82	
80 1,1,2,2-Tetrachloroethane	83	10.097	10.097	0.000	95	3007	2.00	1.89	
81 1,2,3-Trichloropropane	110	10.146	10.146	0.000	85	1252	2.00	2.30	
82 trans-1,4-Dichloro-2-butene	53	10.164	10.164	0.000	1	613	2.00	1.35	a
83 N-Propylbenzene	91	10.237	10.237	0.000	98	18910	2.00	1.88	
84 2-Chlorotoluene	91	10.317	10.317	0.000	97	11529	2.00	1.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	13071	2.00	1.88	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	92	12974	2.00	1.86	
87 tert-Butylbenzene	119	10.829	10.829	0.000	93	11486	2.00	1.90	
88 1,2,4-Trimethylbenzene	105	10.884	10.884	0.000	98	13129	2.00	1.83	
89 sec-Butylbenzene	105	11.091	11.091	0.000	95	16564	2.00	1.93	
90 1,3-Dichlorobenzene	146	11.194	11.188	0.006	98	7292	2.00	1.93	
91 4-Isopropyltoluene	119	11.280	11.268	0.012	55	13327	2.00	1.83	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	97	12870	2.00	1.86	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	7637	2.00	1.97	a
113 Benzyl chloride	126	11.475	11.463	0.012	96	685	2.00	1.09	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	97	7226	2.00	1.98	
94 n-Butylbenzene	91	11.768	11.761	0.007	97	11468	2.00	1.79	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	69	353	2.00	1.52	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	4326	2.00	1.94	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	94	3538	2.00	1.90	
97 Hexachlorobutadiene	225	13.920	13.926	-0.006	89	1611	2.00	1.78	
98 Naphthalene	128	13.981	13.974	0.006	98	7518	2.00	1.85	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	2979	2.00	2.00	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		4.00	3.84	
S 102 1,3-Dichloropropene, Total	1				0		4.00	3.34	
S 100 Xylenes, Total	1				0		4.00	3.88	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

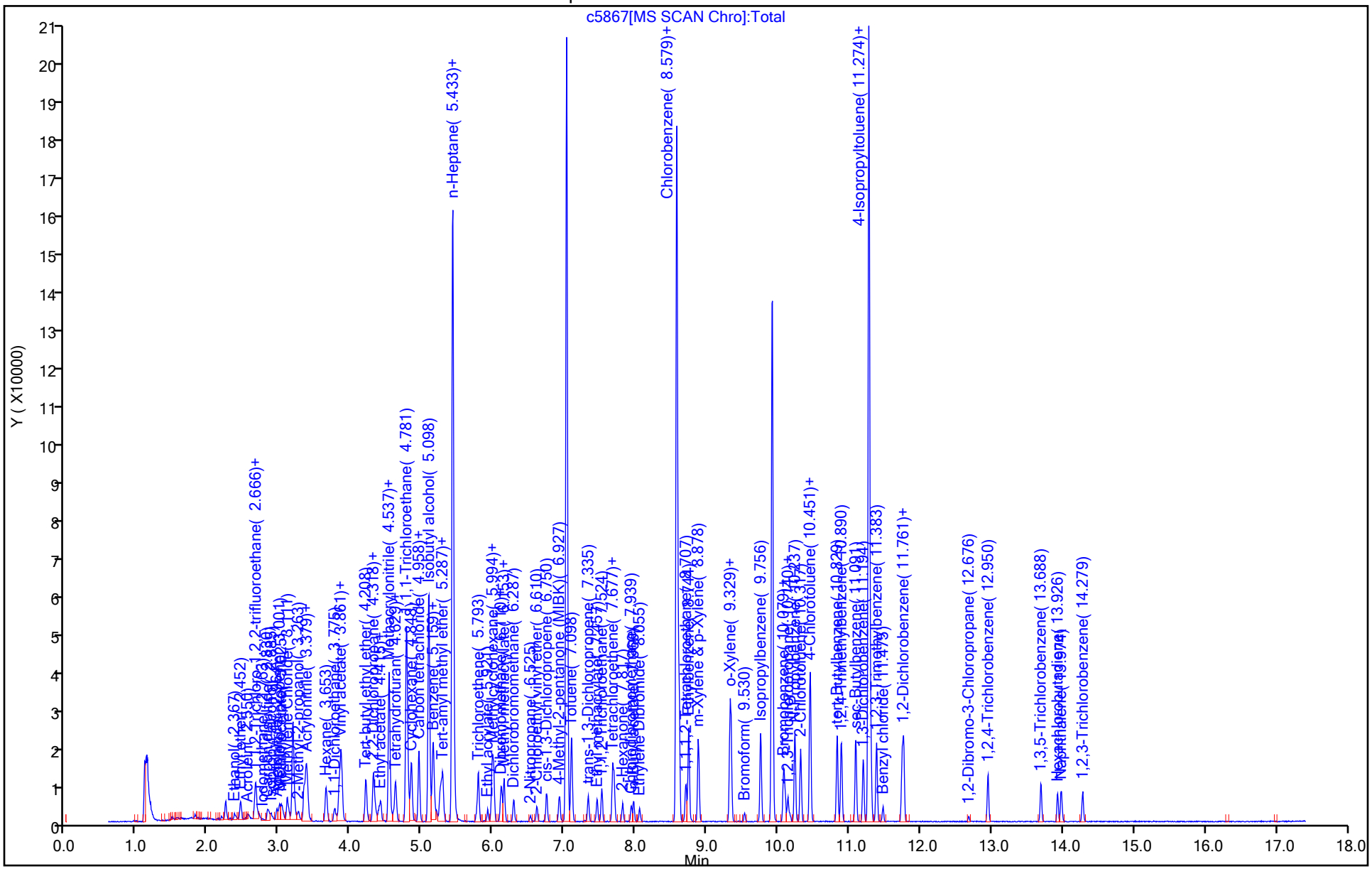
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	2.00	Units: uL

Report Date: 13-Oct-2020 18:26:13 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D

Injection Date:	13-Oct-2020 09:05:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

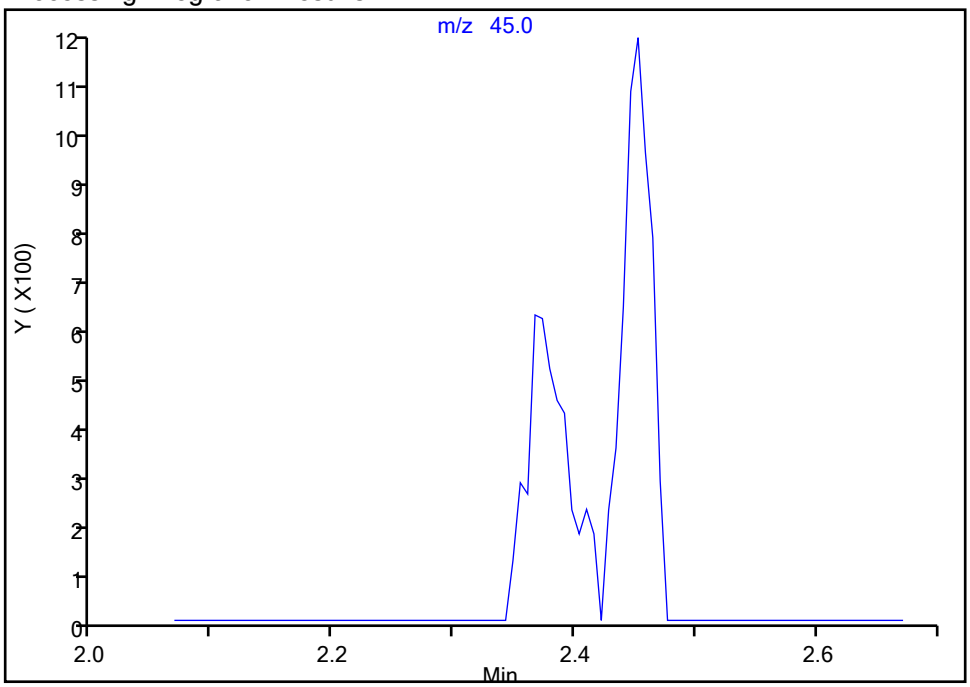
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

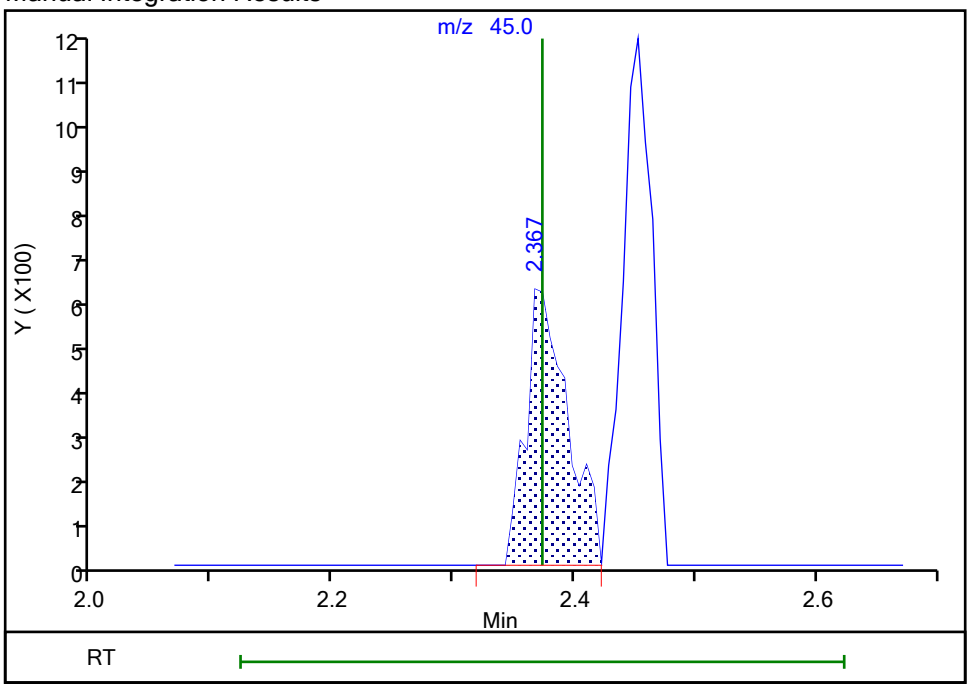
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 1433
Amount: 121.2846
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:22:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

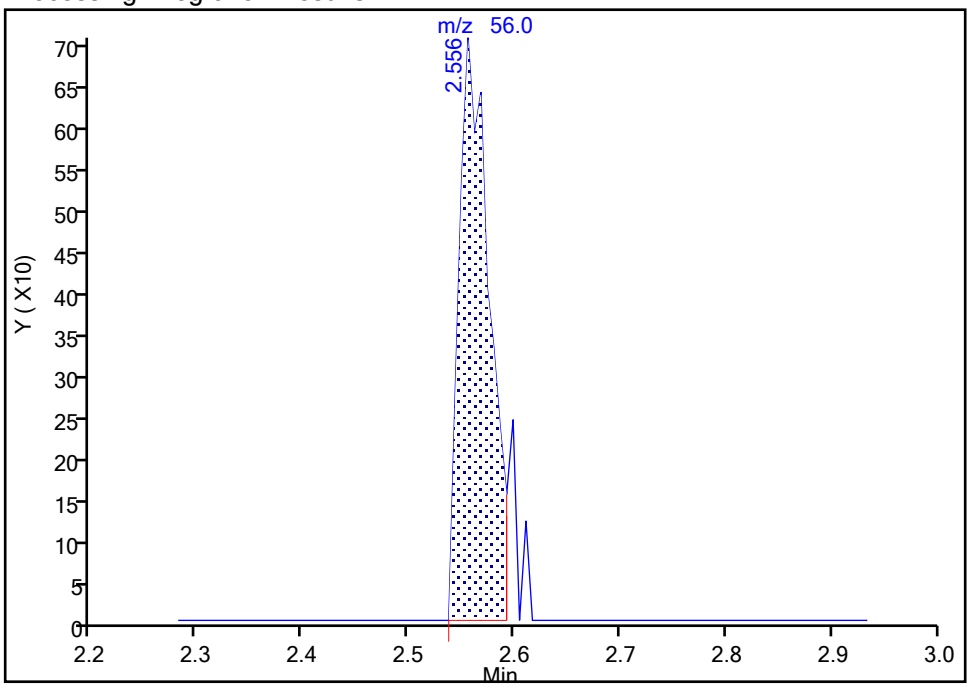
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

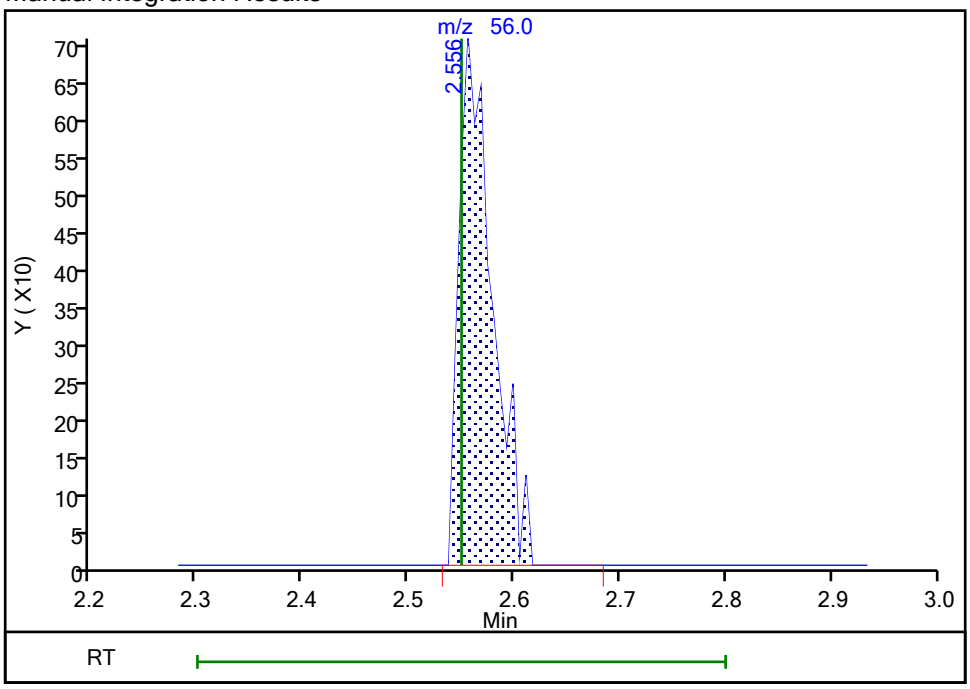
Processing Integration Results

RT: 2.56
Area: 1416
Amount: 9.134574
Amount Units: ug/l



Manual Integration Results

RT: 2.56
Area: 1550
Amount: 8.870985
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:22:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

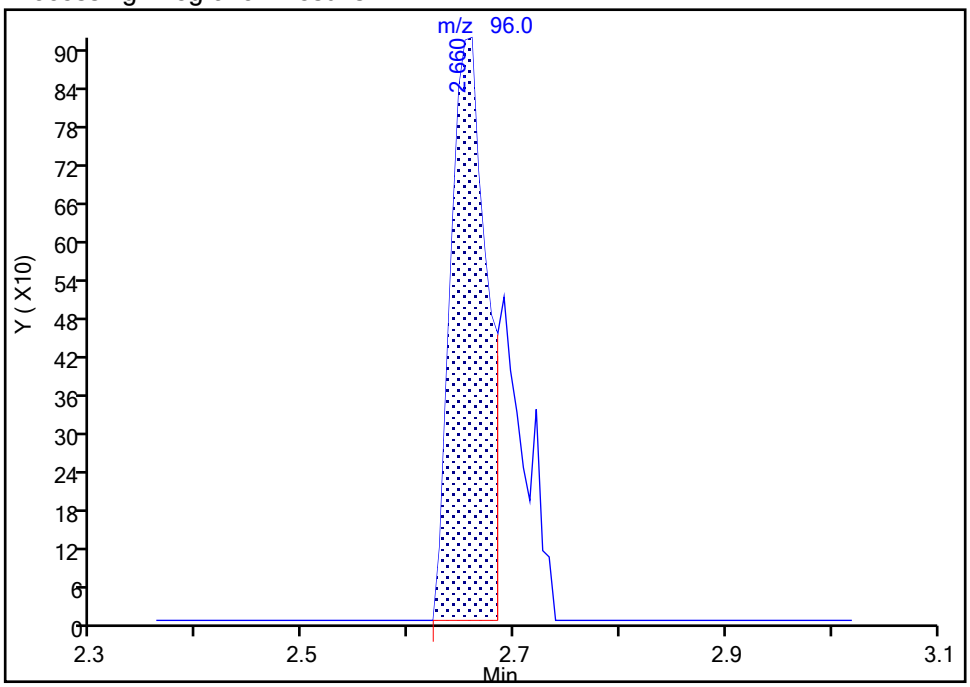
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

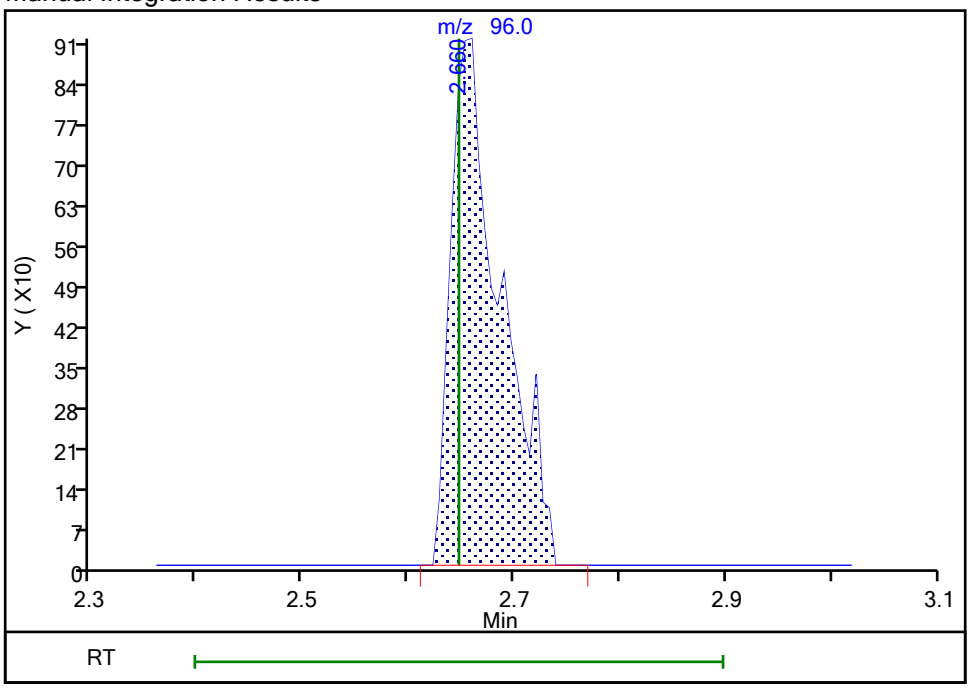
Processing Integration Results

RT: 2.66
Area: 2198
Amount: 1.848322
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 3005
Amount: 2.150138
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:22:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

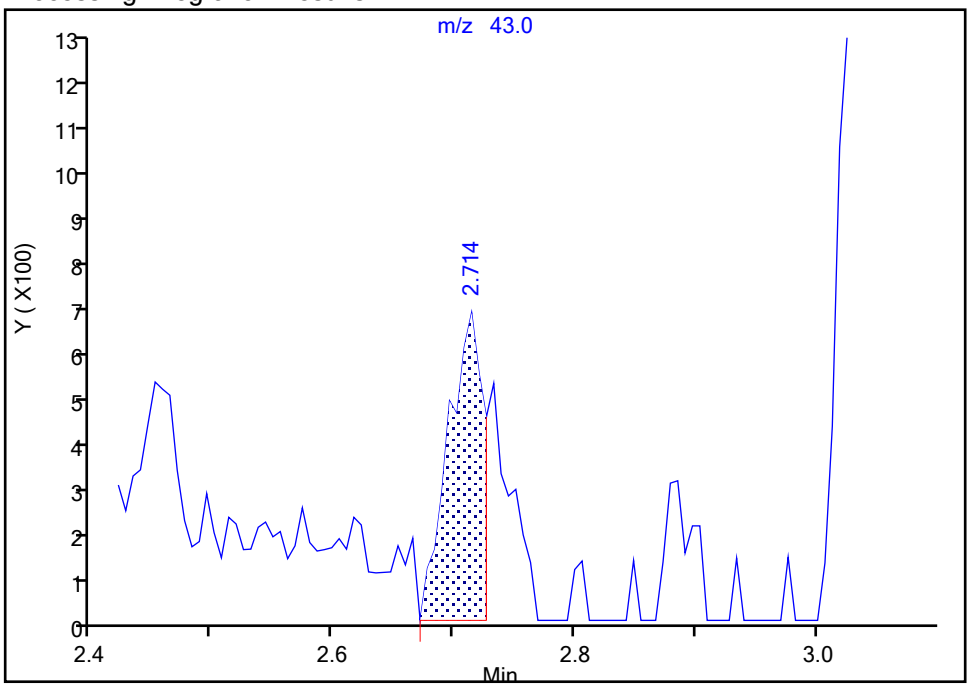
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

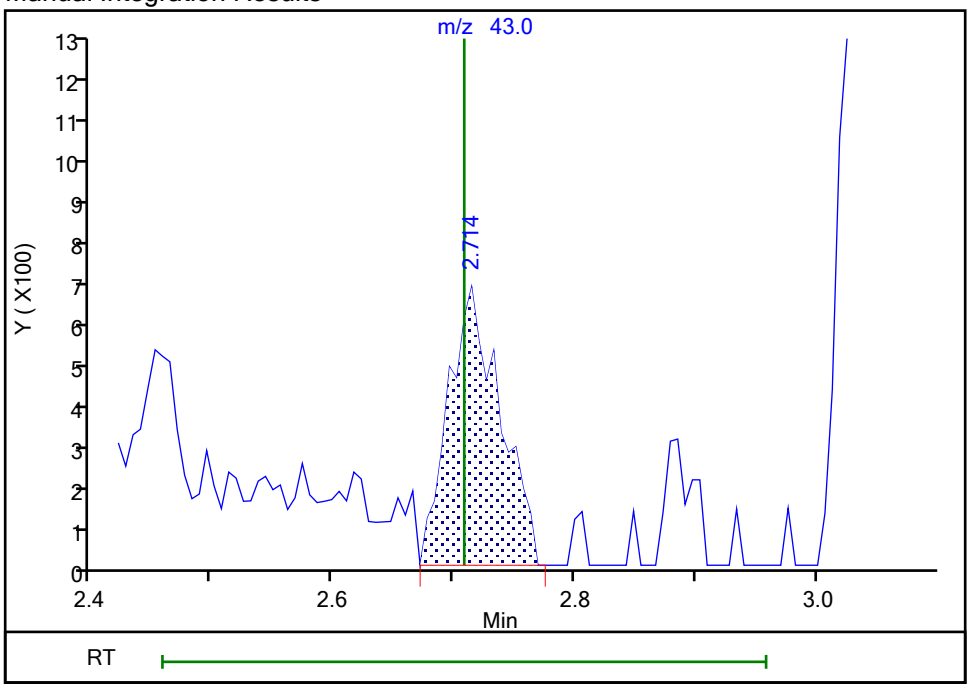
Processing Integration Results

RT: 2.71
Area: 1319
Amount: 3.218898
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 1921
Amount: 2.188837
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

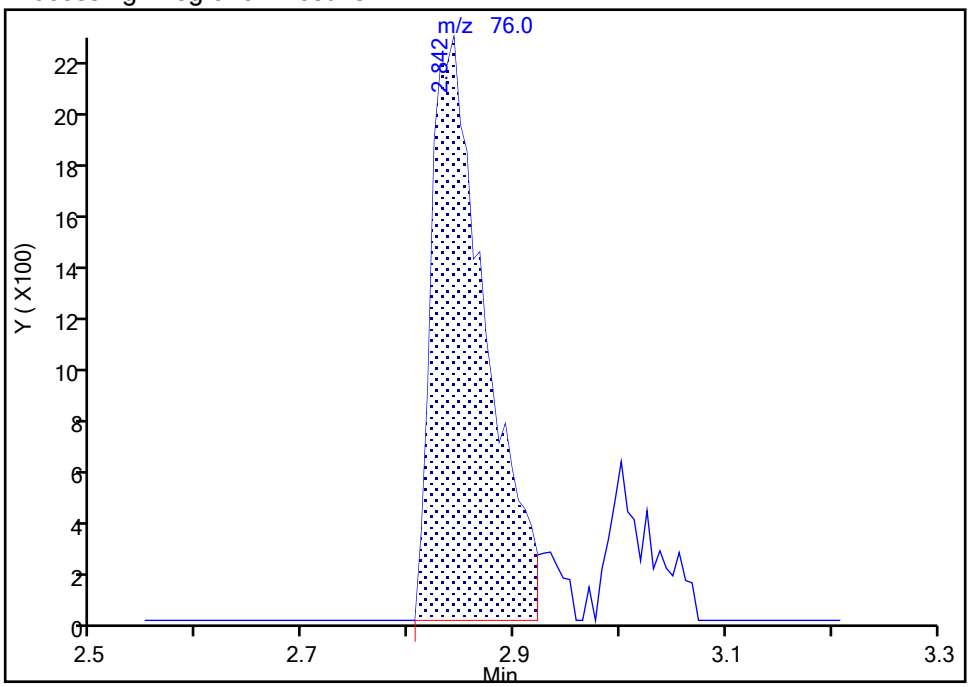
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

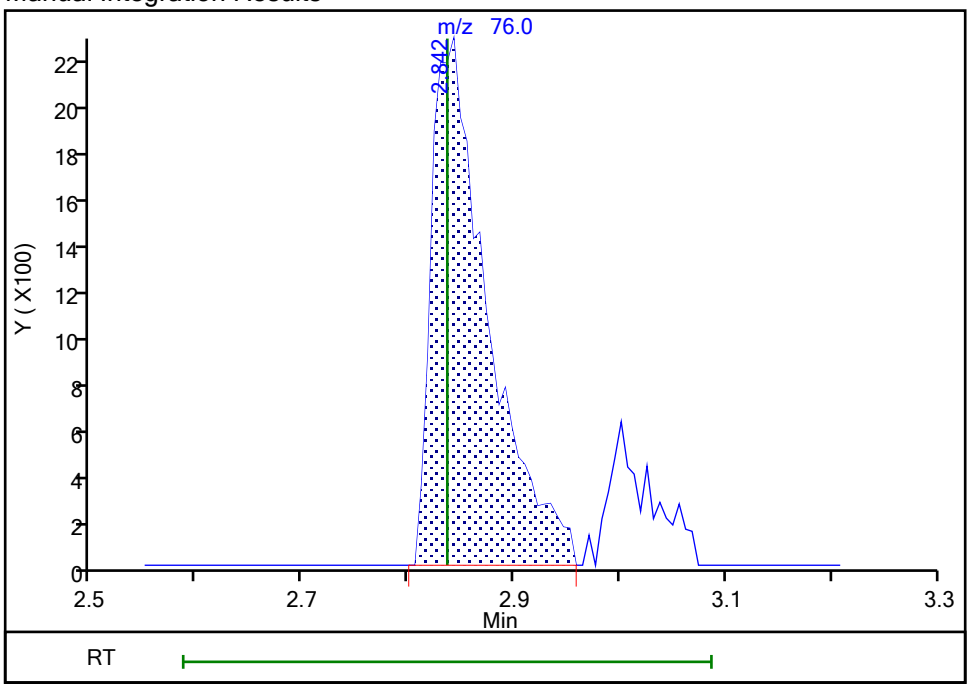
Processing Integration Results

RT: 2.84
Area: 7894
Amount: 1.894485
Amount Units: ug/l



Manual Integration Results

RT: 2.84
Area: 8279
Amount: 2.000909
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

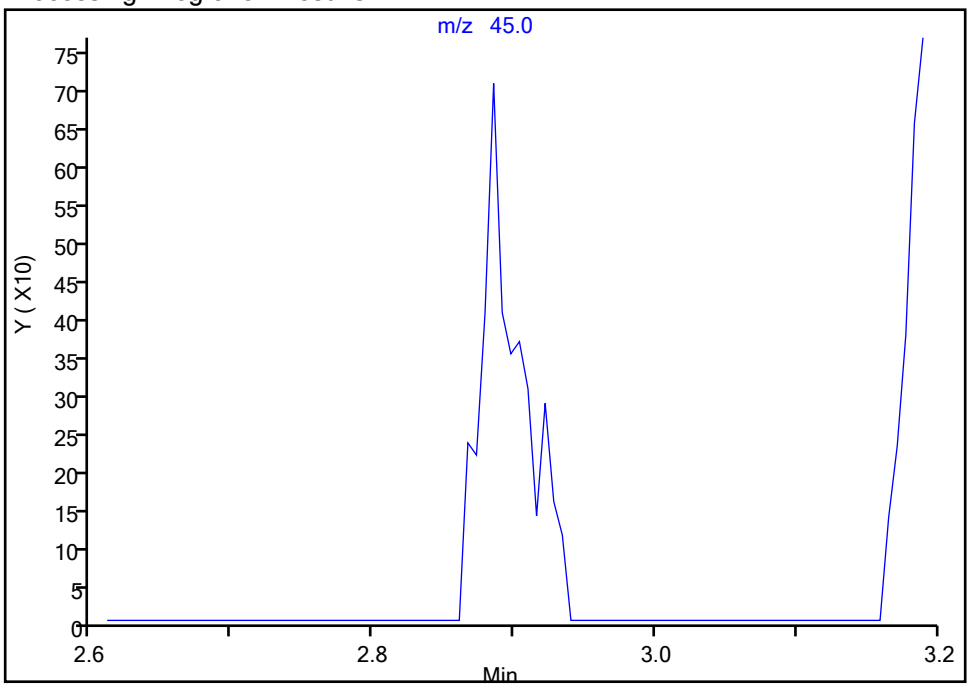
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

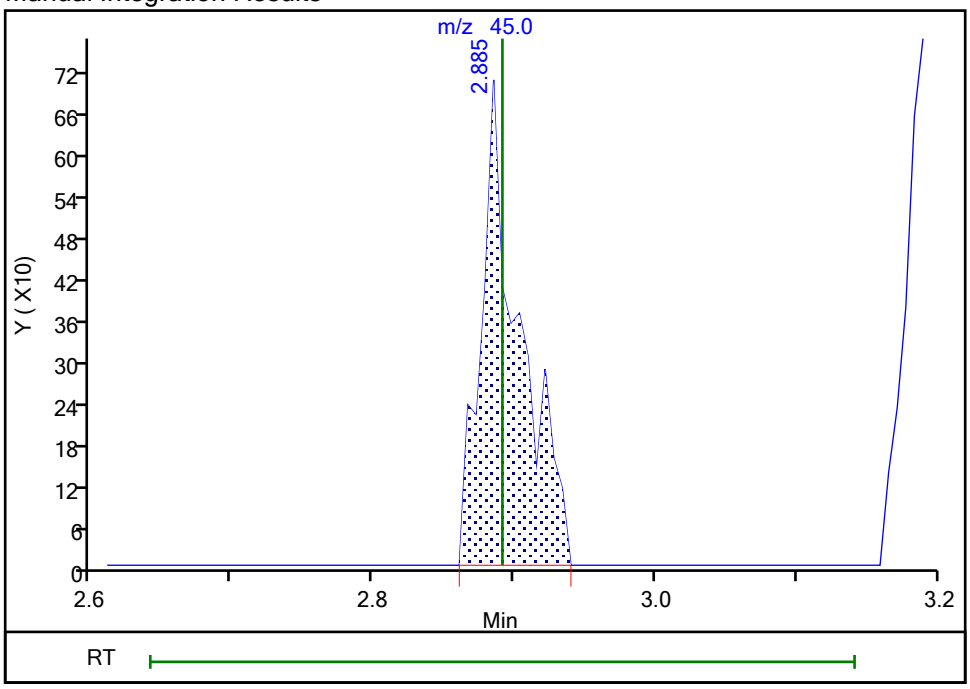
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 1343
Amount: 20.977594
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

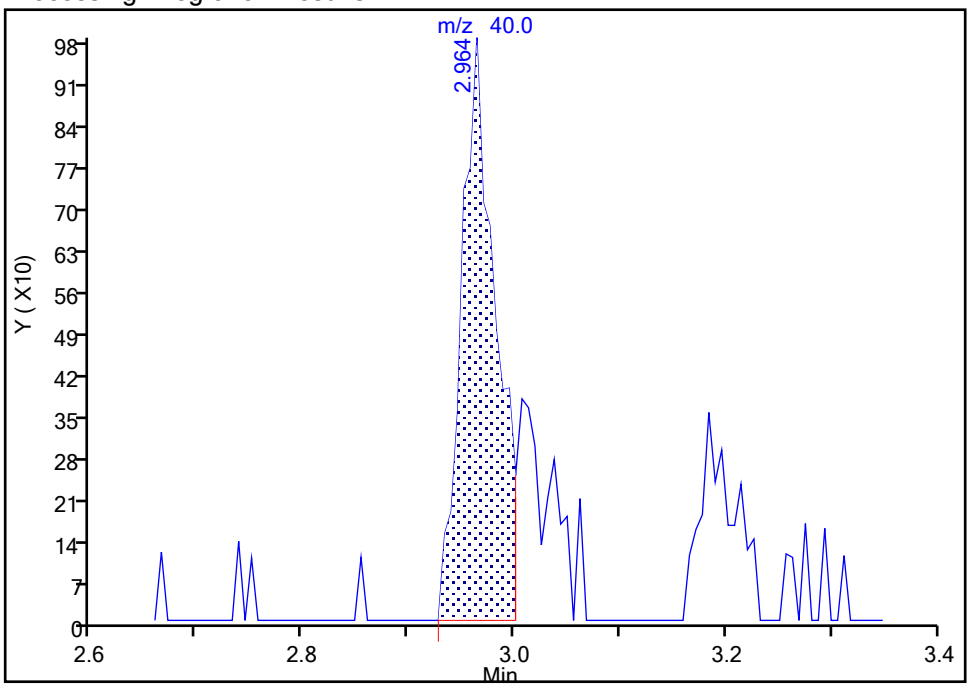
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

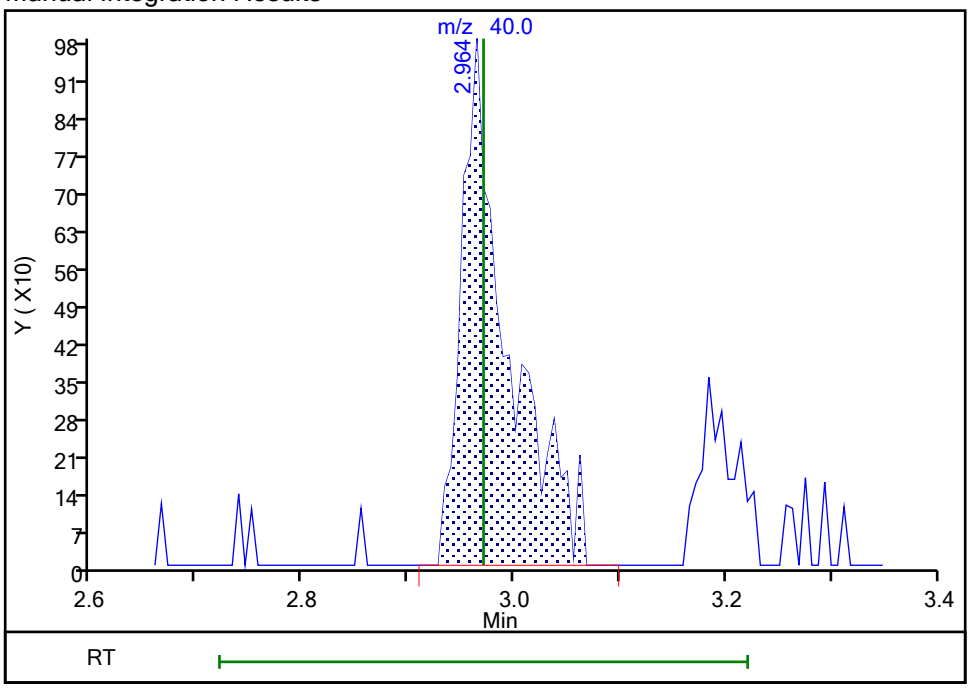
Processing Integration Results

RT: 2.96
Area: 2206
Amount: 22.235986
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 3001
Amount: 22.867309
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

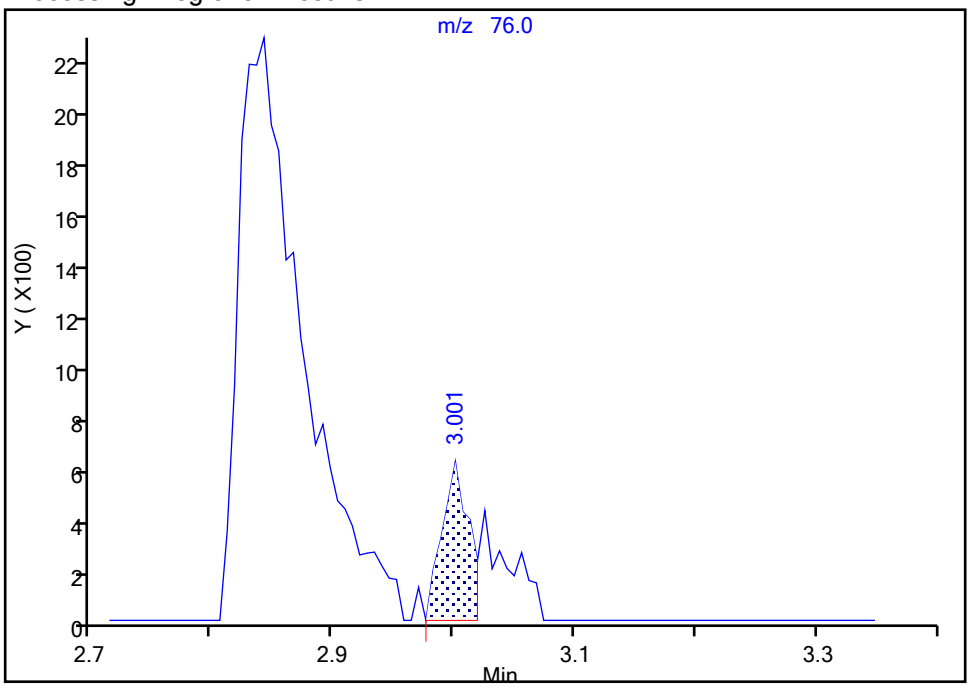
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

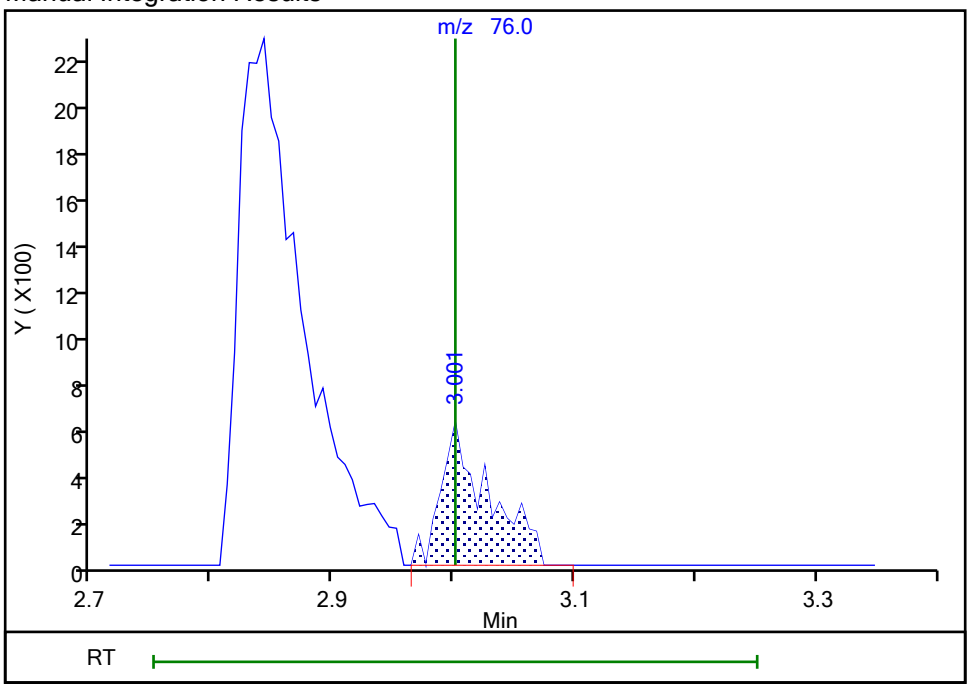
Processing Integration Results

RT: 3.00
Area: 952
Amount: 1.219127
Amount Units: ug/l



Manual Integration Results

RT: 3.00
Area: 1662
Amount: 1.840478
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

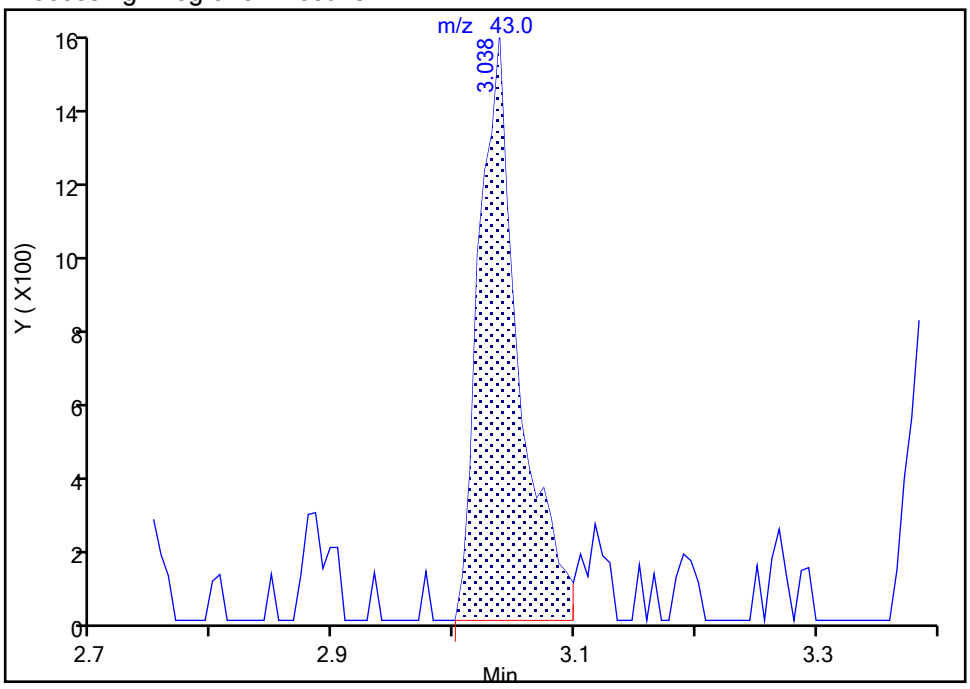
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

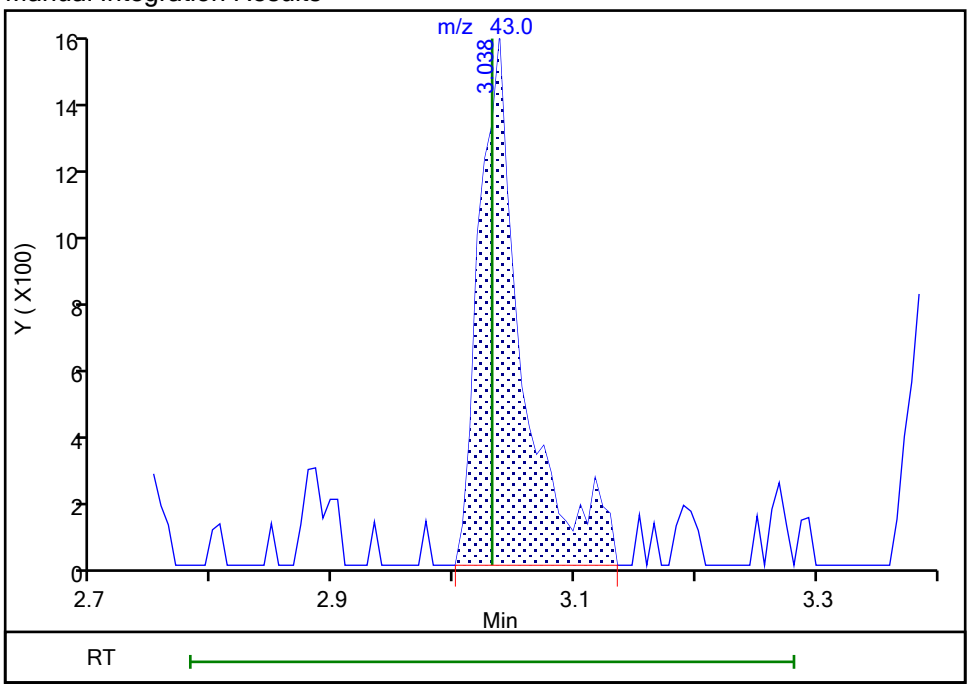
Processing Integration Results

RT: 3.04
Area: 3644
Amount: 3.841480
Amount Units: ug/l



Manual Integration Results

RT: 3.04
Area: 3972
Amount: 4.139565
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

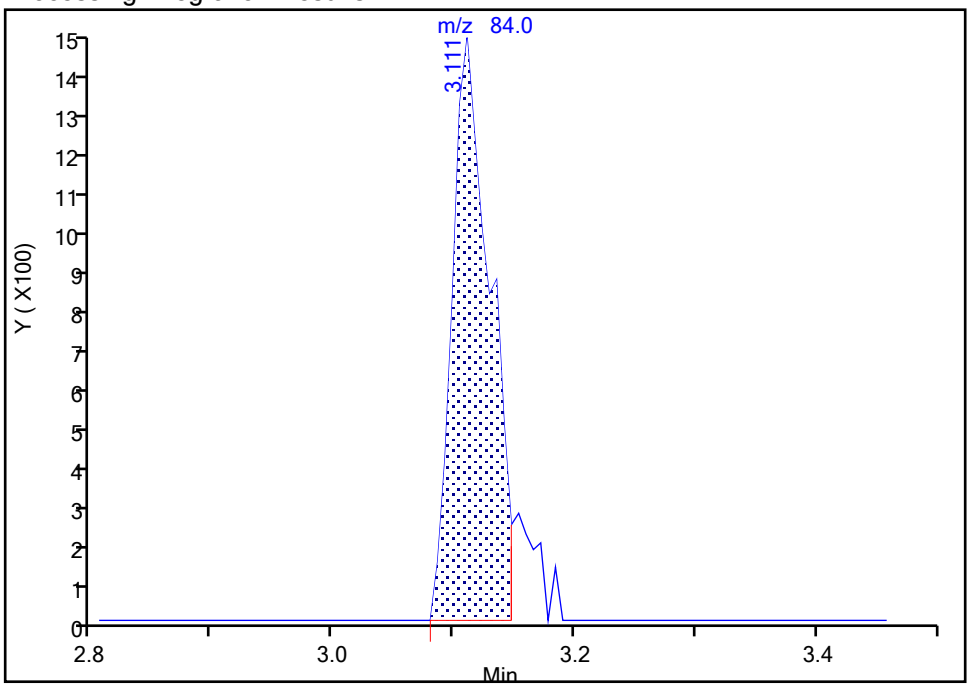
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

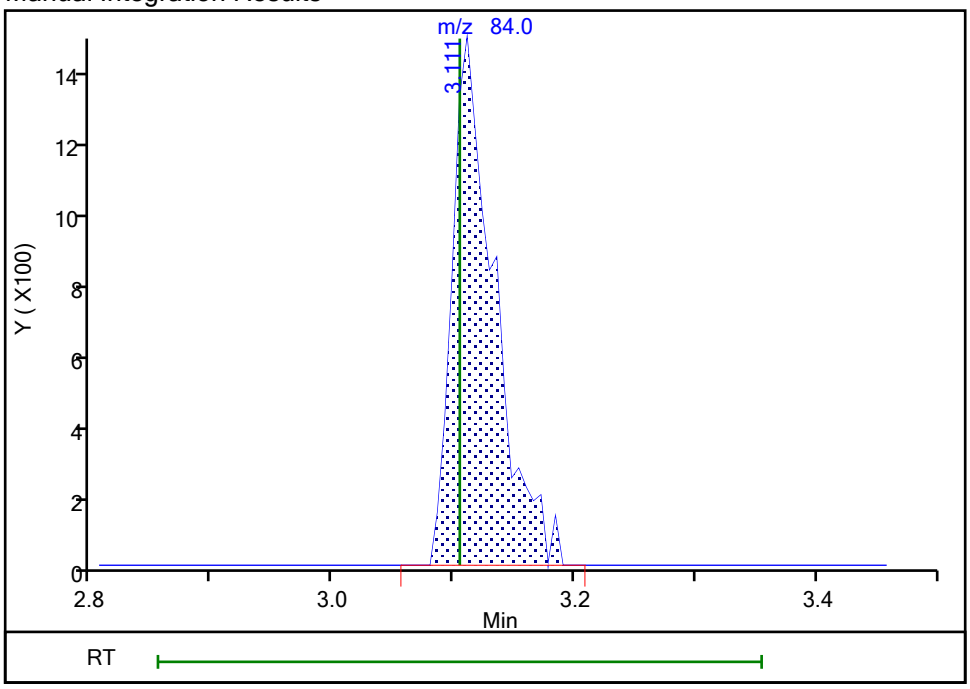
Processing Integration Results

RT: 3.11
Area: 3188
Amount: 1.948001
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 3549
Amount: 2.145021
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

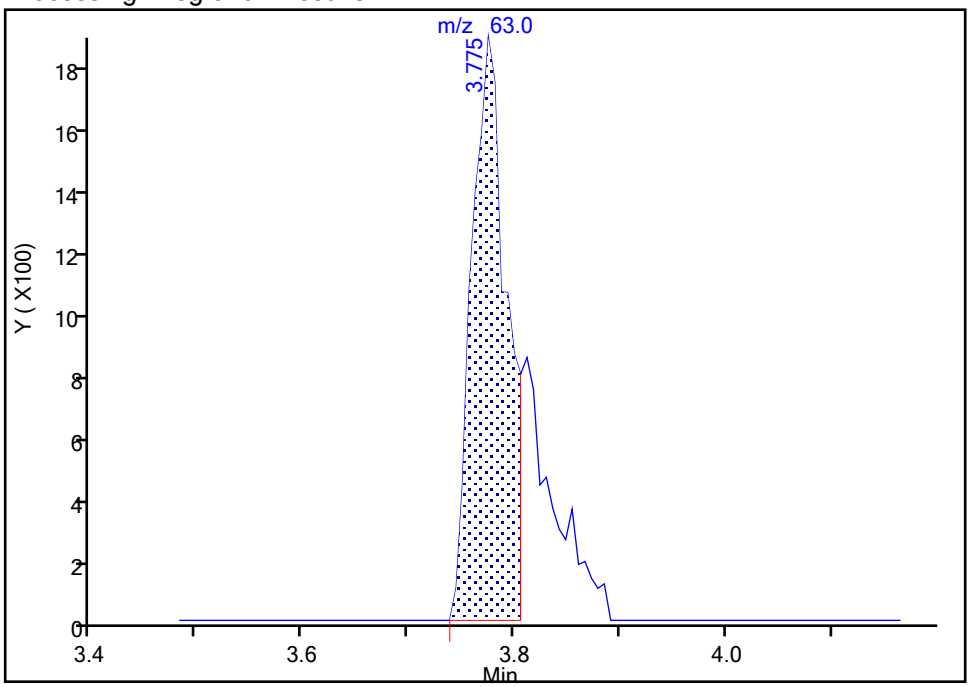
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

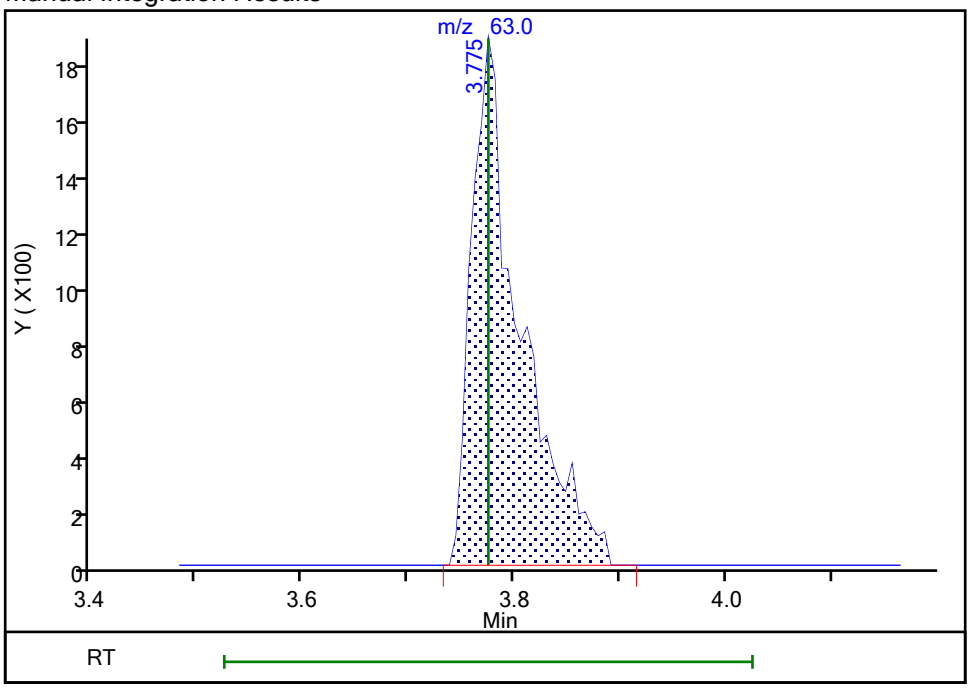
Processing Integration Results

RT: 3.78
Area: 4238
Amount: 1.456380
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 5830
Amount: 1.949714
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

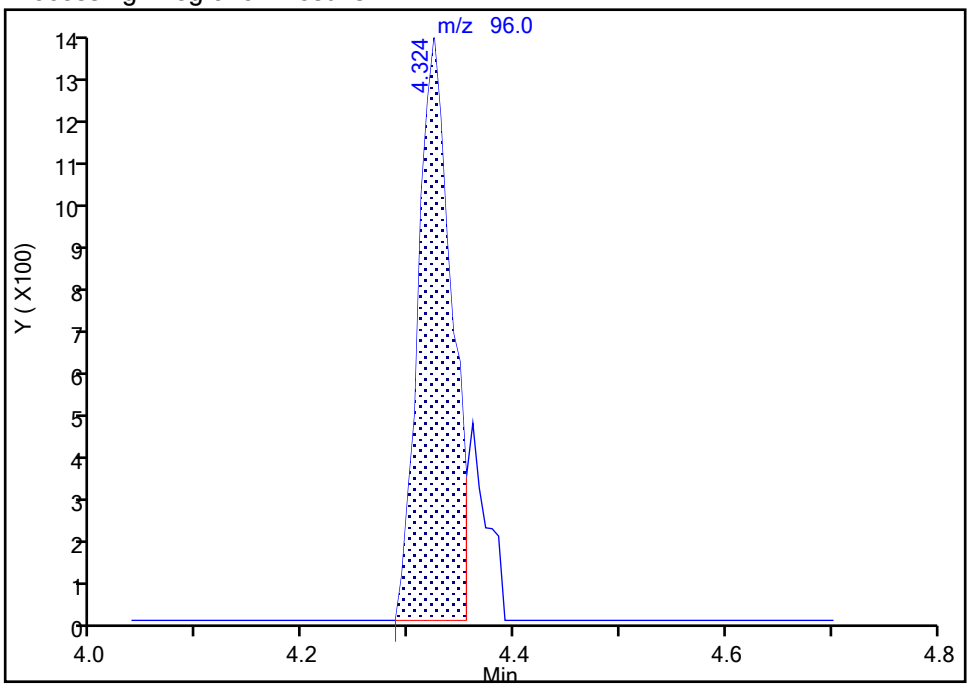
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

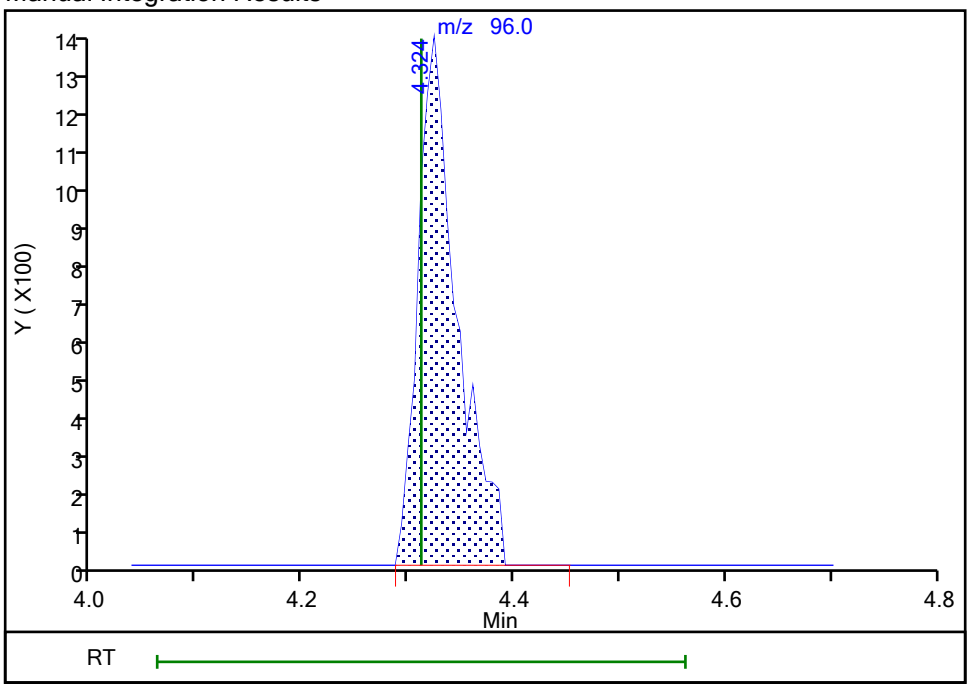
Processing Integration Results

RT: 4.32
Area: 2936
Amount: 1.632149
Amount Units: ug/l



Manual Integration Results

RT: 4.32
Area: 3440
Amount: 1.885726
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

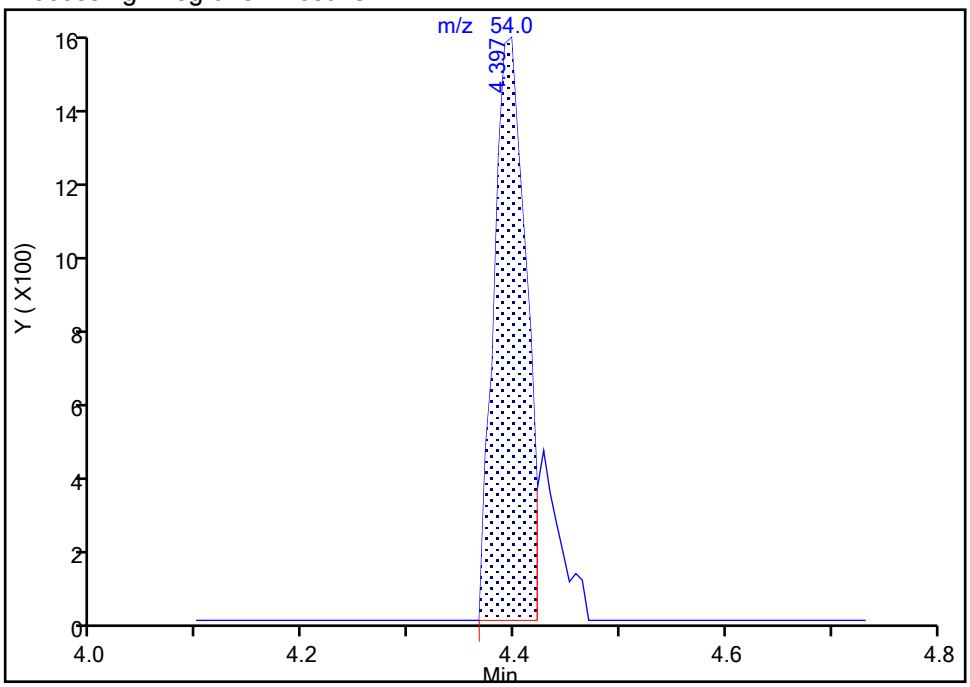
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

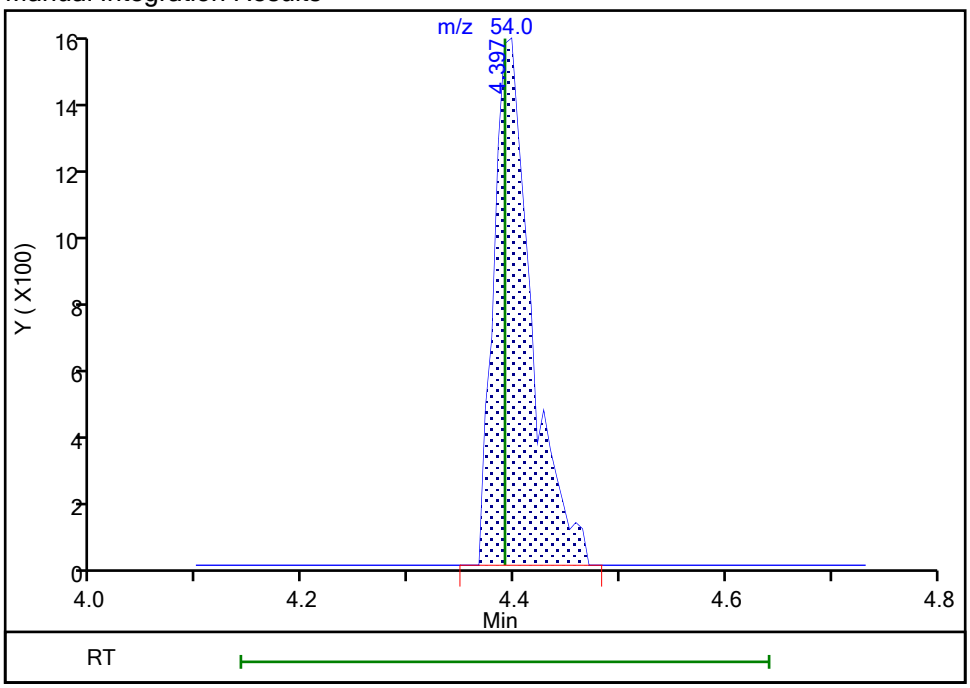
Processing Integration Results

RT: 4.40
Area: 3279
Amount: 17.866677
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 3859
Amount: 19.778578
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

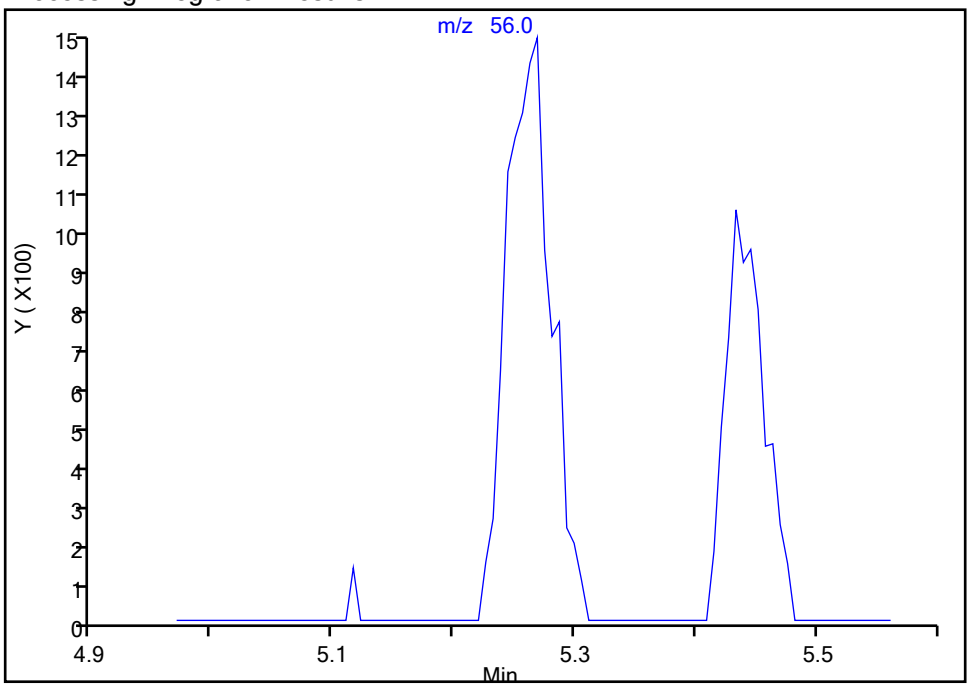
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

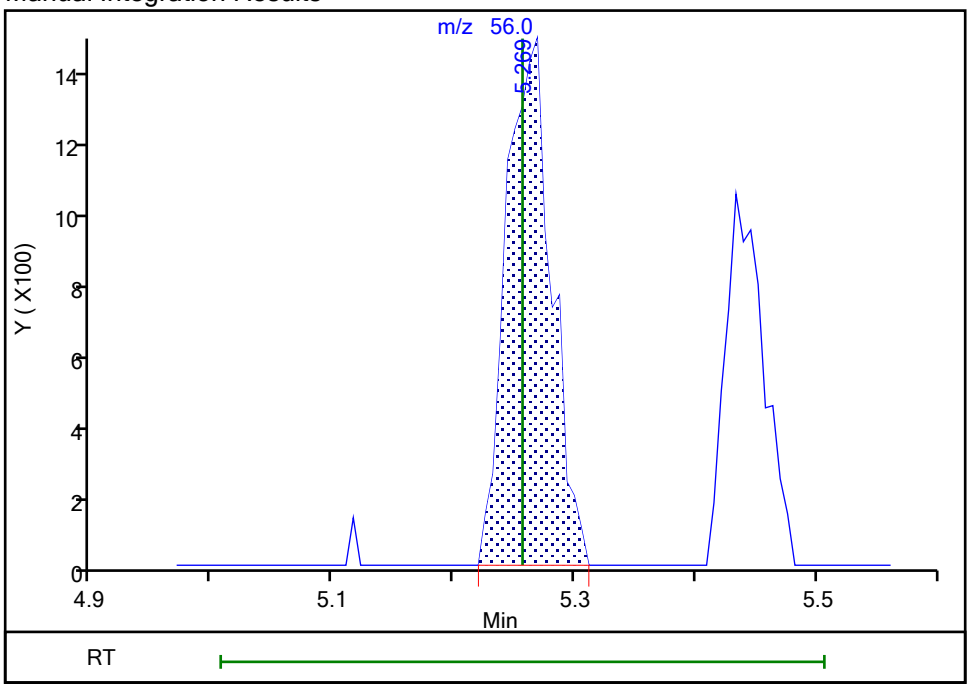
Not Detected
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.27
Area: 3758
Amount: 55.066938
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:25:19
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

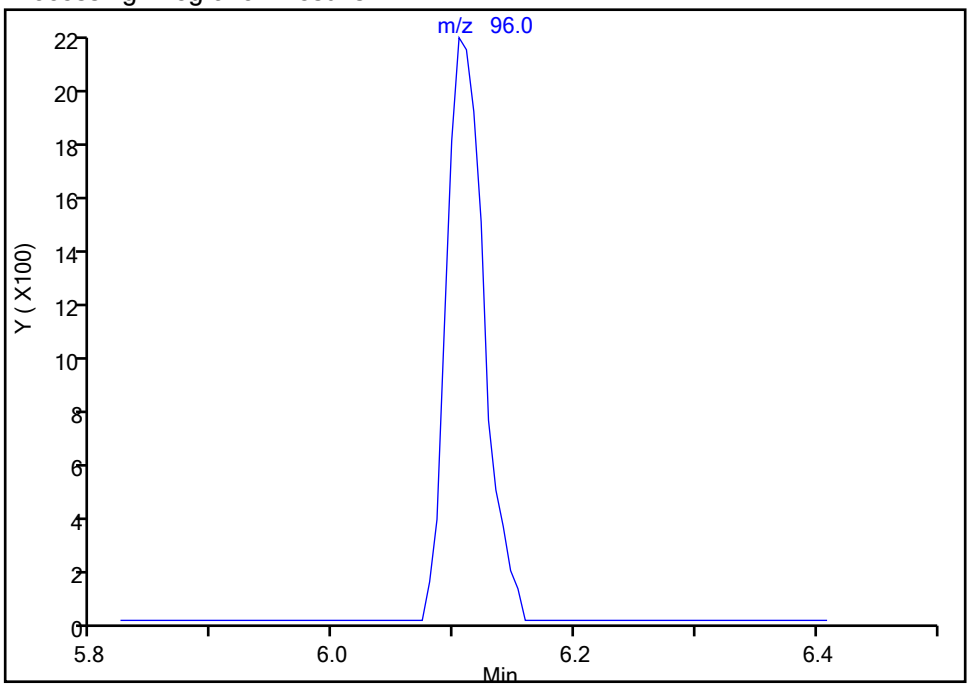
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

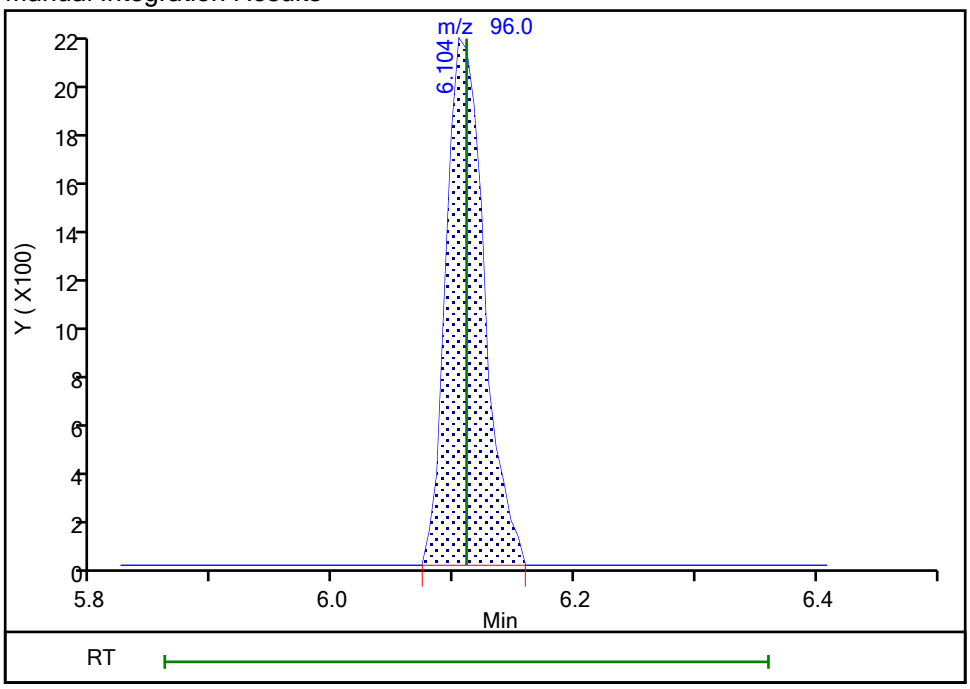
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 4752
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:21:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

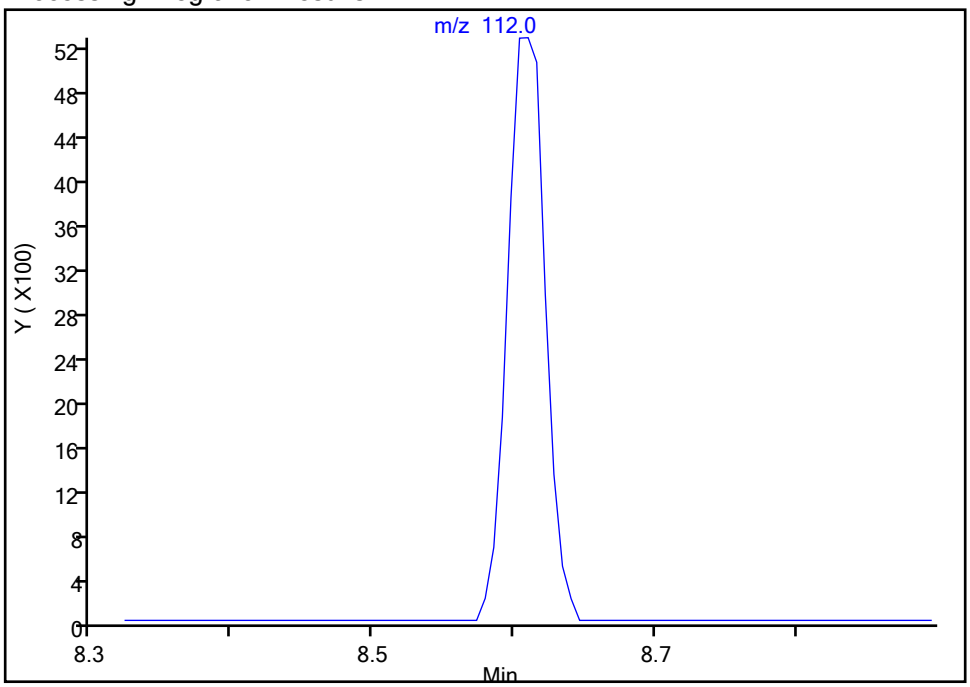
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

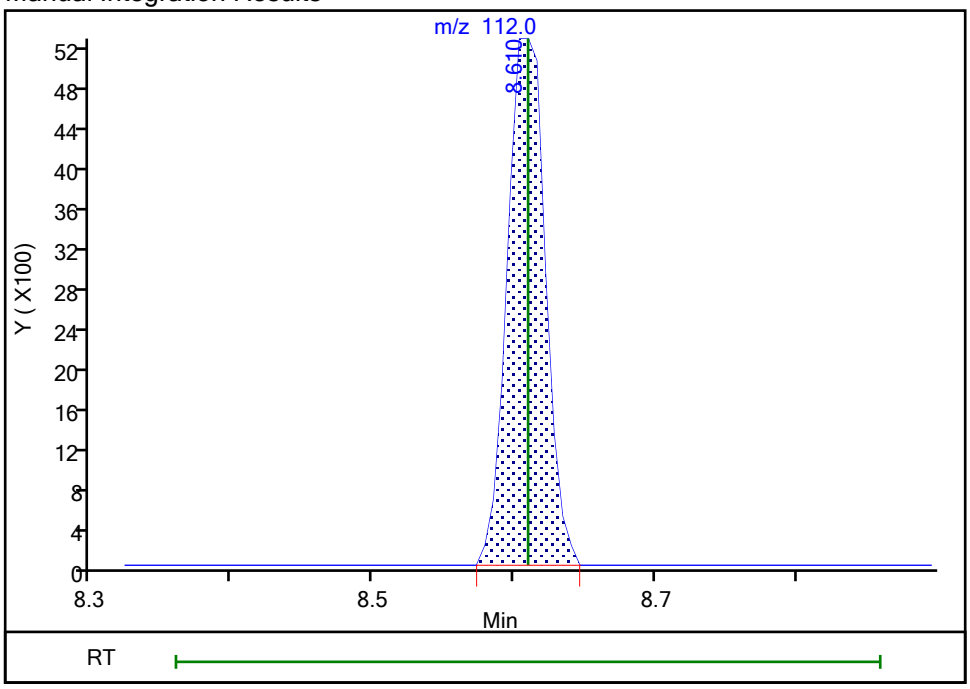
Not Detected
Expected RT: 8.61

Processing Integration Results



Manual Integration Results

RT: 8.61
Area: 9914
Amount: 1.912065
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:25:53
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

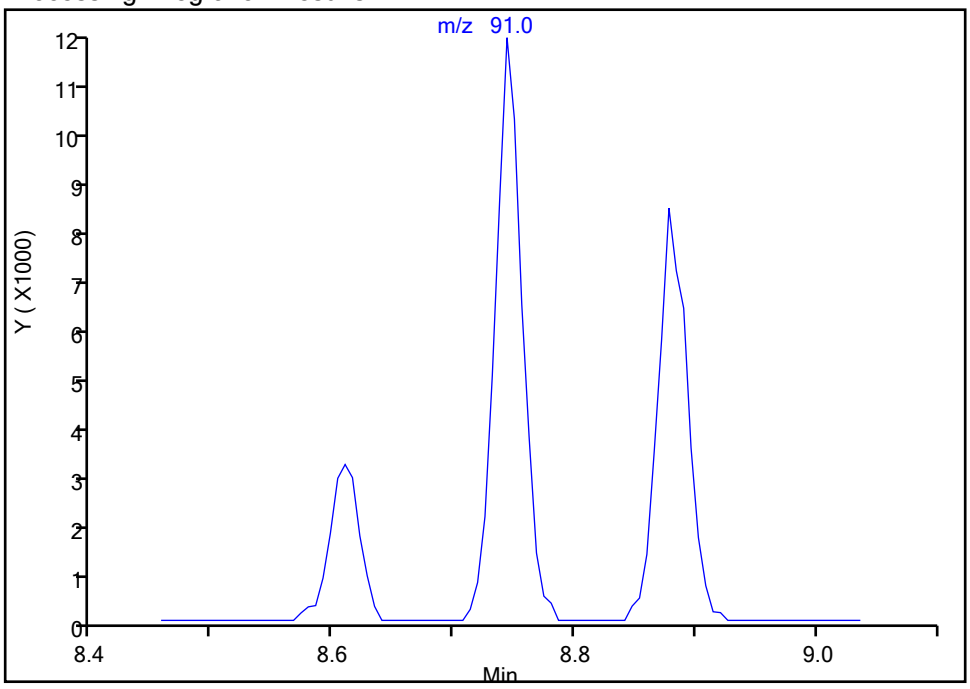
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

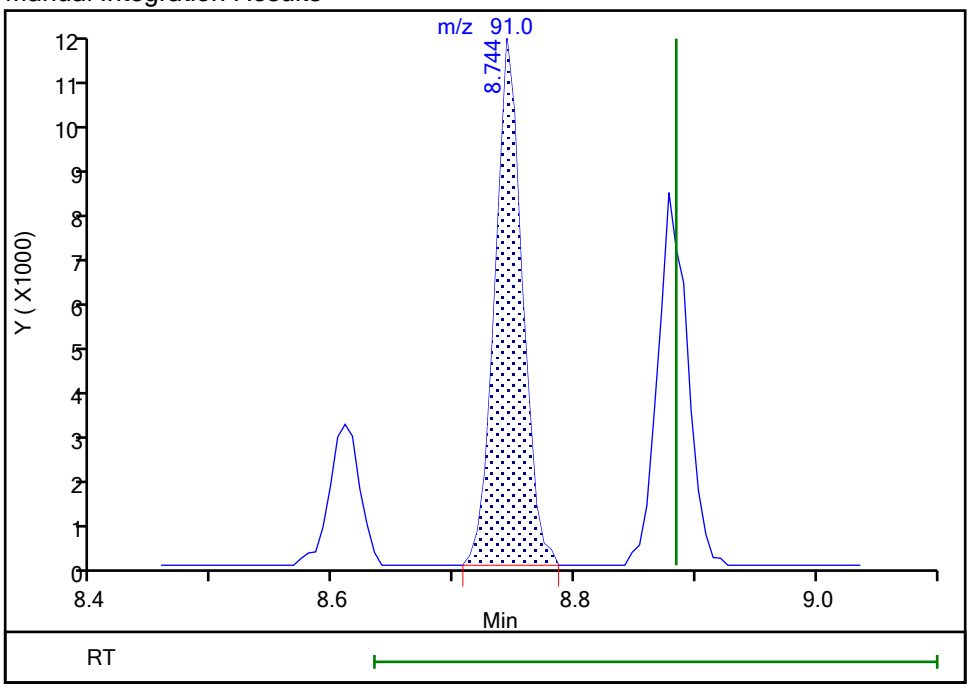
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 17799
Amount: 1.961133
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:26:05
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

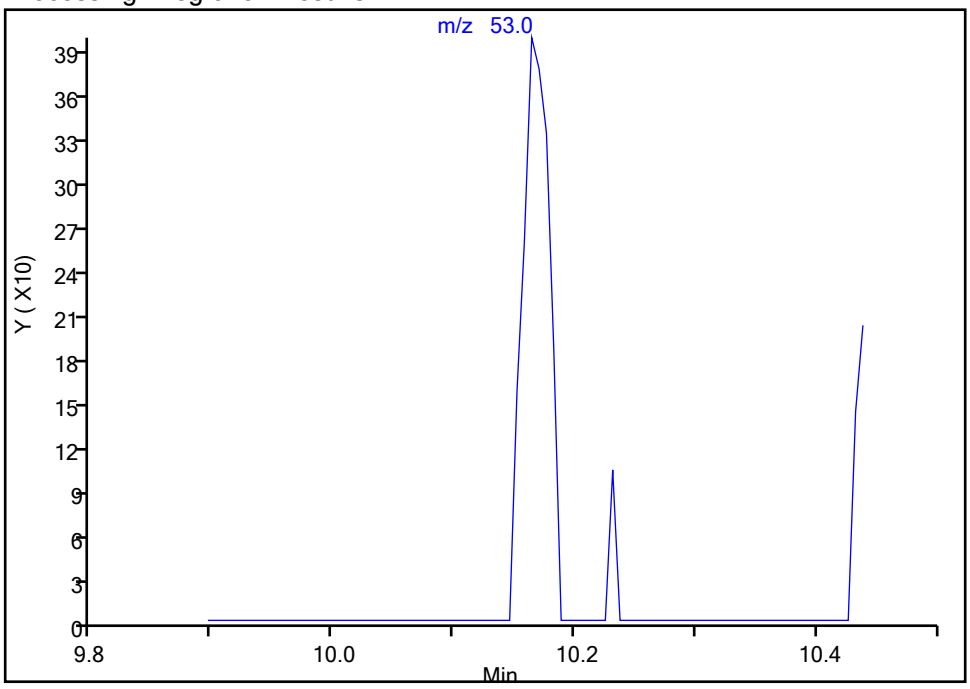
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

82 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

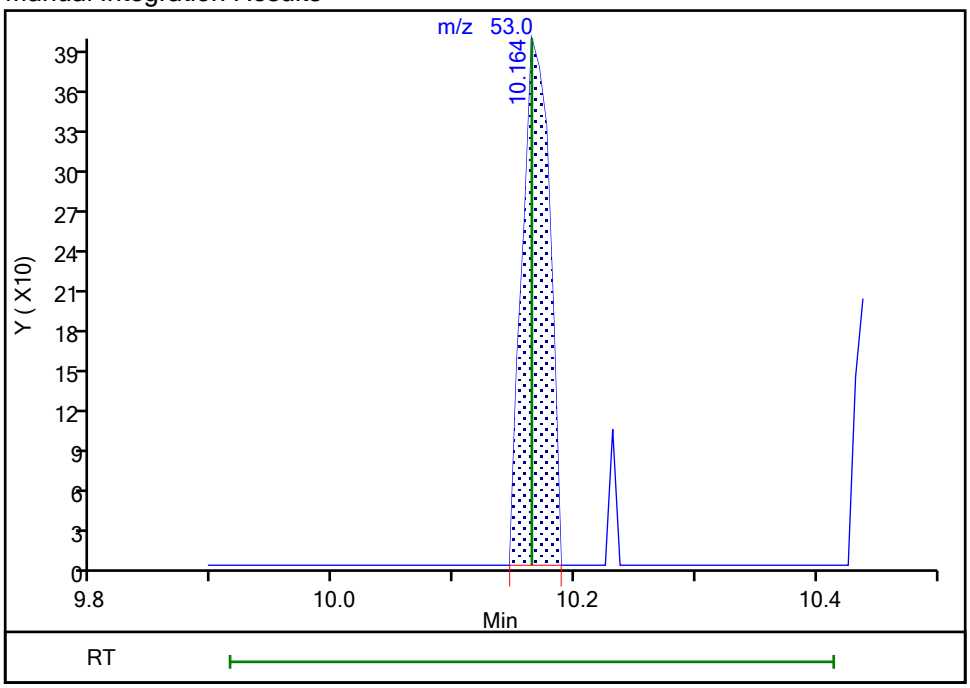
Not Detected
Expected RT: 10.16

Processing Integration Results



Manual Integration Results

RT: 10.16
Area: 613
Amount: 1.353658
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:26:19
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

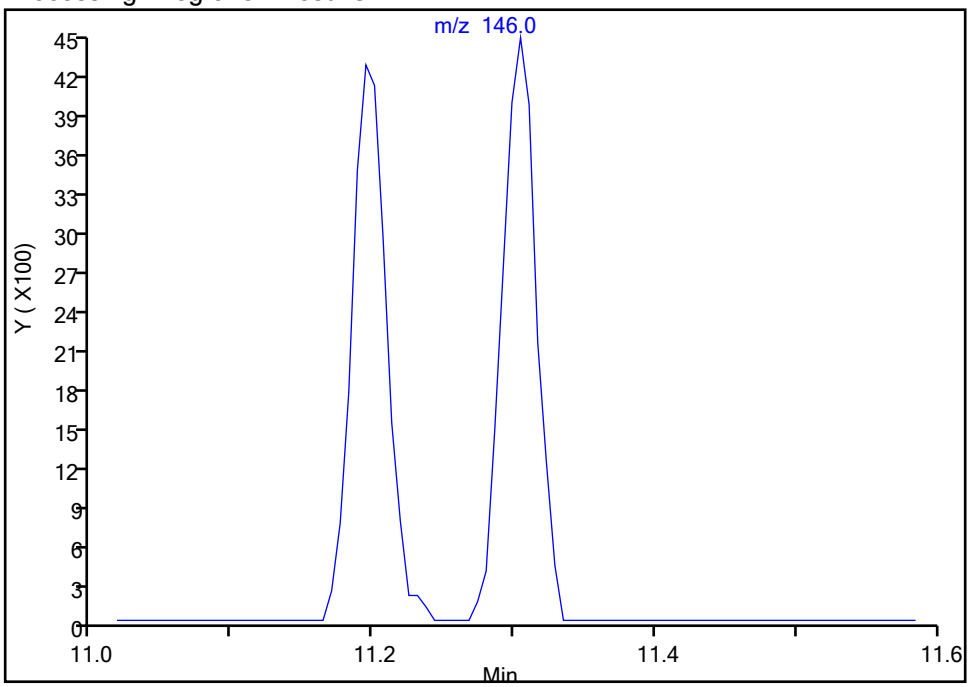
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

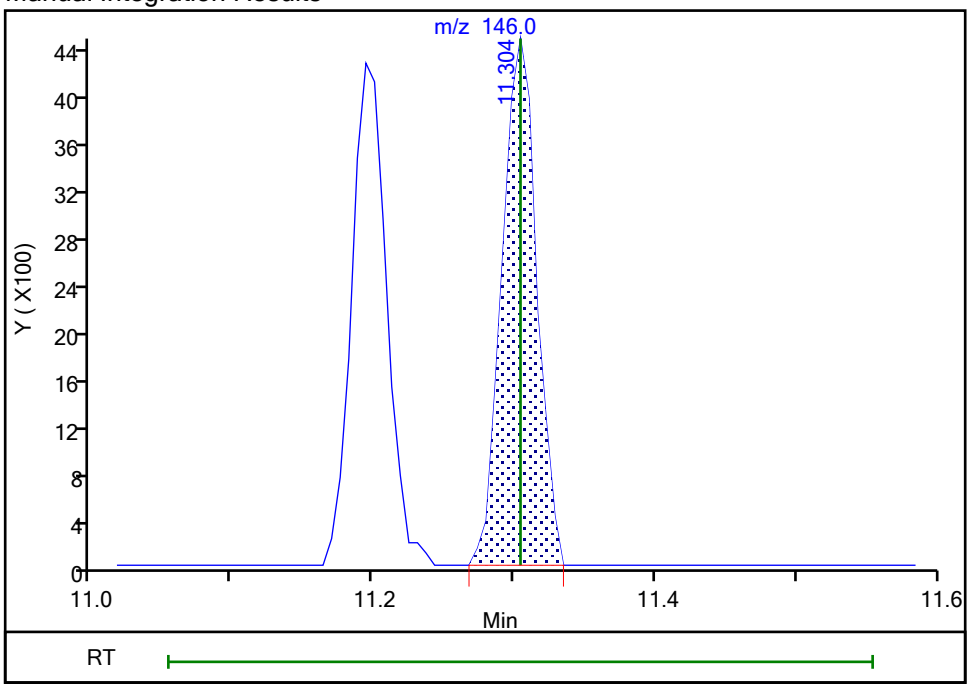
Not Detected
Expected RT: 11.30

Processing Integration Results



Manual Integration Results

RT: 11.30
Area: 7637
Amount: 1.967952
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:26:35
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Oct-2020 09:29:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:23 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:07:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	141797	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	4997	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	86	106146	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	50081	50.0	50.0	
17 Ethanol	45	2.379	2.373	0.006	97	3326	200.0	269.7	a
18 Ethyl ether	59	2.452	2.452	0.000	93	6383	5.00	5.32	
19 Acrolein	56	2.556	2.550	0.006	97	4378	23.8	24.0	M
20 1,1-Dichloroethene	96	2.653	2.647	0.006	97	6520	5.00	4.47	M
21 112TCTFE	101	2.659	2.666	-0.007	91	5704	5.00	3.94	
22 Acetone	43	2.708	2.708	0.000	98	5179	10.0	11.0	M
24 Carbon disulfide	76	2.836	2.836	0.000	99	18910	5.00	4.38	M
105 Isopropyl alcohol	45	2.885	2.891	-0.006	59	3572	50.0	53.5	M
118 Acetonitrile	40	2.958	2.971	-0.013	96	7279	50.0	53.1	M
25 3-Chloro-1-propene	76	3.007	3.001	0.006	78	4829	5.00	5.12	M
26 Methyl acetate	43	3.031	3.031	0.000	98	10592	10.0	10.6	M
27 Methylene Chloride	84	3.111	3.105	0.006	97	8724	5.00	5.05	
23 Iodomethane	142	2.775	3.153	-0.378	98	3172	5.00	2.38	M
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	5421	50.0	57.3	M
30 Acrylonitrile	53	3.342	3.342	0.000	98	27301	50.0	53.3	
28 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	96	7449	5.00	4.48	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	97	19744	5.00	5.12	
31 Hexane	57	3.653	3.641	0.012	94	9450	5.00	4.19	
32 1,1-Dichloroethane	63	3.769	3.775	-0.006	97	15757	5.00	5.05	M
33 Vinyl acetate	86	3.836	3.842	-0.006	98	2864	10.0	9.27	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	12392	5.00	4.11	
36 Isopropyl ether	87	3.867	3.867	0.000	84	7895	5.00	5.20	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	96	24453	5.00	5.01	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	86	9661	5.00	5.07	
38 2,2-Dichloropropane	77	4.324	4.318	0.006	82	10319	5.00	4.19	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	6634	10.0	11.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	97	11076	50.0	54.4	M
104 Ethyl acetate	61	4.421	4.415	0.006	99	2477	10.0	10.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	93	31501	50.0	52.1	
42 Chlorobromomethane	128	4.543	4.543	0.000	41	4409	5.00	5.54	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	1396	10.0	9.88	M
45 Chloroform	83	4.629	4.635	-0.006	95	16264	5.00	4.98	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	97	11030	5.00	4.12	
47 Cyclohexane	56	4.848	4.848	0.000	94	12890	5.00	4.04	
48 Carbon tetrachloride	117	4.958	4.958	0.000	79	8797	5.00	3.80	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	92	11010	5.00	4.40	
108 Isobutyl alcohol	43	5.116	5.117	0.000	92	6523	125.0	129.1	
50 Benzene	78	5.153	5.153	0.000	96	35933	5.00	4.90	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	95	11747	5.00	5.07	
116 n-Butanol	56	5.257	5.257	-0.001	43	7175	125.0	100.7	a
52 Tert-amyl methyl ether	73	5.293	5.287	0.006	99	22745	5.00	5.17	
53 n-Heptane	43	5.445	5.446	-0.001	87	9133	5.00	4.01	
54 Trichloroethene	95	5.793	5.793	0.000	97	8767	5.00	4.68	
117 Ethyl acrylate	55	5.921	5.927	-0.006	99	9456	5.00	5.34	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	12217	5.00	3.97	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	94	9118	5.00	5.10	
56 Dibromomethane	93	6.122	6.122	0.000	94	4879	5.00	5.13	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	10454	10.0	10.3	
115 1,4-Dioxane	58	6.165	6.159	0.006	33	1437	100.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	97	10458	5.00	4.84	
106 2-Nitropropane	43	6.525	6.519	0.006	98	2682	10.0	8.54	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	92	5133	5.00	5.17	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	12398	5.00	4.79	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	97	14634	10.0	10.7	
62 Toluene	92	7.098	7.098	0.000	99	25051	5.00	5.03	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	10540	5.00	4.52	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	90	9658	5.00	4.96	
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	92	6736	5.00	5.66	
66 Tetrachloroethene	166	7.683	7.677	0.006	96	9753	5.00	4.75	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	13950	5.00	5.47	
68 2-Hexanone	43	7.817	7.817	0.000	98	9374	10.0	10.5	
69 Chlorodibromomethane	129	7.939	7.939	0.000	89	7339	5.00	4.62	
109 n-Butyl acetate	43	7.969	7.970	-0.001	98	12046	5.00	5.14	
70 Ethylene Dibromide	107	8.055	8.049	0.006	99	7745	5.00	5.28	
71 Chlorobenzene	112	8.610	8.610	0.000	93	29009	5.00	5.45	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	92	8766	5.00	5.09	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	99	18231	5.00	5.03	
73 Ethylbenzene	91	8.744	8.884	-0.140	99	46529	5.00	4.99	
75 o-Xylene	106	9.323	9.317	0.006	96	18126	5.00	5.25	
76 Styrene	104	9.341	9.341	0.000	93	30342	5.00	5.31	
77 Bromoform	173	9.530	9.530	0.000	91	3525	5.00	3.80	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	44416	5.00	4.95	
79 Bromobenzene	156	10.079	10.085	-0.006	94	11831	5.00	5.43	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	94	9318	5.00	5.60	
81 1,2,3-Trichloropropane	110	10.140	10.146	-0.006	87	3204	5.00	5.73	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	71	1855	5.00	3.99	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	50105	5.00	4.84	
84 2-Chlorotoluene	91	10.316	10.317	-0.001	97	30904	5.00	5.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	37170	5.00	5.21	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	96	35953	5.00	5.02	
87 tert-Butylbenzene	119	10.829	10.829	0.000	93	30027	5.00	4.84	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	98	37308	5.00	5.06	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	41390	5.00	4.69	
90 1,3-Dichlorobenzene	146	11.200	11.188	0.012	98	21308	5.00	5.49	a
91 4-Isopropyltoluene	119	11.274	11.268	0.006	70	36080	5.00	4.84	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	98	38239	5.00	5.39	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	22552	5.00	5.67	a
113 Benzyl chloride	126	11.475	11.463	0.012	98	1884	5.00	2.92	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	97	20163	5.00	5.39	
94 n-Butylbenzene	91	11.761	11.761	0.000	97	30233	5.00	4.61	
95 1,2-Dibromo-3-Chloropropane	75	12.682	12.682	0.000	80	979	5.00	4.11	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	95	11804	5.00	5.17	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	96	10153	5.00	5.32	
97 Hexachlorobutadiene	225	13.932	13.926	0.006	94	4355	5.00	4.68	
98 Naphthalene	128	13.974	13.974	0.000	97	21334	5.00	5.12	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	8158	5.00	5.35	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		10.0	9.55	
S 102 1,3-Dichloropropene, Total	1				0		10.0	9.31	
S 100 Xylenes, Total	1				0		10.0	10.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

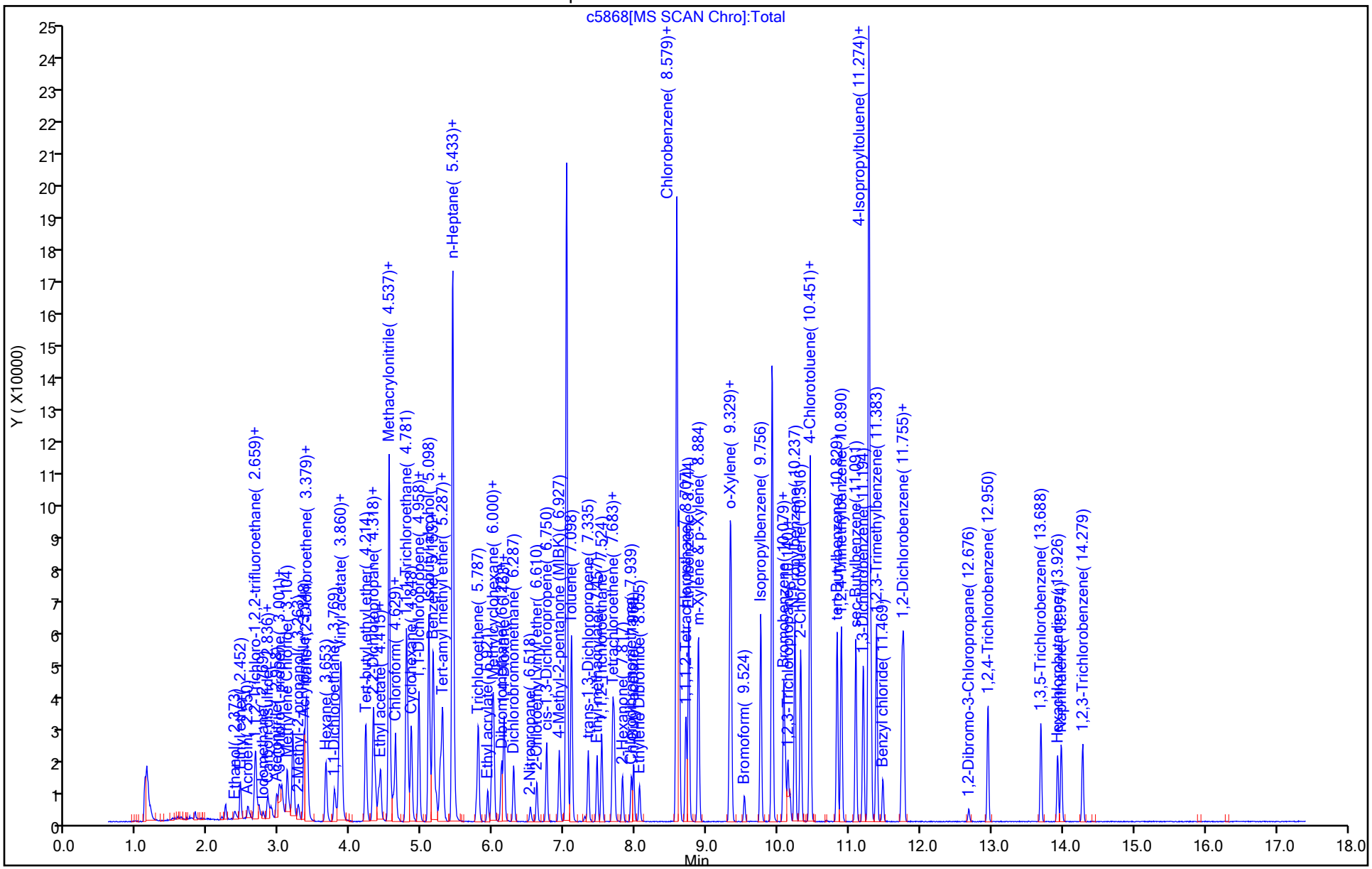
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	5.00	Units: uL

Report Date: 13-Oct-2020 18:26:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D

Injection Date:	13-Oct-2020 09:29:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std4			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

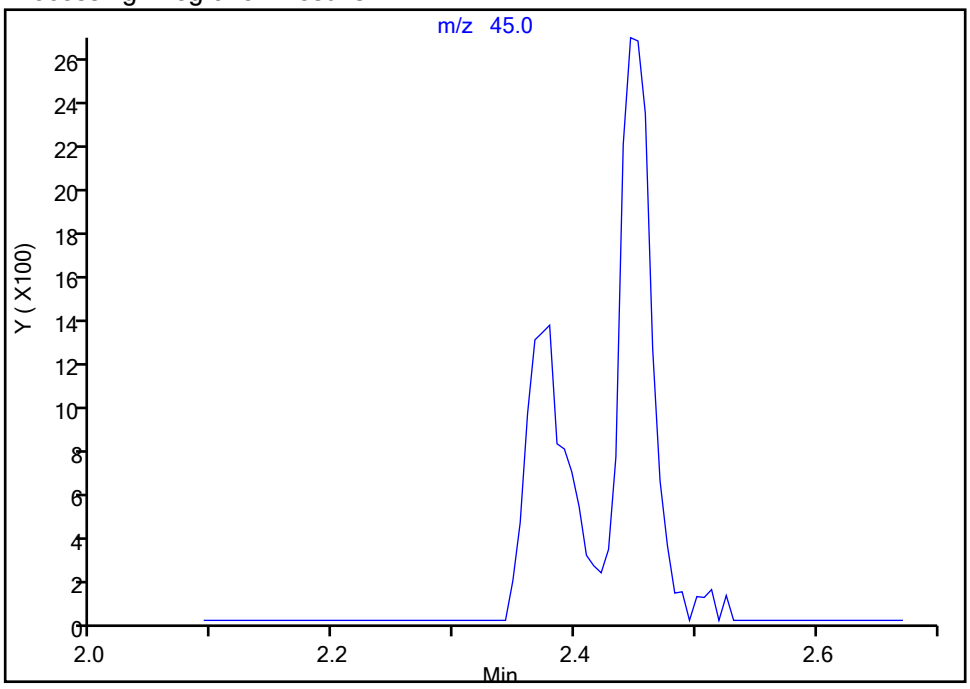
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

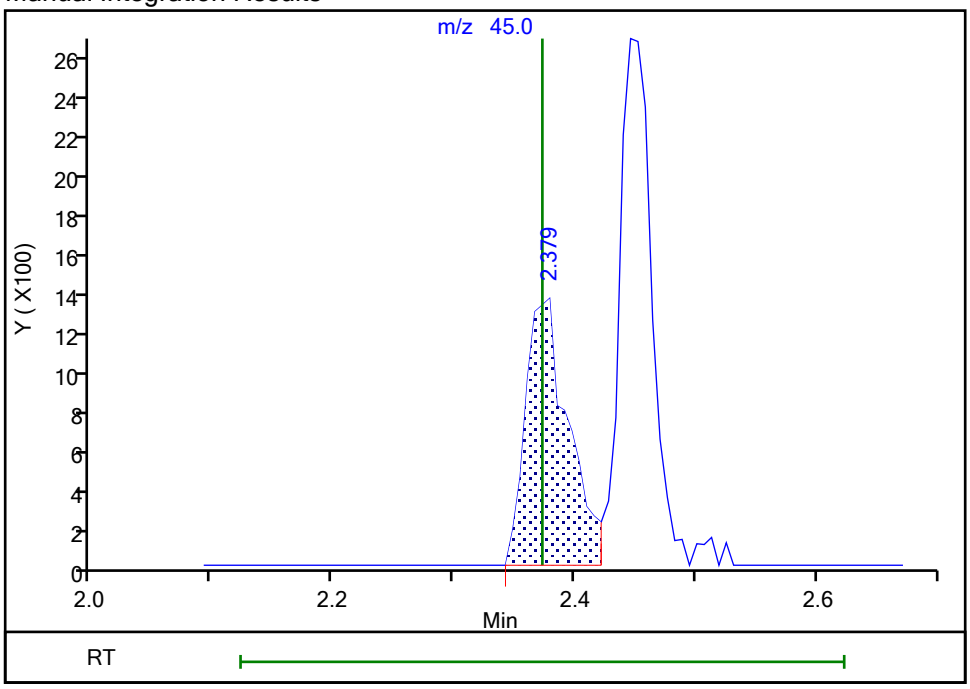
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 3326
Amount: 269.7256
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

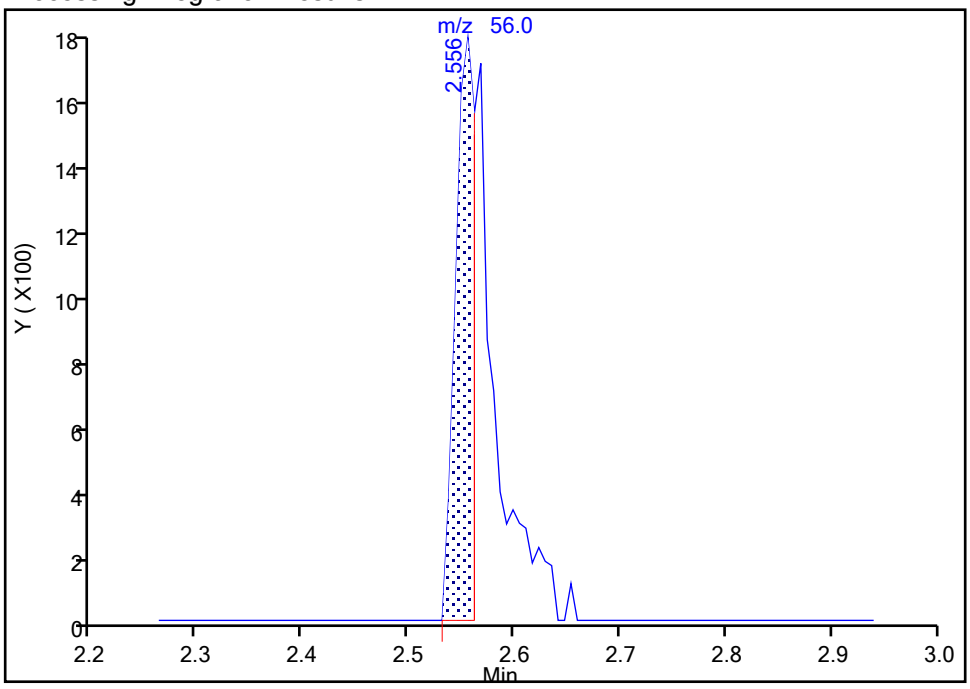
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

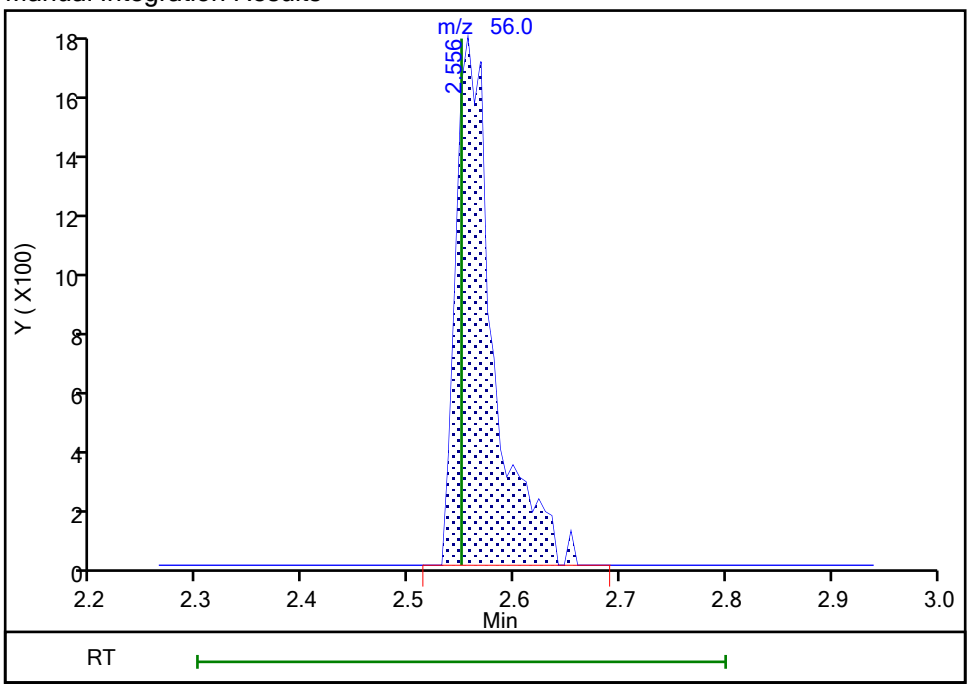
Processing Integration Results

RT: 2.56
Area: 2290
Amount: 13.963693
Amount Units: ug/l



Manual Integration Results

RT: 2.56
Area: 4378
Amount: 24.008025
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

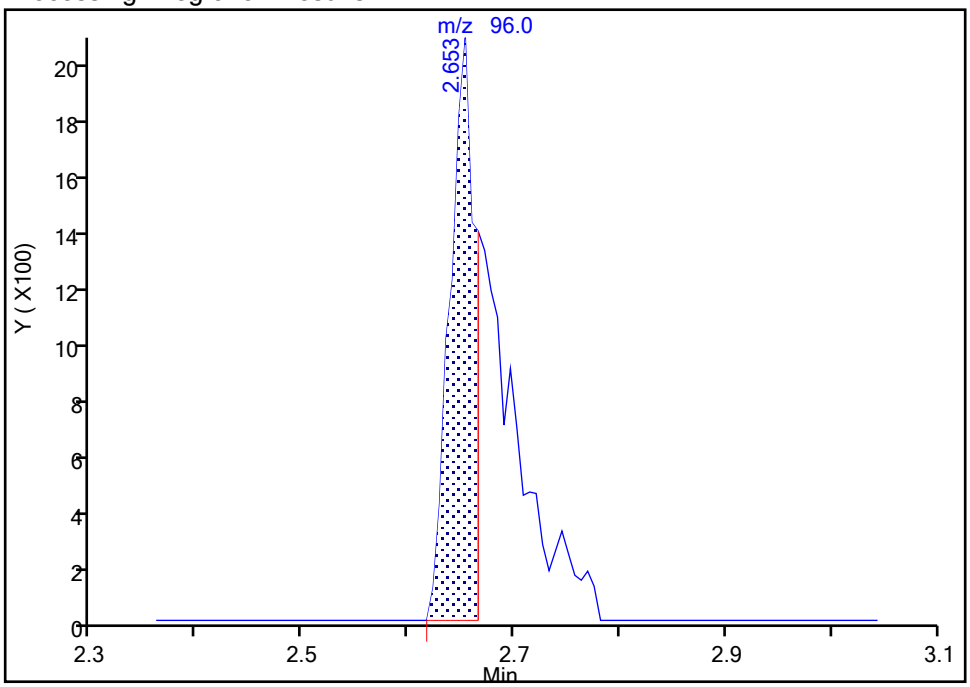
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

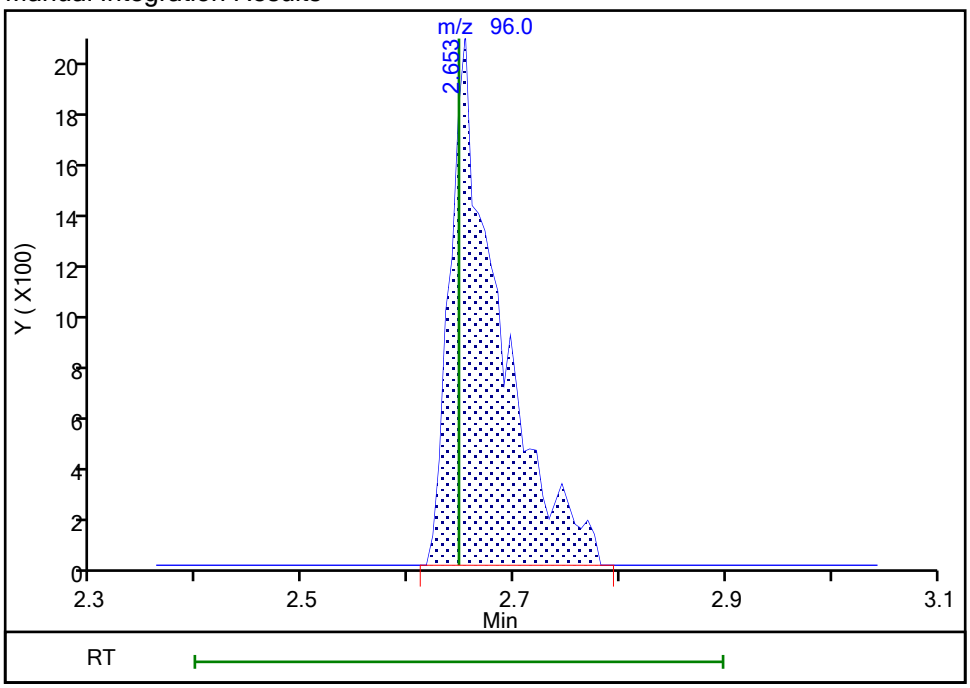
Processing Integration Results

RT: 2.65
Area: 3324
Amount: 2.592468
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 6520
Amount: 4.470025
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

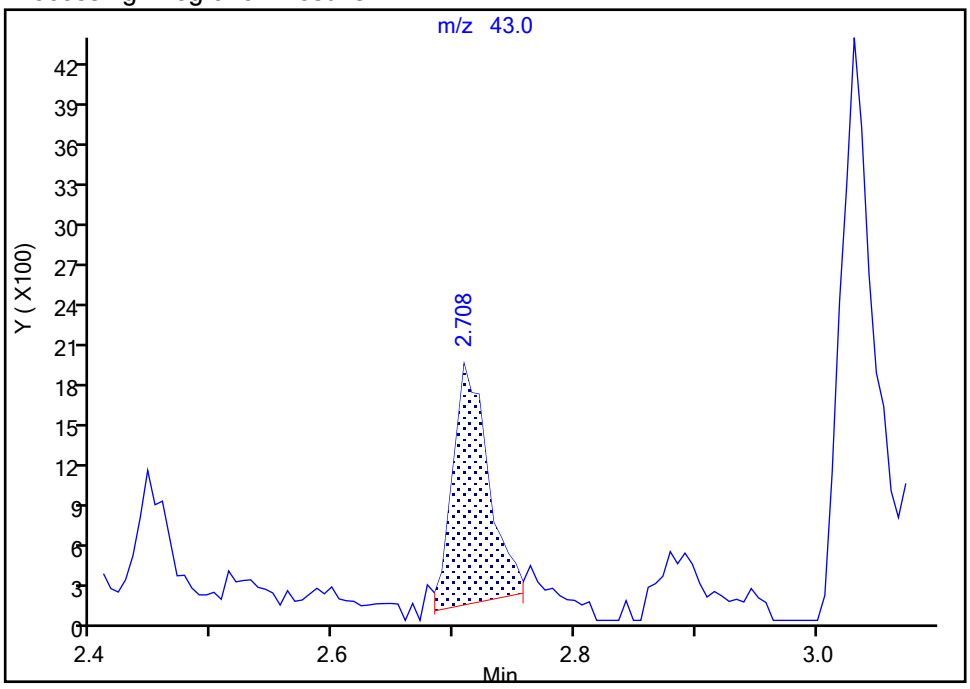
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

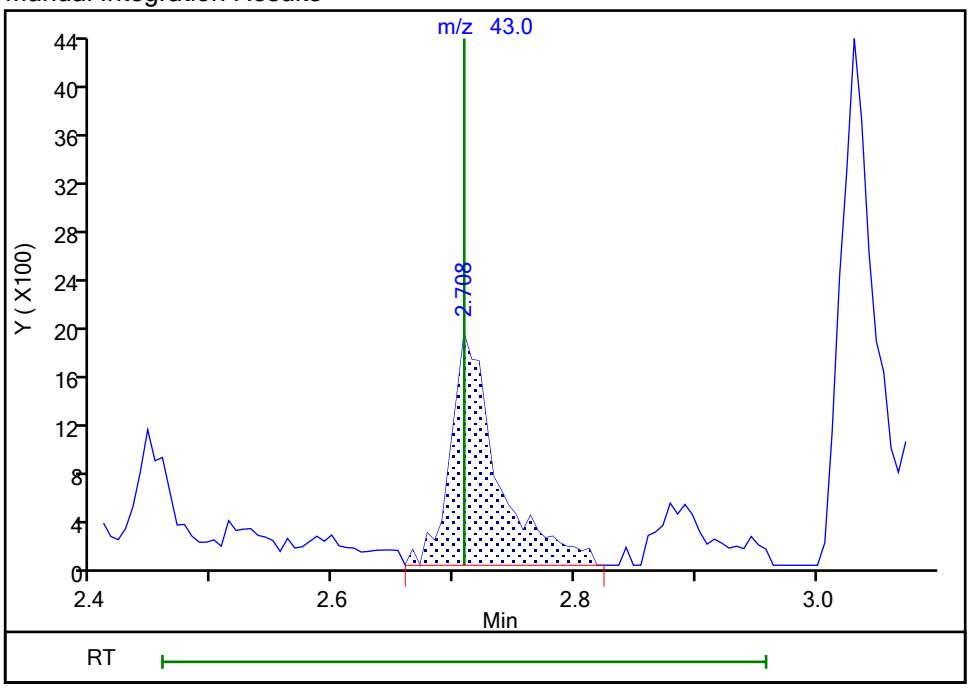
Processing Integration Results

RT: 2.71
Area: 3691
Amount: 8.724066
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 5179
Amount: 11.026589
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

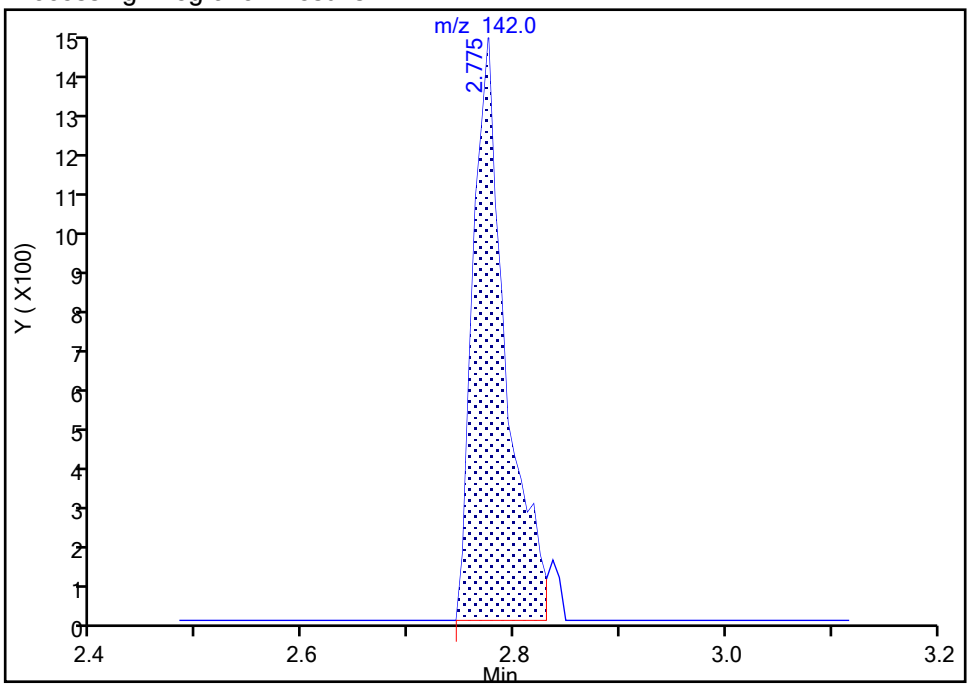
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

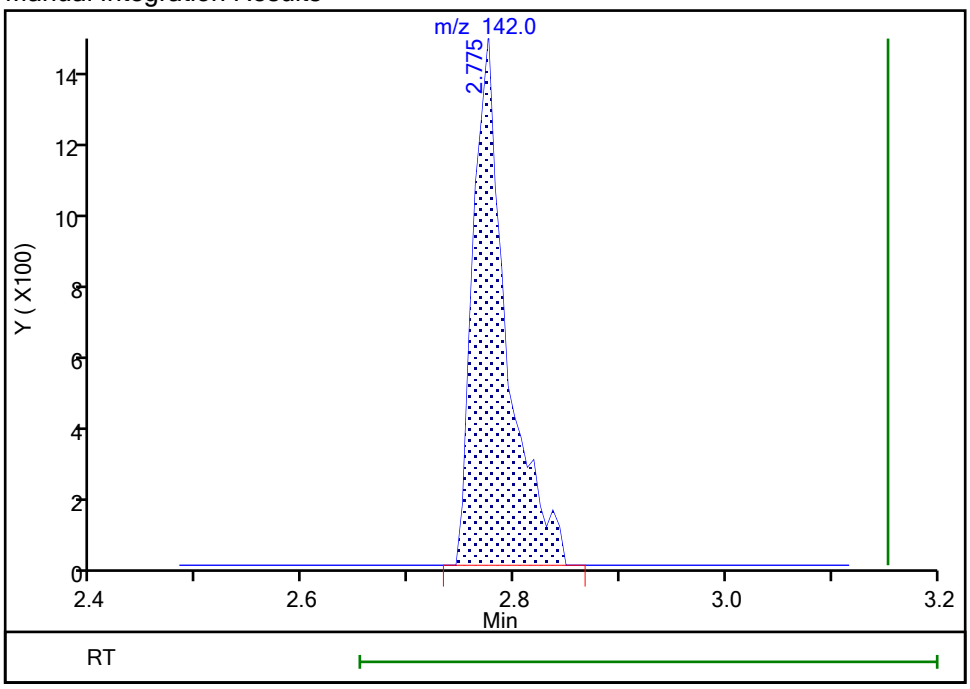
Processing Integration Results

RT: 2.78
Area: 3079
Amount: 2.716709
Amount Units: ug/l



Manual Integration Results

RT: 2.78
Area: 3172
Amount: 2.377349
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

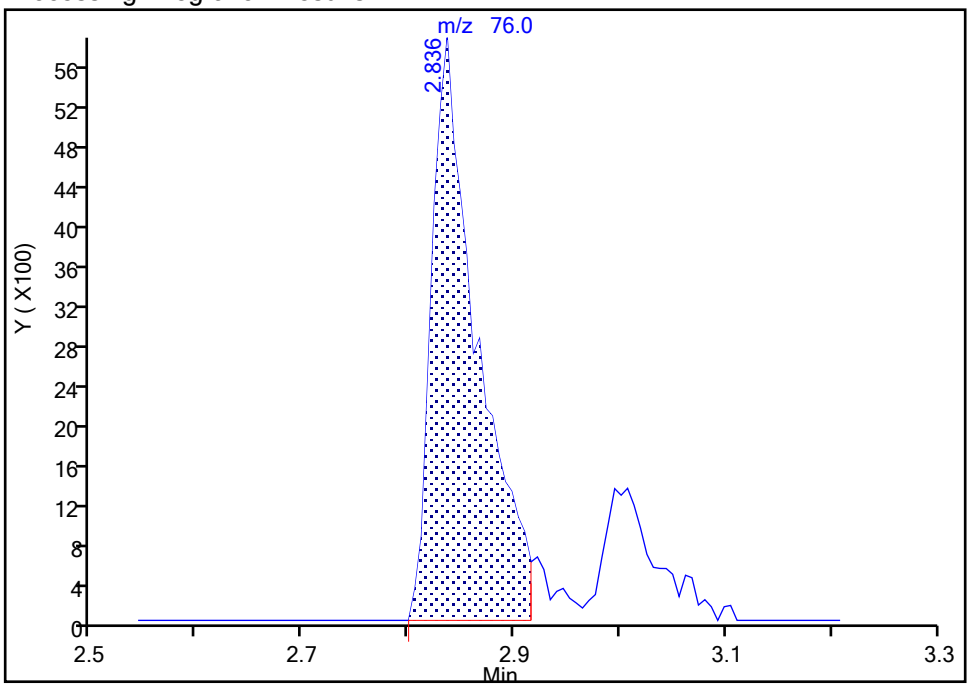
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

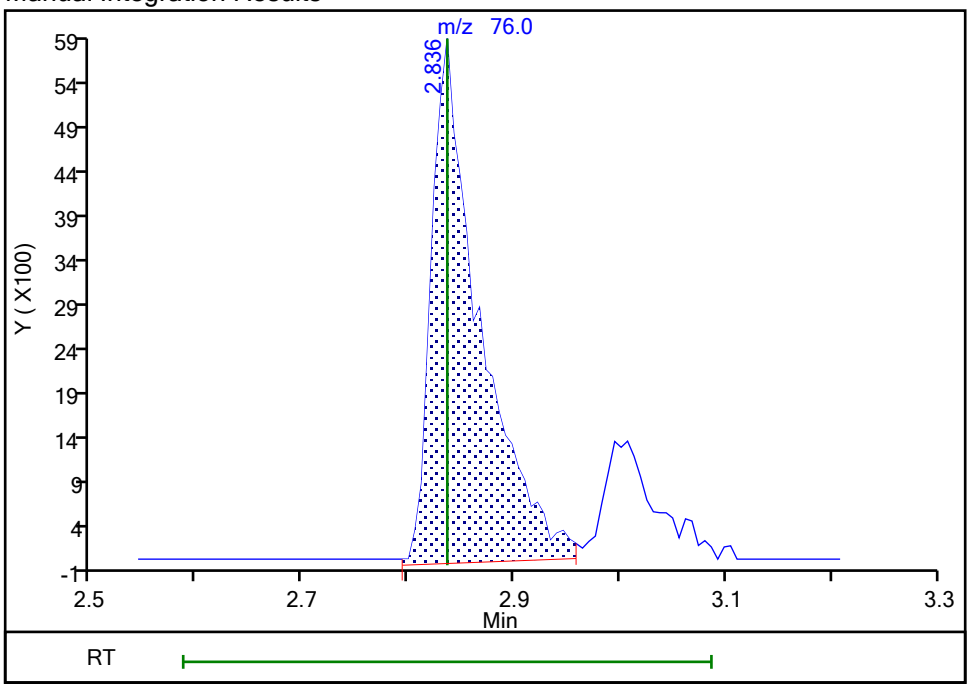
Processing Integration Results

RT: 2.84
Area: 17723
Amount: 4.123077
Amount Units: ug/l



Manual Integration Results

RT: 2.84
Area: 18910
Amount: 4.379066
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

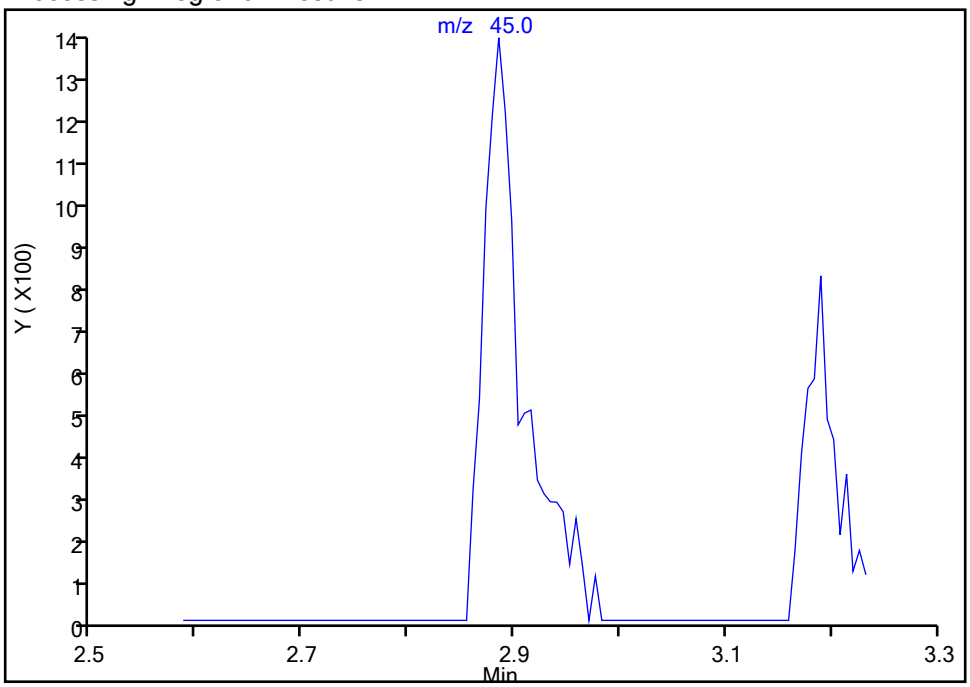
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

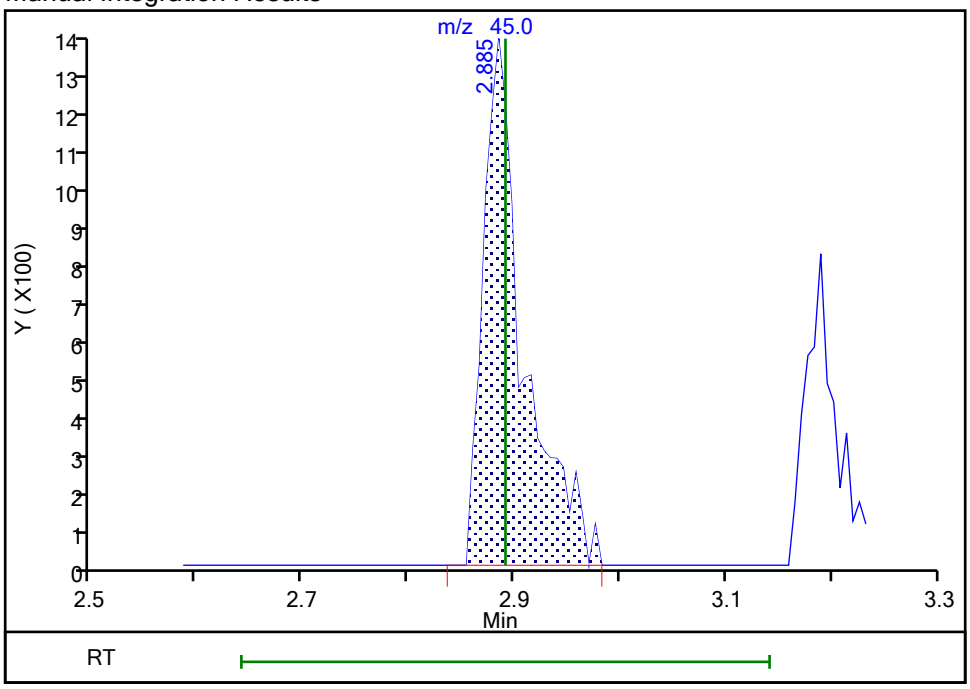
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 3572
Amount: 53.460333
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

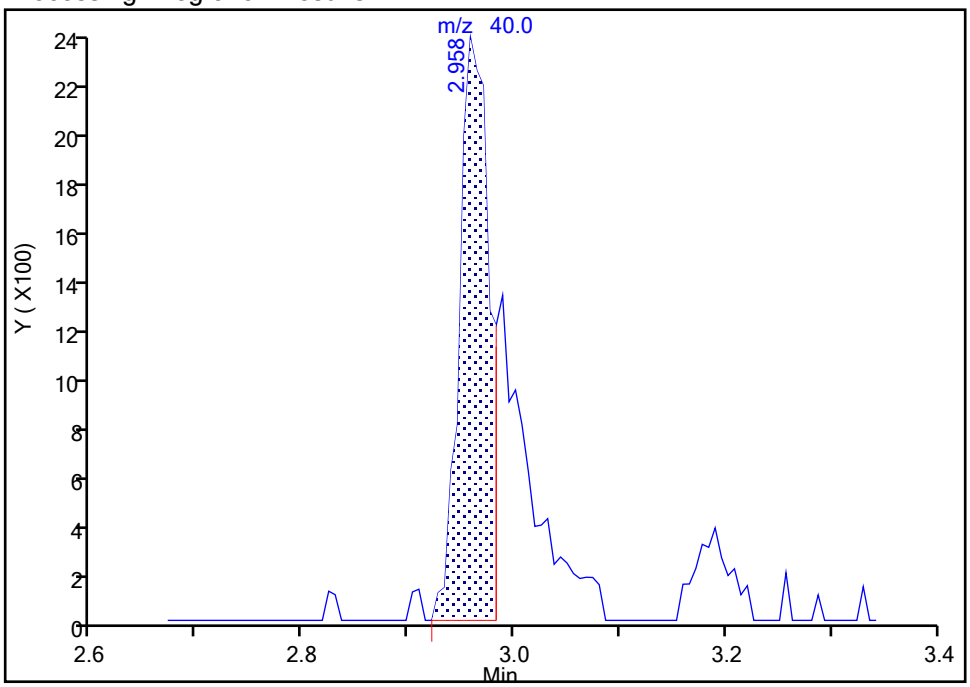
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

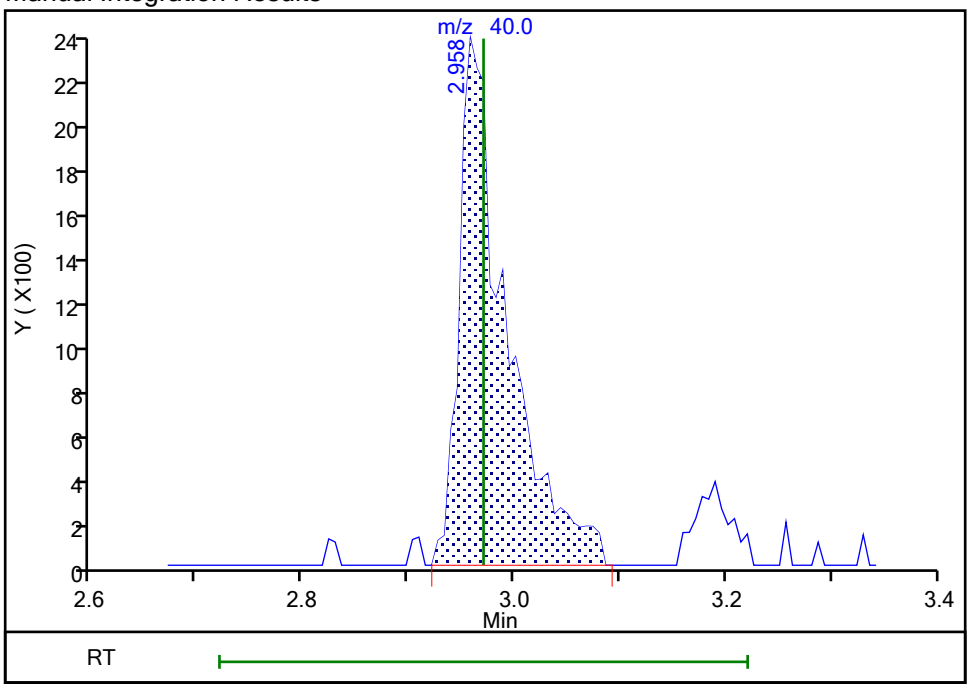
Processing Integration Results

RT: 2.96
Area: 4643
Amount: 33.919877
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 7279
Amount: 53.144869
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

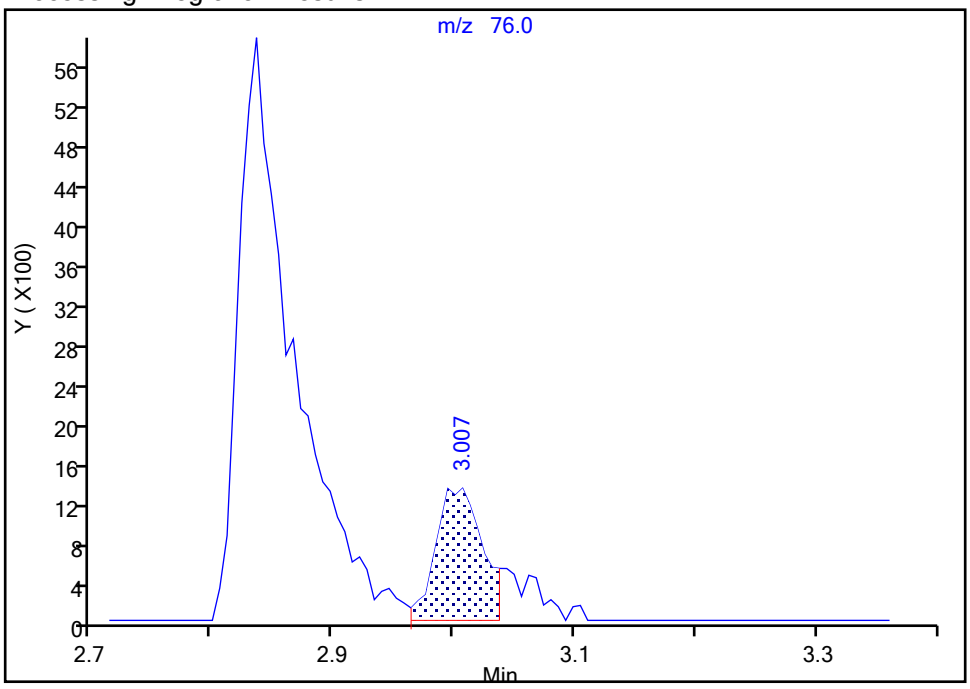
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

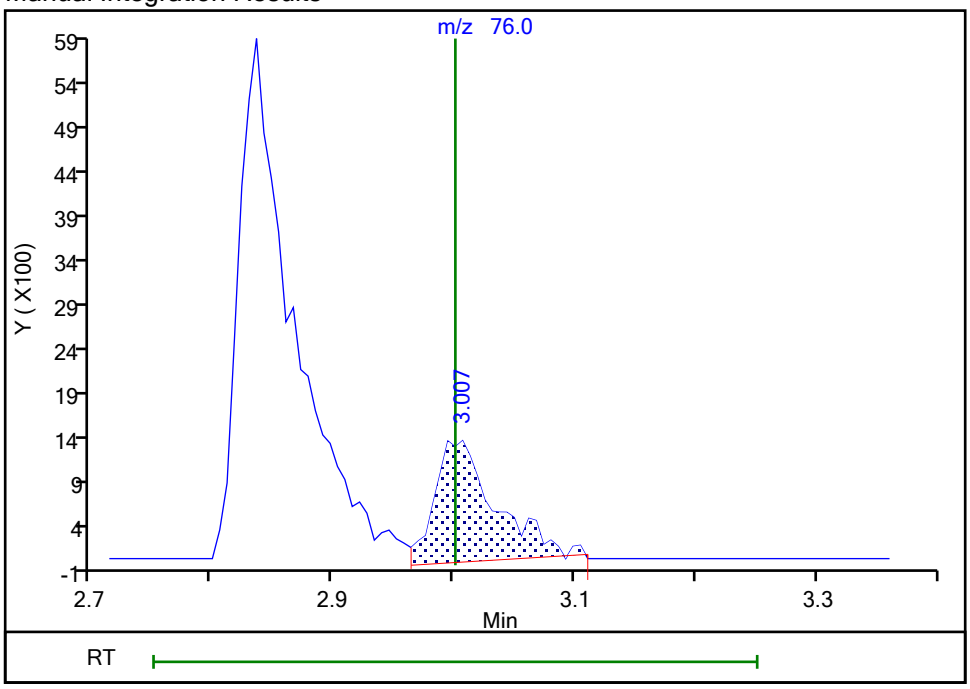
Processing Integration Results

RT: 3.01
Area: 3642
Amount: 4.060683
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 4829
Amount: 5.123861
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

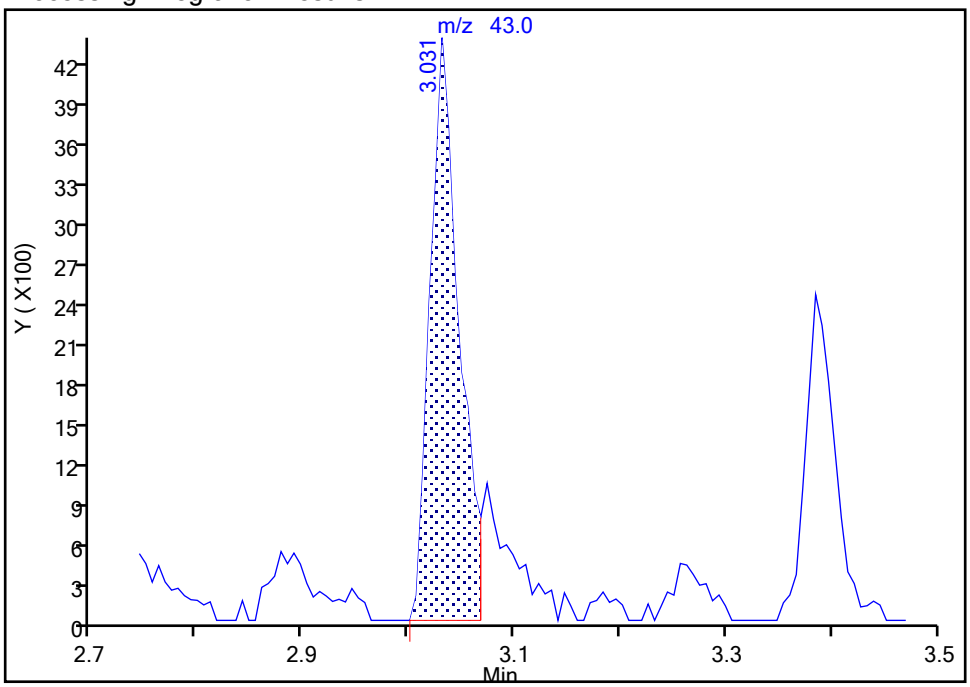
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

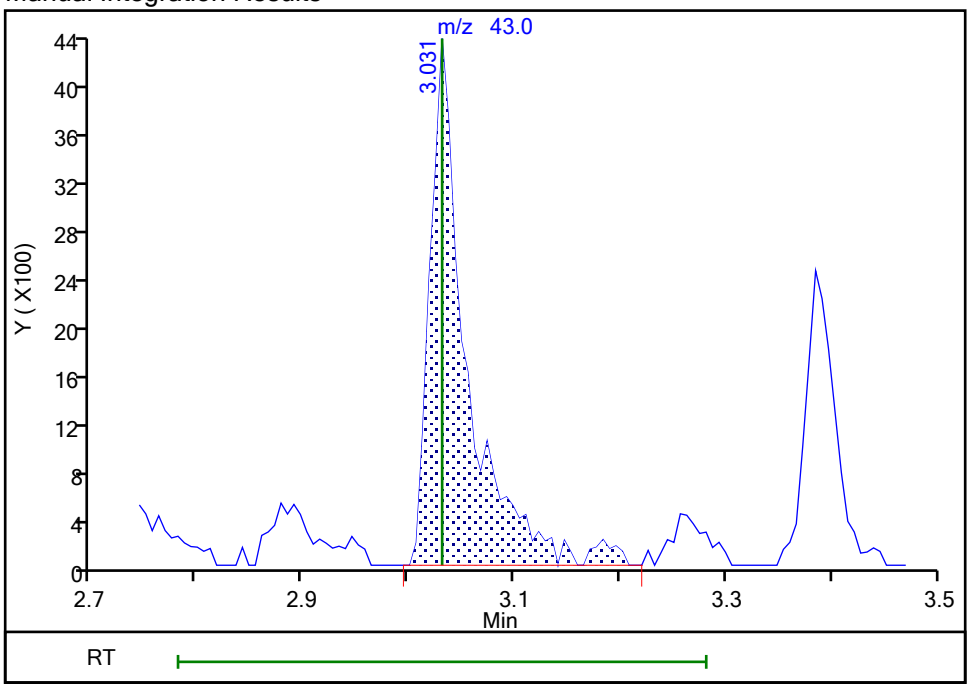
Processing Integration Results

RT: 3.03
Area: 8303
Amount: 8.452269
Amount Units: ug/l



Manual Integration Results

RT: 3.03
Area: 10592
Amount: 10.577036
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

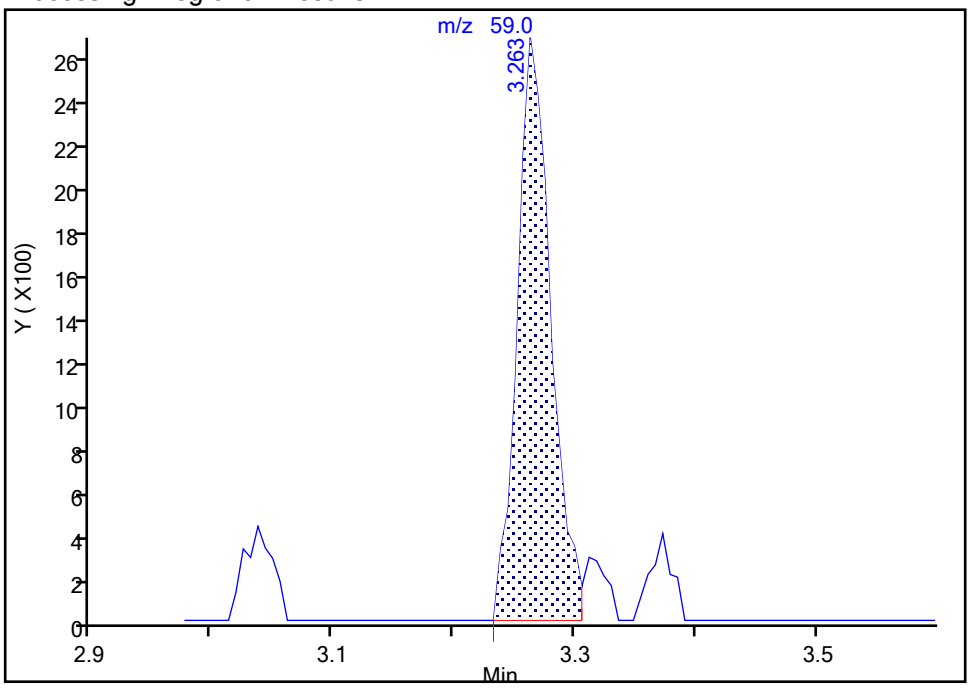
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

35 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

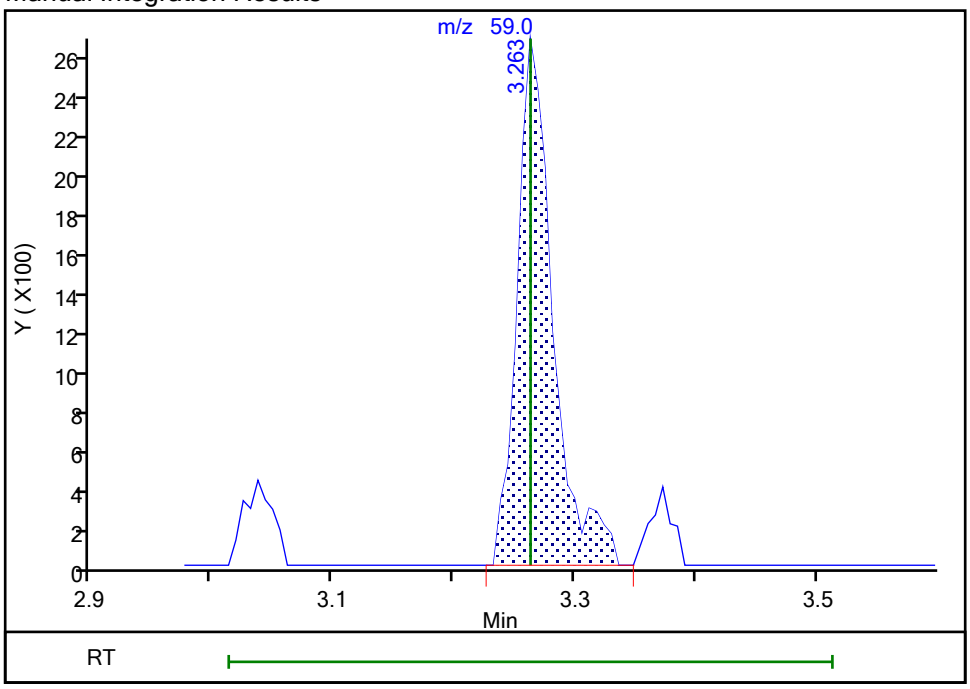
Processing Integration Results

RT: 3.26
Area: 5085
Amount: 55.552378
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 5421
Amount: 57.326779
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

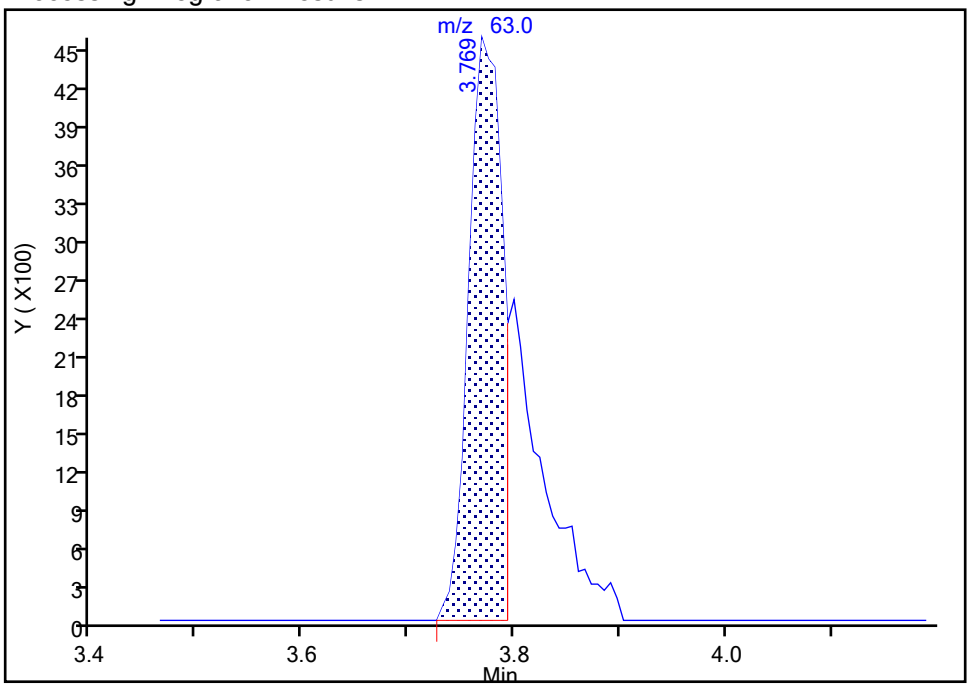
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

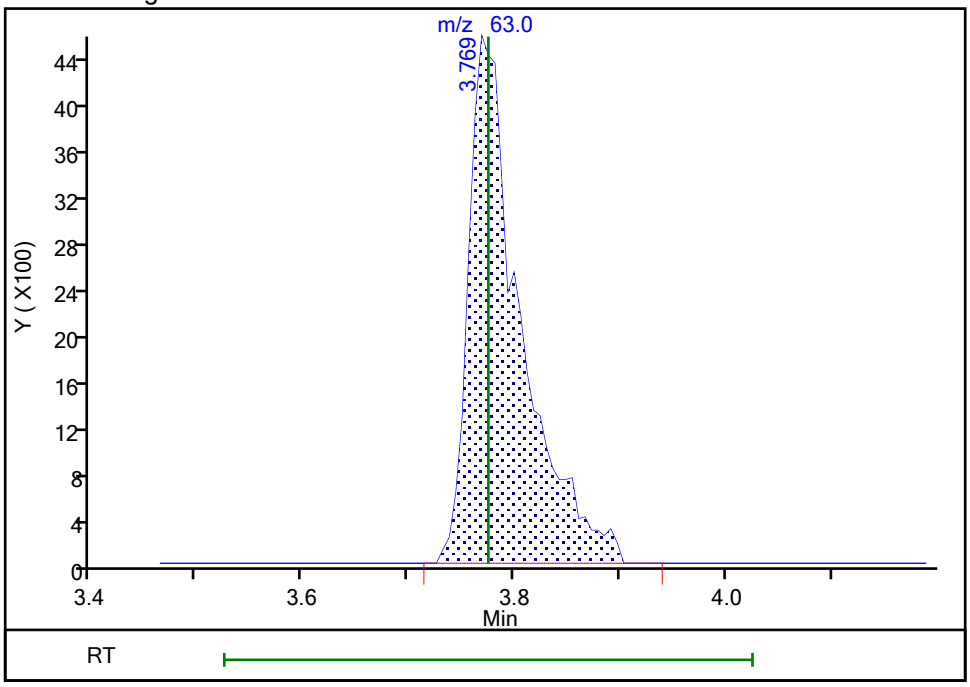
Processing Integration Results

RT: 3.77
Area: 10243
Amount: 3.381827
Amount Units: ug/l



Manual Integration Results

RT: 3.77
Area: 15757
Amount: 5.049129
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

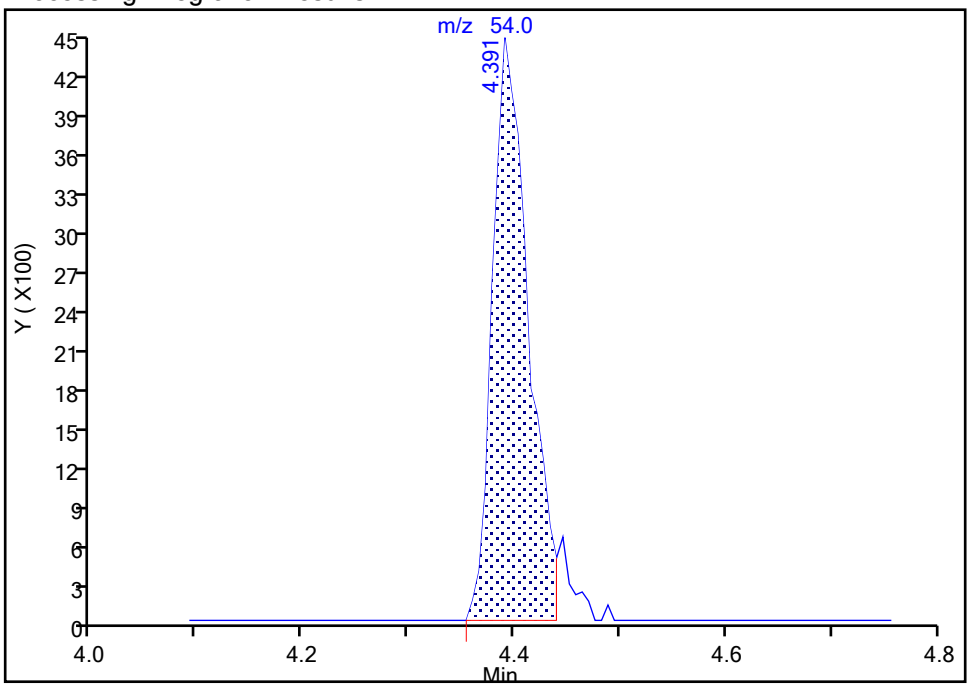
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

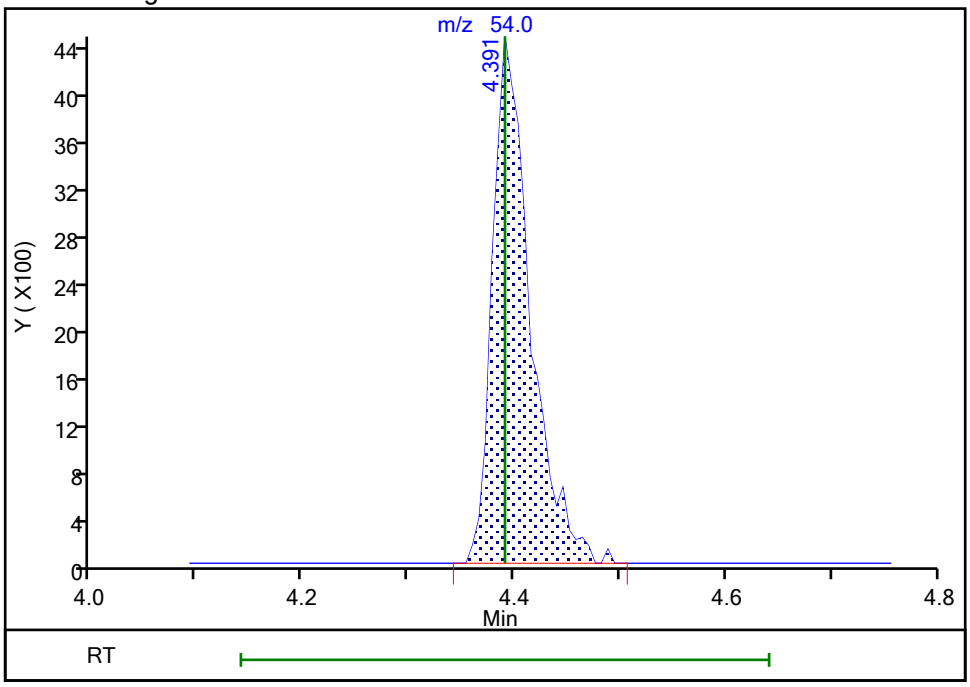
Processing Integration Results

RT: 4.39
Area: 10491
Amount: 53.639209
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 11076
Amount: 54.393097
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

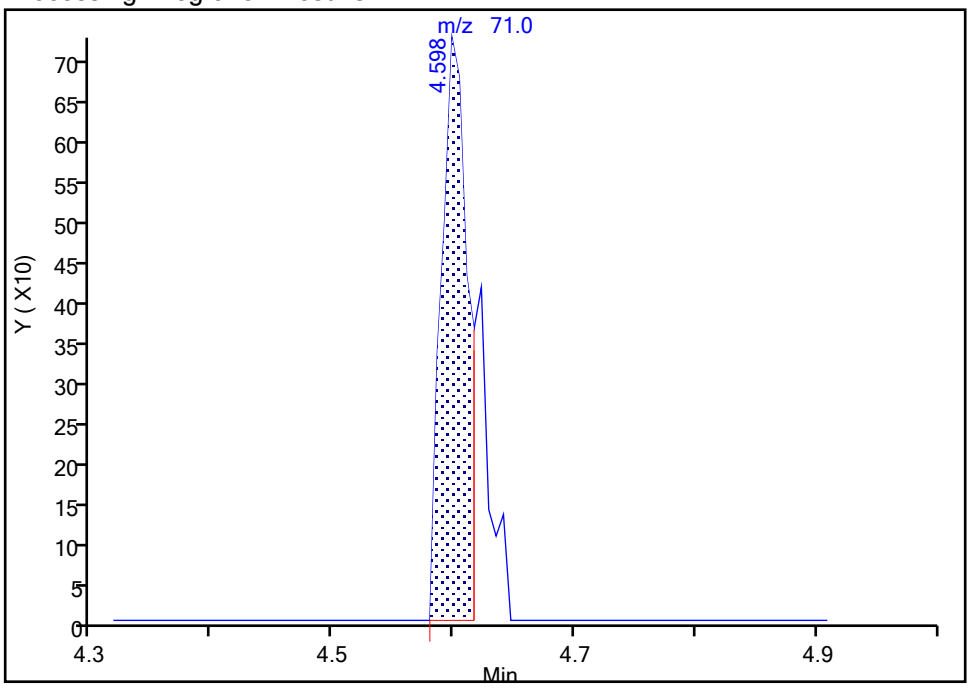
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

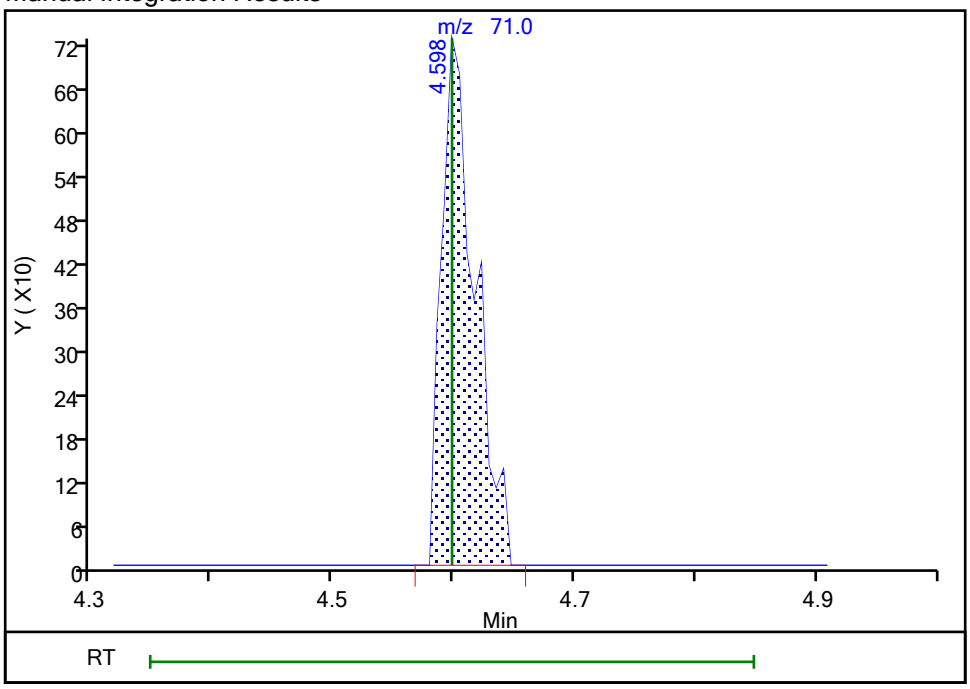
Processing Integration Results

RT: 4.60
Area: 1106
Amount: 8.541462
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 1396
Amount: 9.876865
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

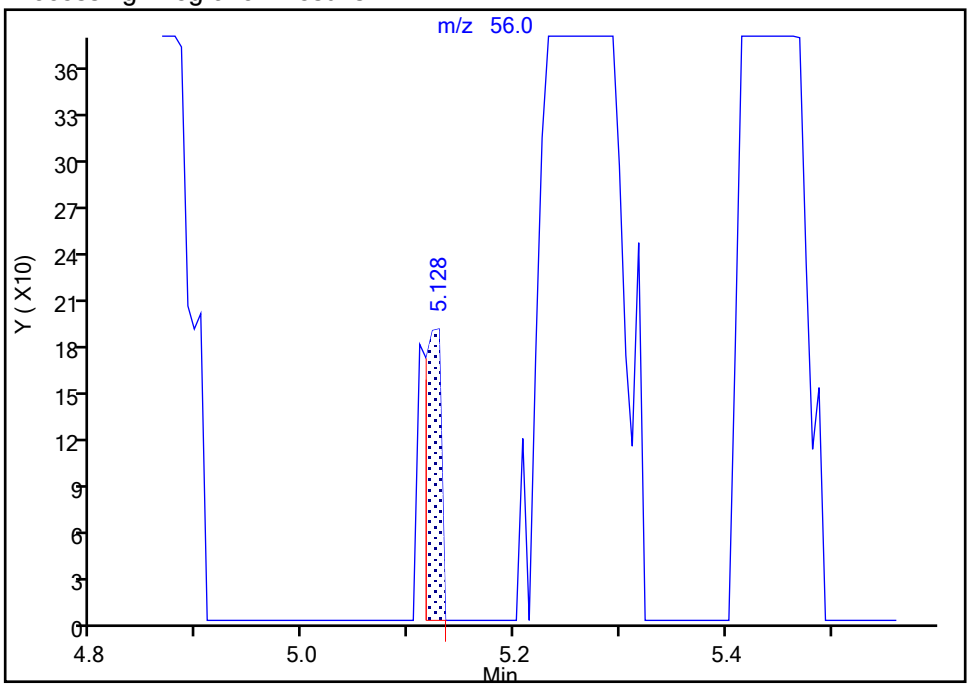
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

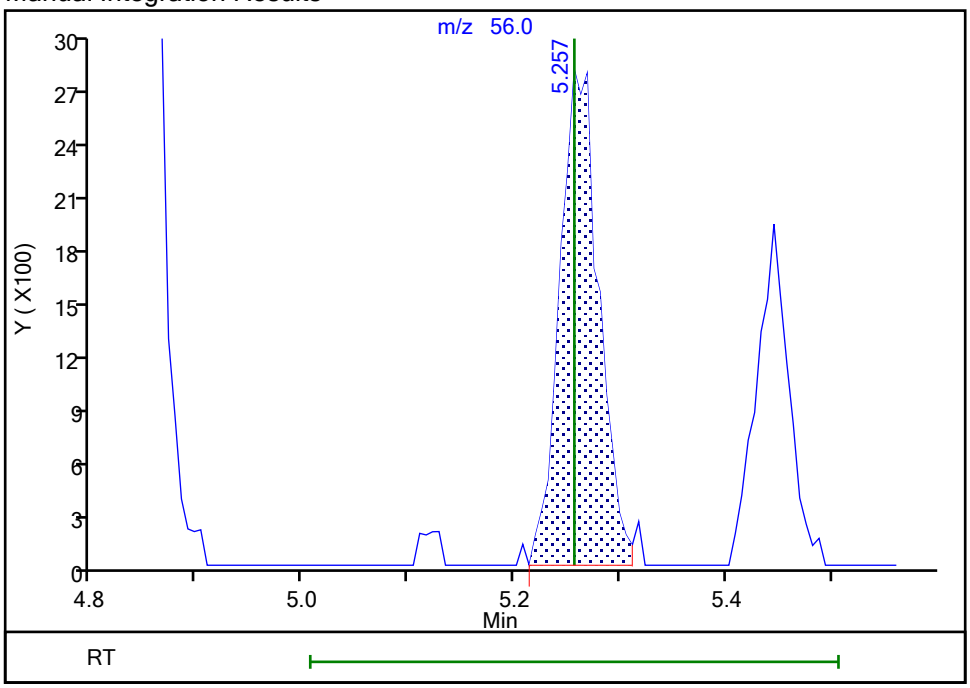
Processing Integration Results

RT: 5.13
Area: 200
Amount: 3.004184
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 7175
Amount: 100.7388
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:56
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

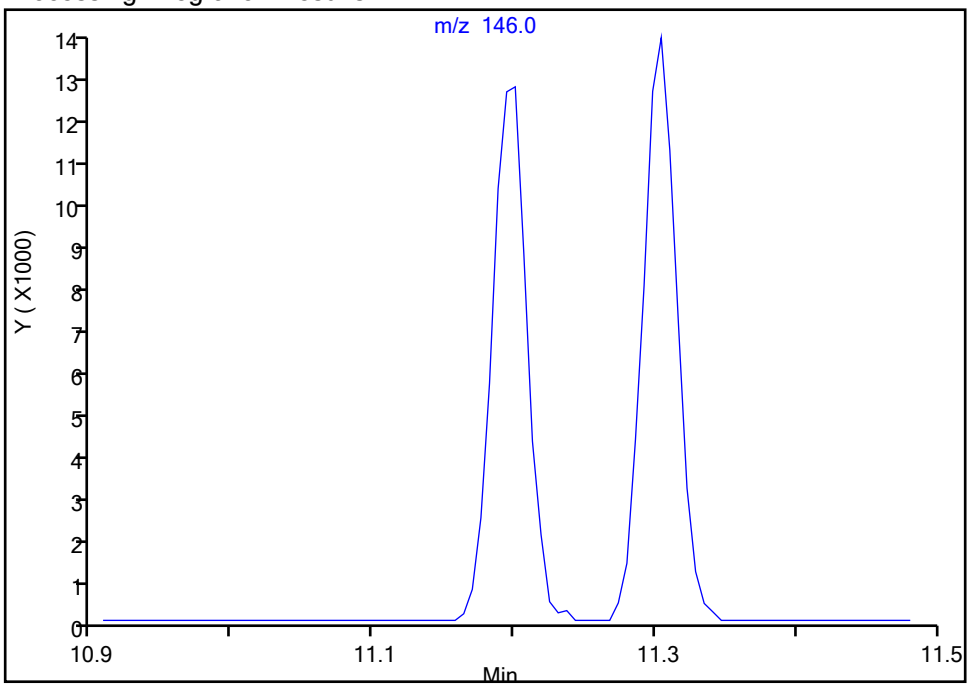
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

90 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

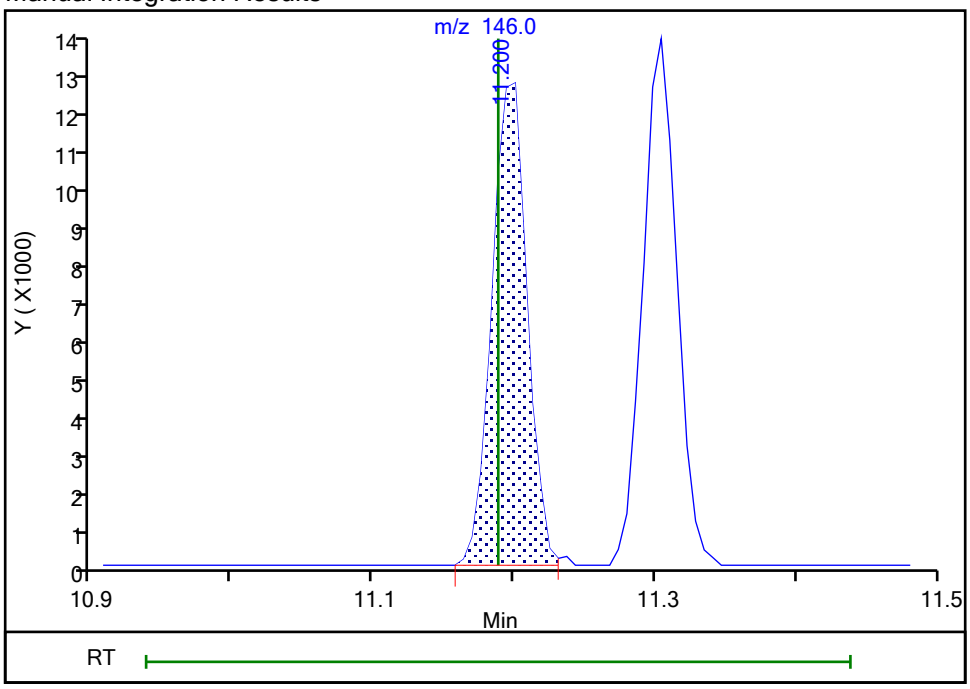
Not Detected
Expected RT: 11.19

Processing Integration Results



Manual Integration Results

RT: 11.20
Area: 21308
Amount: 5.491955
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:55:14
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

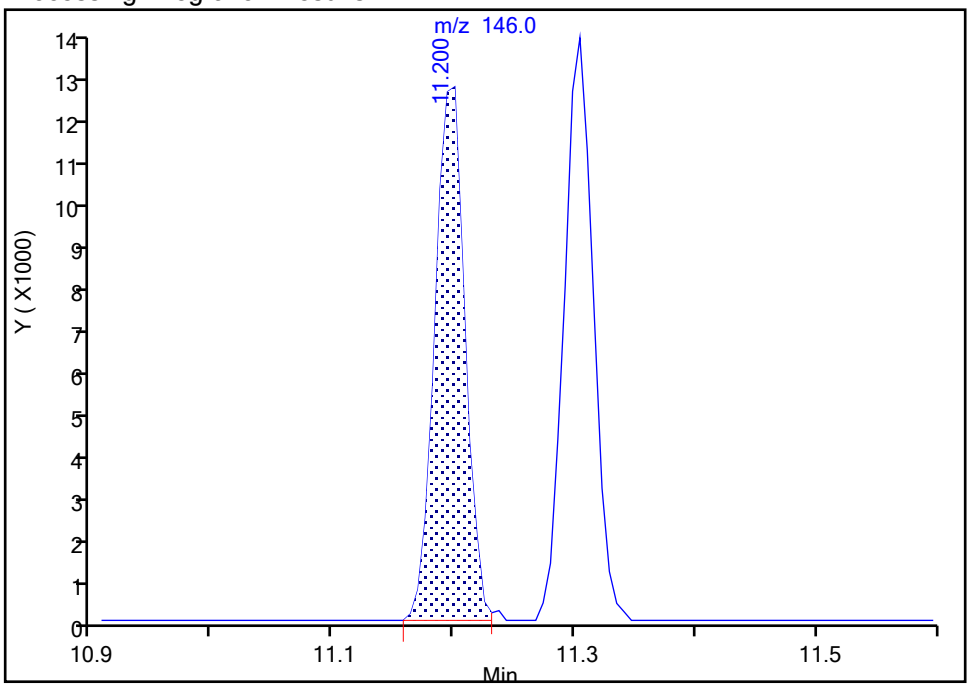
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

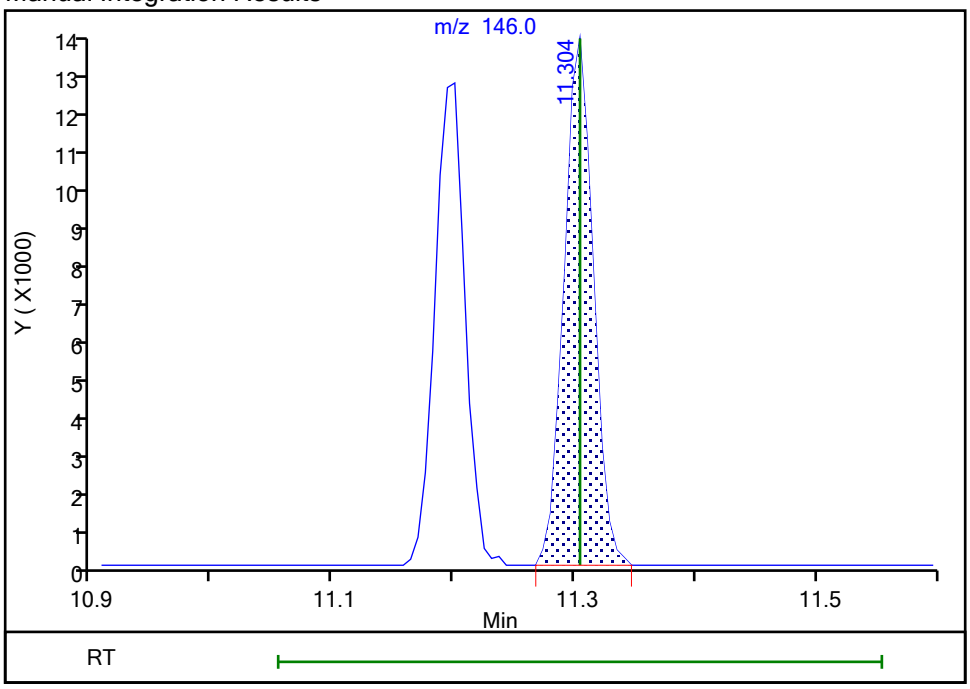
Processing Integration Results

RT: 11.20
Area: 21308
Amount: 5.386536
Amount Units: ug/l



Manual Integration Results

RT: 11.30
Area: 22552
Amount: 5.671287
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:55:22
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Oct-2020 09:53:30 ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:38 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 14:41:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	144148	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	93	4835	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	86	106842	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	88	50814	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	8139	400.0	649.3	a
18 Ethyl ether	59	2.452	2.452	0.000	92	13878	10.0	11.4	
19 Acrolein	56	2.556	2.550	0.006	99	10425	47.6	56.2	
20 1,1-Dichloroethene	96	2.653	2.647	0.006	93	15058	10.0	10.2	
21 112TCTFE	101	2.666	2.666	0.000	92	16888	10.0	11.5	
22 Acetone	43	2.708	2.708	0.000	97	10707	20.0	25.9	M
24 Carbon disulfide	76	2.836	2.836	0.000	100	44513	10.0	10.1	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	95	9087	100.0	133.8	
118 Acetonitrile	40	2.958	2.971	-0.013	100	16111	100.0	115.7	
25 3-Chloro-1-propene	76	3.007	3.001	0.006	75	8750	10.0	9.13	M
26 Methyl acetate	43	3.031	3.031	0.000	97	21205	20.0	20.8	M
27 Methylene Chloride	84	3.111	3.105	0.006	94	18831	10.0	10.7	
23 Iodomethane	142	2.775	3.153	-0.378	99	10561	10.0	7.79	
35 2-Methyl-2-propanol	59	3.269	3.263	0.006	95	12445	100.0	129.5	
30 Acrylonitrile	53	3.342	3.342	0.000	99	61893	100.0	118.9	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	18453	10.0	10.9	
29 Methyl tert-butyl ether	73	3.391	3.391	0.000	98	43605	10.0	11.1	
31 Hexane	57	3.653	3.641	0.012	94	25358	10.0	11.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	96	33570	10.0	10.6	M
33 Vinyl acetate	86	3.836	3.842	-0.006	97	6923	20.0	22.0	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	31634	10.0	10.3	
36 Isopropyl ether	87	3.867	3.867	0.000	92	18147	10.0	11.7	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	55757	10.0	11.2	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	87	21569	10.0	11.1	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	25347	10.0	10.1	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	14915	20.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	99	26561	100.0	128.3	
104 Ethyl acetate	61	4.415	4.415	0.000	99	5113	20.0	21.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	74057	100.0	120.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	96	9461	10.0	11.7	
44 Tetrahydrofuran	71	4.604	4.598	0.006	93	3494	20.0	24.3	
45 Chloroform	83	4.629	4.635	-0.006	95	34663	10.0	10.4	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	99	28987	10.0	10.7	
47 Cyclohexane	56	4.848	4.848	0.000	92	35003	10.0	10.8	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	83	23843	10.0	10.1	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	27371	10.0	10.8	
108 Isobutyl alcohol	43	5.116	5.117	0.000	91	16344	250.0	318.3	
50 Benzene	78	5.153	5.153	0.000	96	82804	10.0	11.1	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	27388	10.0	11.6	
116 n-Butanol	56	5.263	5.257	0.006	45	20725	250.0	286.2	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	95	51294	10.0	11.5	
53 n-Heptane	43	5.446	5.446	0.000	92	25241	10.0	10.9	
54 Trichloroethene	95	5.793	5.793	0.000	95	21376	10.0	11.2	
117 Ethyl acrylate	55	5.921	5.927	-0.006	99	22470	10.0	12.5	
114 Methylcyclohexane	83	5.982	5.988	-0.006	91	35629	10.0	11.4	
55 1,2-Dichloropropane	63	6.007	6.006	0.000	92	20545	10.0	11.3	
56 Dibromomethane	93	6.122	6.122	0.000	95	11516	10.0	11.9	
57 Methyl methacrylate	69	6.153	6.153	0.000	91	25644	20.0	24.8	
115 1,4-Dioxane	58	6.153	6.159	-0.006	34	3320	200.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	24223	10.0	11.0	
106 2-Nitropropane	43	6.525	6.519	0.006	98	6934	20.0	21.7	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	94	11751	10.0	11.6	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	30524	10.0	11.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	37062	20.0	26.7	
62 Toluene	92	7.098	7.098	0.000	98	59158	10.0	11.7	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	27921	10.0	11.2	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	90	24877	10.0	12.6	
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	92	15716	10.0	13.0	
66 Tetrachloroethene	166	7.677	7.677	0.000	94	23418	10.0	11.2	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	93	32211	10.0	12.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	24213	20.0	26.7	
69 Chlorodibromomethane	129	7.939	7.939	0.000	92	18543	10.0	11.5	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	30650	10.0	12.9	
70 Ethylene Dibromide	107	8.055	8.049	0.006	99	18430	10.0	12.4	
71 Chlorobenzene	112	8.610	8.610	0.000	93	68339	10.0	12.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	93	22255	10.0	12.8	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	45812	10.0	12.5	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	114457	10.0	12.2	a
75 o-Xylene	106	9.323	9.317	0.006	97	44010	10.0	12.7	
76 Styrene	104	9.341	9.341	0.000	96	74982	10.0	13.0	
77 Bromoform	173	9.530	9.530	0.000	95	10424	10.0	11.2	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	111982	10.0	12.4	
79 Bromobenzene	156	10.079	10.085	-0.006	94	28261	10.0	12.9	
80 1,1,2,2-Tetrachloroethane	83	10.097	10.097	0.000	95	23528	10.0	14.0	
81 1,2,3-Trichloropropane	110	10.140	10.146	-0.006	87	7718	10.0	13.7	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	85	5031	10.0	10.8	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	130348	10.0	12.5	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	78189	10.0	12.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.445	10.451	-0.006	99	93528	10.0	13.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	94	92826	10.0	12.9	
87 tert-Butylbenzene	119	10.829	10.829	0.000	93	79033	10.0	12.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	98	93347	10.0	12.6	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	111633	10.0	12.6	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.006	98	53101	10.0	13.6	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	93	95136	10.0	12.6	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	95800	10.0	13.3	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	54846	10.0	13.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	6243	10.0	9.54	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	97	51956	10.0	13.7	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	81897	10.0	12.3	
95 1,2-Dibromo-3-Chloropropane	75	12.682	12.682	0.000	83	2890	10.0	12.0	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	30937	10.0	13.3	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	97	25150	10.0	13.0	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	11732	10.0	12.4	
98 Naphthalene	128	13.974	13.974	0.000	97	56521	10.0	13.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	20977	10.0	13.6	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		20.0	22.1	
S 102 1,3-Dichloropropene, Total	1				0		20.0	22.8	
S 100 Xylenes, Total	1				0		20.0	25.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

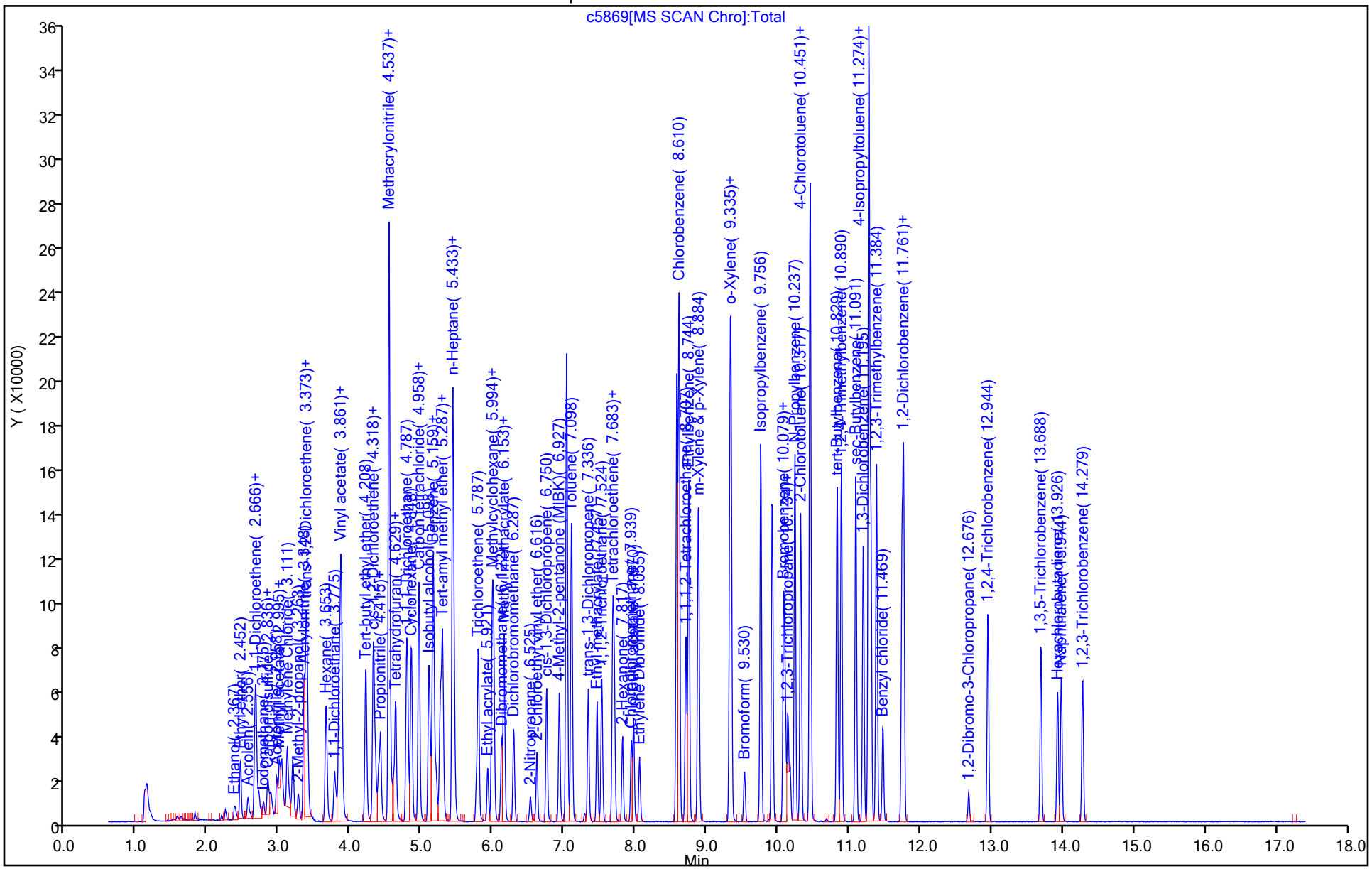
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	10.00	Units: uL

Report Date: 13-Oct-2020 18:26:40 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D

Injection Date:	13-Oct-2020 09:53:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std5			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

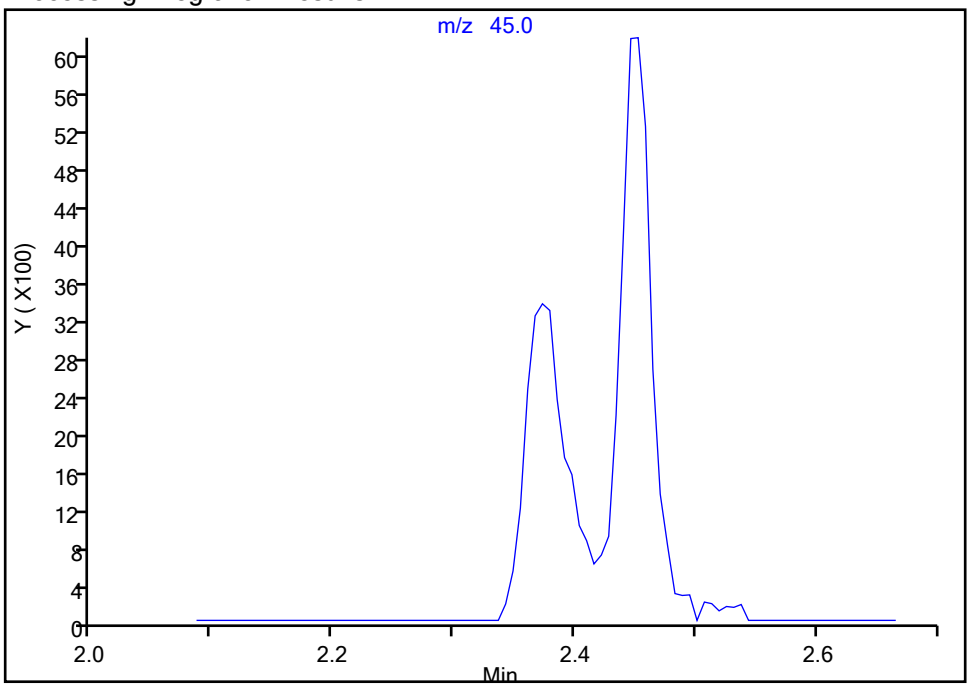
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

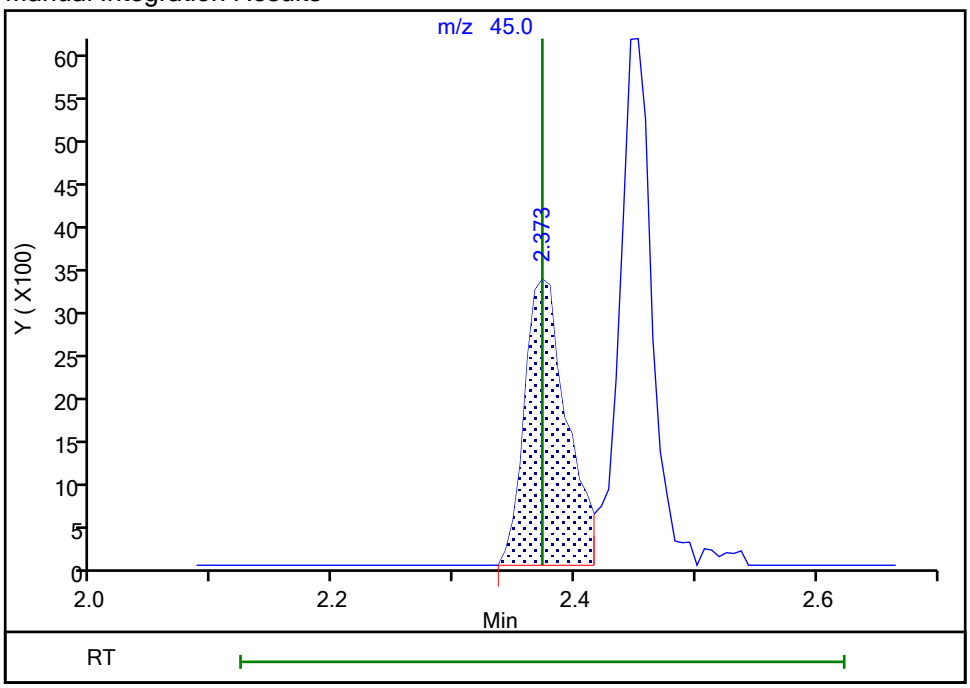
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 8139
Amount: 649.2761
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:43:58
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

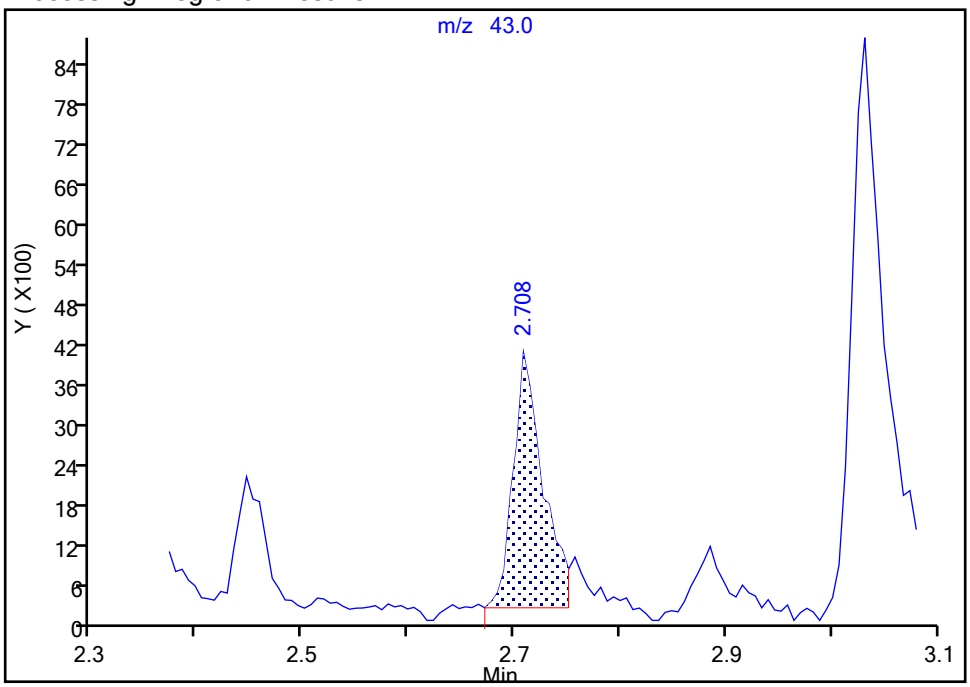
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

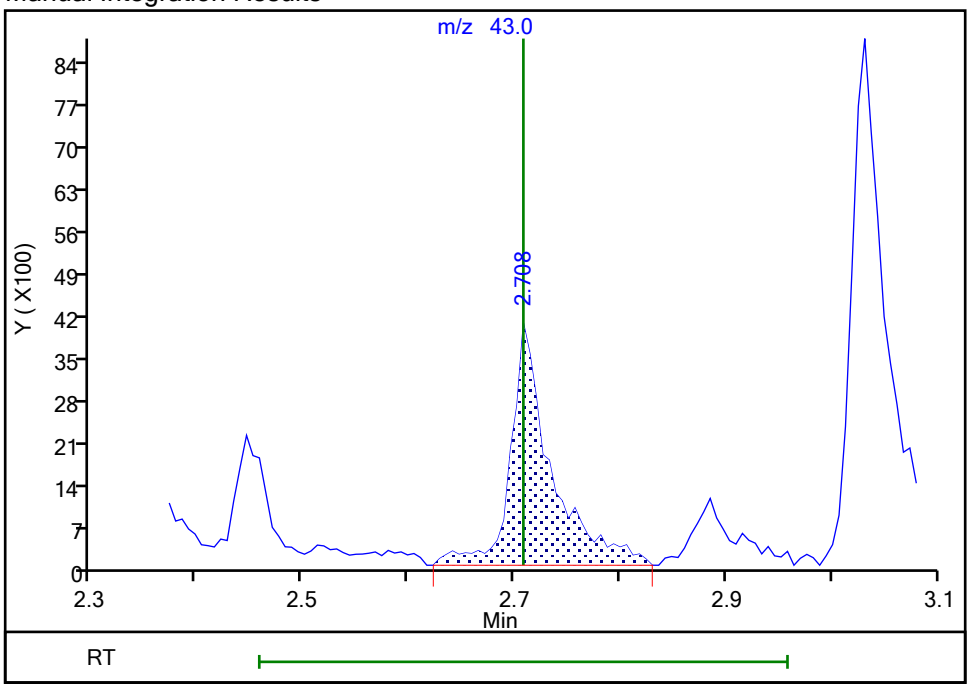
Processing Integration Results

RT: 2.71
Area: 7509
Amount: 19.815111
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 10707
Amount: 25.932035
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:43:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

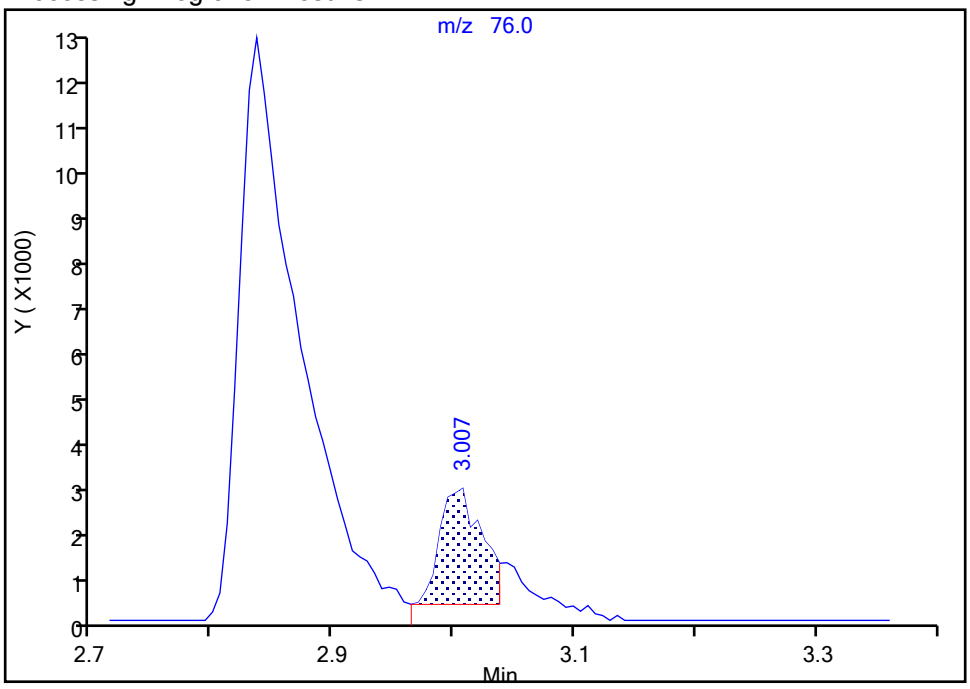
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

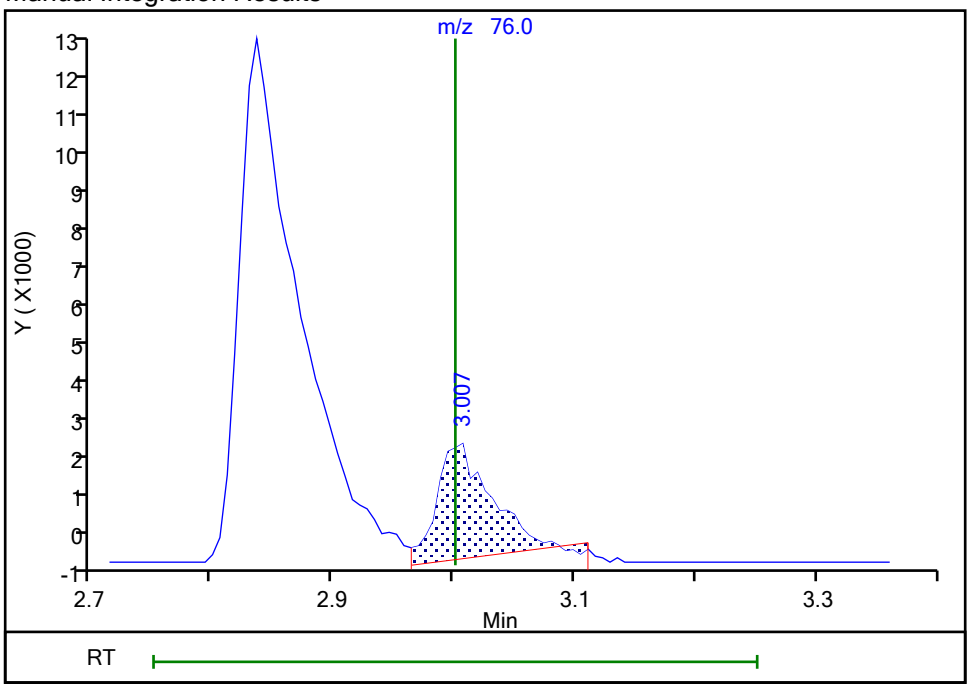
Processing Integration Results

RT: 3.01
Area: 6325
Amount: 6.613170
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 8750
Amount: 9.132855
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:43:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

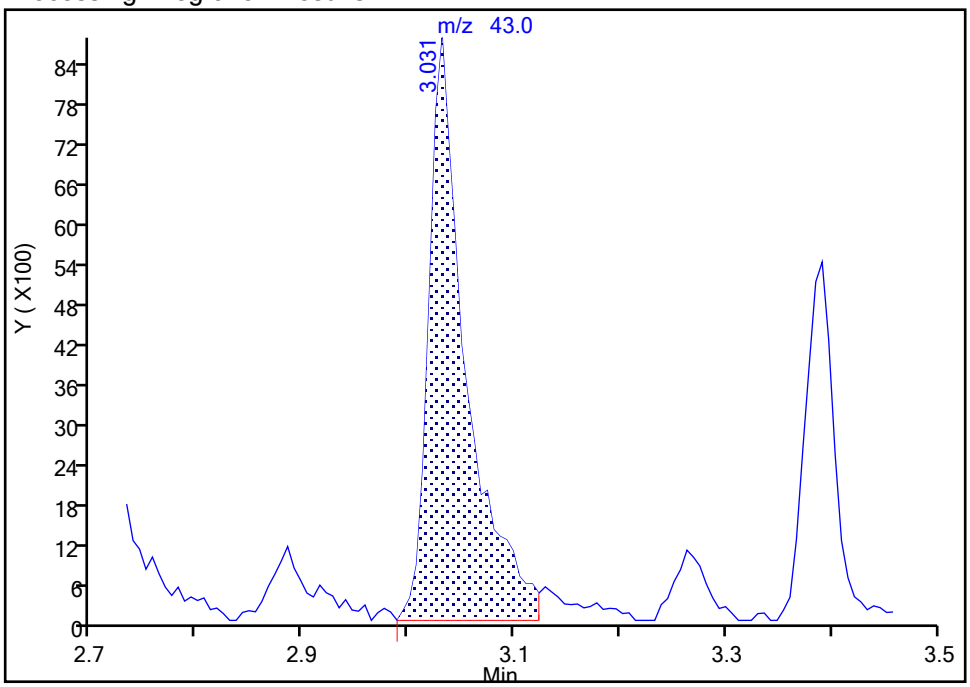
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

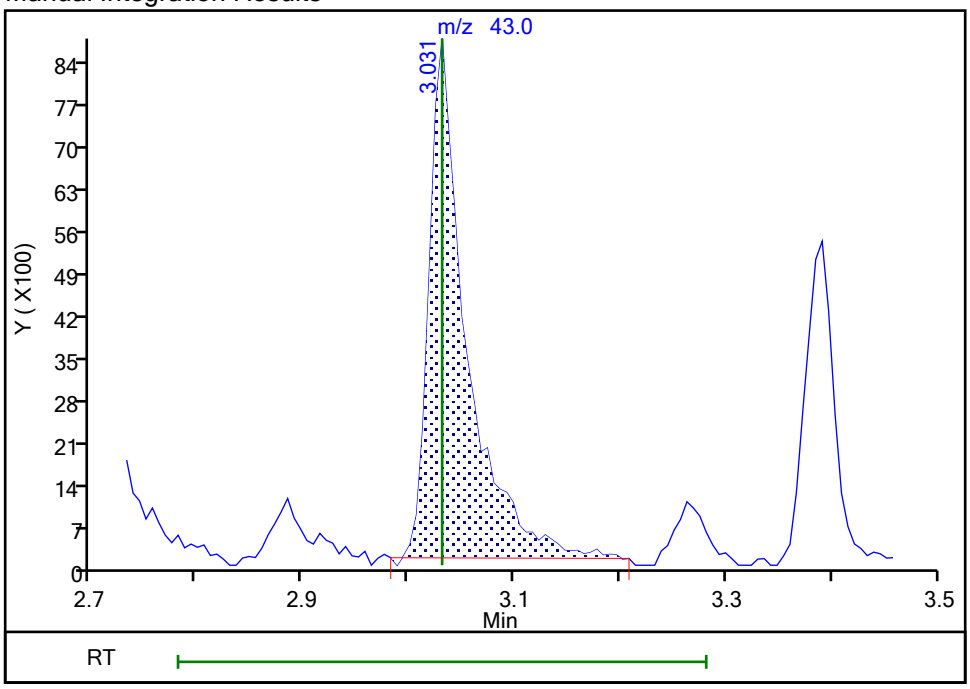
Processing Integration Results

RT: 3.03
Area: 21569
Amount: 21.264230
Amount Units: ug/l



Manual Integration Results

RT: 3.03
Area: 21205
Amount: 20.829685
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:42:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

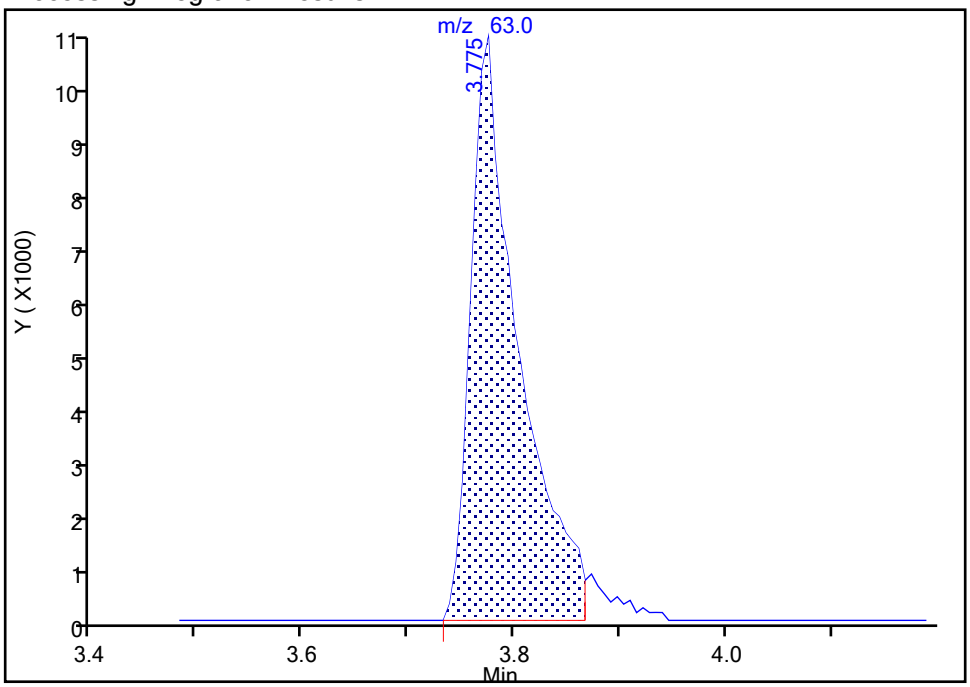
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

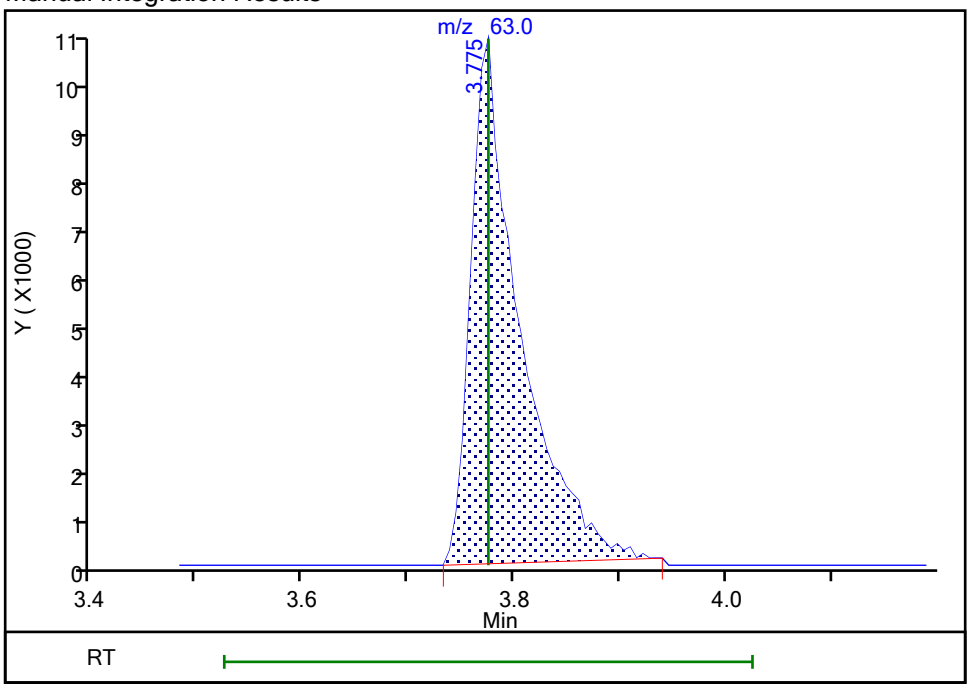
Processing Integration Results

RT: 3.78
Area: 32964
Amount: 10.418012
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 33570
Amount: 10.581633
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:42:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

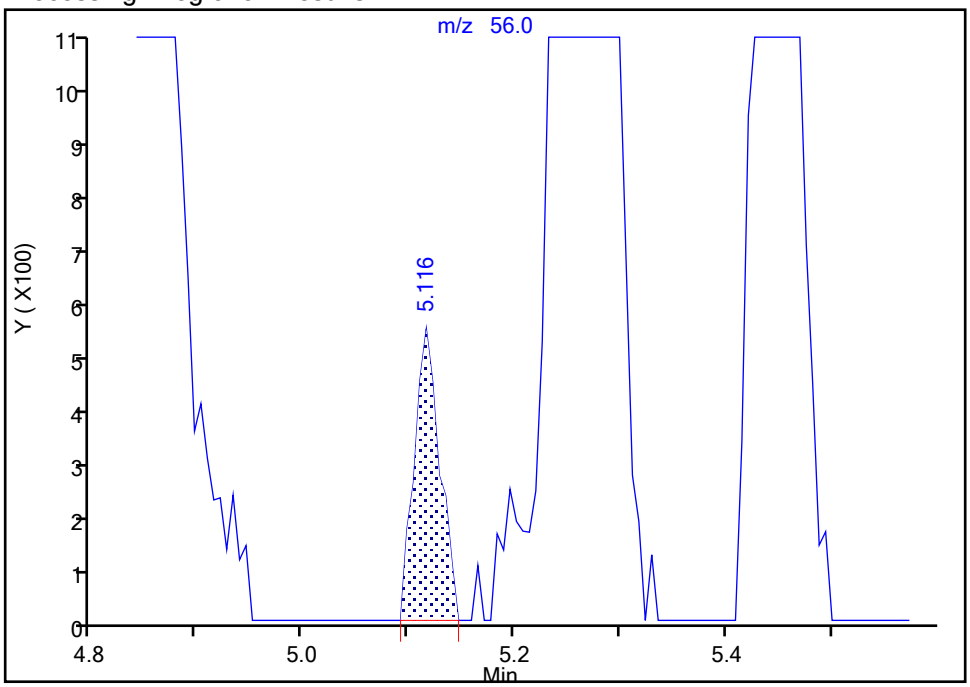
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

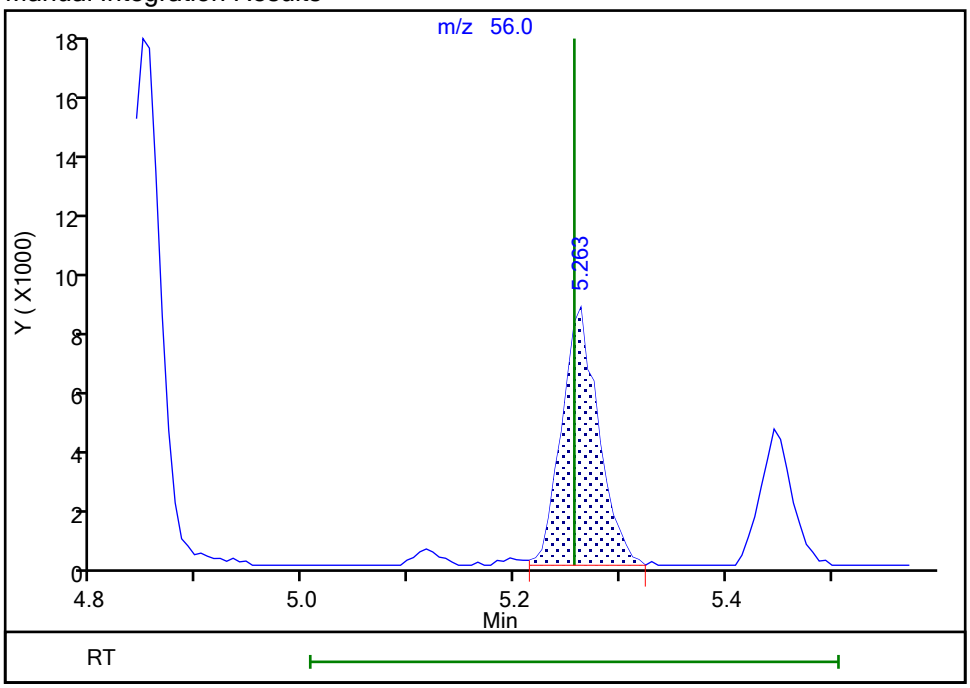
Processing Integration Results

RT: 5.12
Area: 901
Amount: 45.391531
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 20725
Amount: 286.2382
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:42:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

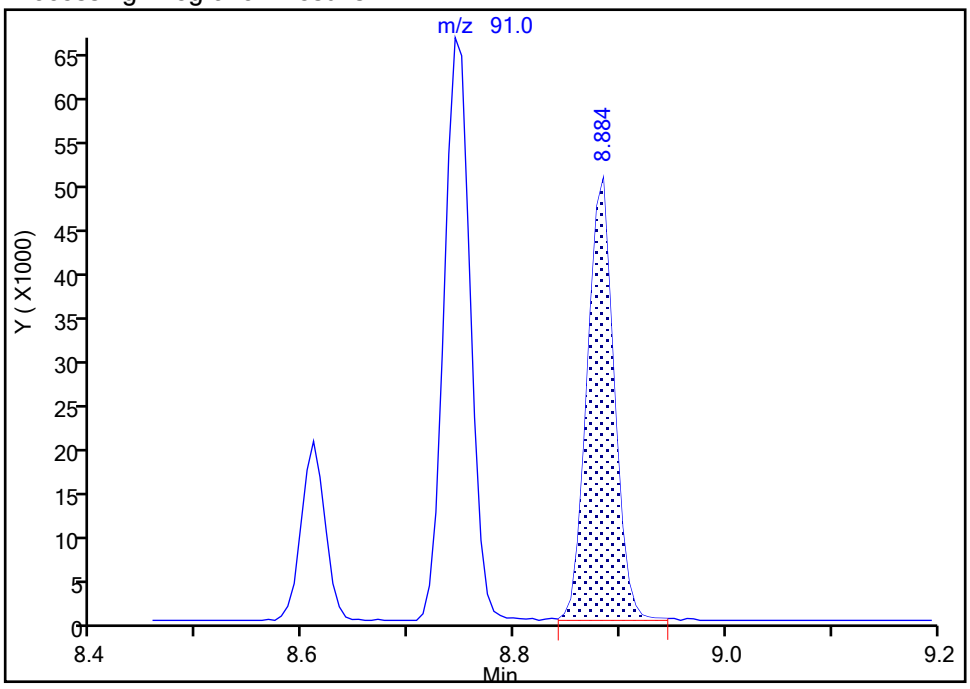
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

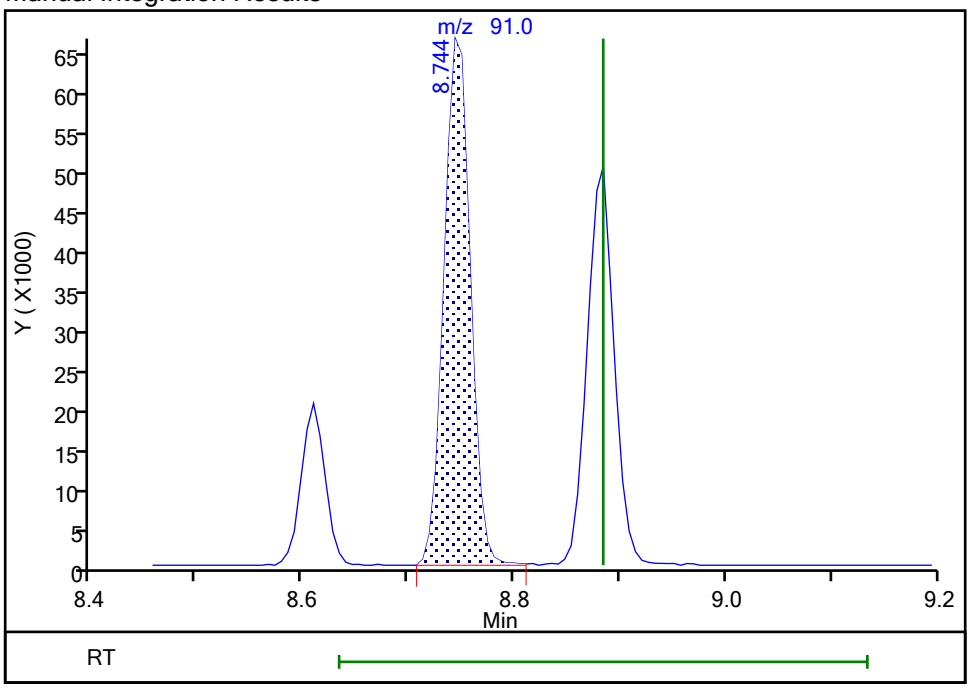
Processing Integration Results

RT: 8.88
Area: 88745
Amount: 11.425195
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 114457
Amount: 12.205788
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:41:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 13-Oct-2020 10:17:30 ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:51 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:49:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	159389	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	43	5631	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	122676	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	74	60620	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	12012	800.0	866.6	a
18 Ethyl ether	59	2.446	2.446	0.000	94	23923	20.0	17.8	
19 Acrolein	56	2.556	2.556	0.000	99	17231	95.2	84.1	
20 1,1-Dichloroethene	96	2.647	2.647	0.000	95	29164	20.0	17.8	
21 112TCTFE	101	2.660	2.660	0.000	93	28999	20.0	17.8	
22 Acetone	43	2.708	2.708	0.000	99	14137	40.0	31.6	
24 Carbon disulfide	76	2.830	2.830	0.000	100	84184	20.0	17.3	
105 Isopropyl alcohol	45	2.885	2.885	0.000	97	15345	200.0	204.3	M
118 Acetonitrile	40	2.958	2.958	0.000	93	26386	200.0	171.4	a
25 3-Chloro-1-propene	76	2.995	2.995	0.000	84	19350	20.0	18.3	
26 Methyl acetate	43	3.031	3.031	0.000	98	36226	40.0	32.2	
27 Methylene Chloride	84	3.105	3.105	0.000	95	33290	20.0	17.2	
23 Iodomethane	142	2.769	2.769	0.000	99	25632	20.0	17.1	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	98	21035	200.0	197.9	
30 Acrylonitrile	53	3.342	3.342	0.000	99	104876	200.0	182.2	
28 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	99	33939	20.0	18.1	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	75730	20.0	17.5	
31 Hexane	57	3.647	3.647	0.000	93	49770	20.0	19.6	
32 1,1-Dichloroethane	63	3.769	3.769	0.000	97	64654	20.0	18.4	
33 Vinyl acetate	86	3.836	3.836	0.000	97	12154	40.0	35.0	
34 2-Chloro-1,3-butadiene	53	3.848	3.848	0.000	93	61831	20.0	18.2	
36 Isopropyl ether	87	3.867	3.867	0.000	91	31277	20.0	18.3	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	99532	20.0	18.1	
39 cis-1,2-Dichloroethene	96	4.318	4.318	0.000	84	40484	20.0	18.9	
38 2,2-Dichloropropane	77	4.312	4.312	0.000	89	48085	20.0	17.4	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	24606	40.0	36.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	99	43014	200.0	187.9	
104 Ethyl acetate	61	4.415	4.415	0.000	99	9336	40.0	35.6	
43 Methacrylonitrile	67	4.537	4.537	0.000	94	123577	200.0	182.0	
42 Chlorobromomethane	128	4.543	4.543	0.000	96	17152	20.0	19.2	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	5606	40.0	35.3	
45 Chloroform	83	4.629	4.629	0.000	97	61875	20.0	16.9	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	98	54474	20.0	18.1	
47 Cyclohexane	56	4.848	4.848	0.000	92	66512	20.0	18.5	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	82	45100	20.0	17.3	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	52748	20.0	18.7	
108 Isobutyl alcohol	43	5.116	5.116	0.000	94	27699	500.0	487.9	
50 Benzene	78	5.153	5.153	0.000	96	155947	20.0	18.9	
51 1,2-Dichloroethane	62	5.165	5.165	0.000	97	46150	20.0	17.7	
116 n-Butanol	56	5.257	5.257	0.000	48	39188	500.0	489.5	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	88451	20.0	17.9	
53 n-Heptane	43	5.446	5.446	0.000	93	50002	20.0	19.5	
54 Trichloroethene	95	5.787	5.787	0.000	97	39505	20.0	18.8	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	36085	20.0	18.1	
114 Methylcyclohexane	83	5.988	5.988	0.000	94	67334	20.0	19.5	
55 1,2-Dichloropropane	63	6.007	6.007	0.000	96	37550	20.0	18.7	
56 Dibromomethane	93	6.116	6.116	0.000	93	19559	20.0	18.3	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	41993	40.0	36.7	
115 1,4-Dioxane	58	6.153	6.153	0.000	32	5214	400.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	41469	20.0	17.1	
106 2-Nitropropane	43	6.519	6.519	0.000	98	12034	40.0	34.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	19499	20.0	17.5	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	53096	20.0	18.3	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	57389	40.0	37.3	
62 Toluene	92	7.098	7.098	0.000	97	102944	20.0	18.4	
63 trans-1,3-Dichloropropene	75	7.336	7.336	0.000	96	46768	20.0	16.8	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	38591	20.0	17.6	
65 1,1,2-Trichloroethane	83	7.525	7.525	0.000	93	25070	20.0	18.7	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	45271	20.0	19.6	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	51539	20.0	18.0	
68 2-Hexanone	43	7.811	7.811	0.000	98	38798	40.0	38.6	
69 Chlorodibromomethane	129	7.939	7.939	0.000	92	30929	20.0	17.3	
109 n-Butyl acetate	43	7.970	7.970	0.000	99	49151	20.0	18.7	
70 Ethylene Dibromide	107	8.055	8.055	0.000	99	30367	20.0	18.4	
71 Chlorobenzene	112	8.610	8.610	0.000	93	111261	20.0	18.1	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	94	34891	20.0	17.5	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	99	77730	20.0	18.5	
73 Ethylbenzene	91	8.744	8.744	0.000	98	201060	20.0	18.7	a
75 o-Xylene	106	9.323	9.323	0.000	97	73542	20.0	18.4	
76 Styrene	104	9.341	9.341	0.000	95	122940	20.0	18.6	
77 Bromoform	173	9.530	9.530	0.000	94	16686	20.0	15.6	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	195179	20.0	18.8	
79 Bromobenzene	156	10.079	10.079	0.000	93	43949	20.0	17.5	
80 1,1,2,2-Tetrachloroethane	83	10.097	10.097	0.000	95	37137	20.0	19.2	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	87	11895	20.0	18.4	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	82	9173	20.0	17.1	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	229040	20.0	19.2	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	129314	20.0	18.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.445	10.445	0.000	99	150423	20.0	18.3	
86 1,3,5-Trimethylbenzene	105	10.451	10.451	0.000	94	155060	20.0	18.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	135472	20.0	18.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	97	156367	20.0	18.3	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	197468	20.0	19.3	
90 1,3-Dichlorobenzene	146	11.195	11.195	0.000	98	82846	20.0	18.5	
91 4-Isopropyltoluene	119	11.274	11.274	0.000	95	164844	20.0	18.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.384	0.000	98	152476	20.0	17.8	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	84486	20.0	17.6	
113 Benzyl chloride	126	11.475	11.475	0.000	99	10901	20.0	14.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	79423	20.0	17.5	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	140416	20.0	17.7	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	79	4952	20.0	17.2	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	49042	20.0	17.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	39742	20.0	17.2	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	19900	20.0	17.7	
98 Naphthalene	128	13.974	13.974	0.000	97	93917	20.0	18.6	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	33271	20.0	18.0	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	37.1	
S 102 1,3-Dichloropropene, Total	1				0		40.0	35.0	
S 100 Xylenes, Total	1				0		40.0	37.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

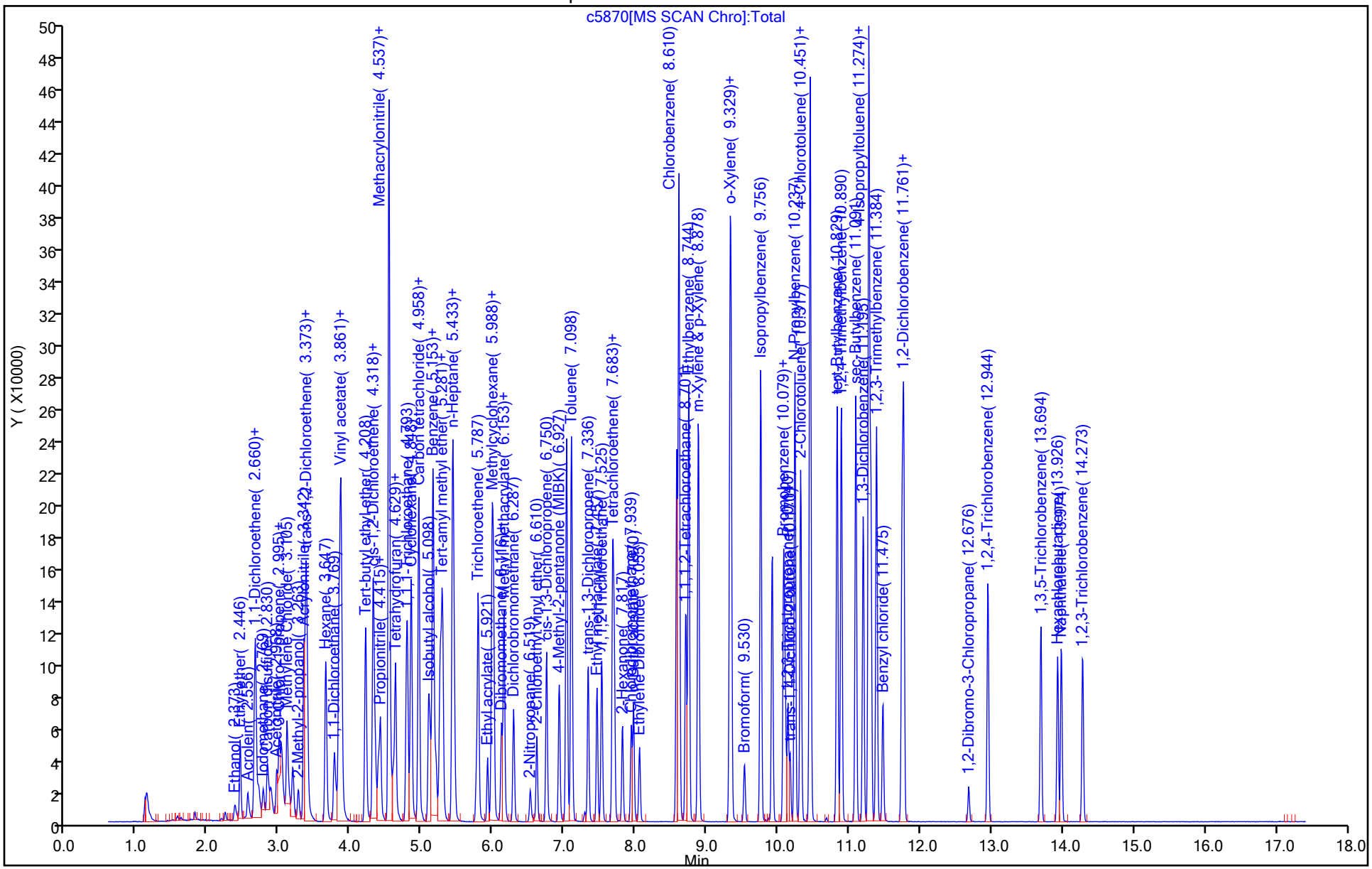
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	20.00	Units: uL

Report Date: 13-Oct-2020 18:26:54 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D

Injection Date:	13-Oct-2020 10:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std6			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

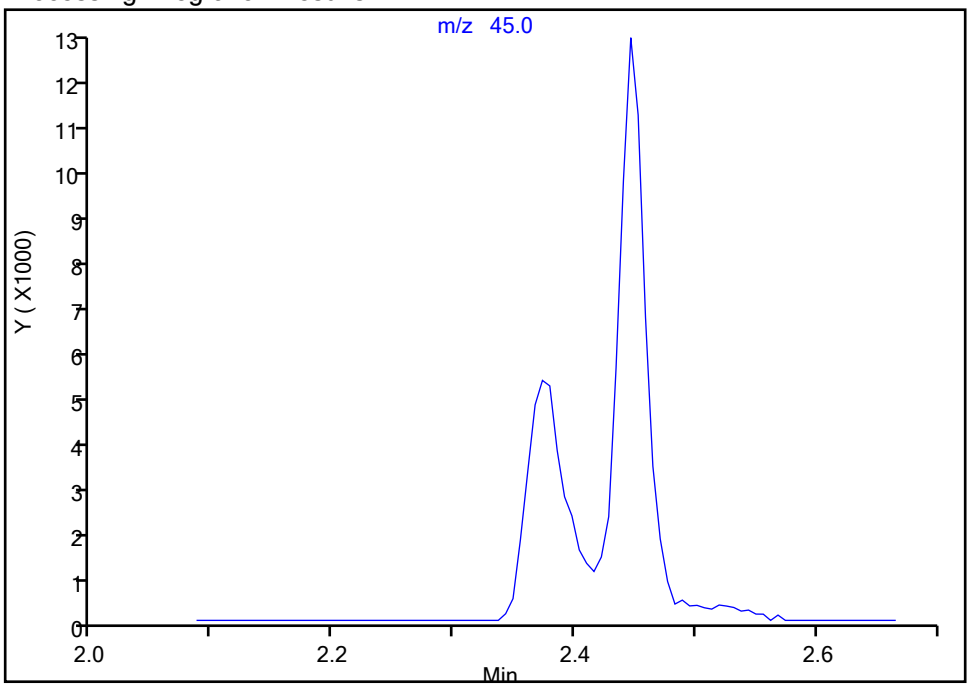
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

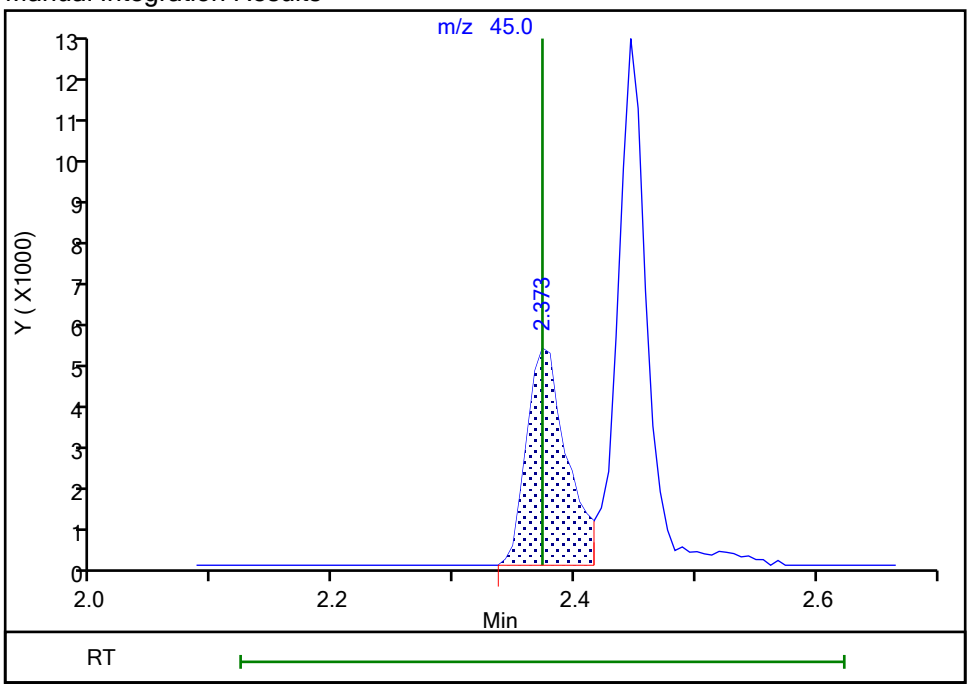
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 12012
Amount: 866.6106
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:47:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

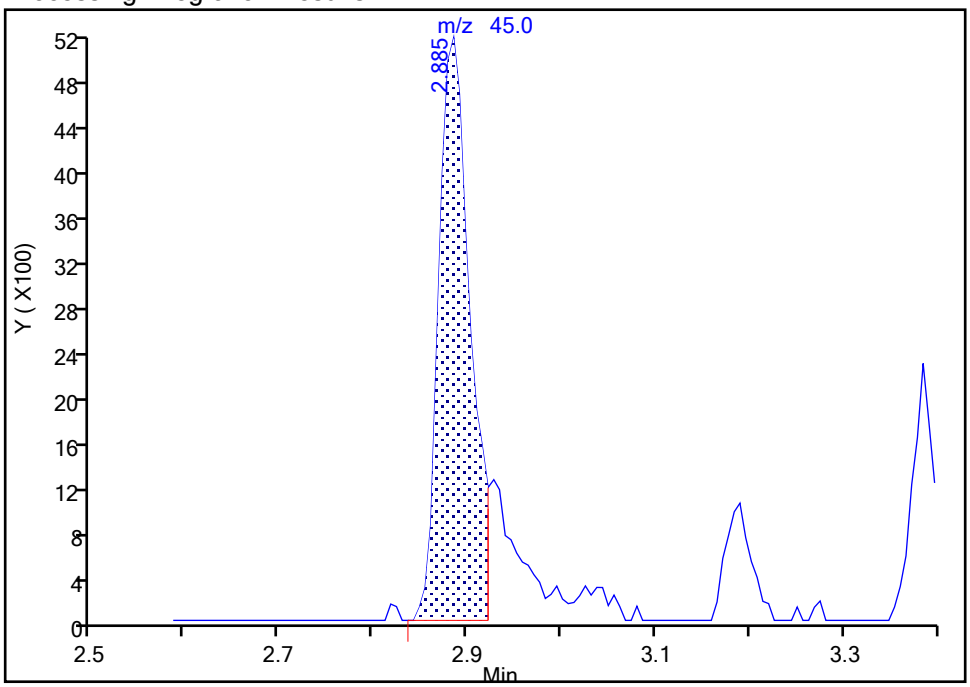
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

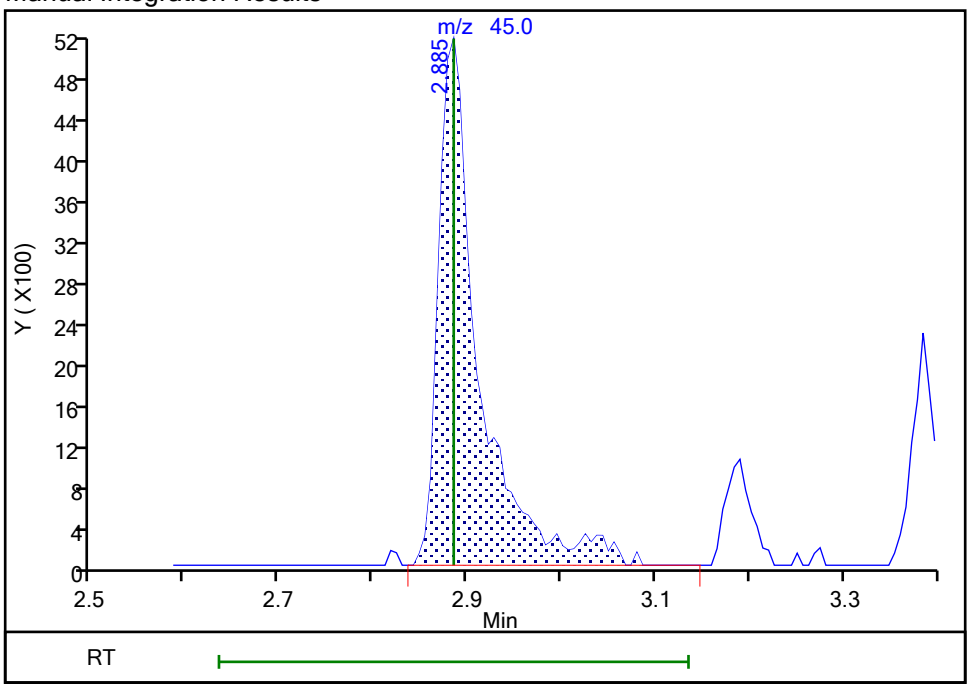
Processing Integration Results

RT: 2.89
Area: 11951
Amount: 165.7984
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 15345
Amount: 204.3129
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

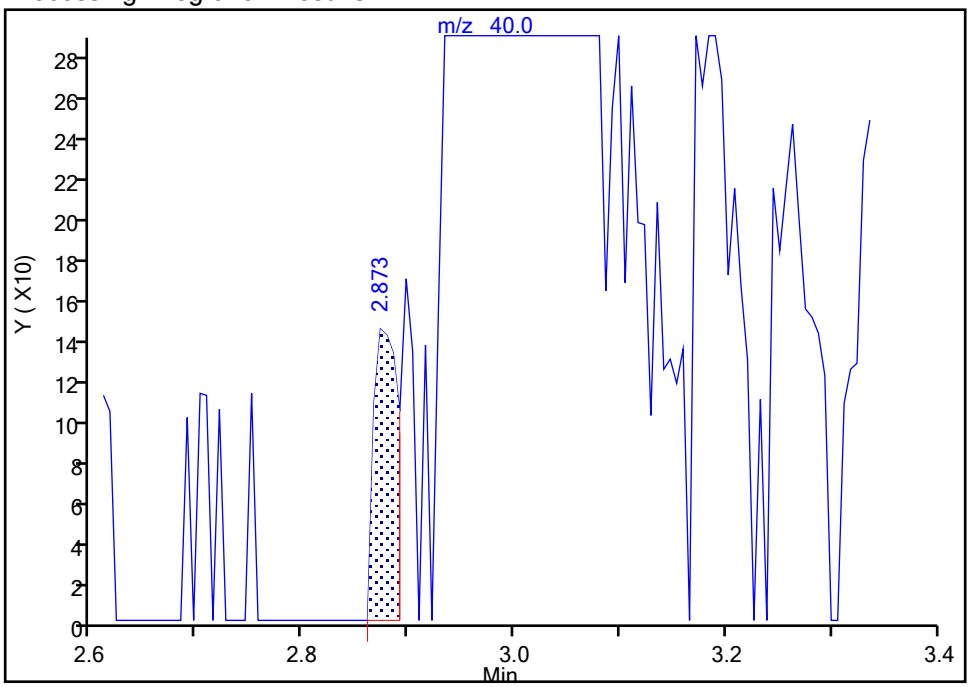
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

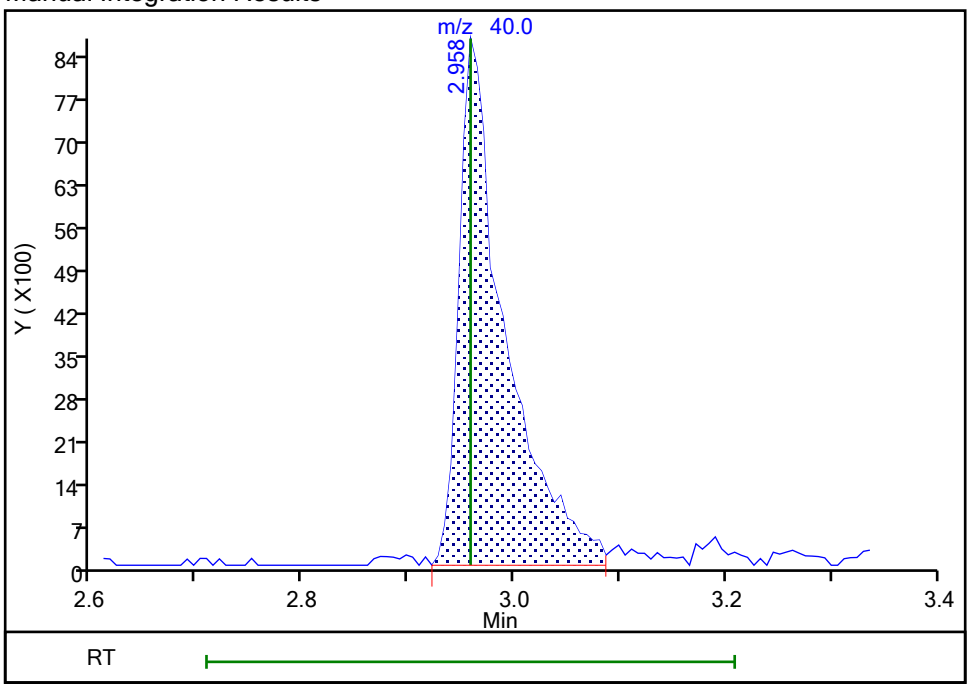
Processing Integration Results

RT: 2.87
Area: 231
Amount: 1.915025
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 26386
Amount: 171.3846
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:14
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

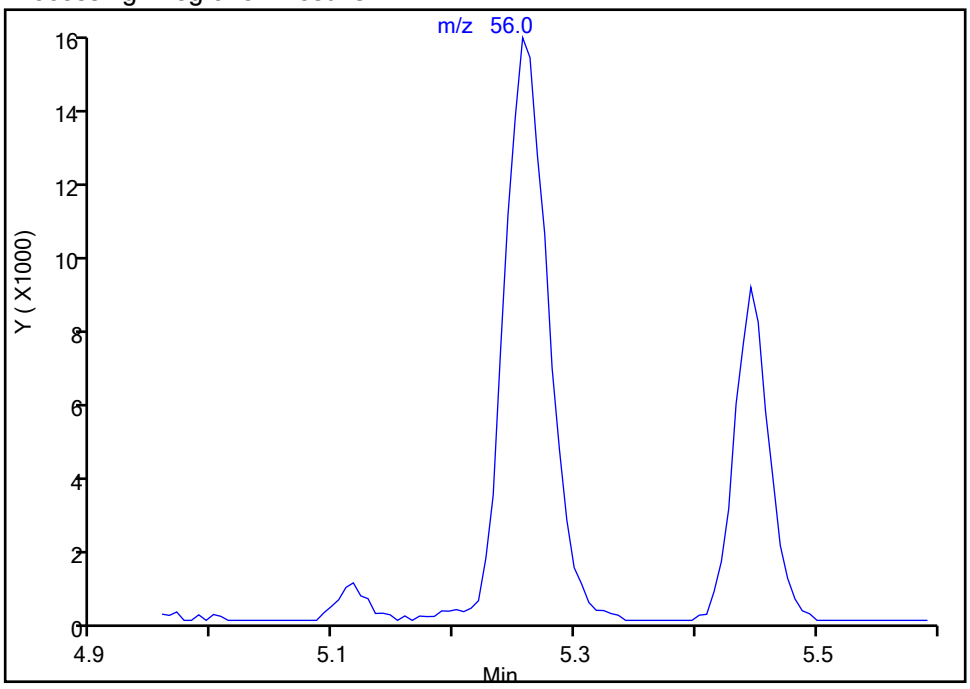
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

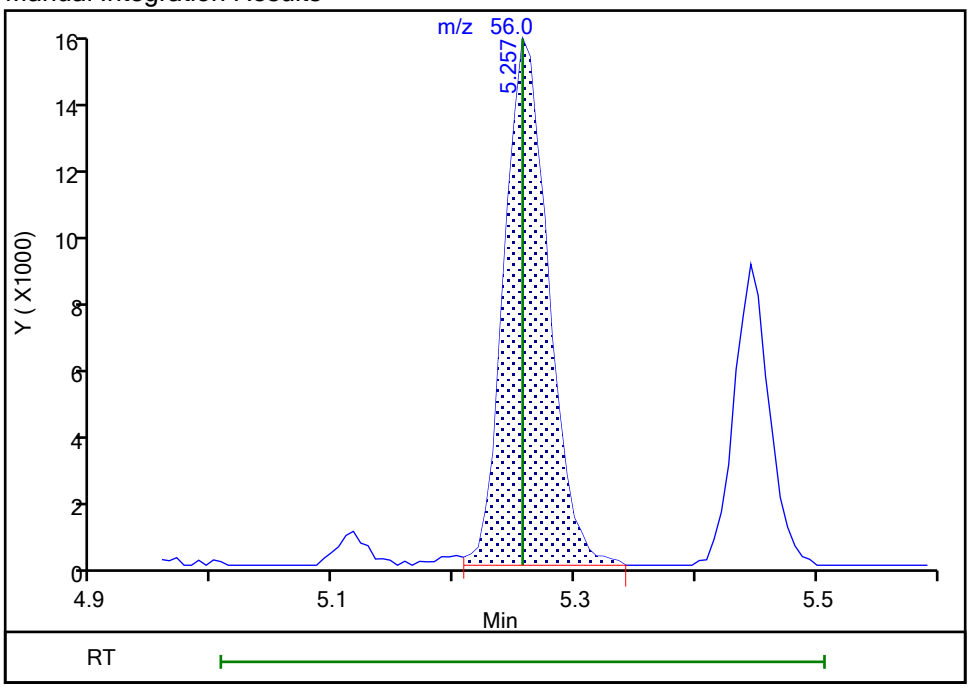
Not Detected
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.26
Area: 39188
Amount: 489.4817
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:35
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

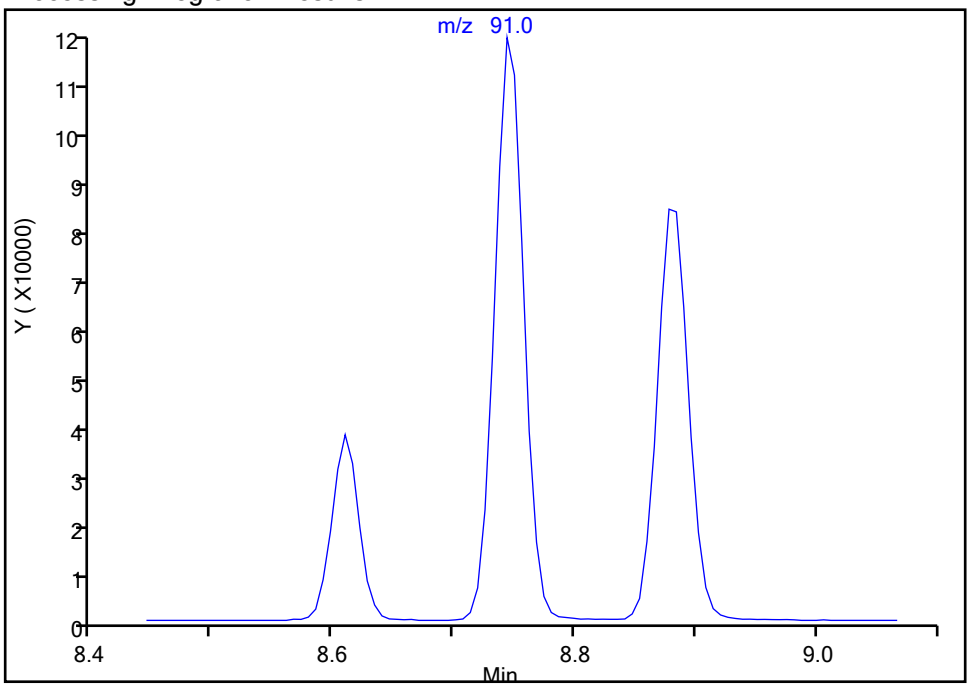
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

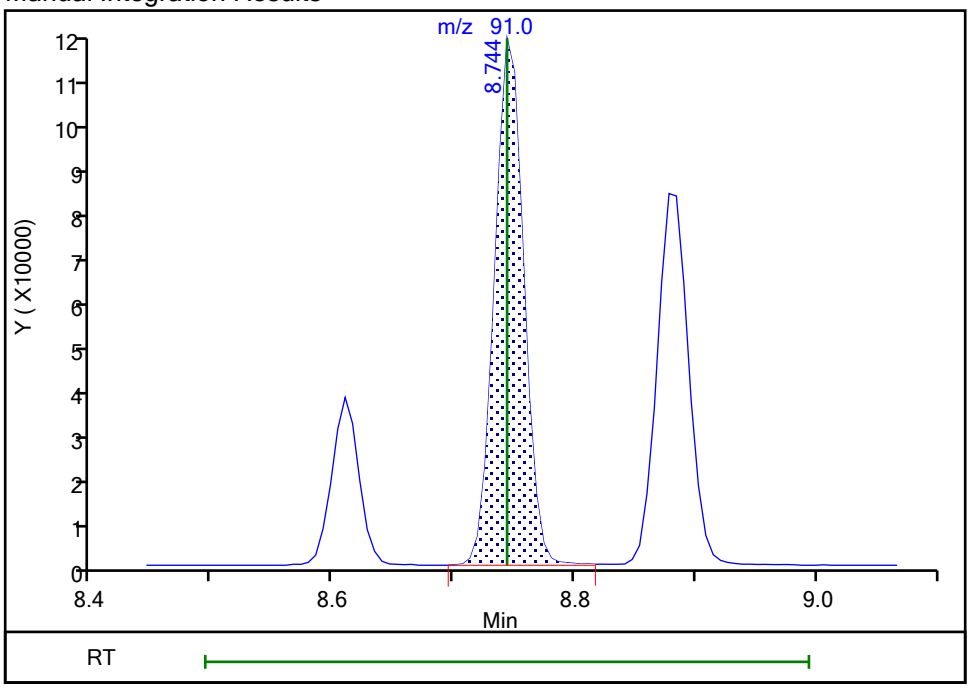
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 201060
Amount: 18.673750
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:57
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 13-Oct-2020 10:42:30 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:03 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:58:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.433	0.000	99	155110	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	25	5965	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	118172	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	55	55872	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	26155	2000.0	1939.0	
18 Ethyl ether	59	2.452	2.452	0.000	94	63989	50.0	48.8	
19 Acrolein	56	2.556	2.556	0.000	98	44935	238.0	225.3	
20 1,1-Dichloroethene	96	2.653	2.653	0.000	95	78968	50.0	49.5	
21 112TCTFE	101	2.666	2.666	0.000	95	78118	50.0	49.3	
22 Acetone	43	2.708	2.708	0.000	99	35597	100.0	87.2	
23 Iodomethane	142	2.775	2.775	0.000	99	76573	50.0	52.5	
24 Carbon disulfide	76	2.836	2.836	0.000	100	231488	50.0	49.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	97	33439	500.0	457.5	
118 Acetonitrile	40	2.958	2.958	0.000	99	66605	500.0	444.6	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	81	48267	50.0	46.8	
26 Methyl acetate	43	3.031	3.031	0.000	98	98353	100.0	89.8	
27 Methylene Chloride	84	3.111	3.111	0.000	95	87198	50.0	46.2	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	46928	500.0	453.7	
30 Acrylonitrile	53	3.342	3.342	0.000	99	278089	500.0	496.4	
28 trans-1,2-Dichloroethene	96	3.373	3.373	0.000	98	92873	50.0	51.0	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	208359	50.0	49.4	
31 Hexane	57	3.653	3.653	0.000	94	127364	50.0	51.6	
32 1,1-Dichloroethane	63	3.769	3.769	0.000	97	171356	50.0	50.2	
33 Vinyl acetate	86	3.836	3.836	0.000	97	33401	100.0	98.8	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	162736	50.0	49.3	
36 Isopropyl ether	87	3.867	3.867	0.000	92	84398	50.0	50.8	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	262448	50.0	49.2	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	90	132455	50.0	49.2	
39 cis-1,2-Dichloroethene	96	4.324	4.324	0.000	87	105556	50.0	50.7	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	57256	100.0	88.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	100	104790	500.0	470.4	
104 Ethyl acetate	61	4.421	4.421	0.000	100	22941	100.0	90.0	
43 Methacrylonitrile	67	4.537	4.537	0.000	94	320400	500.0	484.9	
42 Chlorobromomethane	128	4.549	4.549	0.000	96	45286	50.0	52.0	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	14966	100.0	96.8	
45 Chloroform	83	4.629	4.629	0.000	97	163959	50.0	45.9	
46 1,1,1-Trichloroethane	97	4.799	4.799	0.000	99	144945	50.0	49.5	
47 Cyclohexane	56	4.848	4.848	0.000	92	176929	50.0	50.7	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	124328	50.0	49.1	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	136208	50.0	49.7	
108 Isobutyl alcohol	43	5.116	5.116	0.000	92	63711	1250.0	1153.1	
50 Benzene	78	5.153	5.153	0.000	97	401953	50.0	50.2	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	121762	50.0	48.0	
116 n-Butanol	56	5.257	5.257	0.000	59	101015	1250.0	1296.5	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	231676	50.0	48.2	
53 n-Heptane	43	5.446	5.446	0.000	94	125772	50.0	50.5	
54 Trichloroethene	95	5.793	5.793	0.000	97	103662	50.0	50.6	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	94097	50.0	48.6	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	172955	50.0	51.4	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	93	96515	50.0	49.3	
56 Dibromomethane	93	6.122	6.122	0.000	96	50926	50.0	49.0	
115 1,4-Dioxane	58	6.159	6.159	0.000	96	10854	1000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	106838	100.0	95.9	
58 Dichlorobromomethane	83	6.287	6.287	0.000	99	116297	50.0	49.2	
106 2-Nitropropane	43	6.525	6.525	0.000	99	34658	100.0	100.9	
59 2-Chloroethyl vinyl ether	63	6.616	6.616	0.000	93	53569	50.0	49.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	149104	50.0	52.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	140519	100.0	93.9	
62 Toluene	92	7.098	7.098	0.000	98	270263	50.0	49.6	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	131564	50.0	47.8	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	101807	50.0	47.8	
65 1,1,2-Trichloroethane	83	7.524	7.524	0.000	93	64494	50.0	49.6	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	116227	50.0	51.8	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	138017	50.0	49.5	
68 2-Hexanone	43	7.817	7.817	0.000	97	92086	100.0	94.2	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	85925	50.0	49.5	
109 n-Butyl acetate	43	7.969	7.969	0.000	98	120393	50.0	47.0	
70 Ethylene Dibromide	107	8.055	8.055	0.000	97	79261	50.0	49.4	
71 Chlorobenzene	112	8.610	8.610	0.000	92	289226	50.0	48.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	95306	50.0	49.7	
73 Ethylbenzene	91	8.744	8.744	0.000	98	520303	50.0	50.2	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	201025	50.0	49.8	a
75 o-Xylene	106	9.323	9.323	0.000	97	192378	50.0	50.1	
76 Styrene	104	9.341	9.341	0.000	95	319407	50.0	50.2	
77 Bromoform	173	9.530	9.530	0.000	95	46626	50.0	45.2	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	506065	50.0	50.6	
79 Bromobenzene	156	10.079	10.079	0.000	93	117293	50.0	48.4	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	88795	50.0	47.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	87	28589	50.0	46.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	86	23391	50.0	45.2	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	590896	50.0	51.3	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	334892	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	392335	50.0	49.4	
86 1,3,5-Trimethylbenzene	105	10.451	10.451	0.000	95	398516	50.0	50.0	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	348509	50.0	50.4	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	400430	50.0	48.7	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	502827	50.0	51.1	
90 1,3-Dichlorobenzene	146	11.194	11.194	0.000	98	212595	50.0	49.2	
91 4-Isopropyltoluene	119	11.274	11.274	0.000	96	420087	50.0	50.5	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	212997	50.0	48.0	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	387286	50.0	48.9	
113 Benzyl chloride	126	11.475	11.475	0.000	99	33030	50.0	45.9	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	199770	50.0	47.9	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	366616	50.0	50.1	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	80	12612	50.0	47.5	
96 1,2,4-Trichlorobenzene	180	12.944	12.944	0.000	94	125538	50.0	49.2	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	101560	50.0	47.7	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	51495	50.0	49.6	
98 Naphthalene	128	13.974	13.974	0.000	97	222523	50.0	47.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	82621	50.0	48.6	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	101.7	
S 102 1,3-Dichloropropene, Total	1				0		100.0	100.5	
S 100 Xylenes, Total	1				0		100.0	99.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

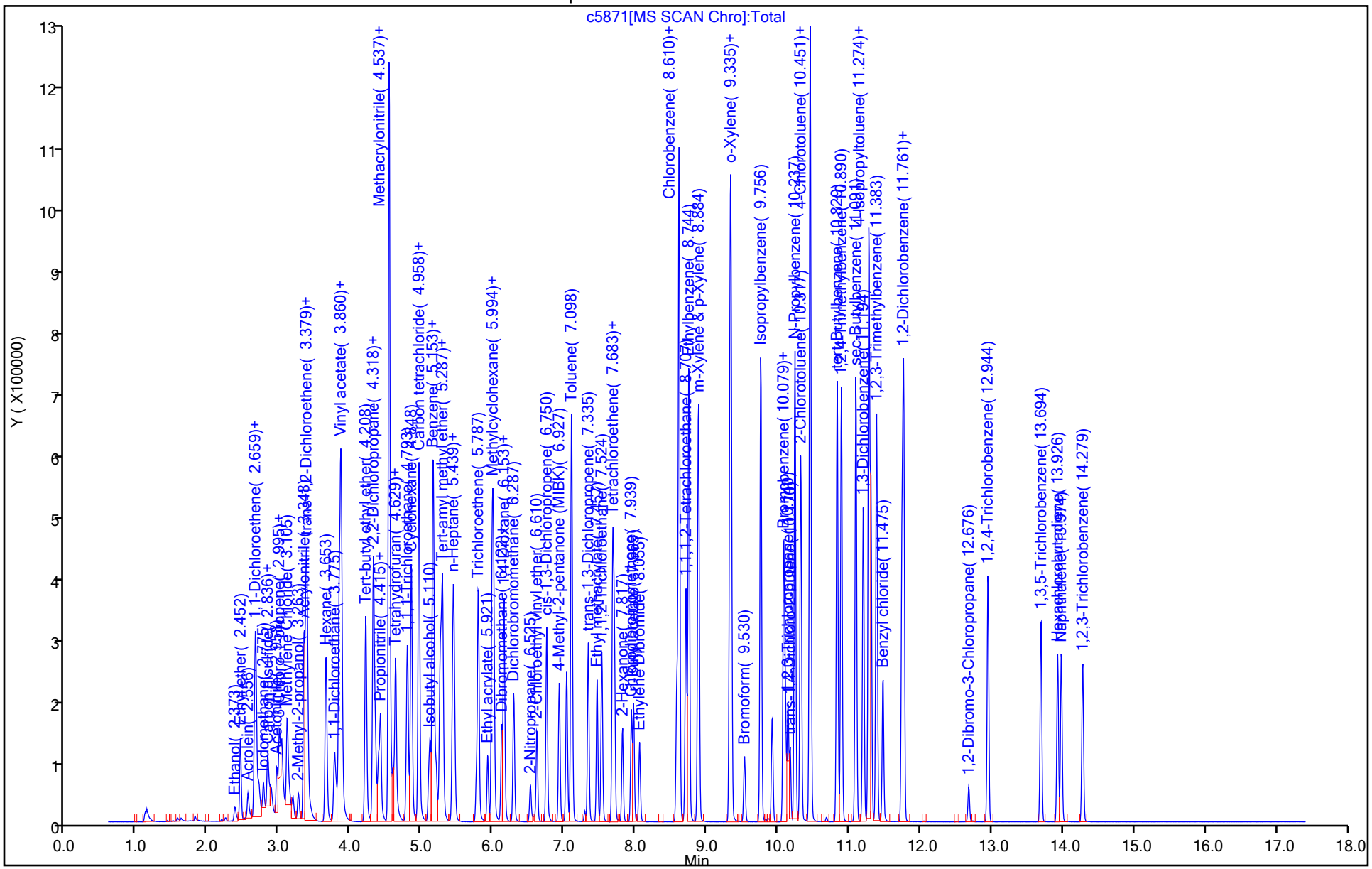
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	50.00	Units: uL

Report Date: 13-Oct-2020 18:27:05 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D

Injection Date:	13-Oct-2020 10:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std7			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

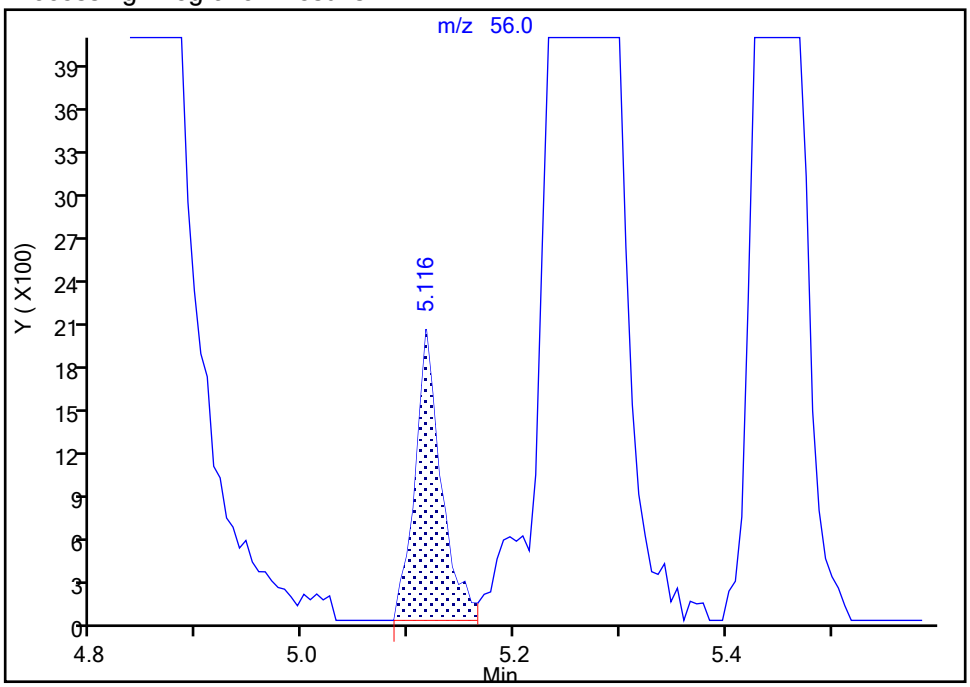
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Injection Date: 13-Oct-2020 10:42:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

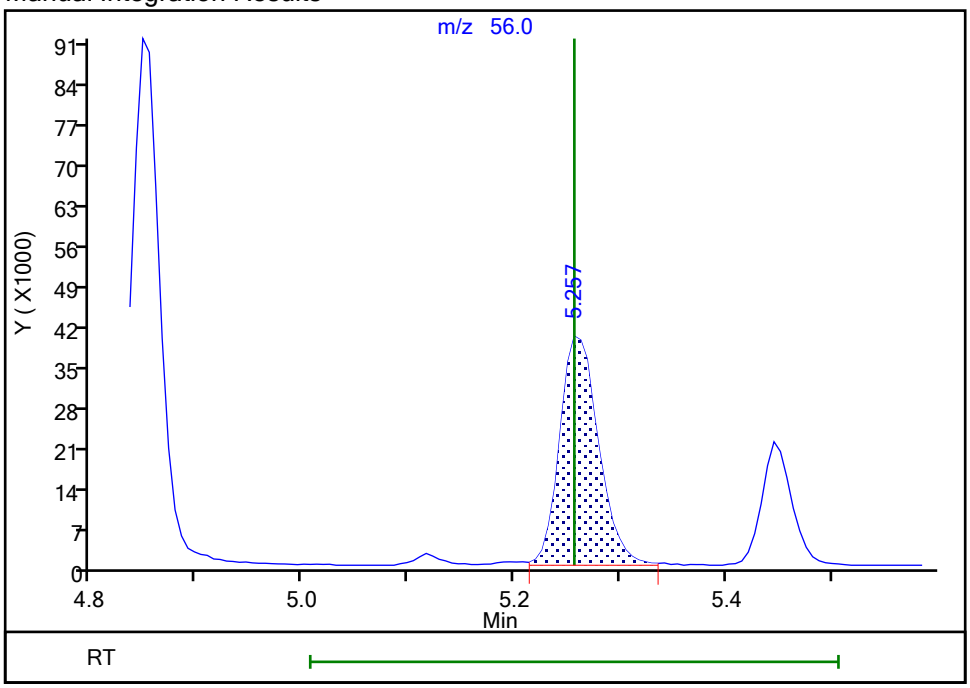
Processing Integration Results

RT: 5.12
Area: 3491
Amount: 97.602964
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 101015
Amount: 1296.5457
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:57:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

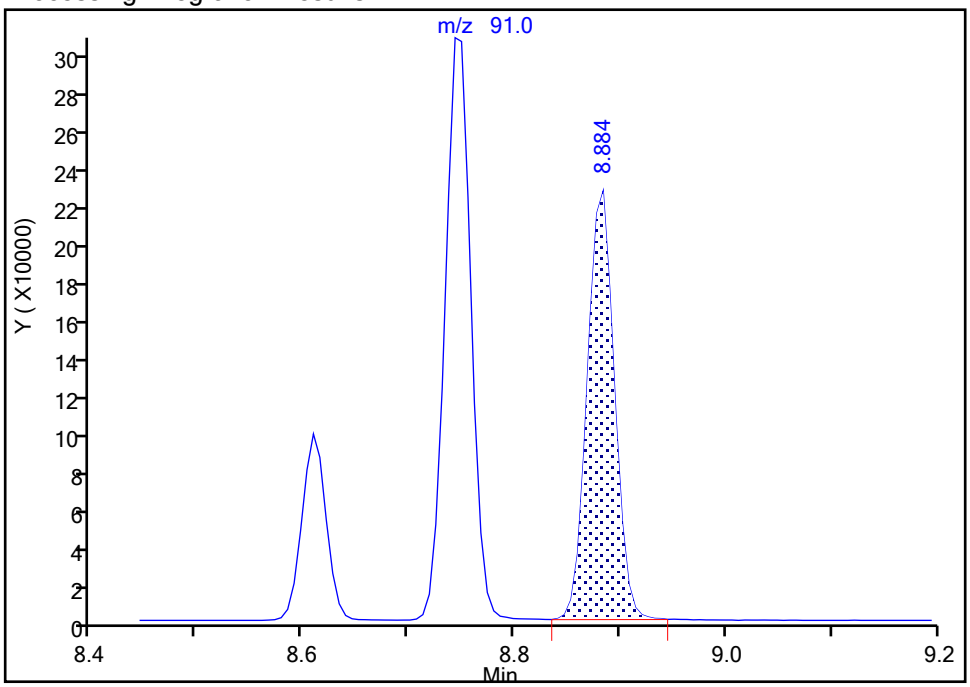
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Injection Date: 13-Oct-2020 10:42:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

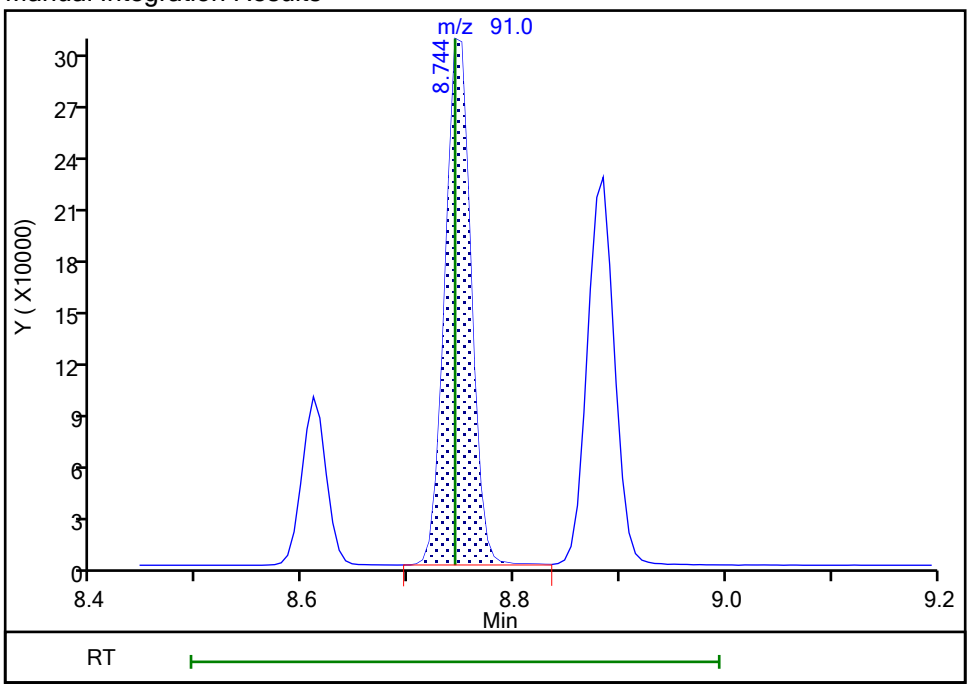
Processing Integration Results

RT: 8.88
Area: 397866
Amount: 43.921814
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 520303
Amount: 50.165739
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:57:36
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

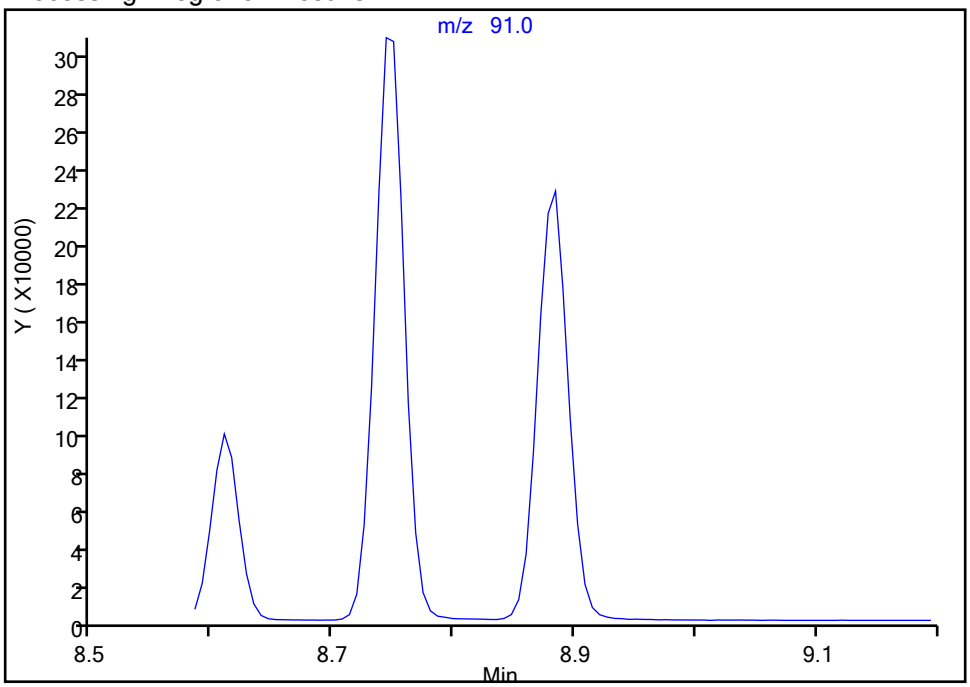
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Injection Date: 13-Oct-2020 10:42:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

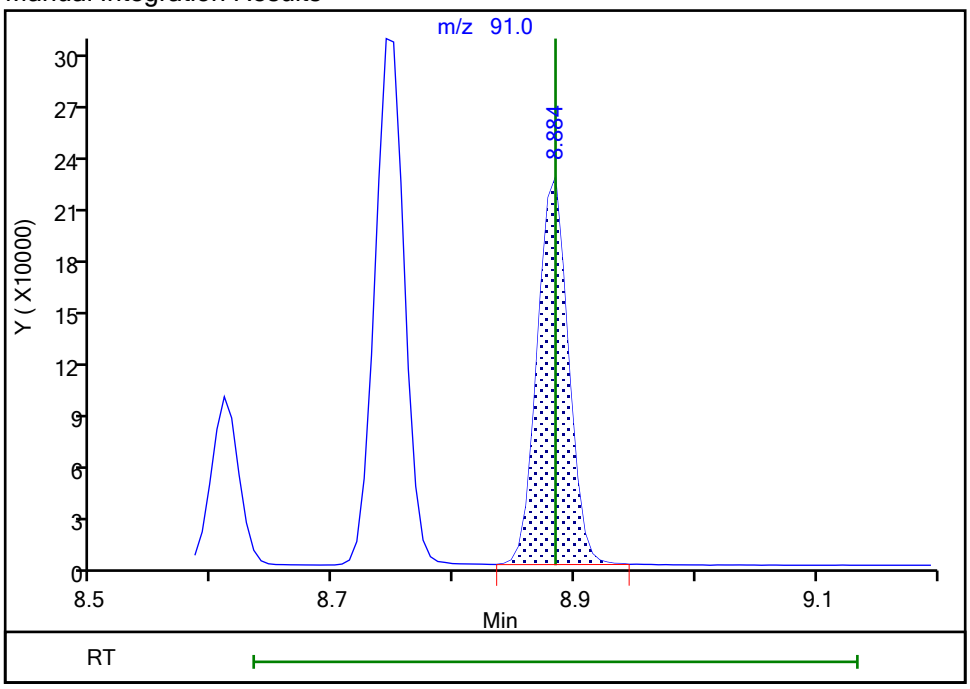
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 397866
Amount: 49.787317
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:57:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 13-Oct-2020 11:06:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:16 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:02:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	157172	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	23	6571	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	119881	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	54	57005	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	100	54539	4000.0	3990.2	
18 Ethyl ether	59	2.452	2.452	0.000	94	136339	100.0	102.6	
19 Acrolein	56	2.556	2.556	0.000	99	94356	475.9	466.8	
20 1,1-Dichloroethene	96	2.647	2.647	0.000	97	169348	100.0	104.7	
21 112TCTFE	101	2.666	2.666	0.000	95	167783	100.0	104.6	
22 Acetone	43	2.708	2.708	0.000	100	72721	200.0	179.3	
23 Iodomethane	142	2.769	2.769	0.000	98	177375	100.0	119.9	
24 Carbon disulfide	76	2.830	2.830	0.000	100	500417	100.0	104.5	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	72053	1000.0	972.9	
118 Acetonitrile	40	2.958	2.958	0.000	99	136343	1000.0	898.1	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	83	116896	100.0	111.9	
26 Methyl acetate	43	3.031	3.031	0.000	98	207296	200.0	186.8	
27 Methylene Chloride	84	3.105	3.105	0.000	95	184369	100.0	96.3	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	98	100031	1000.0	954.3	
30 Acrylonitrile	53	3.342	3.342	0.000	99	581014	1000.0	1023.6	
28 trans-1,2-Dichloroethene	96	3.373	3.373	0.000	97	199161	100.0	108.0	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	441722	100.0	103.3	
31 Hexane	57	3.653	3.653	0.000	94	273746	100.0	109.5	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	370988	100.0	107.2	
33 Vinyl acetate	86	3.836	3.836	0.000	97	74802	200.0	218.4	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	357917	100.0	107.0	
36 Isopropyl ether	87	3.867	3.867	0.000	92	174705	100.0	103.7	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	564903	100.0	104.5	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	90	289710	100.0	106.2	
39 cis-1,2-Dichloroethene	96	4.324	4.324	0.000	86	224357	100.0	106.3	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	123300	200.0	187.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	99	217461	1000.0	963.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	53714	200.0	207.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	94	664416	1000.0	992.3	
42 Chlorobromomethane	128	4.549	4.549	0.000	97	90073	100.0	102.2	
44 Tetrahydrofuran	71	4.598	4.598	0.000	89	30348	200.0	193.7	
45 Chloroform	83	4.629	4.629	0.000	95	351967	100.0	97.3	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	98	319797	100.0	107.9	
47 Cyclohexane	56	4.848	4.848	0.000	93	373121	100.0	105.5	
48 Carbon tetrachloride	117	4.958	4.958	0.000	95	272324	100.0	106.1	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	94	288977	100.0	104.1	
108 Isobutyl alcohol	43	5.116	5.116	0.000	95	133992	2500.0	2393.4	
50 Benzene	78	5.153	5.153	0.000	97	857100	100.0	105.5	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	259608	100.0	101.0	
116 n-Butanol	56	5.263	5.263	0.000	60	215916	2500.0	2735.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	493216	100.0	101.2	
53 n-Heptane	43	5.446	5.446	0.000	93	265129	100.0	105.0	
54 Trichloroethene	95	5.787	5.793	-0.006	97	217976	100.0	105.0	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	200154	100.0	102.0	
114 Methylcyclohexane	83	5.988	5.988	0.000	92	368808	100.0	108.2	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	94	206428	100.0	104.1	
56 Dibromomethane	93	6.116	6.116	0.000	95	108431	100.0	102.9	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	225693	200.0	200.0	
115 1,4-Dioxane	58	6.153	6.153	0.000	31	23674	2000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	254937	100.0	106.4	
106 2-Nitropropane	43	6.519	6.519	0.000	99	83296	200.0	239.4	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	113588	100.0	103.2	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	320494	100.0	111.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	291062	200.0	192.0	
62 Toluene	92	7.098	7.098	0.000	98	575198	100.0	104.1	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	287350	100.0	102.6	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	217634	100.0	100.9	
65 1,1,2-Trichloroethane	83	7.524	7.524	0.000	92	137753	100.0	104.5	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	243474	100.0	107.0	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	96	288225	100.0	102.0	
68 2-Hexanone	43	7.817	7.817	0.000	98	192696	200.0	194.6	
69 Chlorodibromomethane	129	7.939	7.939	0.000	92	190332	100.0	108.2	
109 n-Butyl acetate	43	7.969	7.969	0.000	98	251591	100.0	96.9	
70 Ethylene Dibromide	107	8.055	8.055	0.000	99	168707	100.0	103.8	
71 Chlorobenzene	112	8.610	8.610	0.000	94	602850	100.0	100.3	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	96	203777	100.0	104.8	
73 Ethylbenzene	91	8.744	8.744	0.000	98	1094090	100.0	104.0	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	425486	100.0	103.9	a
75 o-Xylene	106	9.329	9.323	0.006	97	400141	100.0	102.6	
76 Styrene	104	9.341	9.341	0.000	94	674858	100.0	104.5	
77 Bromoform	173	9.530	9.530	0.000	96	108385	100.0	103.6	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	1072001	100.0	105.7	
79 Bromobenzene	156	10.079	10.079	0.000	94	243560	100.0	99.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	186481	100.0	98.4	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	86	59328	100.0	94.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	88	52313	100.0	99.6	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	1236556	100.0	105.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	698997	100.0	102.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	812123	100.0	100.8	
86 1,3,5-Trimethylbenzene	105	10.451	10.451	0.000	94	837133	100.0	103.4	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	734102	100.0	104.7	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	842589	100.0	101.1	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	1062415	100.0	106.5	
90 1,3-Dichlorobenzene	146	11.194	11.194	0.000	98	441110	100.0	100.7	
91 4-Isopropyltoluene	119	11.274	11.274	0.000	97	886323	100.0	104.5	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	443152	100.0	97.9	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	817804	100.0	101.3	
113 Benzyl chloride	126	11.475	11.475	0.000	99	74667	100.0	101.7	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	411046	100.0	96.5	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	781733	100.0	104.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	84	27437	100.0	101.2	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	268789	100.0	103.3	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	218247	100.0	100.4	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	111264	100.0	105.1	
98 Naphthalene	128	13.980	13.980	0.000	97	476762	100.0	100.6	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	173729	100.0	100.2	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		200.0	214.3	
S 102 1,3-Dichloropropene, Total	1				0		200.0	214.4	
S 100 Xylenes, Total	1				0		200.0	206.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 100.00	Units: uL

Report Date: 13-Oct-2020 18:27:19 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D

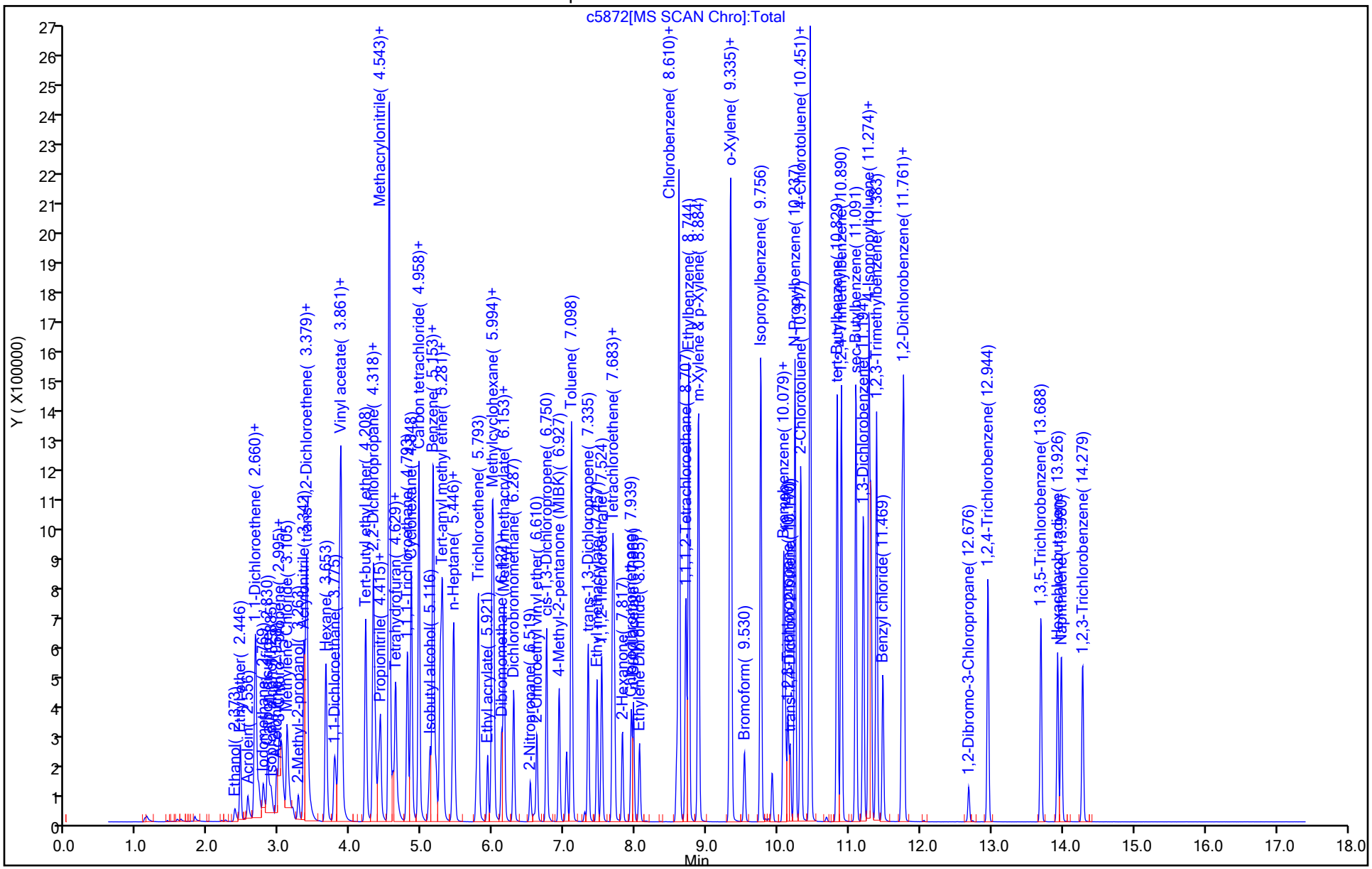
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: icis Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

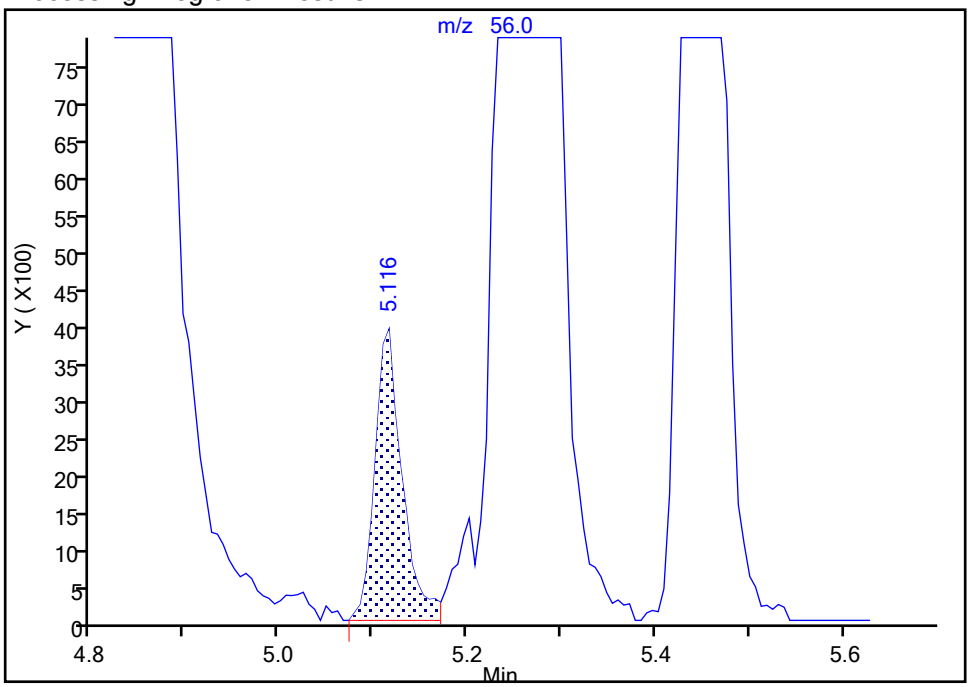
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin
Lims ID: icis
Client ID:
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

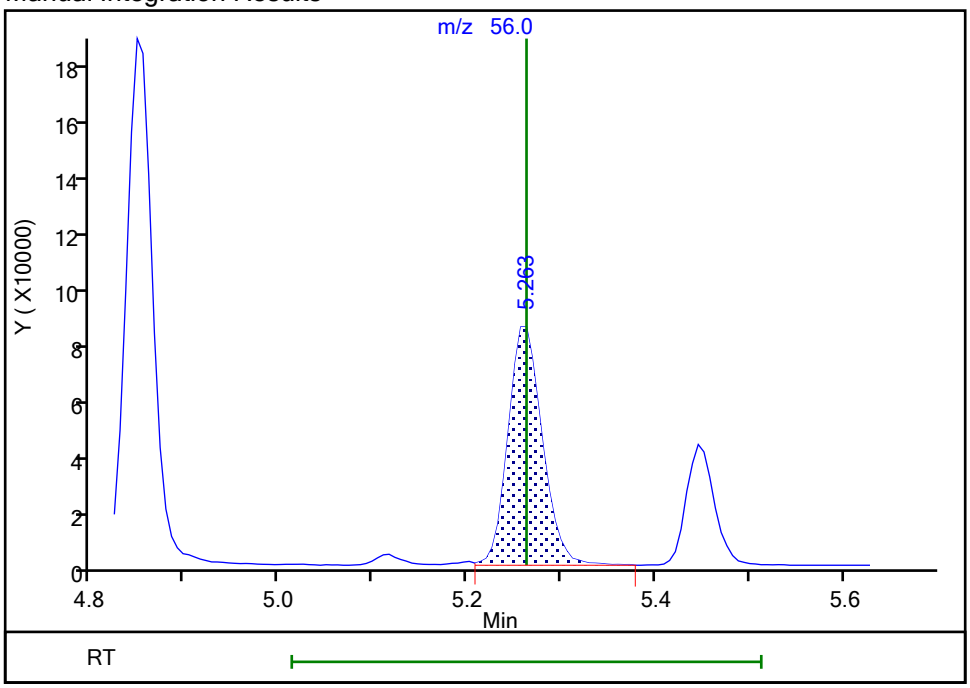
Processing Integration Results

RT: 5.12
Area: 7860
Amount: 180.9818
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 215916
Amount: 2734.9626
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:01:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

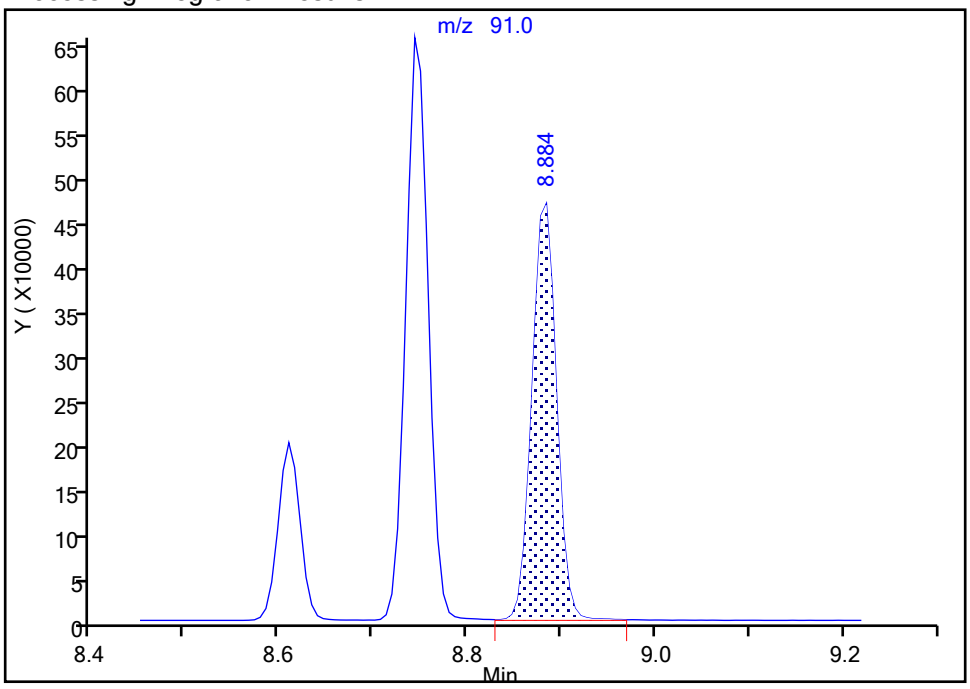
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin
Lims ID: icis
Client ID:
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

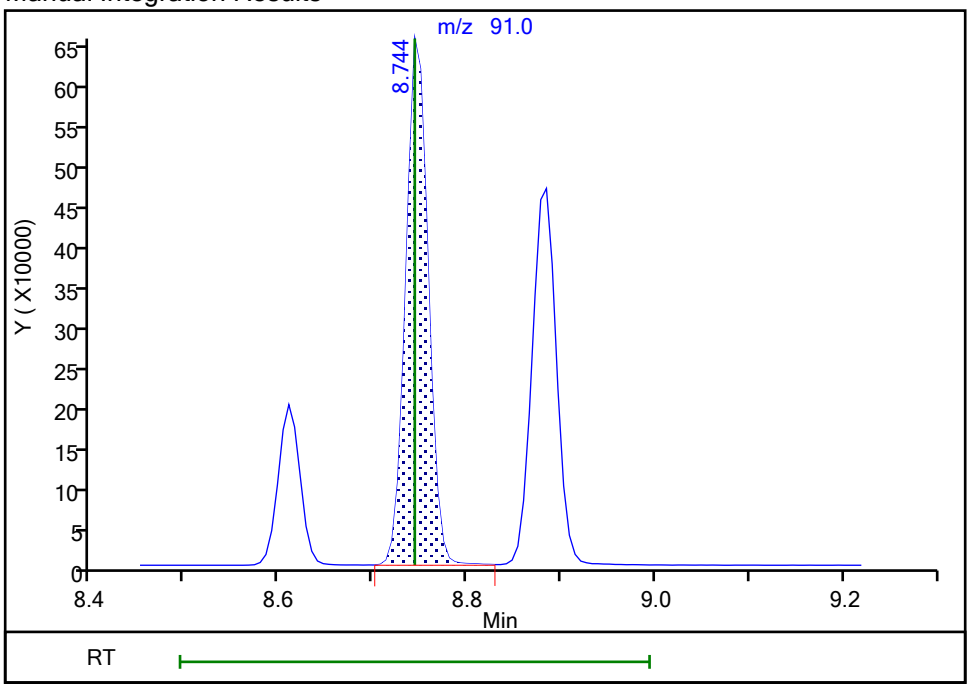
Processing Integration Results

RT: 8.88
Area: 852564
Amount: 90.550511
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 1094090
Amount: 103.9844
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:01:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

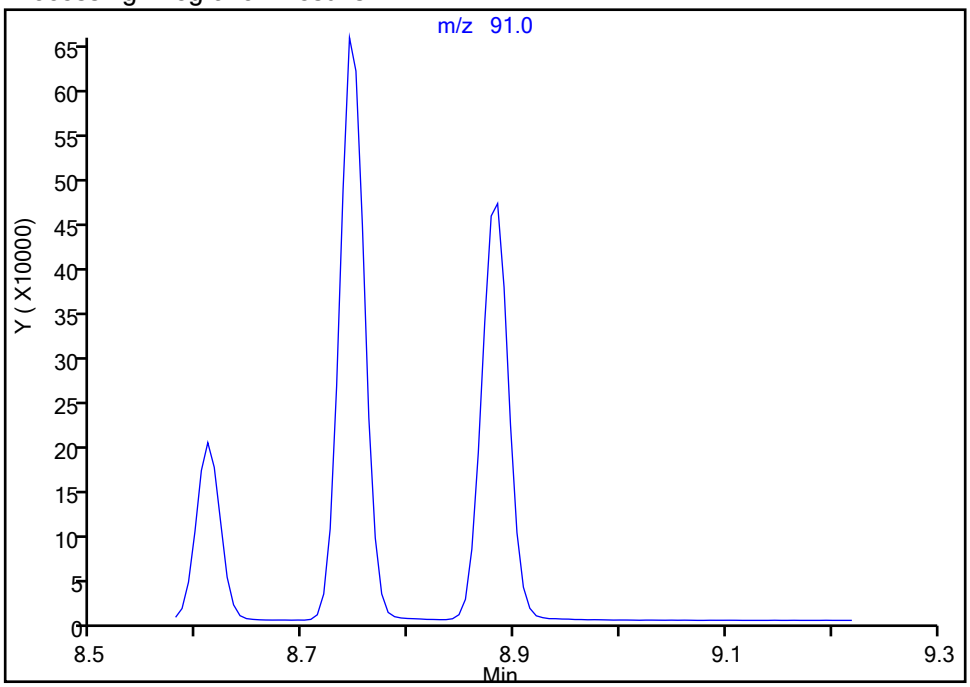
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin
Lims ID: icis
Client ID:
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

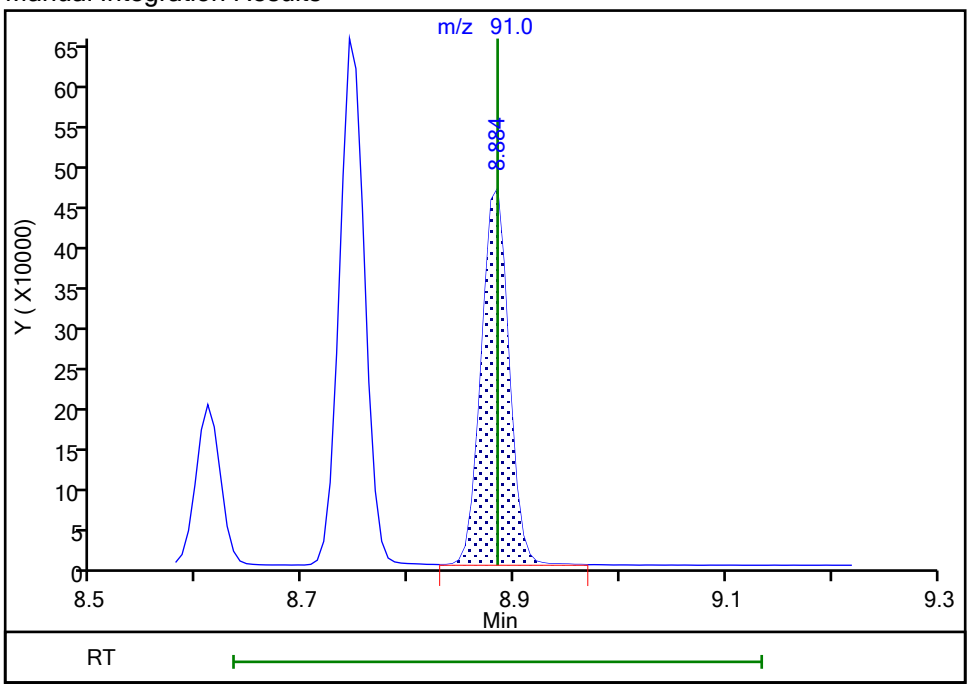
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 852564
Amount: 103.8767
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:01:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 13-Oct-2020 11:30:30 ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:30 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:06:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	172776	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.104	0.006	24	7429	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	131436	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	48	60203	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	100	86149	6000.0	5733.7	
18 Ethyl ether	59	2.452	2.452	0.000	94	223212	150.0	152.8	
19 Acrolein	56	2.556	2.556	0.000	99	154853	713.9	696.9	
20 1,1-Dichloroethene	96	2.653	2.647	0.006	96	267205	150.0	150.3	
21 112TCTFE	101	2.666	2.666	0.000	95	272172	150.0	154.3	
22 Acetone	43	2.708	2.708	0.000	99	128729	300.0	290.8	
23 Iodomethane	142	2.775	2.769	0.006	98	264409	150.0	162.6	
24 Carbon disulfide	76	2.836	2.830	0.006	100	794423	150.0	151.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	114198	1500.0	1402.7	
118 Acetonitrile	40	2.964	2.958	0.006	100	229730	1500.0	1376.5	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	79	186082	150.0	162.0	
26 Methyl acetate	43	3.031	3.031	0.000	98	341651	300.0	280.0	
27 Methylene Chloride	84	3.111	3.105	0.006	95	297867	150.0	141.6	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	158525	1500.0	1375.8	
30 Acrylonitrile	53	3.342	3.342	0.000	99	932977	1500.0	1495.2	
28 trans-1,2-Dichloroethene	96	3.379	3.373	0.006	96	320120	150.0	157.9	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	721382	150.0	153.4	
31 Hexane	57	3.653	3.653	0.000	95	413206	150.0	150.3	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	96	588499	150.0	154.8	
33 Vinyl acetate	86	3.836	3.836	0.000	97	120034	300.0	318.8	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	94	570674	150.0	155.2	
36 Isopropyl ether	87	3.873	3.867	0.006	93	285228	150.0	154.1	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	920936	150.0	154.9	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	92	467030	150.0	155.7	
39 cis-1,2-Dichloroethene	96	4.324	4.324	0.000	88	356748	150.0	153.8	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	201245	300.0	278.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	99	351145	1500.0	1415.2	
104 Ethyl acetate	61	4.421	4.415	0.006	100	82353	300.0	289.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	94	1065799	1500.0	1448.0	
42 Chlorobromomethane	128	4.549	4.549	0.000	96	136698	150.0	141.0	
44 Tetrahydrofuran	71	4.598	4.598	0.000	81	50732	300.0	294.6	
45 Chloroform	83	4.635	4.629	0.006	97	556220	150.0	139.9	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	98	507413	150.0	155.7	
47 Cyclohexane	56	4.854	4.848	0.006	93	586722	150.0	150.9	
48 Carbon tetrachloride	117	4.958	4.958	0.000	87	437207	150.0	155.0	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	463519	150.0	151.9	
108 Isobutyl alcohol	43	5.116	5.116	0.000	95	216458	3750.0	3517.2	
50 Benzene	78	5.153	5.153	0.000	97	1353344	150.0	151.6	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	416961	150.0	147.6	
116 n-Butanol	56	5.263	5.263	0.000	58	327034	3750.0	3768.4	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	797639	150.0	148.9	
53 n-Heptane	43	5.446	5.446	0.000	93	409601	150.0	147.6	
54 Trichloroethene	95	5.793	5.793	0.000	97	345027	150.0	151.2	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	330069	150.0	153.0	
114 Methylcyclohexane	83	5.988	5.988	0.000	93	561404	150.0	149.8	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	93	329863	150.0	151.3	
56 Dibromomethane	93	6.122	6.116	0.006	96	171460	150.0	148.0	
115 1,4-Dioxane	58	6.153	6.153	0.000	92	37142	3000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	369629	300.0	297.9	
58 Dichlorobromomethane	83	6.287	6.287	0.000	99	411966	150.0	156.5	
106 2-Nitropropane	43	6.525	6.519	0.006	99	144550	300.0	377.9	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	186190	150.0	153.9	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	519632	150.0	164.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	478227	300.0	287.0	
62 Toluene	92	7.104	7.098	0.006	98	908469	150.0	149.6	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	469028	150.0	152.2	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	351773	150.0	148.3	
65 1,1,2-Trichloroethane	83	7.524	7.524	0.000	93	218875	150.0	151.0	
66 Tetrachloroethene	166	7.683	7.677	0.006	96	374289	150.0	149.7	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	463989	150.0	149.4	
68 2-Hexanone	43	7.817	7.817	0.000	97	315901	300.0	290.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	307574	150.0	159.0	
109 n-Butyl acetate	43	7.970	7.969	0.001	98	407719	150.0	142.9	
70 Ethylene Dibromide	107	8.055	8.055	0.000	98	270235	150.0	151.2	
71 Chlorobenzene	112	8.610	8.610	0.000	91	937906	150.0	142.3	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	96	324315	150.0	152.2	
73 Ethylbenzene	91	8.750	8.744	0.006	98	1726342	150.0	149.7	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	665198	150.0	148.1	a
75 o-Xylene	106	9.329	9.323	0.006	98	626337	150.0	146.5	
76 Styrene	104	9.341	9.341	0.000	95	1066367	150.0	150.6	
77 Bromoform	173	9.530	9.530	0.000	96	176253	150.0	153.6	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	1671006	150.0	150.3	
79 Bromobenzene	156	10.079	10.079	0.000	96	378854	150.0	140.5	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	300355	150.0	144.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	86	93956	150.0	135.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	94	87699	150.0	152.4	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	1946827	150.0	152.0	
84 2-Chlorotoluene	91	10.323	10.317	0.006	96	1106175	150.0	147.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	1308877	150.0	148.2	
86 1,3,5-Trimethylbenzene	105	10.457	10.451	0.006	94	1321492	150.0	148.9	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	1139275	150.0	148.2	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	1322936	150.0	144.8	
89 sec-Butylbenzene	105	11.097	11.091	0.006	94	1664286	150.0	152.2	
90 1,3-Dichlorobenzene	146	11.201	11.194	0.007	98	696302	150.0	144.9	
91 4-Isopropyltoluene	119	11.280	11.274	0.006	97	1385446	150.0	154.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	695523	150.0	145.5	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	1292178	150.0	151.6	
113 Benzyl chloride	126	11.475	11.475	0.000	99	121624	150.0	156.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	645769	150.0	143.6	
94 n-Butylbenzene	91	11.768	11.761	0.007	98	1231038	150.0	156.0	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	94	45896	150.0	160.3	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	424780	150.0	154.6	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	348565	150.0	151.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	173590	150.0	155.3	
98 Naphthalene	128	13.981	13.980	0.001	97	751860	150.0	150.2	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	275840	150.0	150.6	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		300.0	311.7	
S 102 1,3-Dichloropropene, Total	1				0		300.0	317.0	
S 100 Xylenes, Total	1				0		300.0	294.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

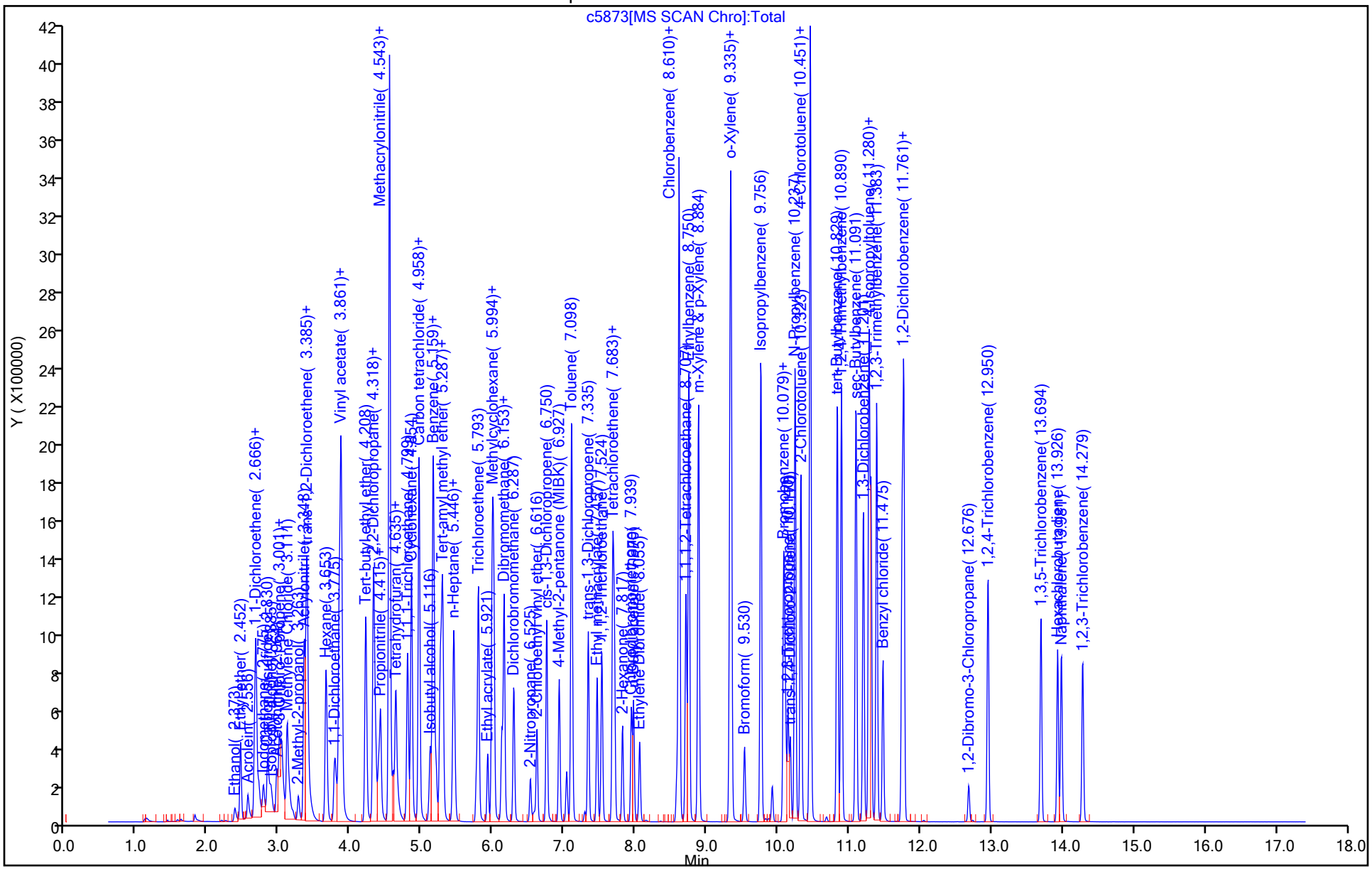
VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 150.00	Units: uL

Report Date: 13-Oct-2020 18:27:33 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D

Injection Date:	13-Oct-2020 11:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std9			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

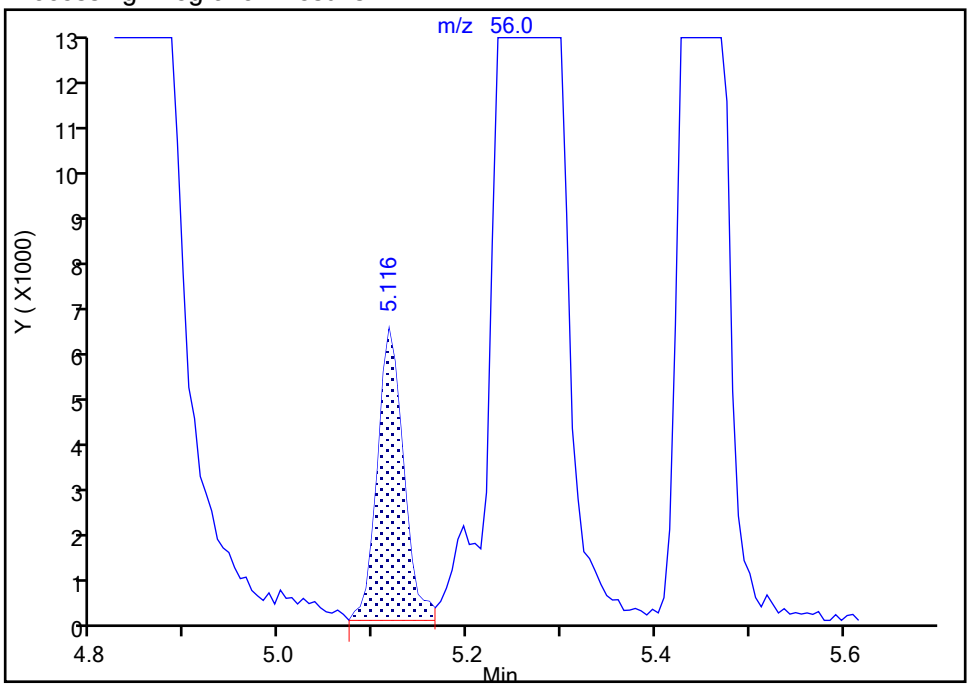
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Injection Date: 13-Oct-2020 11:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

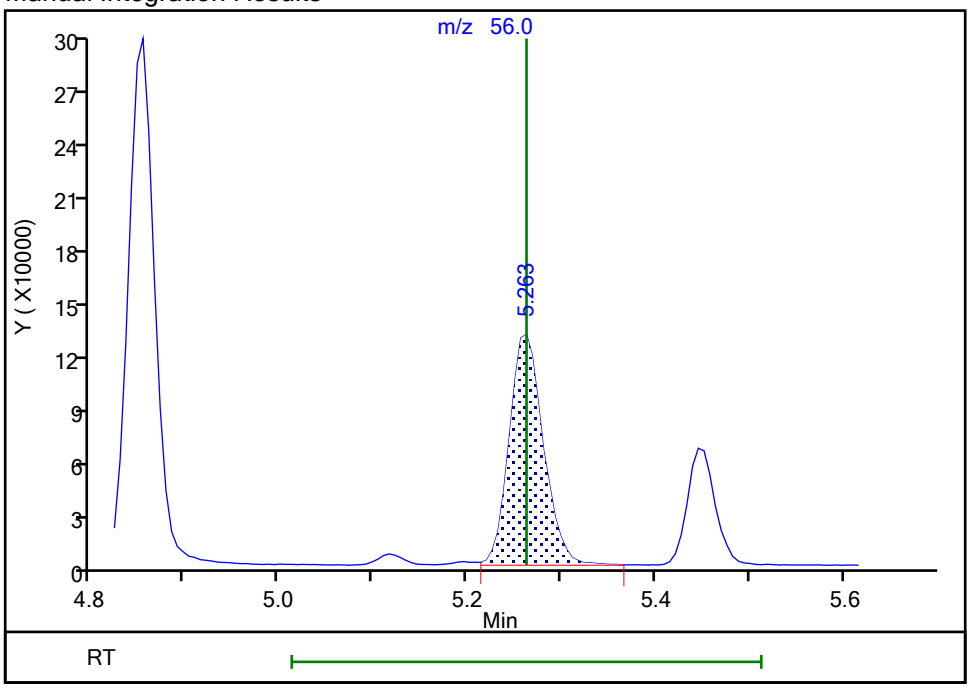
Processing Integration Results

RT: 5.12
Area: 12361
Amount: 220.5027
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 327034
Amount: 3768.3500
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:06:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

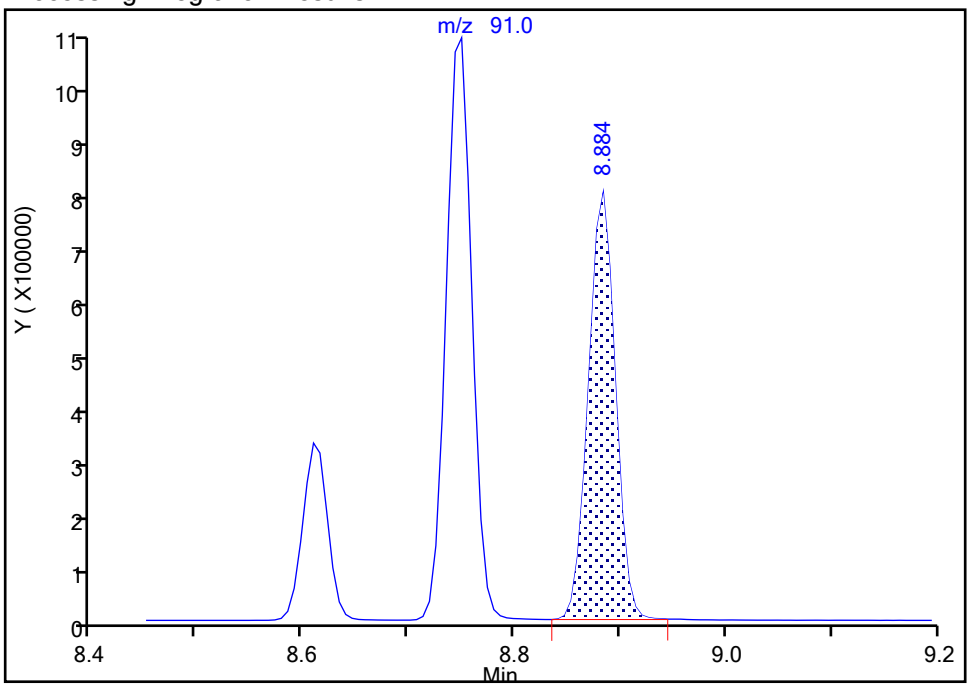
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Injection Date: 13-Oct-2020 11:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

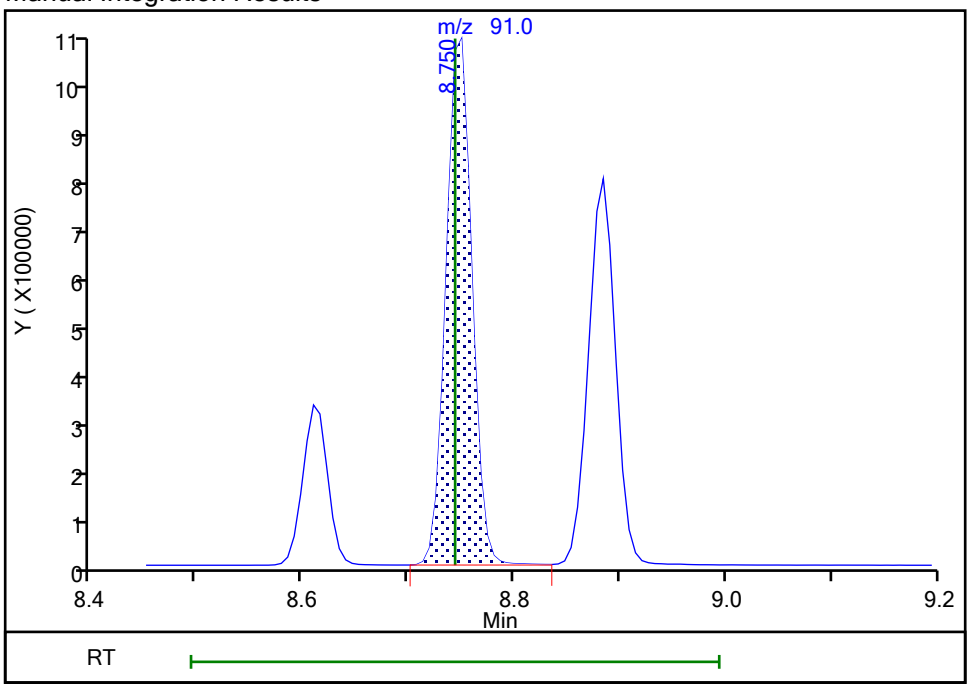
Processing Integration Results

RT: 8.88
Area: 1318920
Amount: 124.8552
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 1726342
Amount: 149.6504
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:06:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

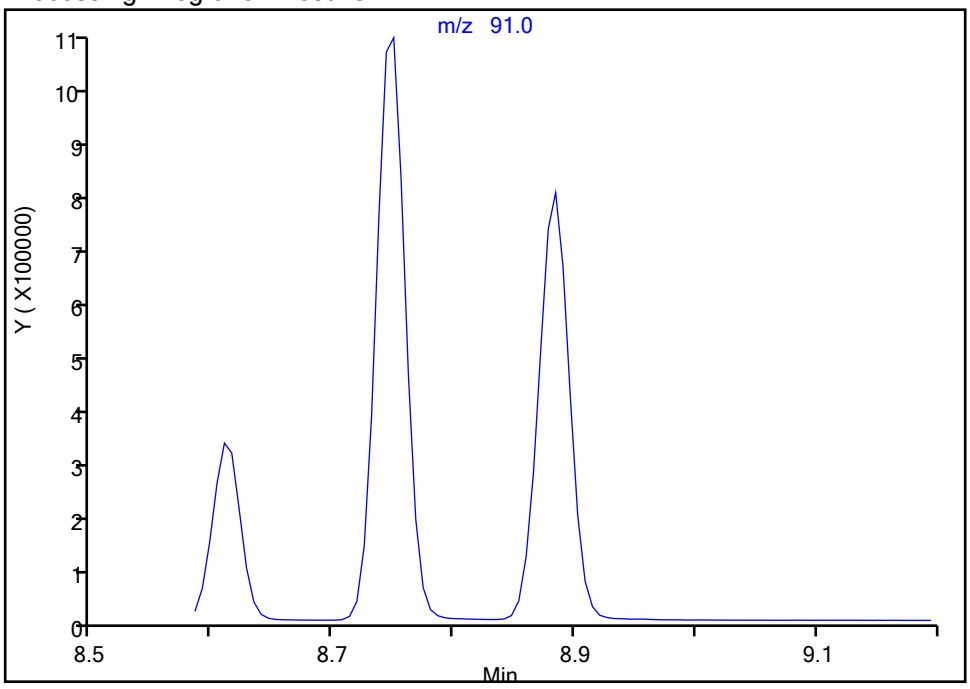
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Injection Date: 13-Oct-2020 11:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

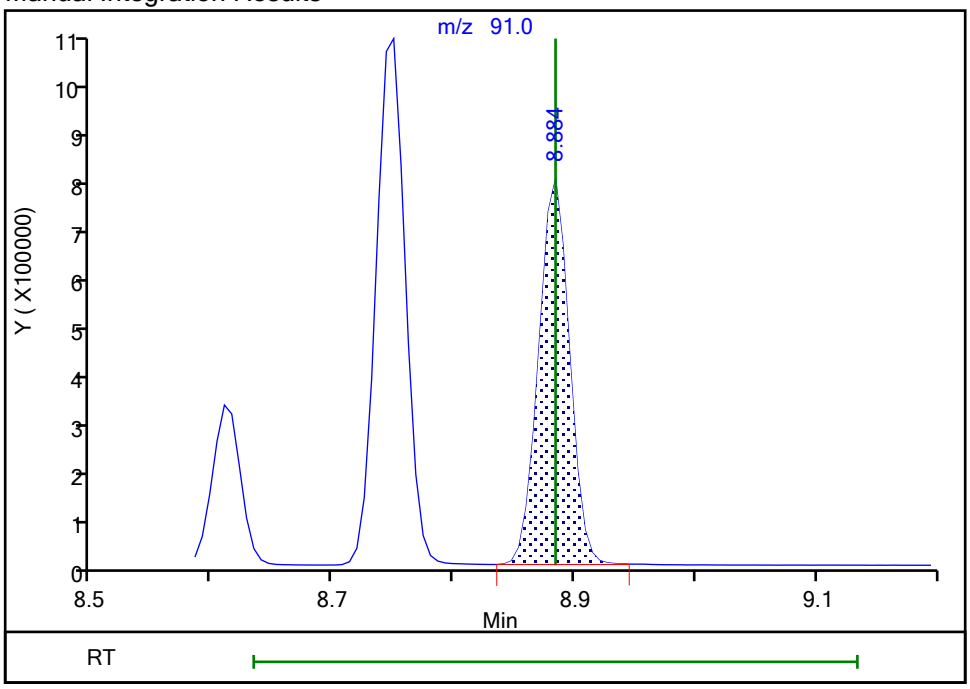
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 1318920
Amount: 148.1221
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:05:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 13-Oct-2020 11:55:30 ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:44 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:08:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	162997	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.104	0.006	95	7644	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	122687	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	50	58055	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	119684	8000.0	8443.5	
18 Ethyl ether	59	2.452	2.452	0.000	94	298566	200.0	216.7	
19 Acrolein	56	2.556	2.556	0.000	99	206827	951.8	986.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	96	366088	200.0	218.3	
21 112TCTFE	101	2.666	2.666	0.000	95	377961	200.0	227.1	
22 Acetone	43	2.708	2.708	0.000	99	168271	400.0	404.2	
23 Iodomethane	142	2.776	2.769	0.007	99	326157	200.0	212.7	
24 Carbon disulfide	76	2.836	2.830	0.006	100	1088335	200.0	219.3	
105 Isopropyl alcohol	45	2.879	2.885	-0.006	98	156610	2000.0	2039.0	
118 Acetonitrile	40	2.964	2.958	0.006	95	298576	2000.0	1896.4	a
25 3-Chloro-1-propene	76	3.001	3.001	0.000	81	244182	200.0	225.4	
26 Methyl acetate	43	3.032	3.031	0.001	98	453391	400.0	393.9	
27 Methylene Chloride	84	3.105	3.105	0.000	95	400344	200.0	201.7	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	217696	2000.0	2002.7	
30 Acrylonitrile	53	3.349	3.342	0.007	99	1248302	2000.0	2120.6	
28 trans-1,2-Dichloroethene	96	3.379	3.373	0.006	96	427320	200.0	223.4	
29 Methyl tert-butyl ether	73	3.391	3.385	0.006	97	971336	200.0	218.9	
31 Hexane	57	3.653	3.653	0.000	94	581122	200.0	224.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	798918	200.0	222.7	
33 Vinyl acetate	86	3.836	3.836	0.000	99	161865	400.0	455.6	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	94	787903	200.0	227.1	
36 Isopropyl ether	87	3.867	3.867	0.000	91	371279	200.0	212.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	1235473	200.0	220.3	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	92	636194	200.0	224.8	
39 cis-1,2-Dichloroethene	96	4.330	4.324	0.006	88	475897	200.0	217.5	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	270827	400.0	396.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	99	470953	2000.0	2012.0	
104 Ethyl acetate	61	4.415	4.415	0.000	100	111574	400.0	416.3	
43 Methacrylonitrile	67	4.550	4.543	0.007	94	1427644	2000.0	2056.0	
42 Chlorobromomethane	128	4.550	4.549	0.001	96	176667	200.0	193.2	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	66548	400.0	409.6	
45 Chloroform	83	4.635	4.629	0.006	97	754824	200.0	201.2	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	98	696226	200.0	226.4	
47 Cyclohexane	56	4.854	4.848	0.006	93	814904	200.0	222.2	
48 Carbon tetrachloride	117	4.958	4.958	0.000	87	603475	200.0	226.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	626437	200.0	217.6	
108 Isobutyl alcohol	43	5.117	5.116	0.000	94	291625	5000.0	5022.9	
50 Benzene	78	5.159	5.153	0.006	97	1828665	200.0	217.1	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	567476	200.0	212.9	
116 n-Butanol	56	5.263	5.263	0.000	58	447648	5000.0	5467.6	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	1068336	200.0	211.3	
53 n-Heptane	43	5.446	5.446	0.000	93	564880	200.0	215.8	
54 Trichloroethene	95	5.793	5.793	0.000	97	470196	200.0	218.4	
117 Ethyl acrylate	55	5.921	5.921	0.000	98	440304	200.0	216.4	
114 Methylcyclohexane	83	5.988	5.988	0.000	93	774861	200.0	219.2	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	93	449040	200.0	218.3	
56 Dibromomethane	93	6.122	6.116	0.006	96	224693	200.0	205.6	
115 1,4-Dioxane	58	6.159	6.153	0.006	98	50608	4000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	490835	400.0	419.3	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	561520	200.0	226.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	201806	400.0	559.3	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	247569	200.0	217.0	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	707454	200.0	237.9	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	640642	400.0	407.5	
62 Toluene	92	7.104	7.098	0.006	97	1205515	200.0	210.5	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	97	636840	200.0	218.9	
64 Ethyl methacrylate	69	7.458	7.457	0.001	89	476733	200.0	213.1	
65 1,1,2-Trichloroethane	83	7.525	7.524	0.001	93	294668	200.0	215.5	
66 Tetrachloroethene	166	7.683	7.677	0.006	96	498635	200.0	211.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	95	614765	200.0	209.8	
68 2-Hexanone	43	7.817	7.817	0.000	98	420569	400.0	409.5	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	413885	200.0	226.8	
109 n-Butyl acetate	43	7.970	7.969	0.001	99	541266	200.0	201.1	
70 Ethylene Dibromide	107	8.055	8.055	0.000	98	356689	200.0	211.5	
71 Chlorobenzene	112	8.610	8.610	0.000	90	1253361	200.0	203.7	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	430882	200.0	216.6	
73 Ethylbenzene	91	8.750	8.744	0.006	98	2302794	200.0	213.9	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	881949	200.0	210.4	a
75 o-Xylene	106	9.329	9.323	0.006	98	844682	200.0	211.7	
76 Styrene	104	9.341	9.341	0.000	93	1435489	200.0	217.2	
77 Bromoform	173	9.530	9.530	0.000	95	240686	200.0	224.8	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	2251337	200.0	216.9	
79 Bromobenzene	156	10.079	10.079	0.000	96	501867	200.0	199.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	398669	200.0	205.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	87	123377	200.0	191.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	89	116968	200.0	217.7	
83 N-Propylbenzene	91	10.244	10.237	0.007	99	2598529	200.0	217.3	
84 2-Chlorotoluene	91	10.323	10.317	0.006	95	1483757	200.0	211.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	1765116	200.0	214.1	
86 1,3,5-Trimethylbenzene	105	10.457	10.451	0.006	94	1785375	200.0	215.6	
87 tert-Butylbenzene	119	10.835	10.829	0.006	93	1523388	200.0	212.2	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	1786213	200.0	209.4	
89 sec-Butylbenzene	105	11.097	11.091	0.006	95	2249763	200.0	220.4	
90 1,3-Dichlorobenzene	146	11.201	11.194	0.007	98	920200	200.0	205.2	
91 4-Isopropyltoluene	119	11.280	11.274	0.006	97	1876962	200.0	217.2	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	923470	200.0	200.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.383	0.001	99	1734226	200.0	210.9	
113 Benzyl chloride	126	11.475	11.475	0.000	99	165299	200.0	221.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	96	860941	200.0	198.5	
94 n-Butylbenzene	91	11.768	11.761	0.007	98	1652224	200.0	217.1	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	85	60609	200.0	219.5	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	561538	200.0	212.0	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	453613	200.0	205.0	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	228752	200.0	212.3	
98 Naphthalene	128	13.981	13.980	0.001	97	992752	200.0	205.7	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	364999	200.0	206.6	
132 t-Amyl alcohol	1		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		400.0	440.9	
S 102 1,3-Dichloropropene, Total	1				0		400.0	456.7	
S 100 Xylenes, Total	1				0		400.0	422.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

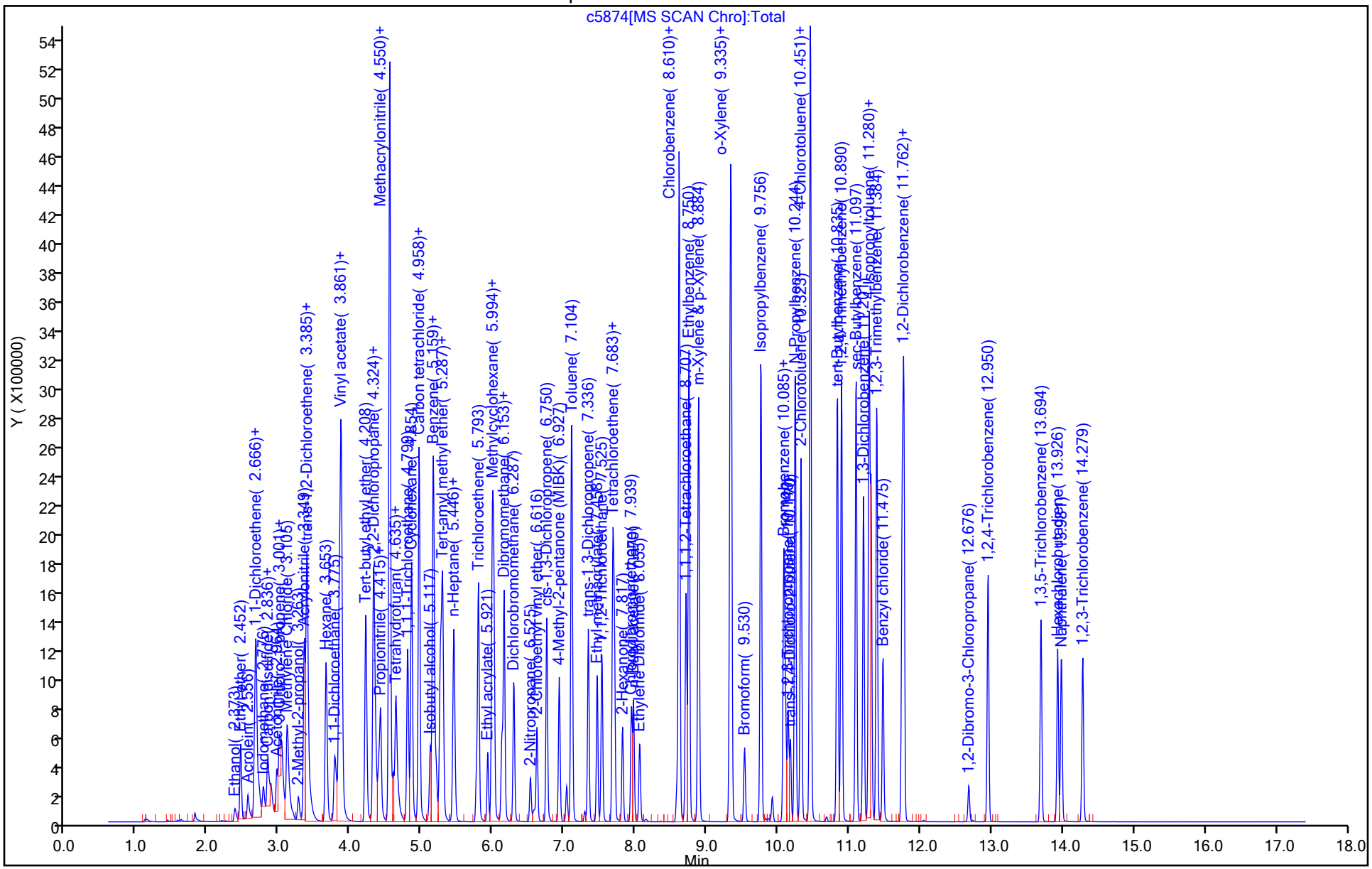
VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 200.00	Units: uL

Report Date: 13-Oct-2020 18:27:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D

Injection Date:	13-Oct-2020 11:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std10			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

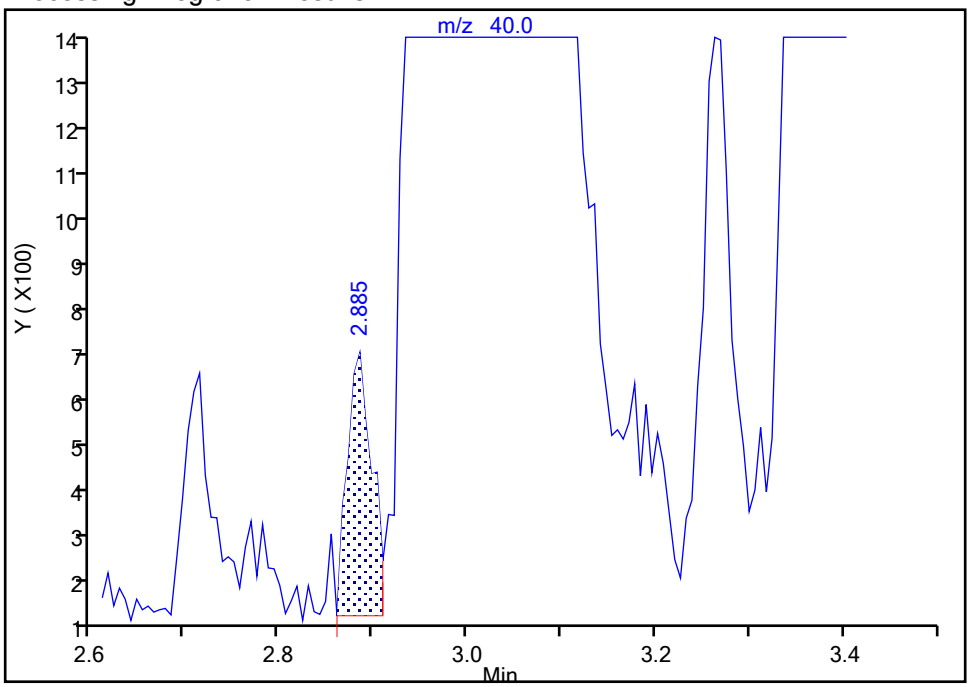
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

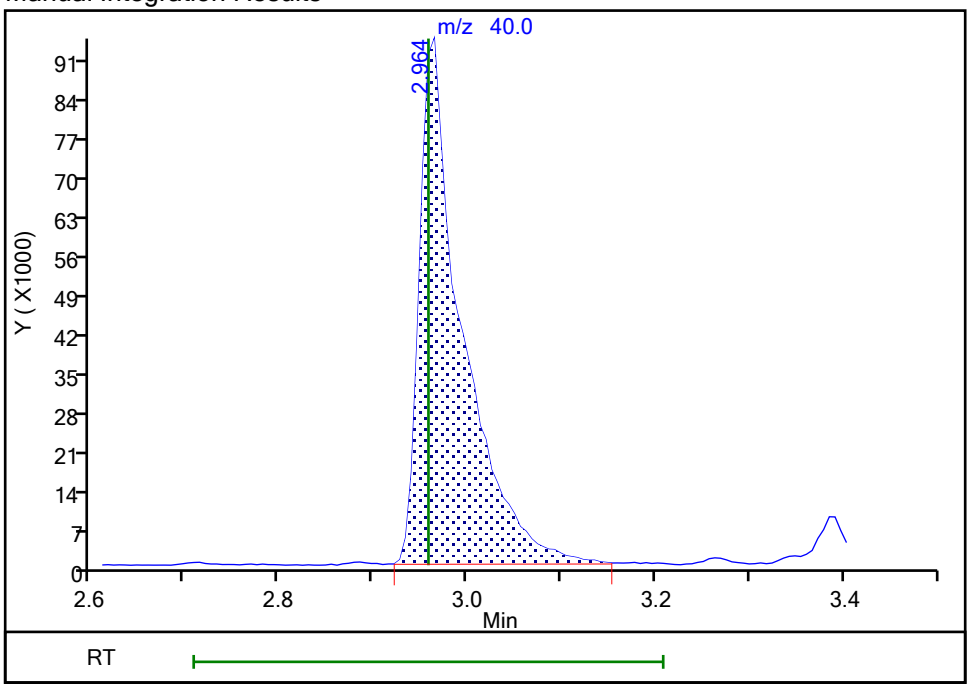
Processing Integration Results

RT: 2.89
Area: 1041
Amount: 7.681900
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 298576
Amount: 1896.4087
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

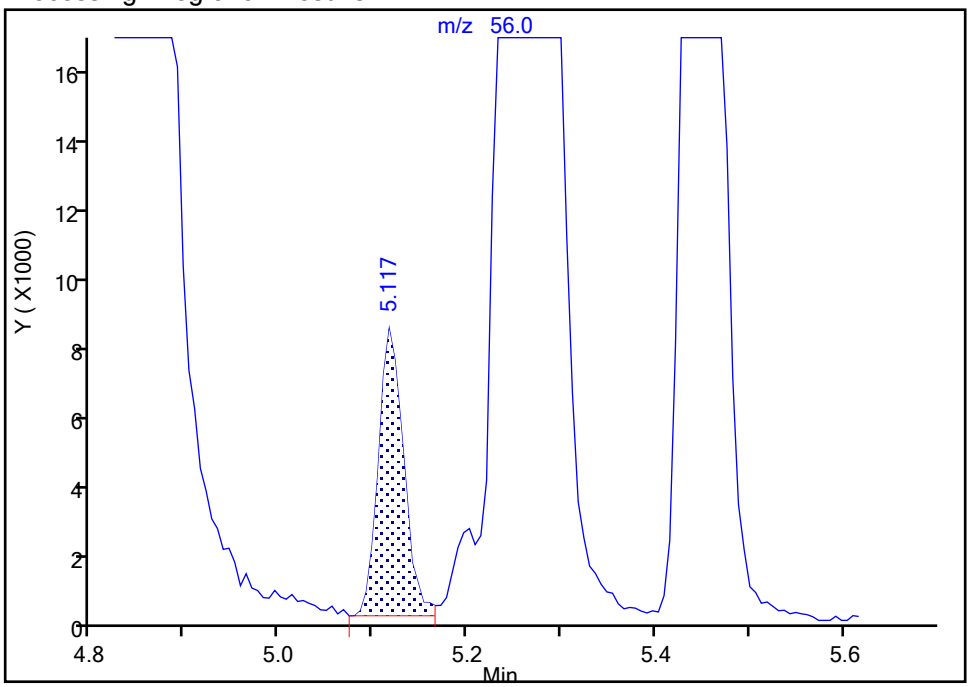
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

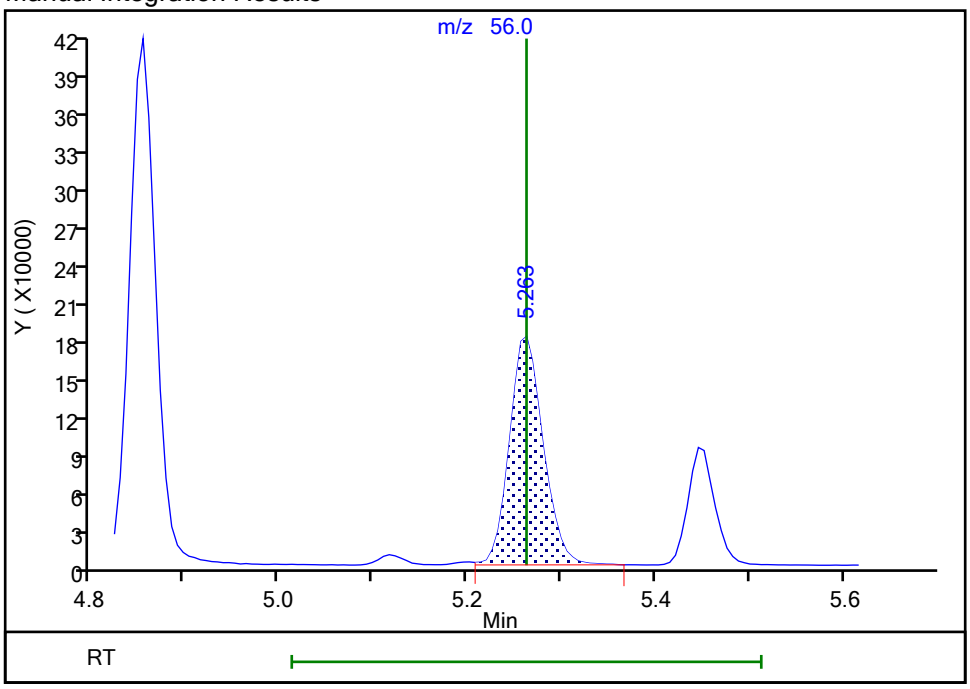
Processing Integration Results

RT: 5.12
Area: 15356
Amount: 255.5837
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 447648
Amount: 5467.6258
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

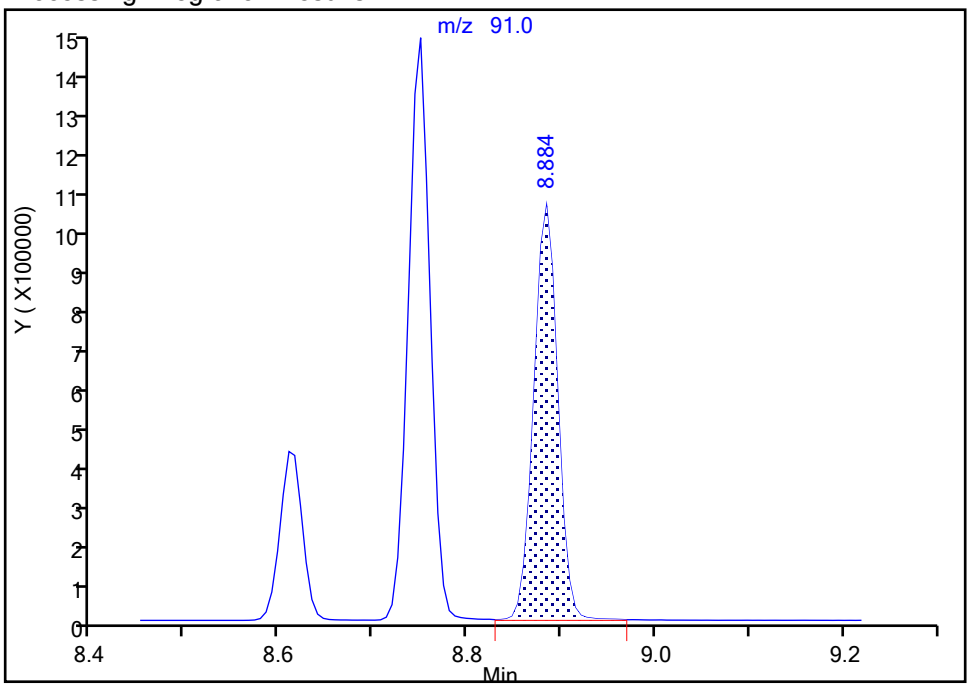
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

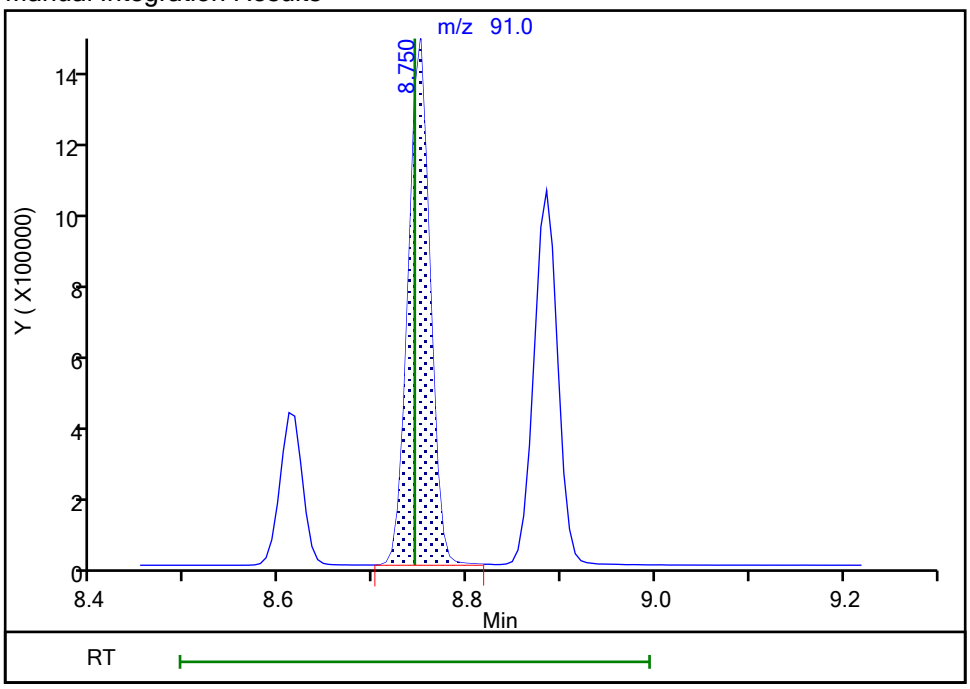
Processing Integration Results

RT: 8.88
Area: 1787470
Amount: 177.1365
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 2302794
Amount: 213.8563
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

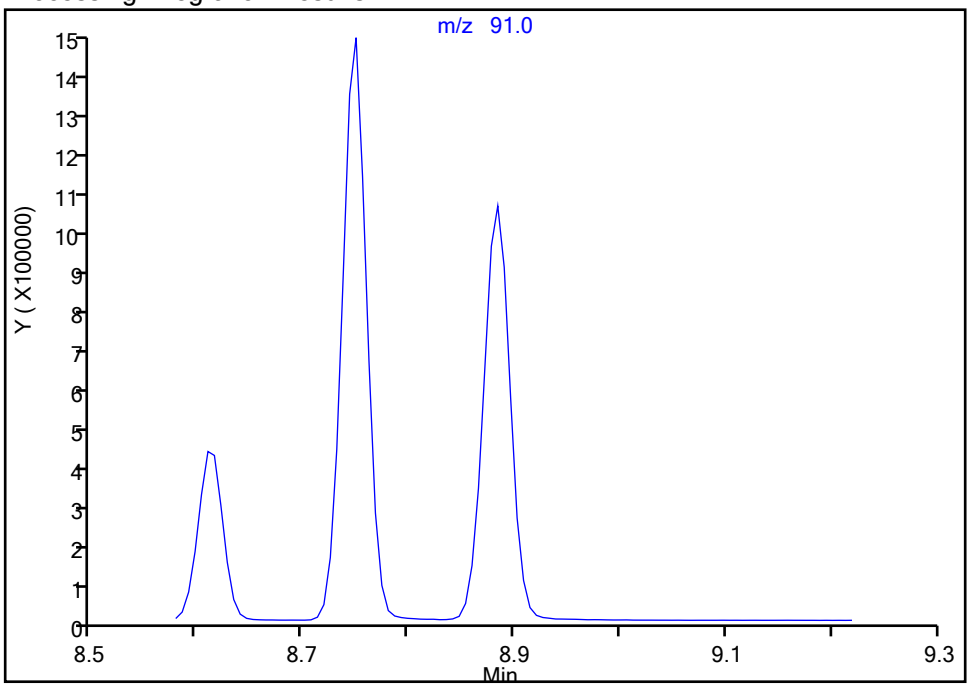
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

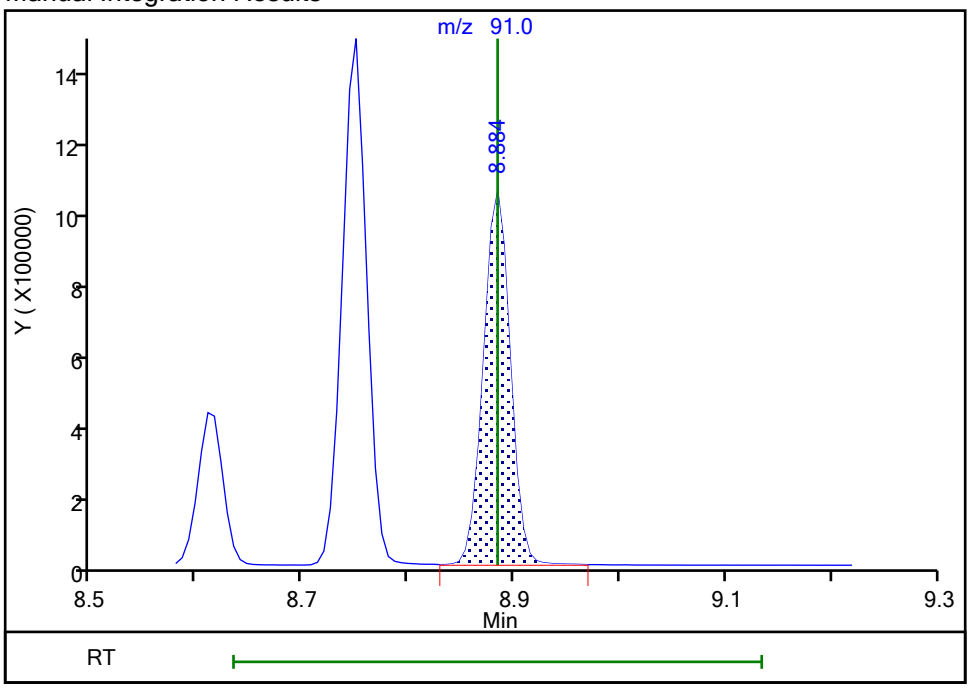
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 1787470
Amount: 210.3915
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 13-Oct-2020 12:19:30 ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:28:00 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:09:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	169584	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.104	0.006	23	7917	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	125533	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	47	58870	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	100	144217	10000	9779.1	
18 Ethyl ether	59	2.458	2.452	0.006	94	384793	250.0	268.4	
19 Acrolein	56	2.556	2.556	0.000	99	266433	1189.8	1221.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	464156	250.0	266.1	
21 112TCTFE	101	2.672	2.666	0.006	96	485273	250.0	280.3	
22 Acetone	43	2.708	2.708	0.000	99	225662	500.0	522.0	
23 Iodomethane	142	2.776	2.769	0.007	98	387251	250.0	242.7	
24 Carbon disulfide	76	2.836	2.830	0.006	100	1378380	250.0	266.9	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	193100	2500.0	2416.5	
118 Acetonitrile	40	2.964	2.958	0.006	99	382505	2500.0	2335.1	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	87	317309	250.0	281.5	
26 Methyl acetate	43	3.032	3.031	0.001	98	587283	500.0	490.4	
27 Methylene Chloride	84	3.111	3.105	0.006	96	508797	250.0	246.4	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	266006	2500.0	2352.1	
30 Acrylonitrile	53	3.349	3.342	0.007	98	1604328	2500.0	2619.5	
28 trans-1,2-Dichloroethene	96	3.385	3.373	0.012	96	544308	250.0	273.5	
29 Methyl tert-butyl ether	73	3.391	3.385	0.006	98	1263087	250.0	273.7	
31 Hexane	57	3.653	3.653	0.000	95	740402	250.0	274.4	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	97	1013362	250.0	271.5	
33 Vinyl acetate	86	3.842	3.836	0.006	97	209497	500.0	566.8	
34 2-Chloro-1,3-butadiene	53	3.861	3.854	0.007	96	1017778	250.0	282.0	
36 Isopropyl ether	87	3.873	3.867	0.006	91	484165	250.0	266.4	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	98	1610503	250.0	276.0	
38 2,2-Dichloropropane	77	4.324	4.318	0.006	92	826438	250.0	280.7	
39 cis-1,2-Dichloroethene	96	4.330	4.324	0.006	85	599338	250.0	263.2	
40 2-Butanone (MEK)	43	4.348	4.342	0.006	100	343182	500.0	483.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	99	592518	2500.0	2433.0	
104 Ethyl acetate	61	4.422	4.415	0.007	100	153061	500.0	549.0	
43 Methacrylonitrile	67	4.550	4.543	0.007	94	1838957	2500.0	2545.4	
42 Chlorobromomethane	128	4.556	4.549	0.007	96	220182	250.0	231.4	
44 Tetrahydrofuran	71	4.604	4.598	0.006	81	84674	500.0	500.9	
45 Chloroform	83	4.641	4.629	0.012	97	961757	250.0	246.4	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	99	897749	250.0	280.6	
47 Cyclohexane	56	4.854	4.848	0.006	93	1043474	250.0	273.5	
48 Carbon tetrachloride	117	4.964	4.958	0.006	87	770898	250.0	278.5	
49 1,1-Dichloropropene	75	4.964	4.958	0.006	90	798317	250.0	266.5	
108 Isobutyl alcohol	43	5.117	5.116	0.000	95	364011	6250.0	6026.1	
50 Benzene	78	5.159	5.153	0.006	97	2317477	250.0	264.5	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	736768	250.0	265.7	
116 n-Butanol	56	5.263	5.263	0.000	64	571159	6250.0	6705.2	a
52 Tert-amyl methyl ether	73	5.293	5.287	0.006	97	1375681	250.0	261.6	
53 n-Heptane	43	5.446	5.446	0.000	93	715764	250.0	262.8	
54 Trichloroethene	95	5.793	5.793	0.000	97	607159	250.0	271.1	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	570579	250.0	269.5	
114 Methylcyclohexane	83	5.988	5.988	0.000	93	982937	250.0	267.2	
55 1,2-Dichloropropane	63	6.013	6.006	0.007	95	569883	250.0	266.3	
56 Dibromomethane	93	6.122	6.116	0.006	96	278956	250.0	245.3	
115 1,4-Dioxane	58	6.159	6.153	0.006	32	60627	5000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	633981	500.0	520.6	
58 Dichlorobromomethane	83	6.293	6.287	0.006	99	727919	250.0	281.7	
106 2-Nitropropane	43	6.525	6.519	0.006	99	264364	500.0	704.2	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	320975	250.0	270.4	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	902811	250.0	291.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	824007	500.0	503.8	
62 Toluene	92	7.104	7.098	0.006	97	1538700	250.0	258.2	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	97	818090	250.0	270.2	
64 Ethyl methacrylate	69	7.464	7.457	0.007	90	611318	250.0	262.6	
65 1,1,2-Trichloroethane	83	7.525	7.524	0.001	93	373824	250.0	262.7	
66 Tetrachloroethene	166	7.683	7.677	0.006	95	621264	250.0	253.1	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	95	783956	250.0	257.1	
68 2-Hexanone	43	7.817	7.817	0.000	98	541233	500.0	506.5	
69 Chlorodibromomethane	129	7.945	7.939	0.006	90	529757	250.0	279.0	
109 n-Butyl acetate	43	7.970	7.969	0.001	98	700054	250.0	250.0	
70 Ethylene Dibromide	107	8.055	8.055	0.000	98	451068	250.0	257.1	
71 Chlorobenzene	112	8.610	8.610	0.000	91	1577563	250.0	250.6	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	546096	250.0	268.3	
73 Ethylbenzene	91	8.750	8.744	0.006	98	2901779	250.0	263.4	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	1116451	250.0	260.3	a
75 o-Xylene	106	9.329	9.323	0.006	98	1063985	250.0	260.6	
76 Styrene	104	9.347	9.341	0.006	95	1820064	250.0	269.1	
77 Bromoform	173	9.530	9.530	0.000	95	305575	250.0	278.9	
78 Isopropylbenzene	105	9.762	9.756	0.006	96	2818535	250.0	265.4	
79 Bromobenzene	156	10.079	10.079	0.000	97	627734	250.0	243.7	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	502162	250.0	253.1	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	157048	250.0	237.6	
82 trans-1,4-Dichloro-2-butene	53	10.176	10.170	0.006	90	153844	250.0	279.8	
83 N-Propylbenzene	91	10.244	10.237	0.007	99	3236015	250.0	264.4	
84 2-Chlorotoluene	91	10.323	10.317	0.006	95	1823817	250.0	254.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	2220113	250.0	263.2	
86 1,3,5-Trimethylbenzene	105	10.457	10.451	0.006	94	2236003	250.0	263.9	
87 tert-Butylbenzene	119	10.835	10.829	0.006	93	1904173	250.0	259.3	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	2229026	250.0	255.4	
89 sec-Butylbenzene	105	11.097	11.091	0.006	95	2788442	250.0	267.0	
90 1,3-Dichlorobenzene	146	11.201	11.194	0.007	98	1153950	250.0	251.5	
91 4-Isopropyltoluene	119	11.280	11.274	0.006	97	2343928	250.0	267.5	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	1157395	250.0	247.6	
110 1,2,3-Trimethylbenzene	105	11.390	11.383	0.007	99	2180658	250.0	261.6	
113 Benzyl chloride	126	11.475	11.475	0.000	99	212334	250.0	280.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	96	1081640	250.0	245.9	
94 n-Butylbenzene	91	11.768	11.761	0.007	98	2056899	250.0	266.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	85	76750	250.0	274.1	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	692684	250.0	257.9	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	566644	250.0	252.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	287521	250.0	263.1	
98 Naphthalene	128	13.981	13.980	0.001	97	1236700	250.0	252.7	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	452443	250.0	252.6	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		500.0	536.7	
S 102 1,3-Dichloropropene, Total	1				0		500.0	561.9	
S 100 Xylenes, Total	1				0		500.0	520.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 250.00	Units: uL

Report Date: 13-Oct-2020 18:28:03 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D

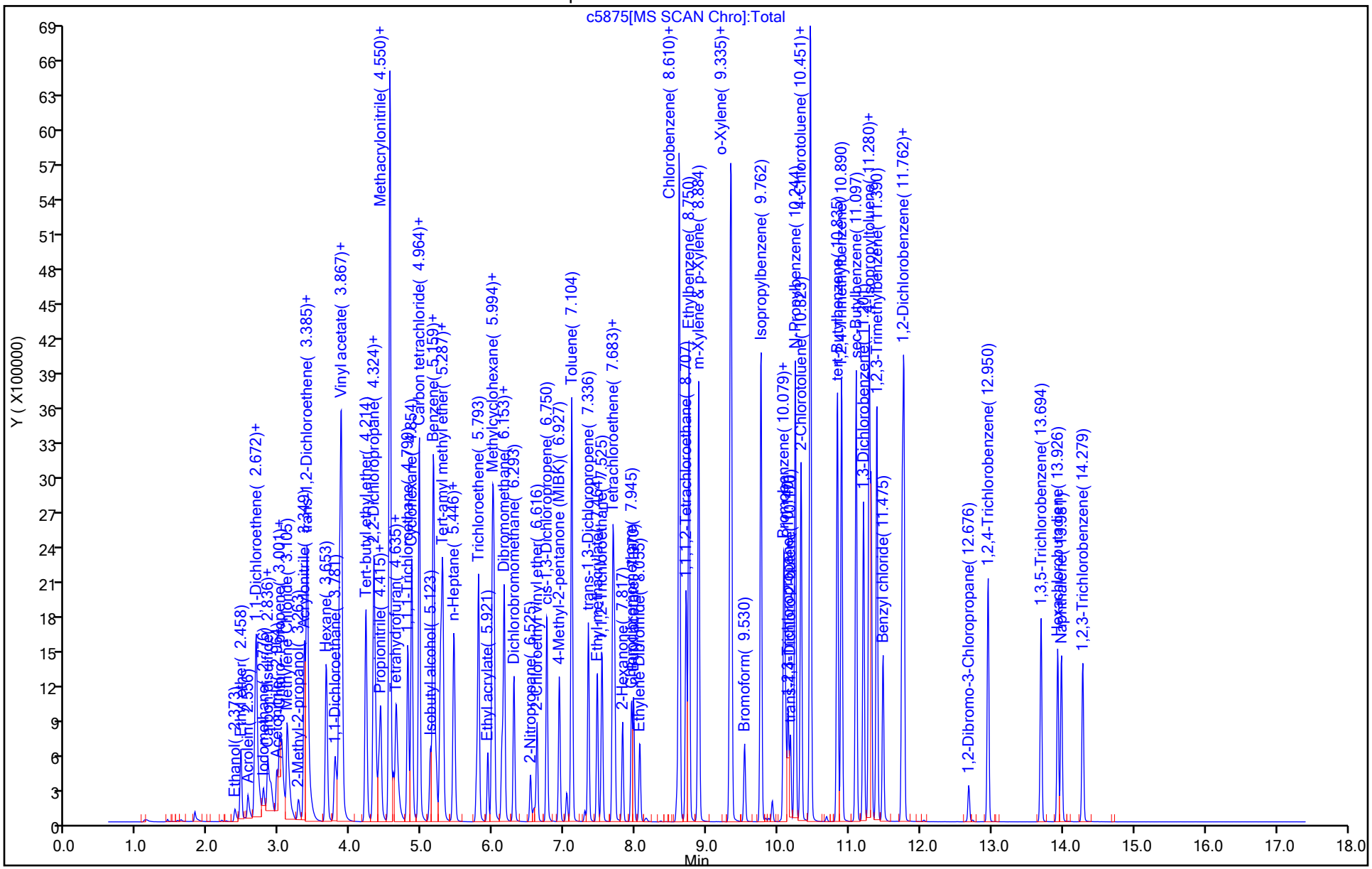
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: std11 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

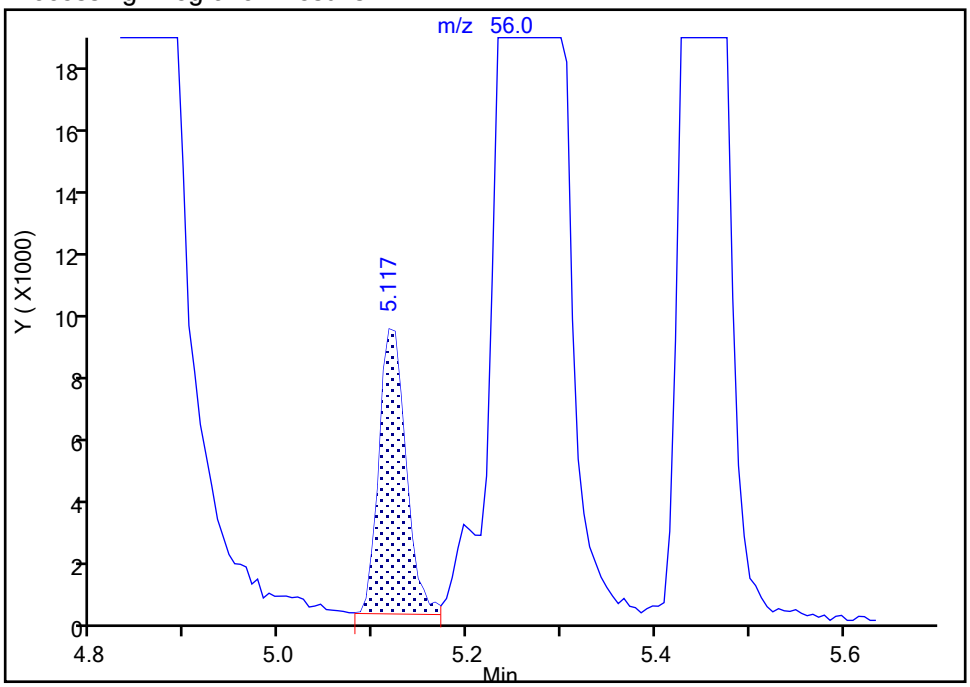
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

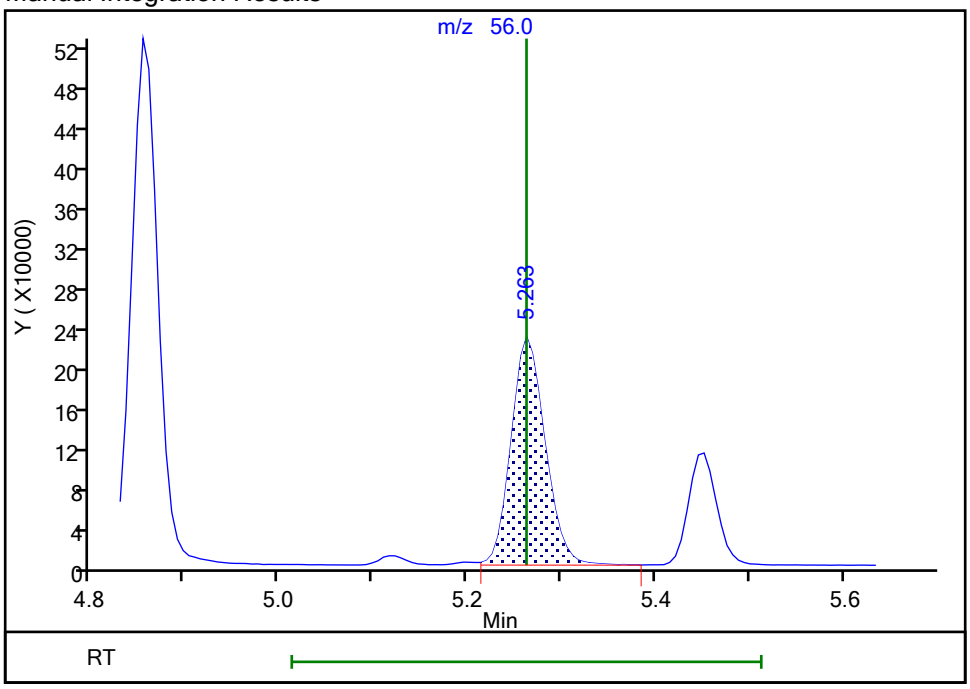
Processing Integration Results

RT: 5.12
Area: 18488
Amount: 261.5452
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 571159
Amount: 6705.2333
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:09:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

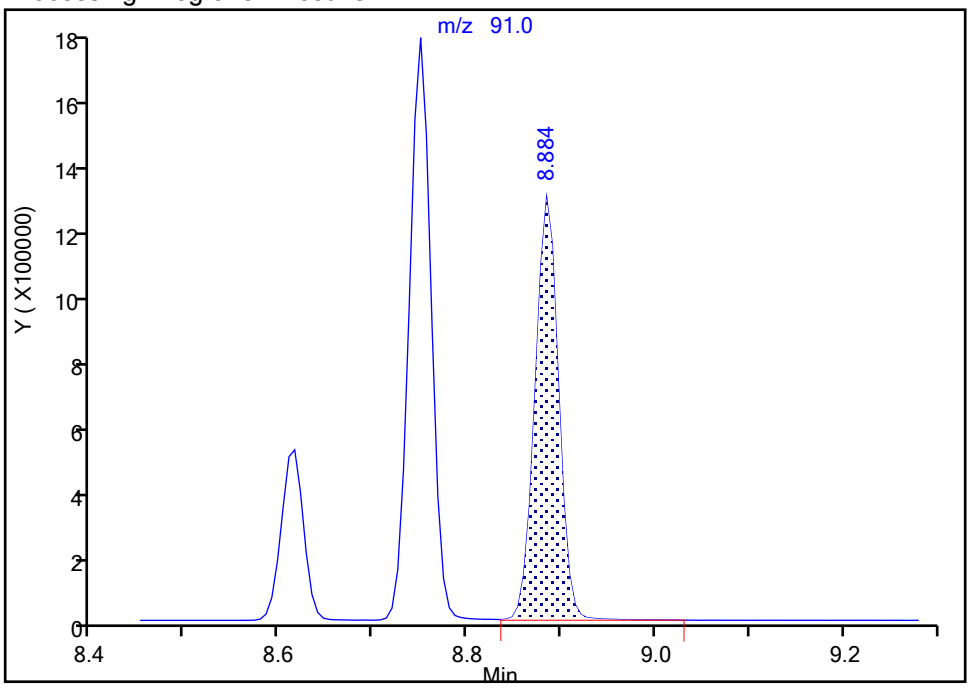
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

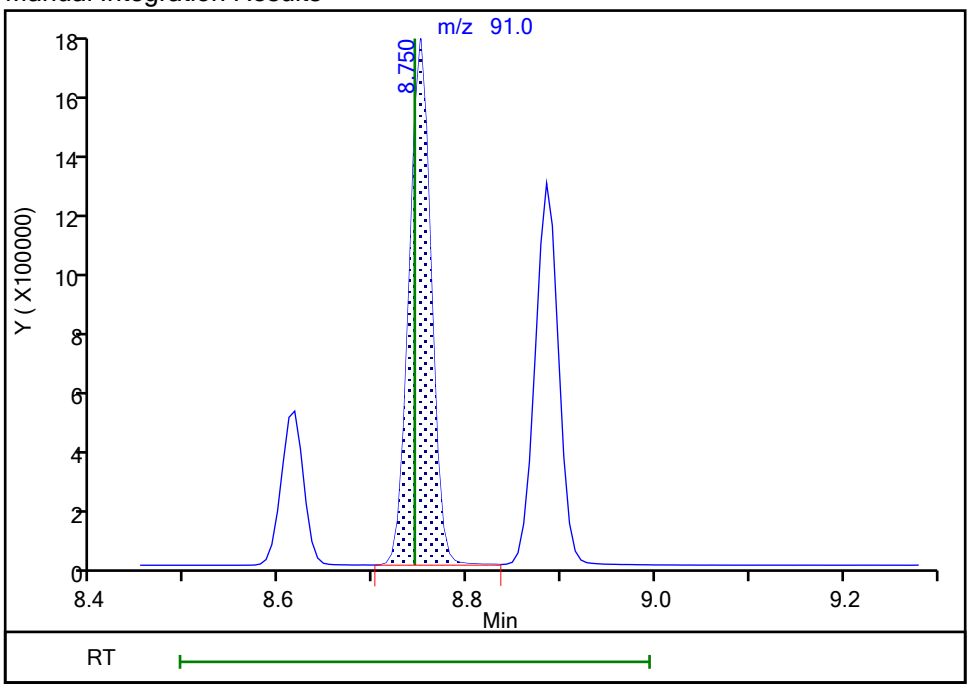
Processing Integration Results

RT: 8.88
Area: 2253626
Amount: 213.3172
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 2901779
Amount: 263.3734
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:09:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

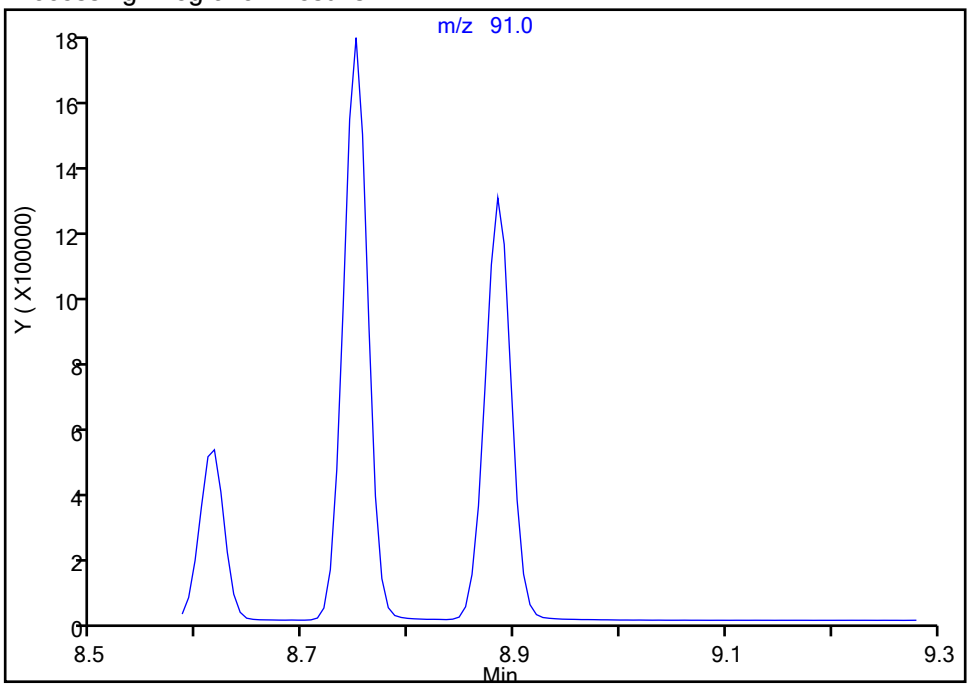
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

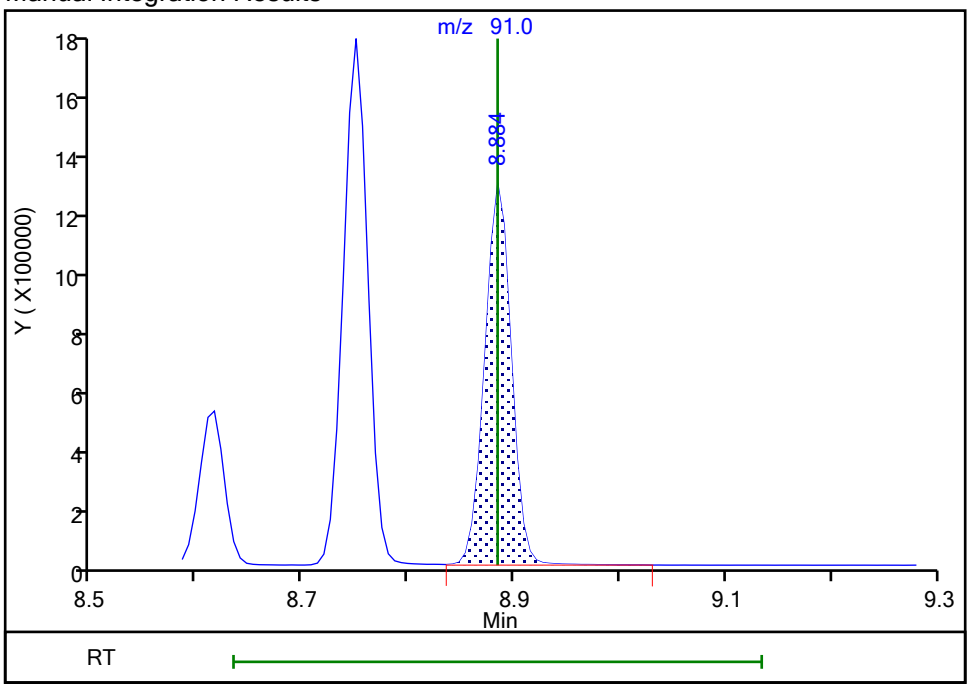
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 2253626
Amount: 260.2945
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:08:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 13-Oct-2020 12:43:30 ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:28:15 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:25:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	173049	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.104	0.012	29	10450	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	88	129499	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	47	61099	50.0	50.0	a
17 Ethanol	45	2.379	2.373	0.006	100	289149	20000	19214	
18 Ethyl ether	59	2.458	2.452	0.006	92	765976	500.0	523.6	
19 Acrolein	56	2.556	2.556	0.000	98	538297	2379.6	2418.8	
20 1,1-Dichloroethene	96	2.653	2.647	0.006	96	903993	500.0	507.8	
21 112TCTFE	101	2.678	2.666	0.012	96	994689	500.0	563.0	
22 Acetone	43	2.708	2.708	0.000	99	447694	1000.0	1018.0	
23 Iodomethane	142	2.775	2.769	0.006	98	668560	500.0	410.6	
24 Carbon disulfide	76	2.836	2.830	0.006	100	2730049	500.0	518.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	99	391322	5000.0	4799.0	
118 Acetonitrile	40	2.964	2.958	0.006	98	756184	5000.0	4523.9	a
25 3-Chloro-1-propene	76	3.001	3.001	0.000	88	601341	500.0	522.8	
26 Methyl acetate	43	3.031	3.031	0.000	98	1191325	1000.0	974.8	
27 Methylene Chloride	84	3.111	3.105	0.006	95	1002379	500.0	475.7	
35 2-Methyl-2-propanol	59	3.269	3.263	0.006	99	543563	5000.0	4710.1	
30 Acrylonitrile	53	3.355	3.342	0.013	99	3246937	5000.0	5195.4	
28 trans-1,2-Dichloroethene	96	3.385	3.373	0.012	95	1076950	500.0	530.4	
29 Methyl tert-butyl ether	73	3.391	3.385	0.006	97	2588342	500.0	549.5	
31 Hexane	57	3.653	3.653	0.000	95	1459703	500.0	530.1	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	96	2020287	500.0	530.5	
33 Vinyl acetate	86	3.842	3.836	0.006	98	420294	1000.0	1114.4	
34 2-Chloro-1,3-butadiene	53	3.861	3.854	0.007	95	2116590	500.0	574.7	
36 Isopropyl ether	87	3.873	3.867	0.006	90	970817	500.0	523.5	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	98	3278675	500.0	550.7	
38 2,2-Dichloropropane	77	4.330	4.318	0.012	92	1737091	500.0	578.2	
39 cis-1,2-Dichloroethene	96	4.336	4.324	0.012	89	1190436	500.0	512.3	
40 2-Butanone (MEK)	43	4.348	4.342	0.006	100	682199	1000.0	941.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.403	4.391	0.012	99	1208385	5000.0	4862.6	
104 Ethyl acetate	61	4.421	4.415	0.006	100	329929	1000.0	1159.6	
43 Methacrylonitrile	67	4.562	4.543	0.019	93	3737625	5000.0	5069.9	
42 Chlorobromomethane	128	4.556	4.549	0.007	95	437534	500.0	450.7	
44 Tetrahydrofuran	71	4.604	4.598	0.006	80	177100	1000.0	1026.7	
45 Chloroform	83	4.641	4.629	0.012	97	1934707	500.0	485.7	
46 1,1,1-Trichloroethane	97	4.805	4.793	0.012	98	1853831	500.0	567.8	
47 Cyclohexane	56	4.860	4.848	0.012	94	2156428	500.0	553.8	
48 Carbon tetrachloride	117	4.964	4.958	0.006	88	1646053	500.0	582.7	
49 1,1-Dichloropropene	75	4.964	4.958	0.006	89	1628010	500.0	532.7	
108 Isobutyl alcohol	43	5.129	5.116	0.013	94	747062	12500	12120	
50 Benzene	78	5.159	5.153	0.006	98	4666102	500.0	521.8	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	98	1515161	500.0	535.4	
116 n-Butanol	56	5.269	5.263	0.006	58	1155461	12500	13293	a
52 Tert-amyl methyl ether	73	5.293	5.287	0.006	97	2860395	500.0	533.0	
53 n-Heptane	43	5.452	5.446	0.006	94	1429890	500.0	514.4	
54 Trichloroethene	95	5.793	5.793	0.000	97	1228959	500.0	537.7	
117 Ethyl acrylate	55	5.927	5.921	0.006	99	1192229	500.0	551.9	
114 Methylcyclohexane	83	5.994	5.988	0.006	94	1994384	500.0	531.4	
55 1,2-Dichloropropane	63	6.019	6.006	0.013	92	1159412	500.0	530.9	
56 Dibromomethane	93	6.128	6.116	0.012	96	530577	500.0	457.3	
115 1,4-Dioxane	58	6.159	6.153	0.006	96	126094	10000	0	
57 Methyl methacrylate	69	6.159	6.153	0.006	91	1296121	1000.0	1043.0	
58 Dichlorobromomethane	83	6.293	6.287	0.006	98	1493680	500.0	566.4	
106 2-Nitropropane	43	6.525	6.519	0.006	99	582837	1000.0	1521.5	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	655456	500.0	541.1	
60 cis-1,3-Dichloropropene	75	6.756	6.750	0.006	92	1837353	500.0	581.9	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.927	0.006	98	1694170	1000.0	1015.1	
62 Toluene	92	7.104	7.098	0.006	98	3100949	500.0	509.9	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	98	1677728	500.0	542.6	
64 Ethyl methacrylate	69	7.464	7.457	0.007	90	1252335	500.0	527.2	
65 1,1,2-Trichloroethane	83	7.531	7.524	0.007	94	755043	500.0	520.0	
66 Tetrachloroethene	166	7.683	7.677	0.006	93	1237748	500.0	494.2	
67 1,3-Dichloropropane	76	7.707	7.701	0.006	95	1574200	500.0	505.9	
68 2-Hexanone	43	7.823	7.817	0.006	98	1114548	1000.0	1022.1	
69 Chlorodibromomethane	129	7.945	7.939	0.006	93	1068212	500.0	551.3	
109 n-Butyl acetate	43	7.976	7.969	0.007	98	1440031	500.0	503.9	
70 Ethylene Dibromide	107	8.061	8.055	0.006	98	905817	500.0	506.0	
71 Chlorobenzene	112	8.616	8.610	0.006	89	3151533	500.0	485.4	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.707	0.006	94	1096544	500.0	522.2	
73 Ethylbenzene	91	8.756	8.744	0.012	98	5818033	500.0	511.9	a
74 m-Xylene & p-Xylene	106	8.890	8.884	0.006	98	2235485	500.0	505.2	a
75 o-Xylene	106	9.335	9.323	0.012	98	2145850	500.0	509.5	
76 Styrene	104	9.347	9.341	0.006	95	3655260	500.0	524.0	
77 Bromoform	173	9.530	9.530	0.000	95	643252	500.0	569.1	
78 Isopropylbenzene	105	9.762	9.756	0.006	97	5652838	500.0	516.0	
79 Bromobenzene	156	10.085	10.079	0.006	97	1253773	500.0	471.8	
80 1,1,2,2-Tetrachloroethane	83	10.109	10.103	0.006	97	1017959	500.0	497.3	
81 1,2,3-Trichloropropane	110	10.146	10.140	0.006	86	314907	500.0	461.9	
82 trans-1,4-Dichloro-2-butene	53	10.176	10.170	0.006	90	325722	500.0	574.4	
83 N-Propylbenzene	91	10.250	10.237	0.013	99	6476857	500.0	513.1	
84 2-Chlorotoluene	91	10.329	10.317	0.012	95	3741652	500.0	506.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.457	10.451	0.006	99	4481390	500.0	515.1	
86 1,3,5-Trimethylbenzene	105	10.463	10.451	0.012	94	4515326	500.0	516.5	
87 tert-Butylbenzene	119	10.835	10.829	0.006	93	3830382	500.0	505.6	
88 1,2,4-Trimethylbenzene	105	10.896	10.890	0.006	98	4529742	500.0	503.2	
89 sec-Butylbenzene	105	11.103	11.091	0.012	95	5600030	500.0	519.7	
90 1,3-Dichlorobenzene	146	11.207	11.194	0.013	97	2322712	500.0	490.7	
91 4-Isopropyltoluene	119	11.286	11.274	0.012	97	4701903	500.0	517.0	
92 1,4-Dichlorobenzene	146	11.310	11.304	0.006	93	2327243	500.0	479.7	
110 1,2,3-Trimethylbenzene	105	11.396	11.383	0.013	99	4453213	500.0	514.6	
113 Benzyl chloride	126	11.481	11.475	0.006	99	449904	500.0	571.6	
93 1,2-Dichlorobenzene	146	11.749	11.743	0.006	96	2186474	500.0	478.9	
94 n-Butylbenzene	91	11.774	11.761	0.013	98	4142334	500.0	517.3	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	84	165970	500.0	571.0	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	1392929	500.0	499.6	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	96	1124797	500.0	483.0	
97 Hexachlorobutadiene	225	13.932	13.926	0.006	97	563478	500.0	496.8	
98 Naphthalene	128	13.981	13.980	0.001	97	2444812	500.0	481.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	890617	500.0	479.1	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		1000.0	1042.7	
S 102 1,3-Dichloropropene, Total	1				0		1000.0	1124.5	
S 100 Xylenes, Total	1				0		1000.0	1014.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

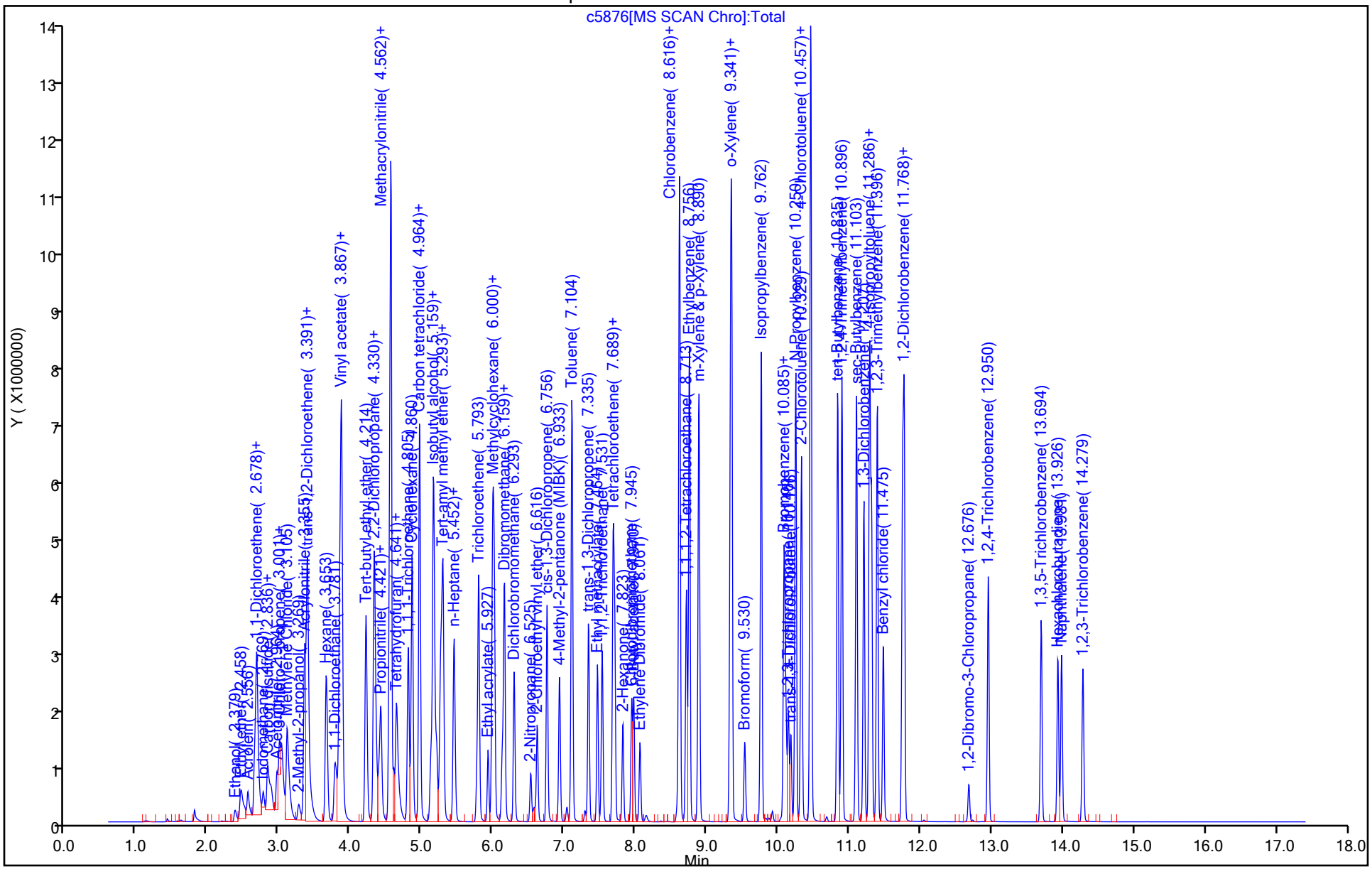
VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 500.00	Units: uL

Report Date: 13-Oct-2020 18:28:18 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Injection Date:	13-Oct-2020 12:43:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std12			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

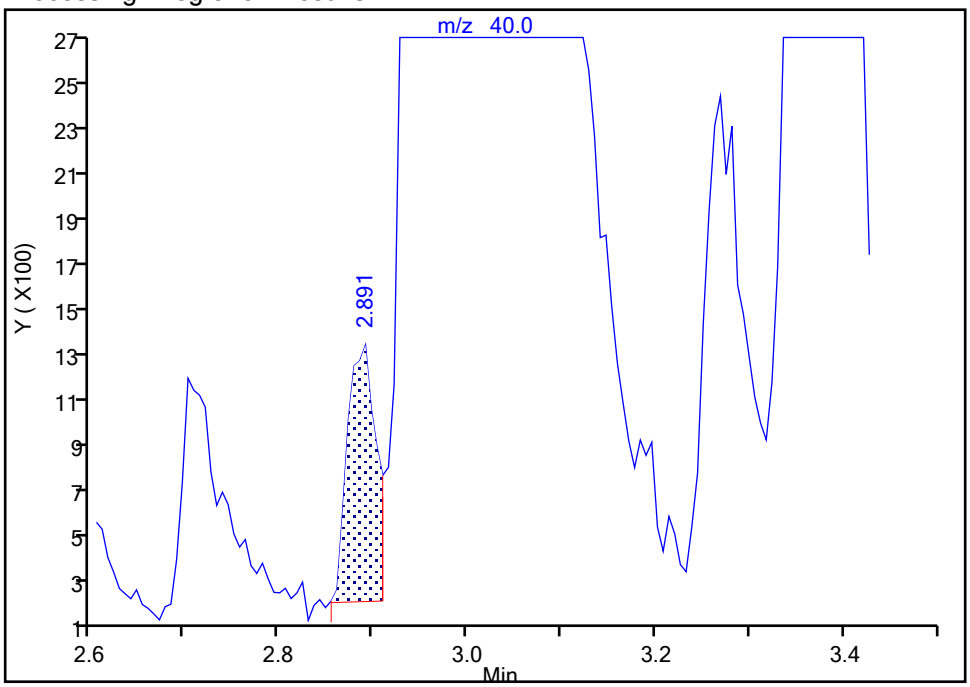
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

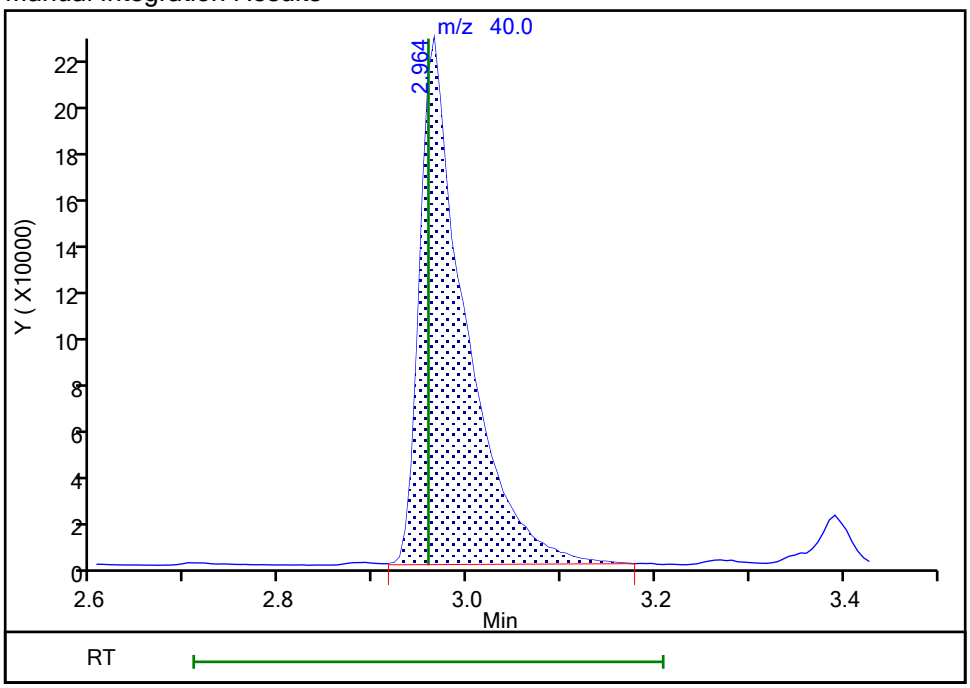
Processing Integration Results

RT: 2.89
Area: 2400
Amount: 15.167908
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 756184
Amount: 4523.9214
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

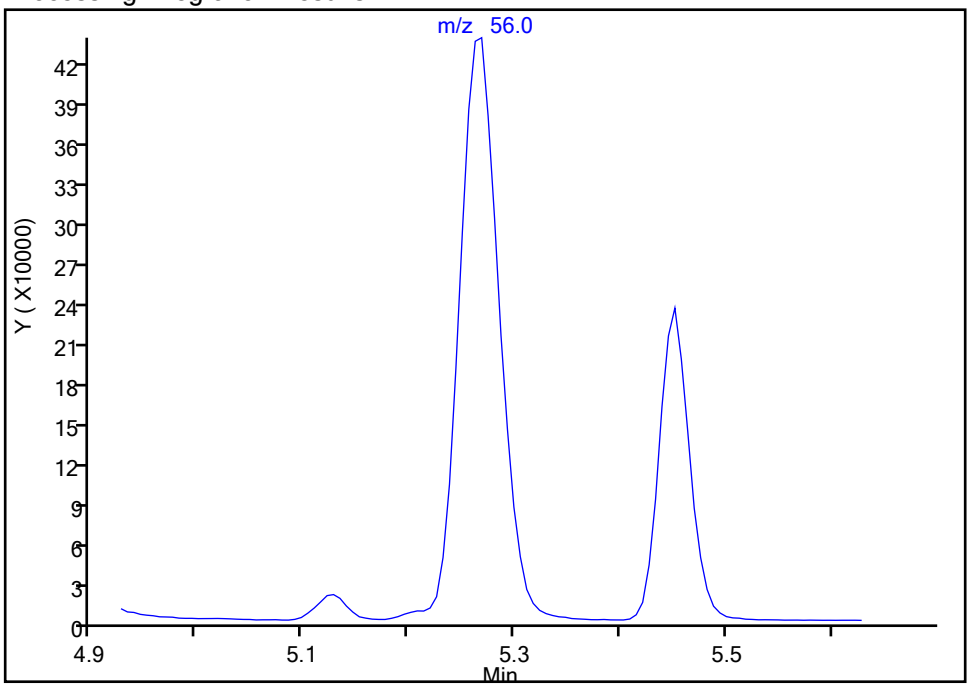
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

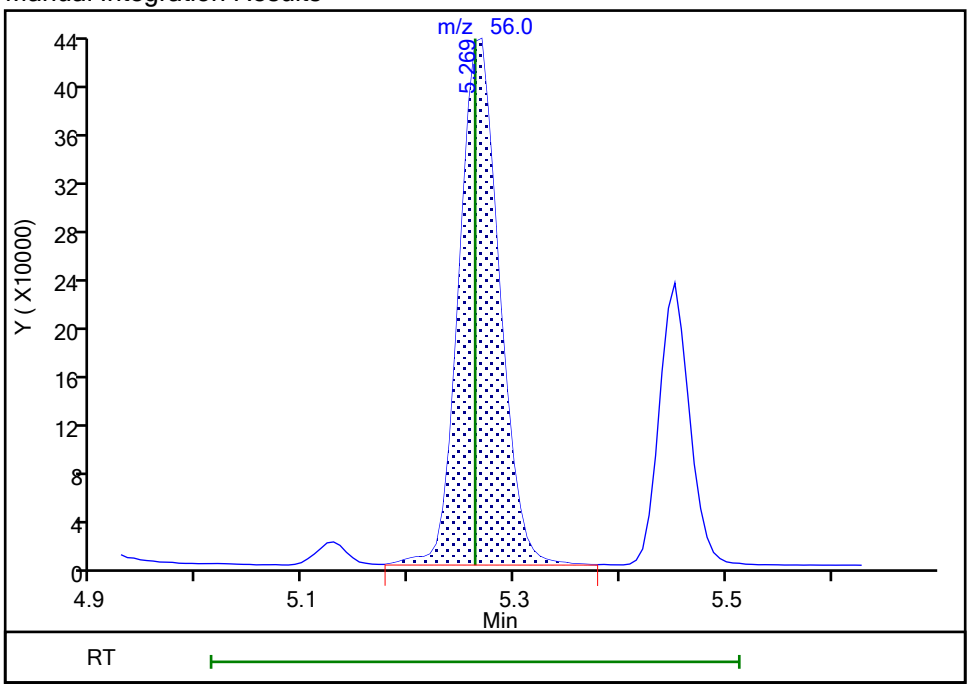
Not Detected
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.27
Area: 1155461
Amount: 13293
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

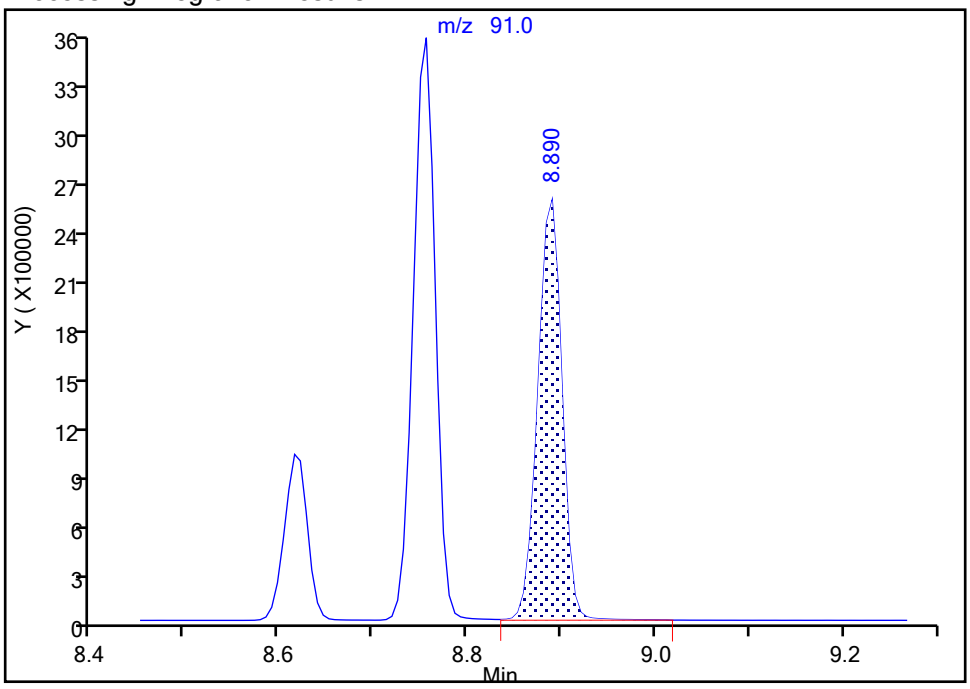
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

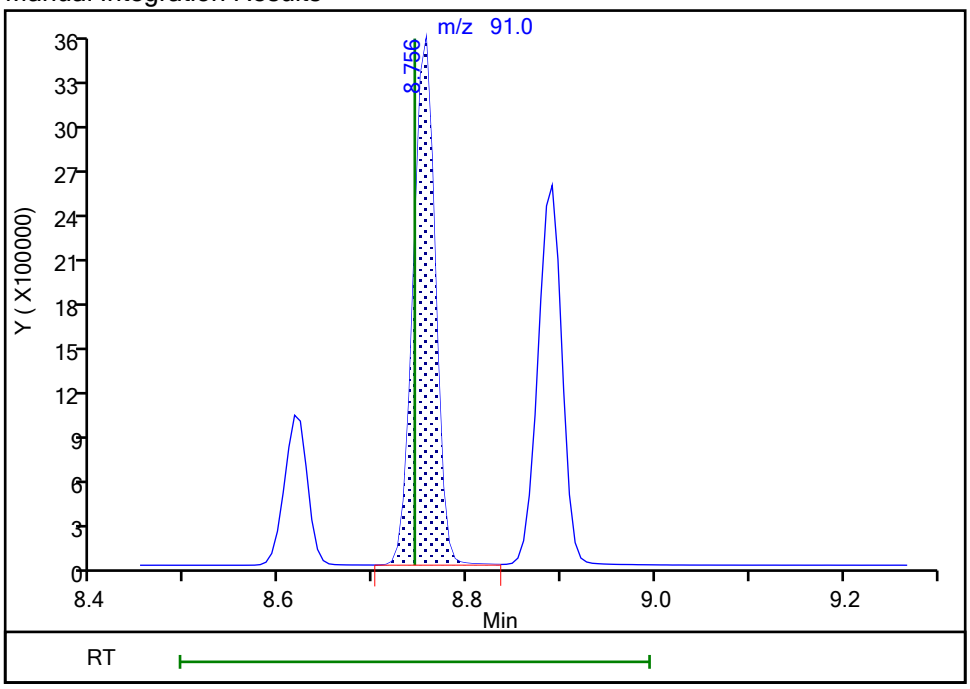
Processing Integration Results

RT: 8.89
Area: 4578359
Amount: 410.9254
Amount Units: ug/l



Manual Integration Results

RT: 8.76
Area: 5818033
Amount: 511.8883
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

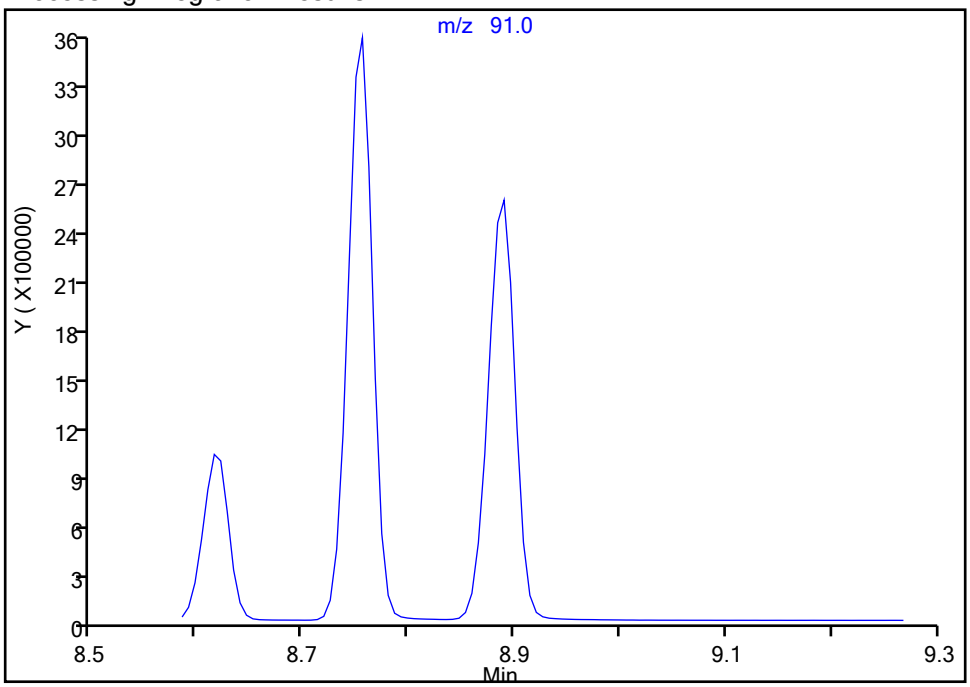
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

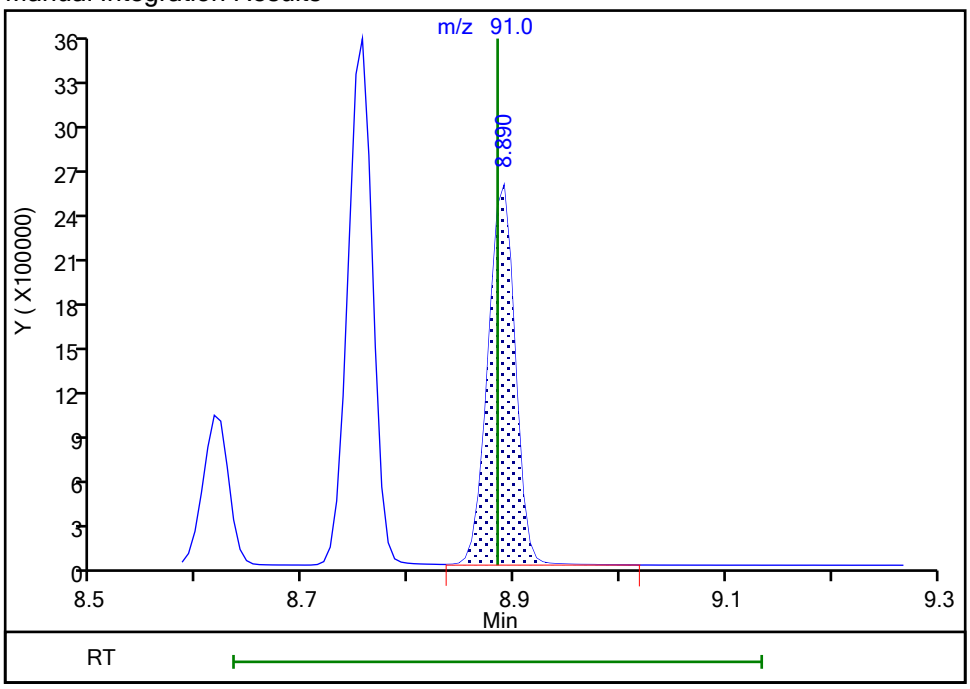
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.89
Area: 4578359
Amount: 505.2294
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

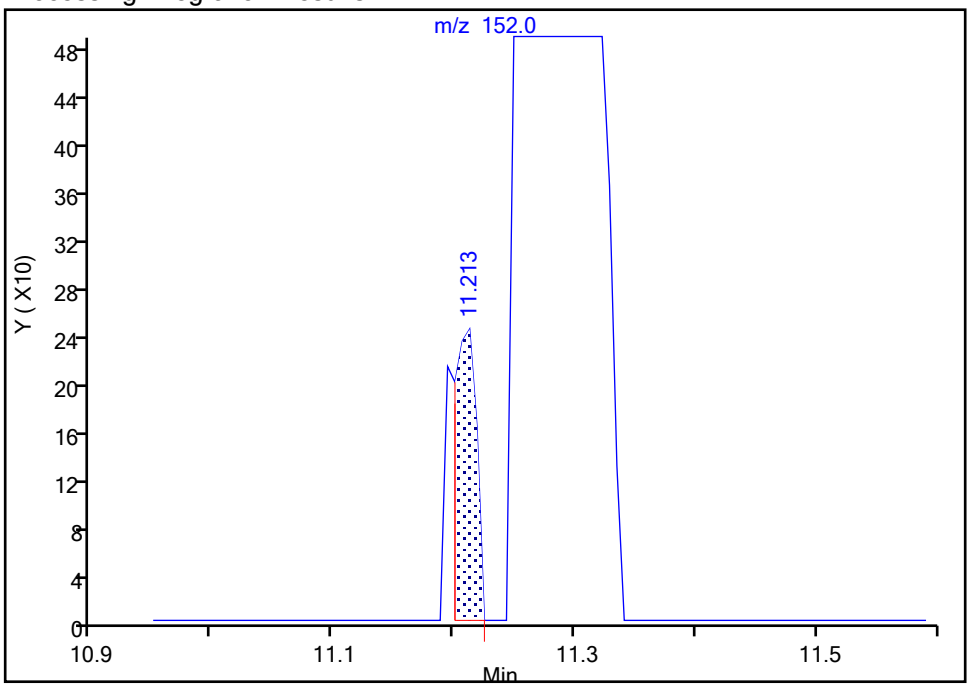
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

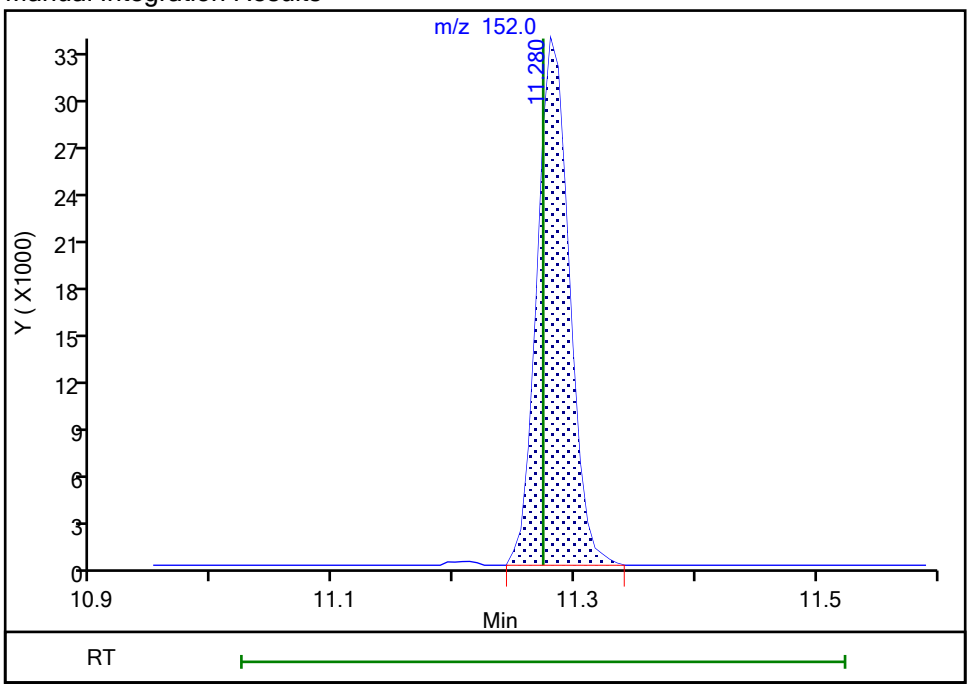
Processing Integration Results

RT: 11.21
Area: 303
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 11.28
Area: 61099
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/23	c5903.D
Level 2	STD2 310-295162/24	c5904.D
Level 3	STD3 310-295162/25	c5905.D
Level 4	STD4 310-295162/26	c5906.D
Level 5	STD5 310-295162/27	c5907.D
Level 6	STD6 310-295162/28	c5908.D
Level 7	STD7 310-295162/29	c5910.D
Level 8	STD8 310-295162/30	c5911.D
Level 9	STD9 310-295162/31	c5912.D
Level 10	STD10 310-295162/32	c5913.D
Level 11	STD11 310-295162/33	c5914.D
Level 12	STD12 310-295162/34	c5915.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.9275 1.0084 1.0198	0.8764 1.1814 0.9245	0.9834 1.2033	0.9855 1.1142	0.9541 1.0928	Ave		1.0226			0.1000	10.2		20.0			
Chloromethane	0.7387 0.7043 0.7719	0.7626 0.7480 0.6887	0.7934 0.8548	0.7430 0.7810	0.6780 0.7792	Ave		0.7536			0.1000	6.5		20.0			
Vinyl chloride	0.8038 0.8530 0.9722	0.8303 1.0059 0.8760	0.9380 1.0425	0.8992 0.9899	0.8568 0.9889	Ave		0.9214			0.1000	8.5		20.0			
1,3-Butadiene	0.7973 0.8708 1.0026	0.7369 1.0597 0.8992	0.9600 1.0947	0.8624 1.0362	0.8242 1.0416	Ave		0.9321				12.5		20.0			
Bromomethane	+++++ 0.2877 +++++	0.1517 +++++ +++++	0.1965 +++++	0.2161 +++++	0.2388 +++++	Lin2	-0.120	0.2637			0.1000	8.4			0.9910		0.9900
Chloroethane	0.4854 0.4938 0.5638	0.5121 0.5644 0.5185	0.5421 0.5923	0.4943 0.5711	0.4860 0.5723	Ave		0.5330			0.1000	7.3		20.0			
Dichlorofluoromethane	1.1380 1.1592 1.3495	1.1905 1.3590 1.2368	1.3162 1.4100	1.2378 1.3587	1.1766 1.3711	Ave		1.2753				7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Trichlorofluoromethane	1.0107 1.1304 1.3029	0.9471 1.3363 1.1998	1.1779 1.4447	1.1626 1.3608	1.1662 1.3823	Ave		1.2185			0.1000	12.4		20.0			
Dibromofluoromethane (Surr)	0.2260 0.2244 0.2238	0.2232 0.2260 0.2225	0.2175 0.2337	0.2222 0.2260	0.2184 0.2256	Ave		0.2241				1.9		20.0			
Toluene-d8 (Surr)	1.2994 1.2765 1.2719	1.2696 1.2898 1.2728	1.2901 1.2639	1.3035 1.2725	1.2818 1.2916	Ave		1.2819				1.0		20.0			
4-Bromofluorobenzene (Surr)	0.8386 0.8203 0.8434	0.7971 0.8197 0.8032	0.8284 0.8044	0.8294 0.8229	0.7936 0.8151	Ave		0.8180				1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/23	c5903.D
Level 2	STD2 310-295162/24	c5904.D
Level 3	STD3 310-295162/25	c5905.D
Level 4	STD4 310-295162/26	c5906.D
Level 5	STD5 310-295162/27	c5907.D
Level 6	STD6 310-295162/28	c5908.D
Level 7	STD7 310-295162/29	c5910.D
Level 8	STD8 310-295162/30	c5911.D
Level 9	STD9 310-295162/31	c5912.D
Level 10	STD10 310-295162/32	c5913.D
Level 11	STD11 310-295162/33	c5914.D
Level 12	STD12 310-295162/34	c5915.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	1582 71642 835806	2964 195526 1645643	6625 387602	13191 548898	33695 706075	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Chloromethane	FB	Ave	1260 50038 632652	2579 123795 1225891	5345 275364	9945 384771	23945 503467	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Vinyl chloride	FB	Ave	1371 60599 796841	2808 166484 1559191	6319 335812	12037 487670	30256 638917	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
1,3-Butadiene	FB	Ave	1360 61863 821757	2492 175377 1600618	6467 352639	11544 510454	29106 672992	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Bromomethane	FB	Lin2	+++++ 20437 +++++	513 +++++ +++++	1324 +++++	2893 +++++	8433 +++++	+++++ 20.0 +++++	1.00 +++++ +++++	2.00 +++++	4.00 +++++	10.0 +++++
Chloroethane	FB	Ave	828 35084 462122	1732 93407 922989	3652 190791	6617 281347	17163 369768	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Dichlorofluoromethane	FB	Ave	1941 82355 1106051	4026 224917 2201455	8867 454200	16569 669367	41553 885885	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Trichlorofluoromethane	FB	Ave	1724 80306 1067839	3203 221164 2135680	7935 465362	15562 670399	41185 893108	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dibromofluoromethane (Surr)	FB	Ave	38546	37739	36630	37176	38558	50.0	50.0	50.0	50.0	50.0
			39853	37400	37645	37110	36438	50.0	50.0	50.0	50.0	50.0
			36679	39597				50.0	50.0			
Toluene-d8 (Surr)	CBNZ d5	Ave	166595	164920	163258	162720	171682	50.0	50.0	50.0	50.0	50.0
			174678	160880	156890	159993	157762	50.0	50.0	50.0	50.0	50.0
			158191	173981				50.0	50.0			
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	49714	48717	49118	49121	50266	50.0	50.0	50.0	50.0	50.0
			52415	47751	46900	47939	48279	50.0	50.0	50.0	50.0	50.0
			49152	52414				50.0	50.0			

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/23	c5903.D
Level 2	STD2 310-295162/24	c5904.D
Level 3	STD3 310-295162/25	c5905.D
Level 4	STD4 310-295162/26	c5906.D
Level 5	STD5 310-295162/27	c5907.D
Level 6	STD6 310-295162/28	c5908.D
Level 7	STD7 310-295162/29	c5910.D
Level 8	STD8 310-295162/30	c5911.D
Level 9	STD9 310-295162/31	c5912.D
Level 10	STD10 310-295162/32	c5913.D
Level 11	STD11 310-295162/33	c5914.D
Level 12	STD12 310-295162/34	c5915.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Dichlorodifluoromethane	-9.3						40					
Chloromethane	-2.0						40					
Vinyl chloride	-12.8						40					
1,3-Butadiene	-14.5						40					
Bromomethane	+++++ +++++	3.0 +++++	+++++	+++++	+++++	+++++		40				
Chloroethane	-8.9						40					
Dichlorofluoromethane	-10.8						40					
Trichlorofluoromethane	-17.0						40					

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Oct-2020 04:42:30 ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:04 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:54:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	170569	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	6041	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	128206	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59284	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	38546	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	166595	50.0	50.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	86	49714	50.0	51.3	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	27	1582	0.5000	0.4535	M
10 Chloromethane	50	1.520	1.526	-0.006	26	1260	0.5000	0.4901	M
11 Vinyl chloride	62	1.556	1.532	0.024	90	1371	0.5000	0.4362	M
12 Butadiene	54	1.574	1.568	0.006	86	1360	0.5000	0.4277	M
14 Chloroethane	64	1.922	1.910	0.012	17	828	0.5000	0.4554	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	93	1941	0.5000	0.4462	M
13 Bromomethane	94	1.849	2.166	-0.317	1	209	0.5000	0.6868	M
16 Trichlorofluoromethane	101	2.178	2.166	0.012	30	1724	0.5000	0.4148	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

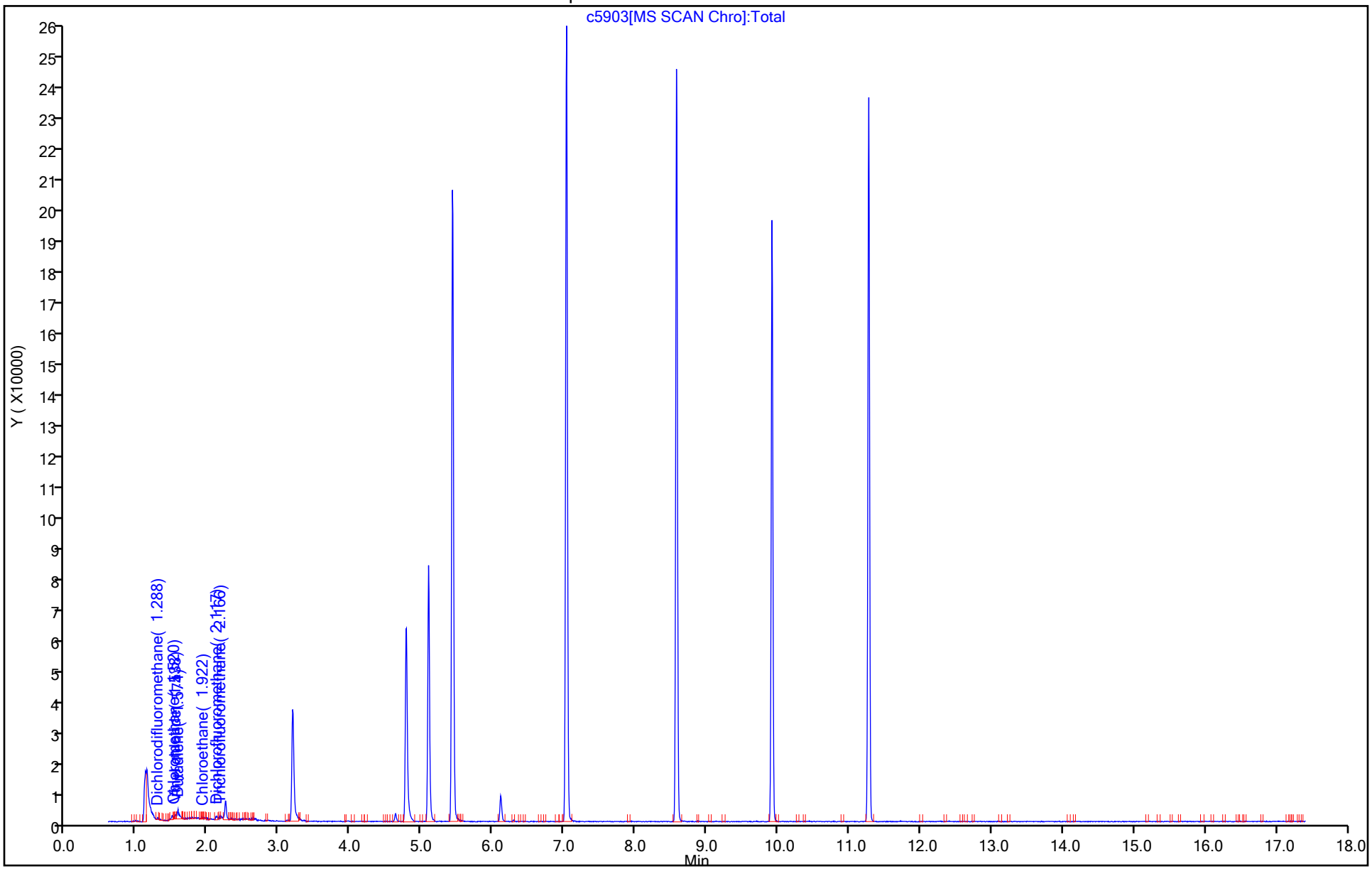
VV_I_GASES_00409 Amount Added: 0.50 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:04 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D

Injection Date:	14-Oct-2020 04:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std1			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

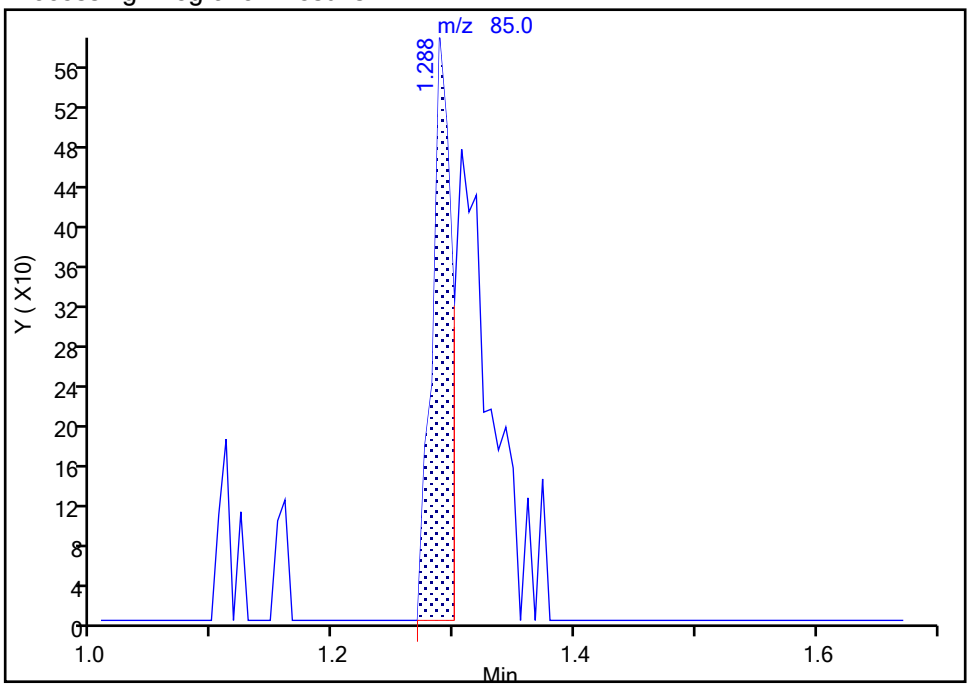
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

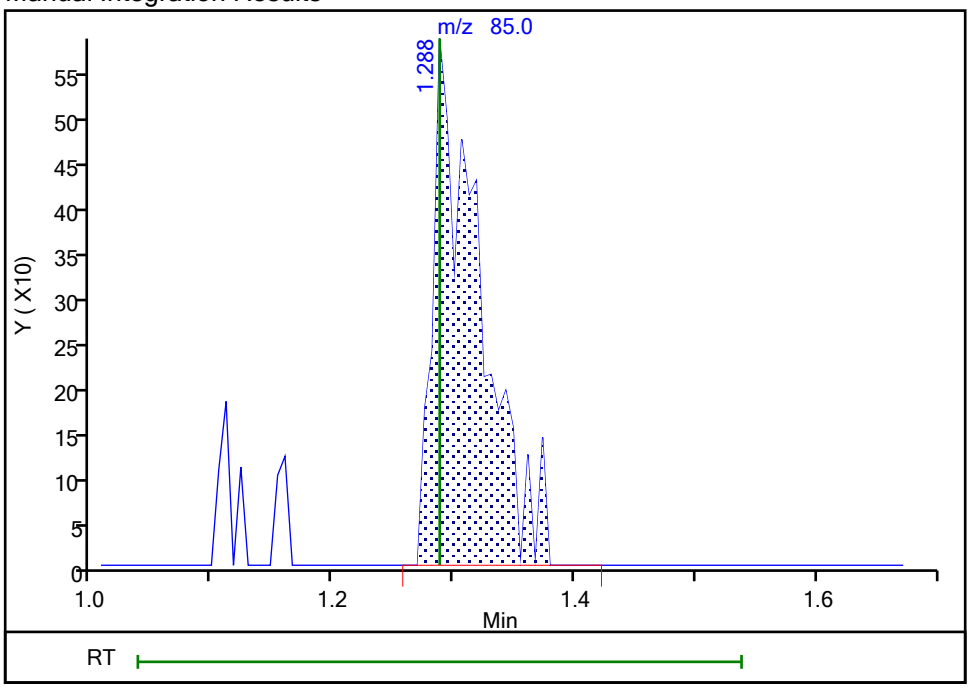
Processing Integration Results

RT: 1.29
Area: 662
Amount: 0.244710
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 1582
Amount: 0.453488
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:54:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

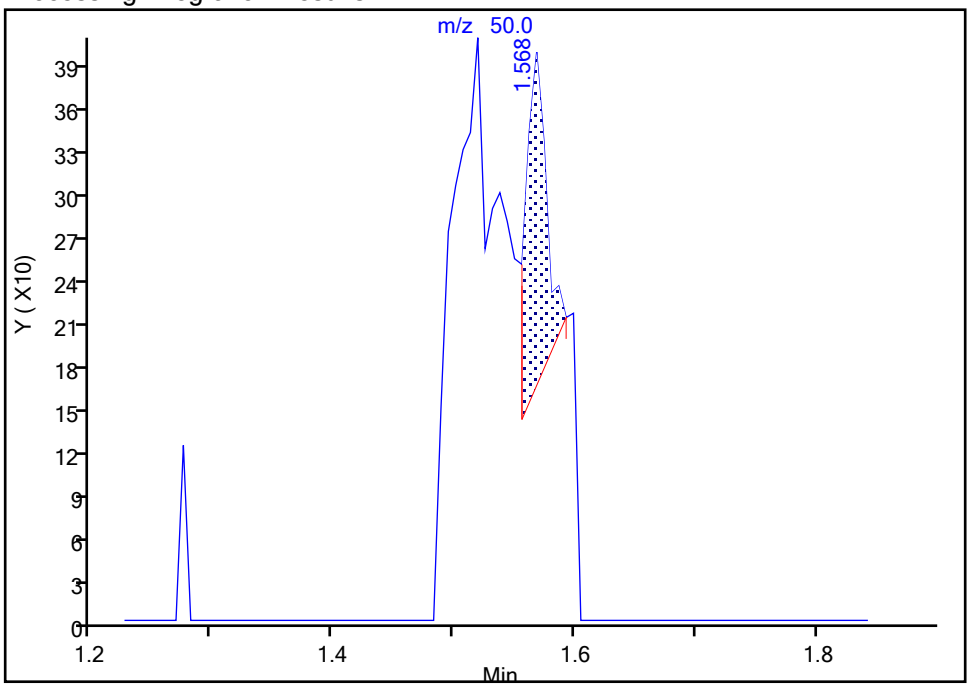
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

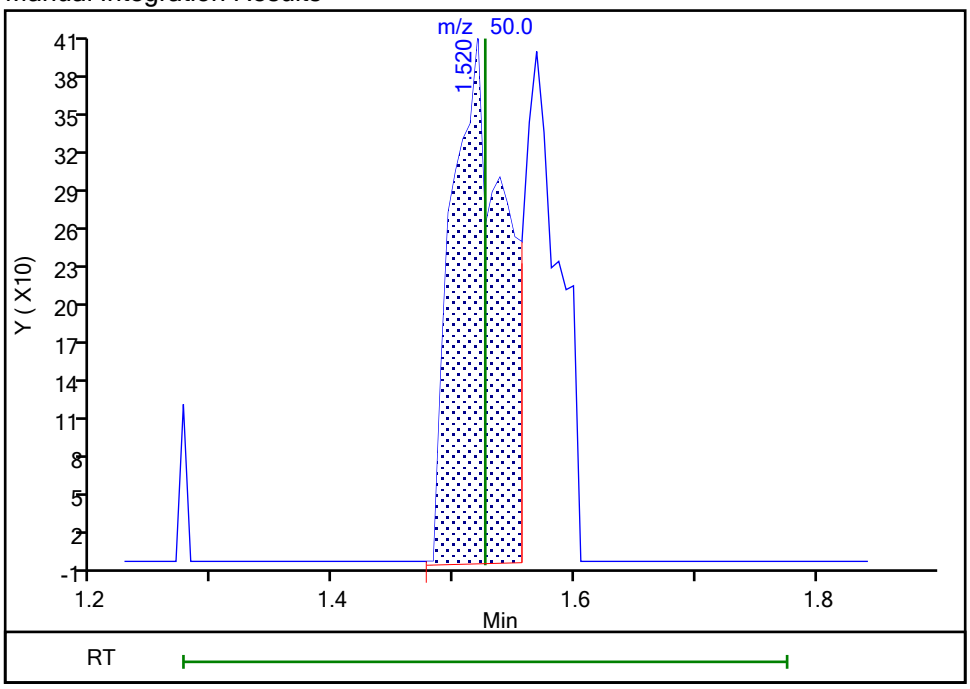
Processing Integration Results

RT: 1.57
Area: 279
Amount: 0.210239
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 1260
Amount: 0.490087
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:54:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

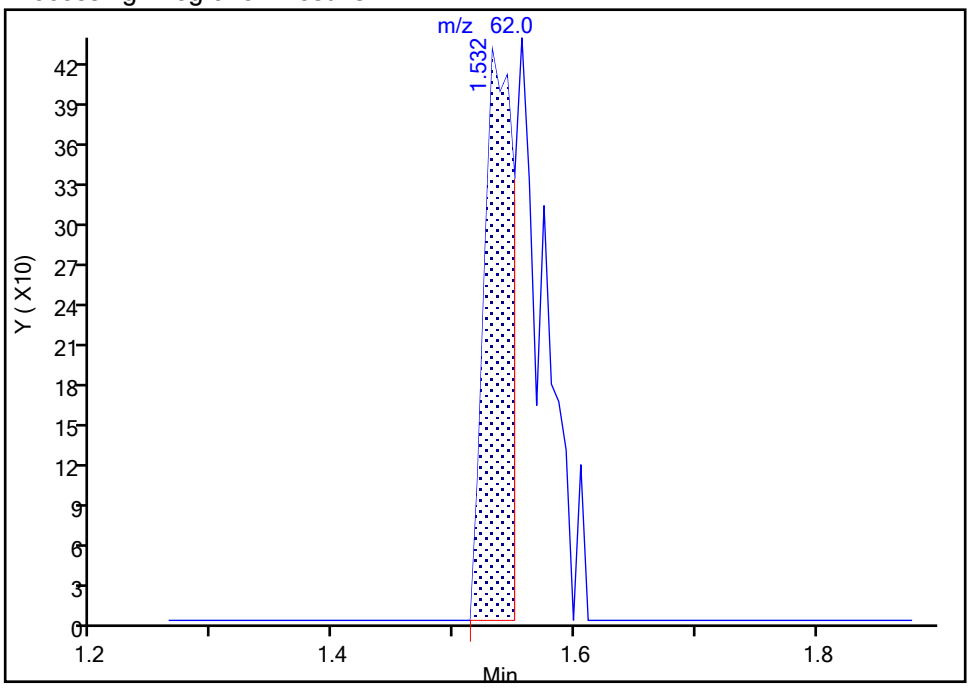
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

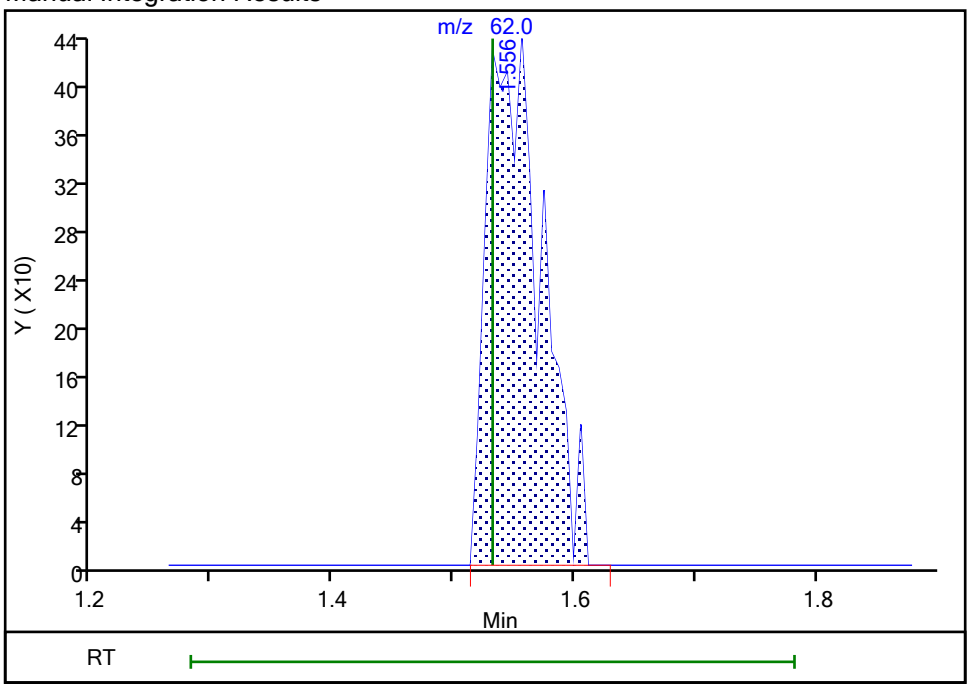
Processing Integration Results

RT: 1.53
Area: 708
Amount: 0.275952
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 1371
Amount: 0.436187
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

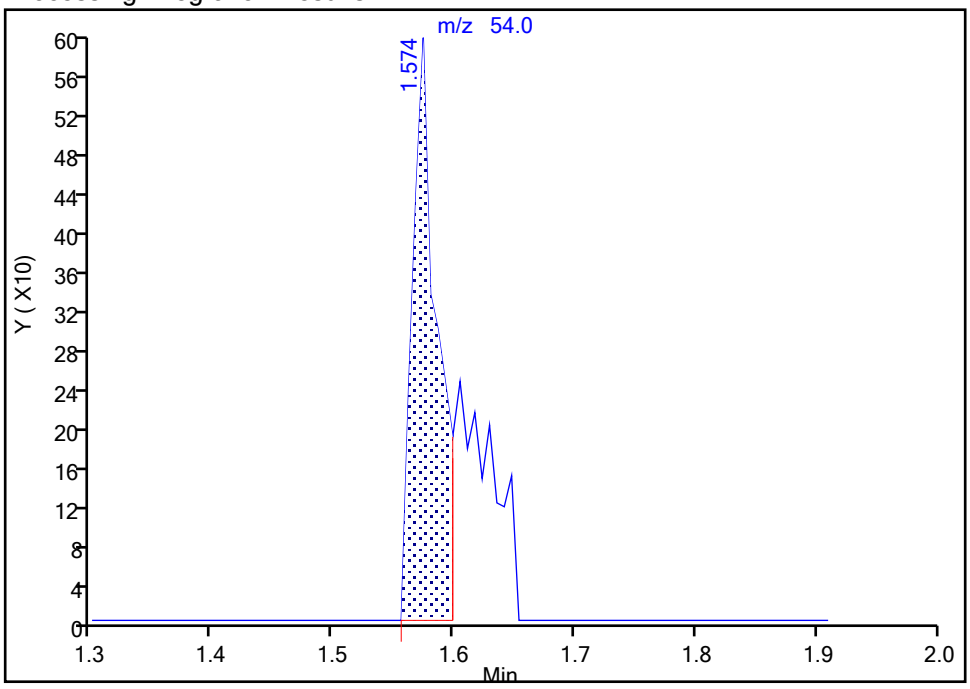
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

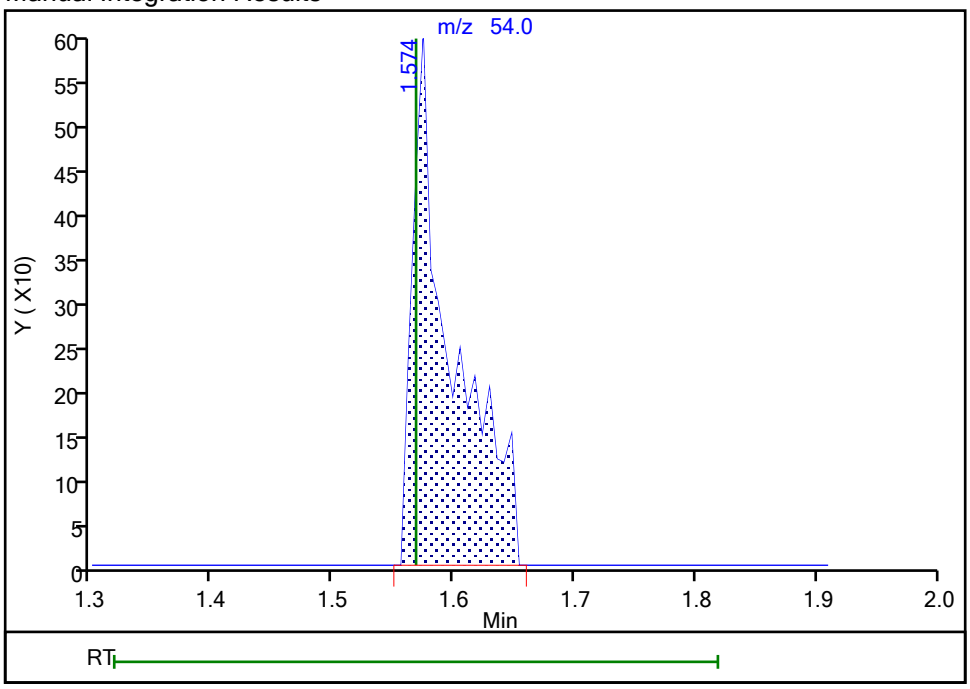
Processing Integration Results

RT: 1.57
Area: 859
Amount: 0.360772
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 1360
Amount: 0.427693
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

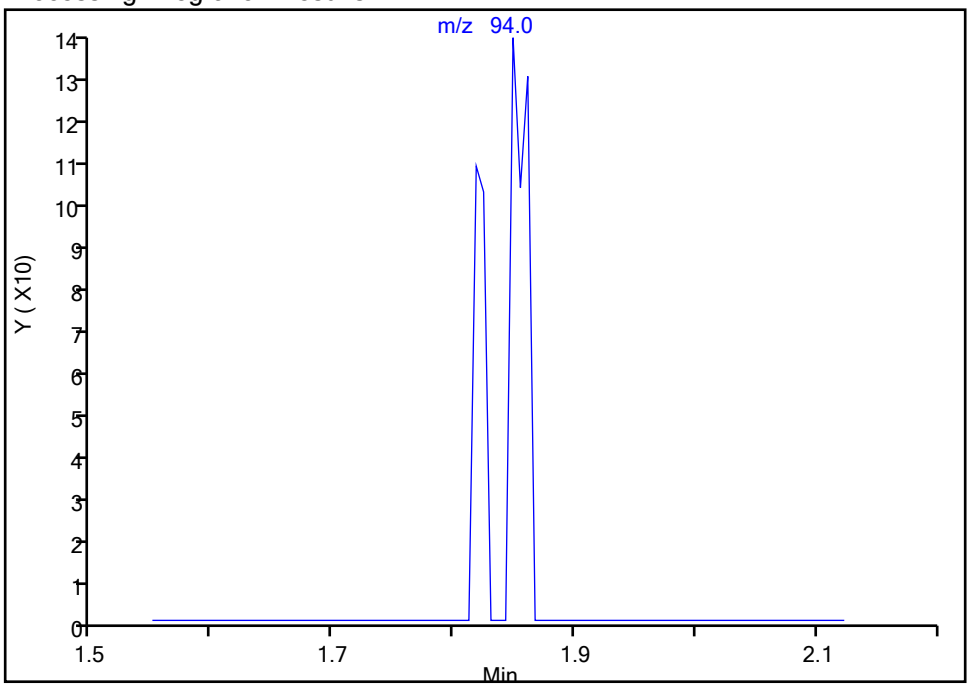
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

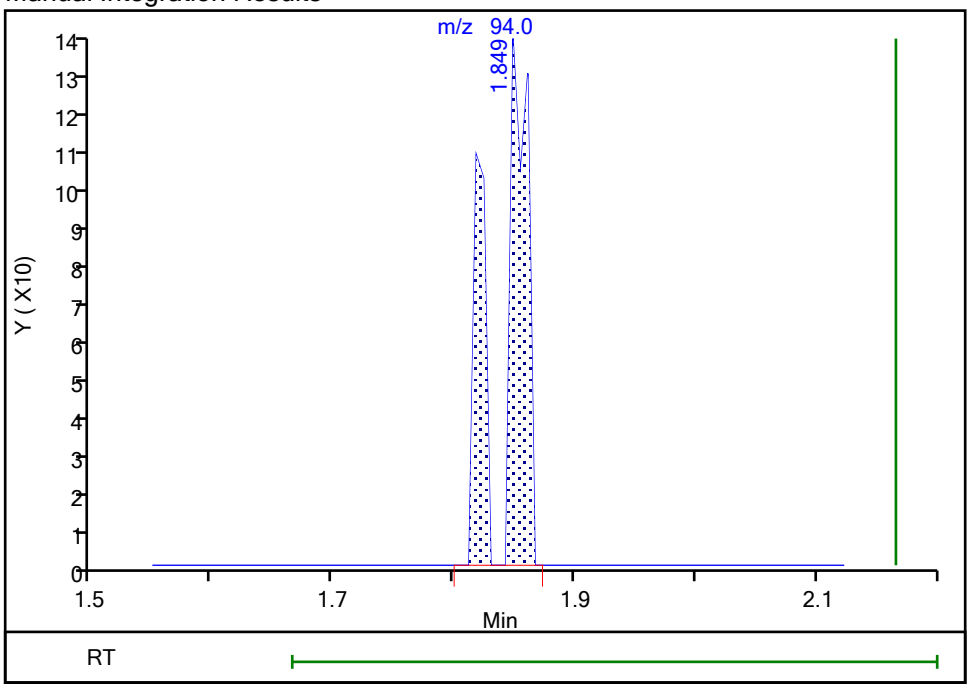
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 1.85
Area: 209
Amount: 0.686754
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

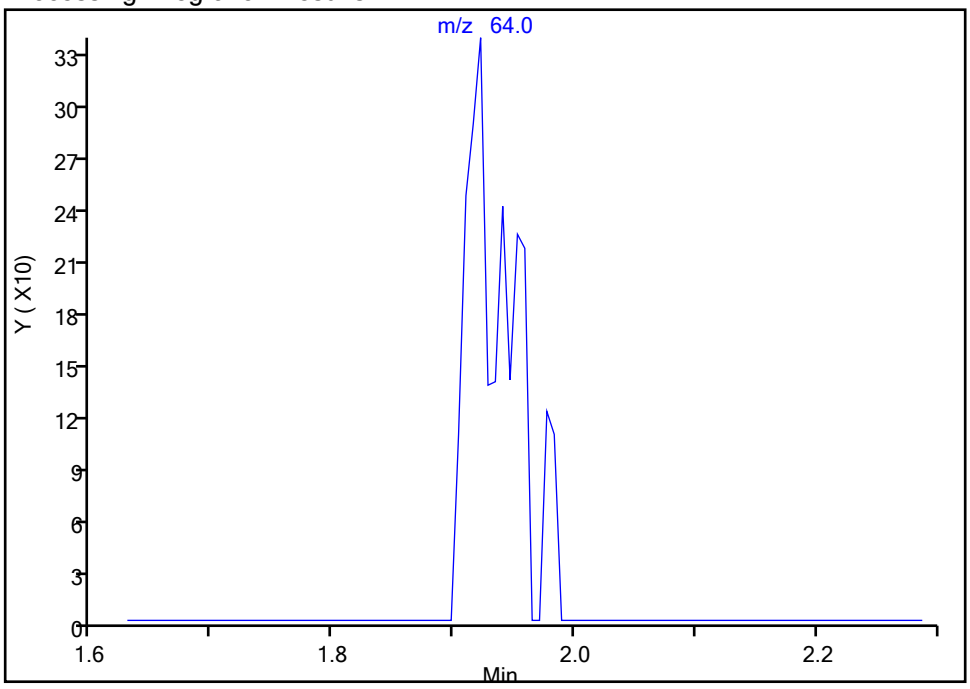
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

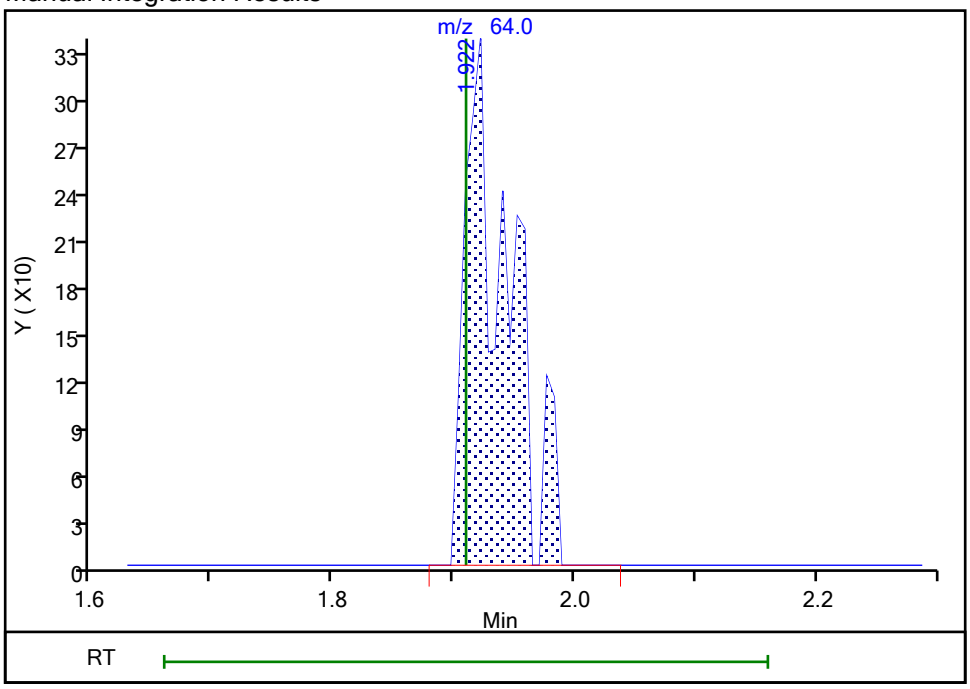
Not Detected
Expected RT: 1.91

Processing Integration Results



Manual Integration Results

RT: 1.92
Area: 828
Amount: 0.455358
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

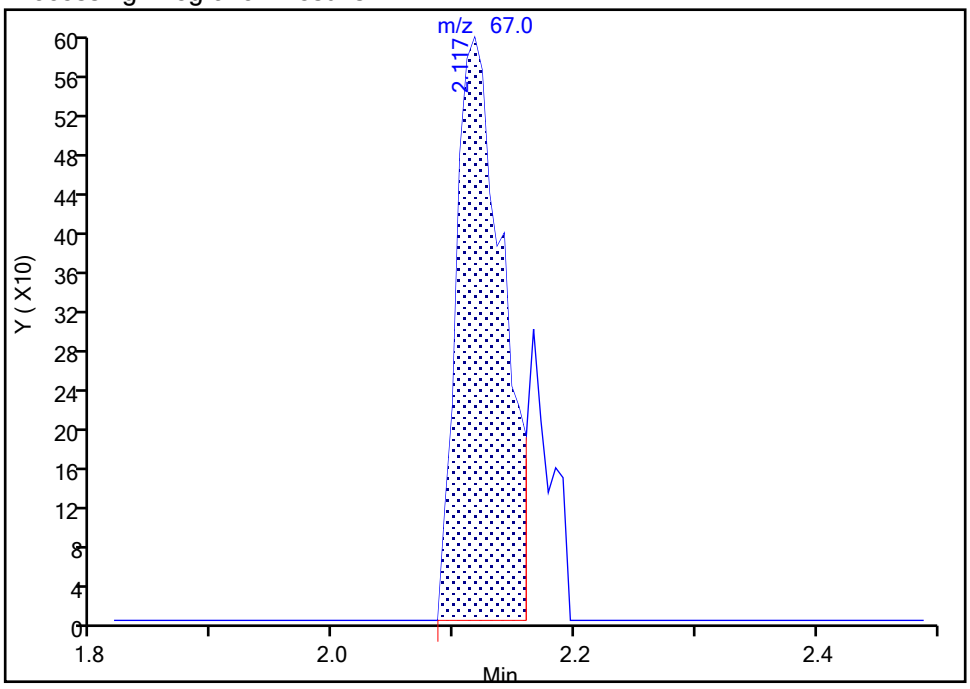
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

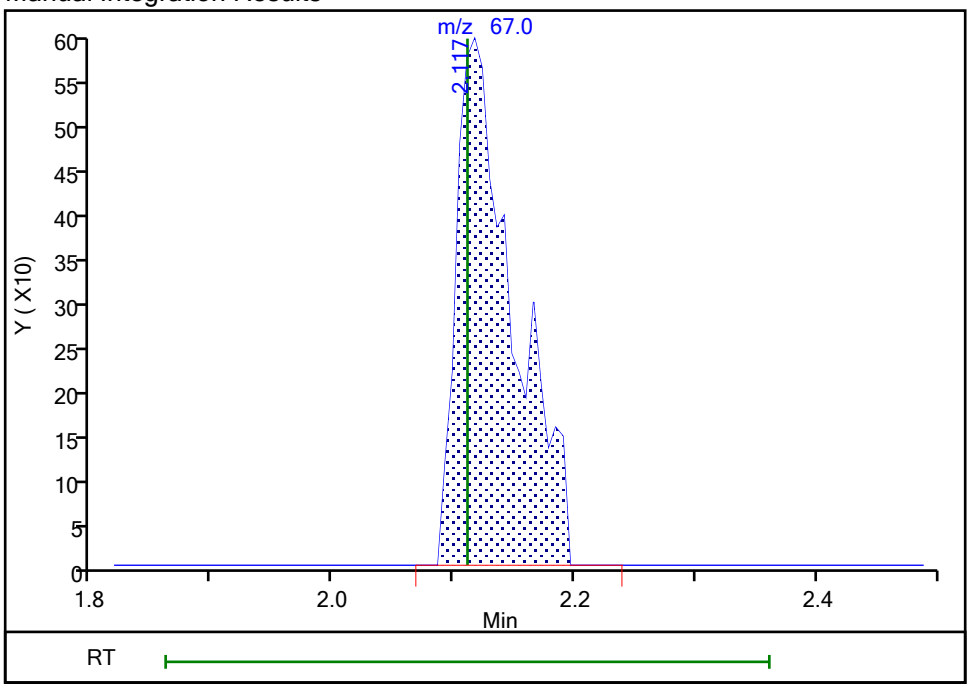
Processing Integration Results

RT: 2.12
Area: 1602
Amount: 0.426786
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 1941
Amount: 0.446157
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

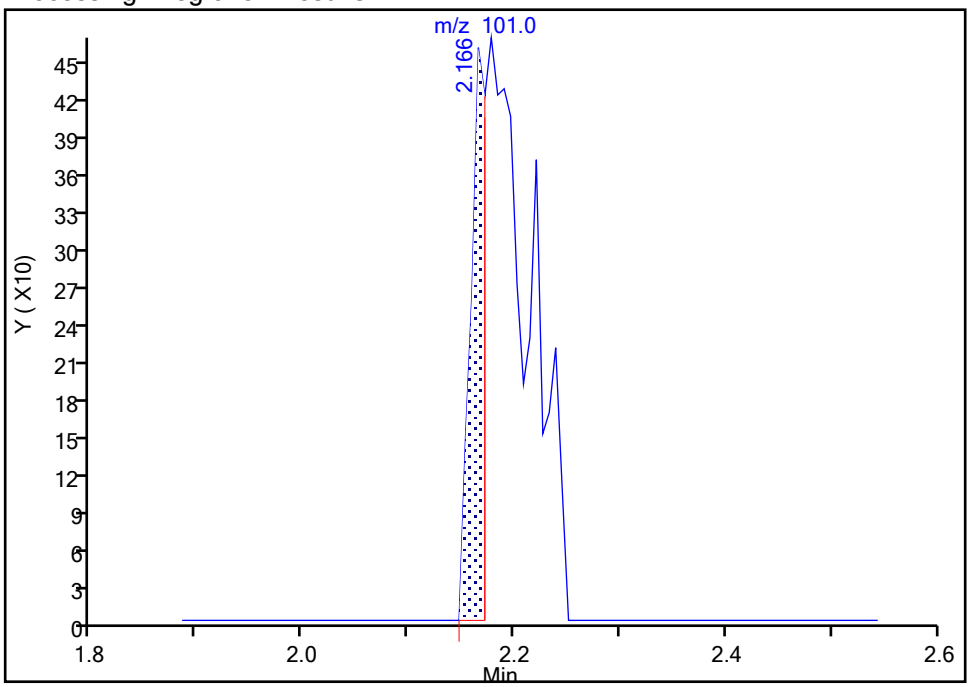
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

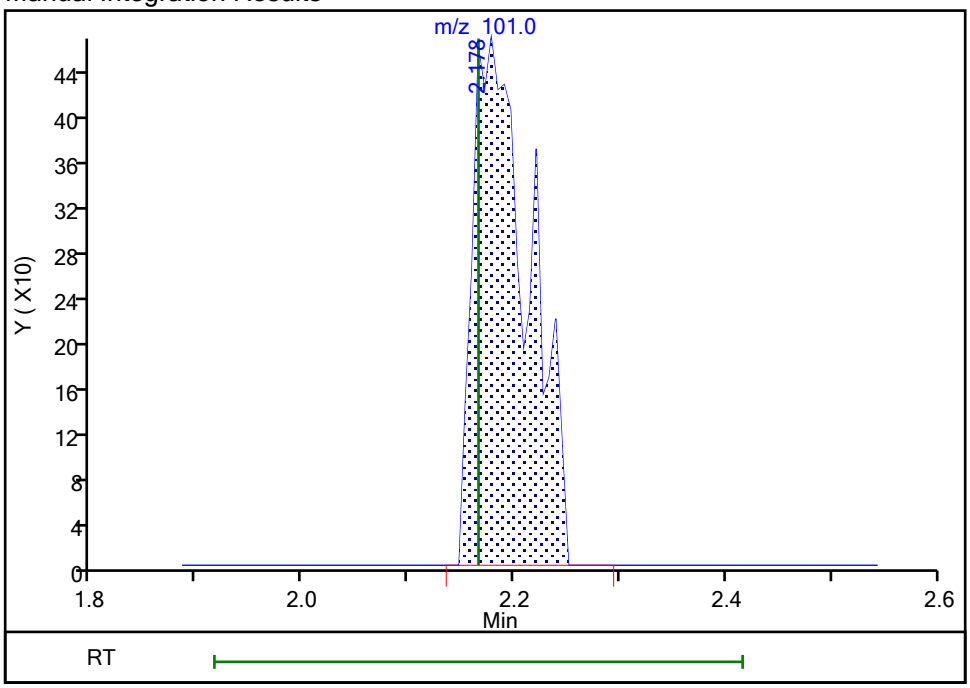
Processing Integration Results

RT: 2.17
Area: 472
Amount: 0.638448
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 1724
Amount: 0.414754
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

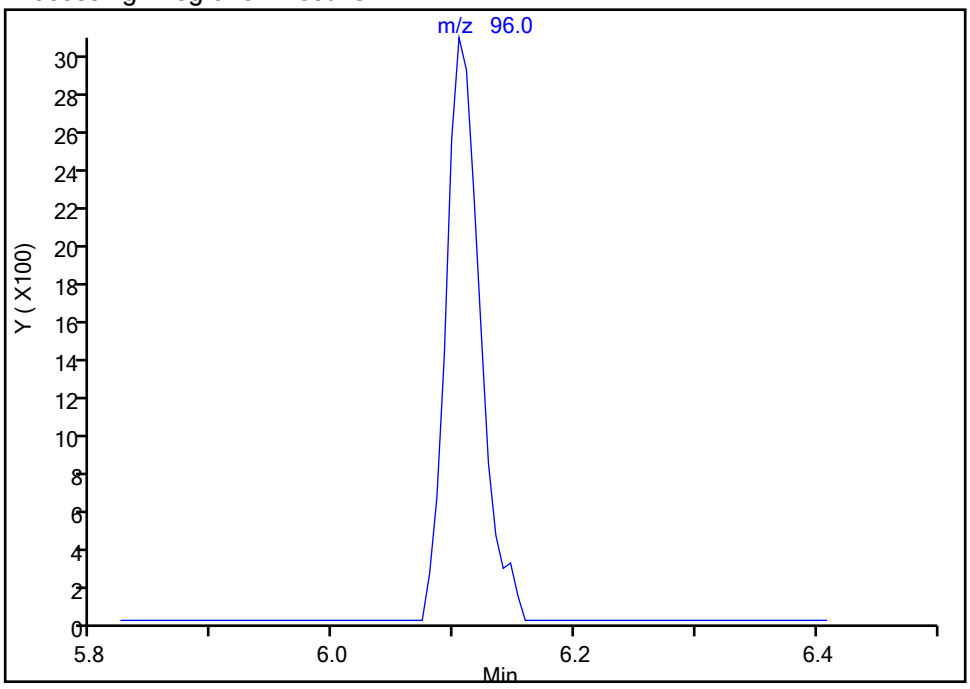
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

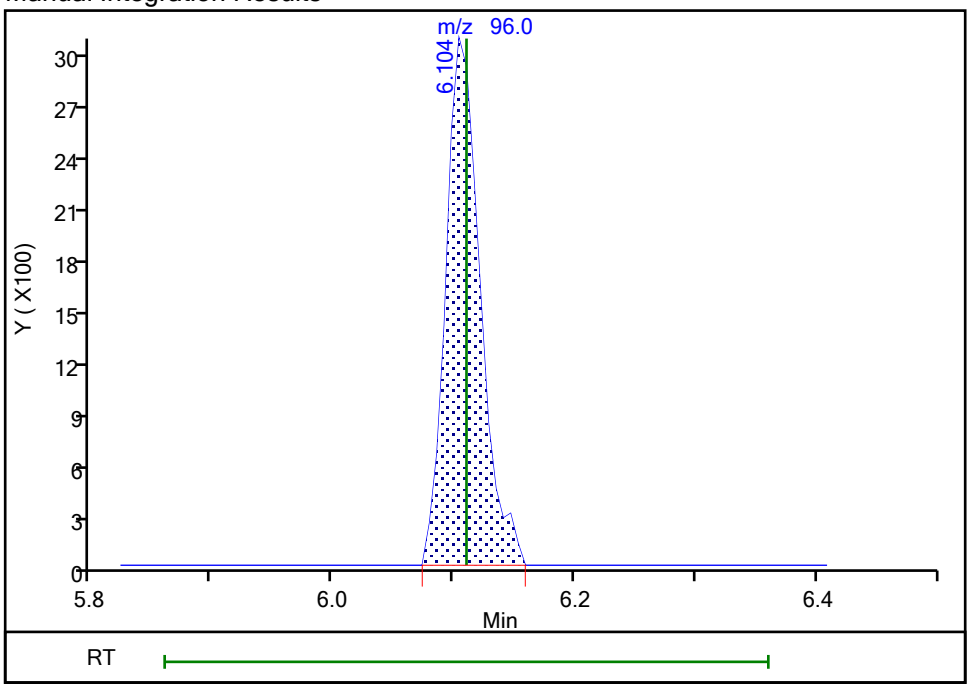
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 6041
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:54:15
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Oct-2020 05:06:30 ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:07 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:00:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	169095	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	5827	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	129904	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	61115	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	37739	50.0	49.8	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	164920	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	87	48717	50.0	48.7	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	2964	1.00	0.8571	M
10 Chloromethane	50	1.526	1.526	0.000	37	2579	1.00	1.01	M
11 Vinyl chloride	62	1.544	1.532	0.012	32	2808	1.00	0.9012	
12 Butadiene	54	1.574	1.568	0.006	92	2492	1.00	0.7905	M
14 Chloroethane	64	1.916	1.910	0.006	95	1732	1.00	0.9608	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	96	4026	1.00	0.9335	M
13 Bromomethane	94	1.836	2.166	-0.330	7	513	1.00	1.03	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	96	3203	1.00	0.7773	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

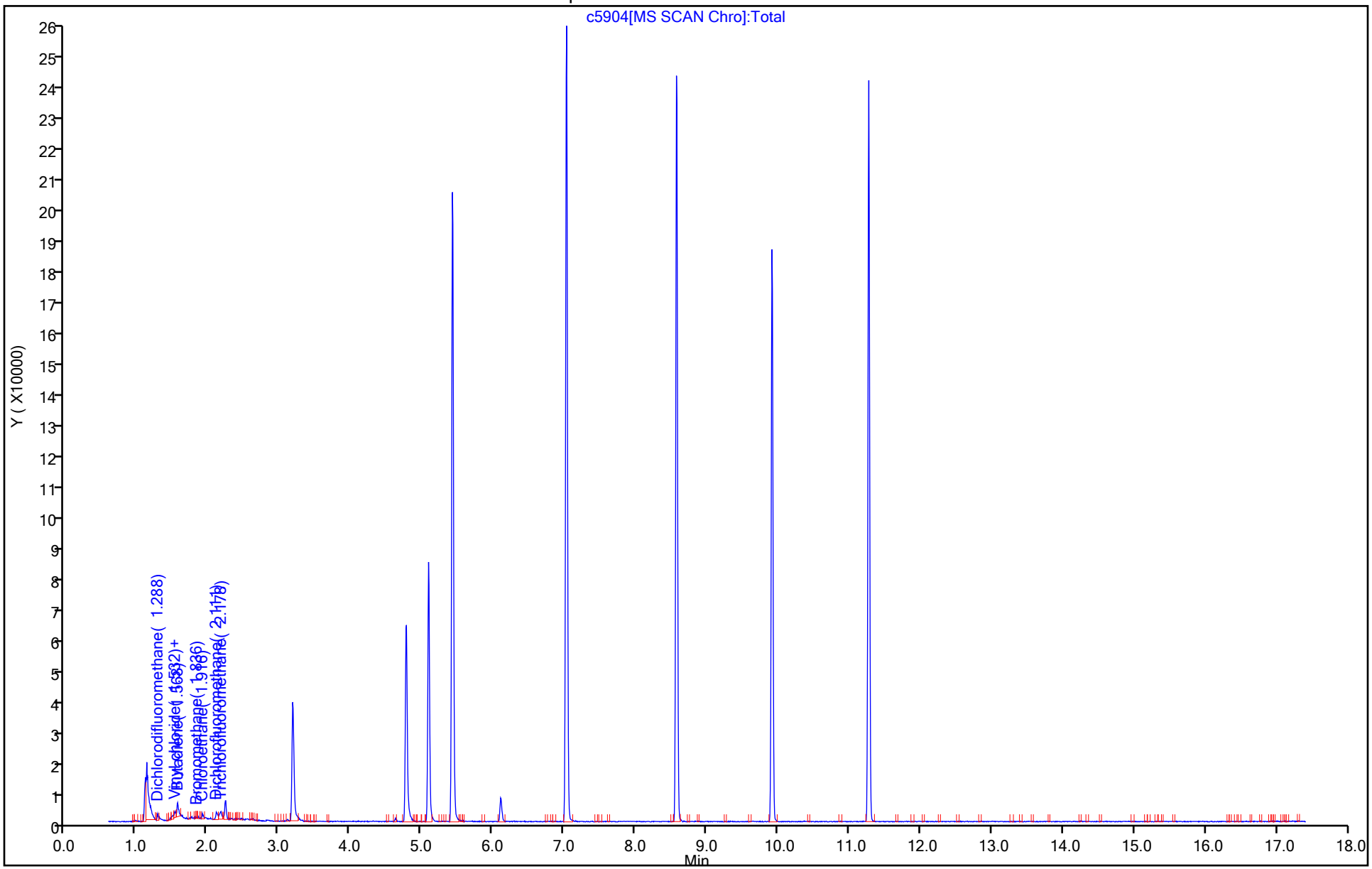
VV_I_GASES_00409 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:07 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D

Injection Date:	14-Oct-2020 05:06:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std2			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

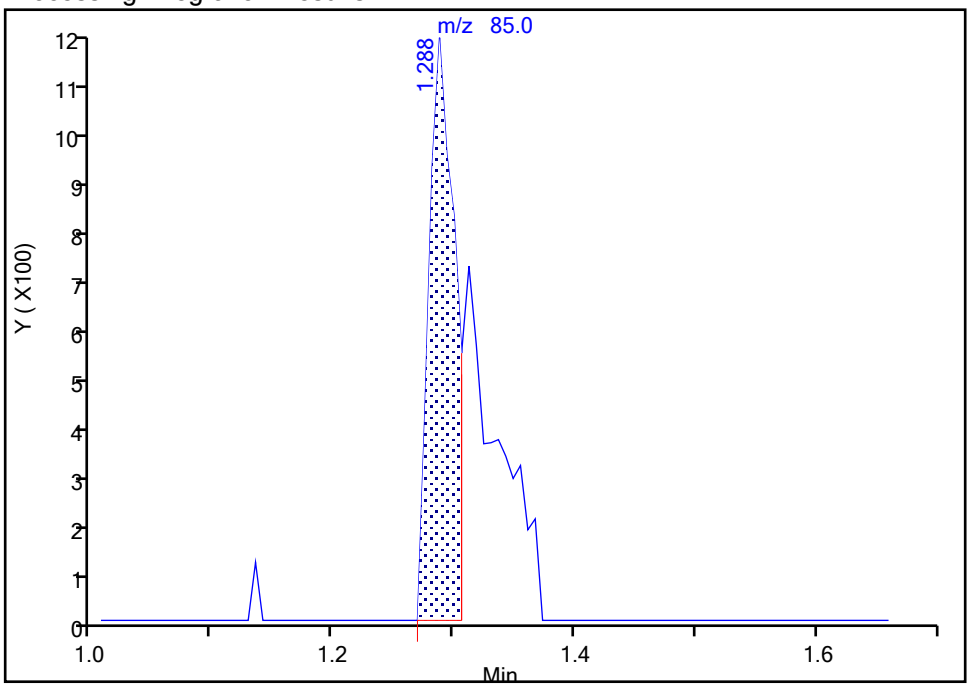
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

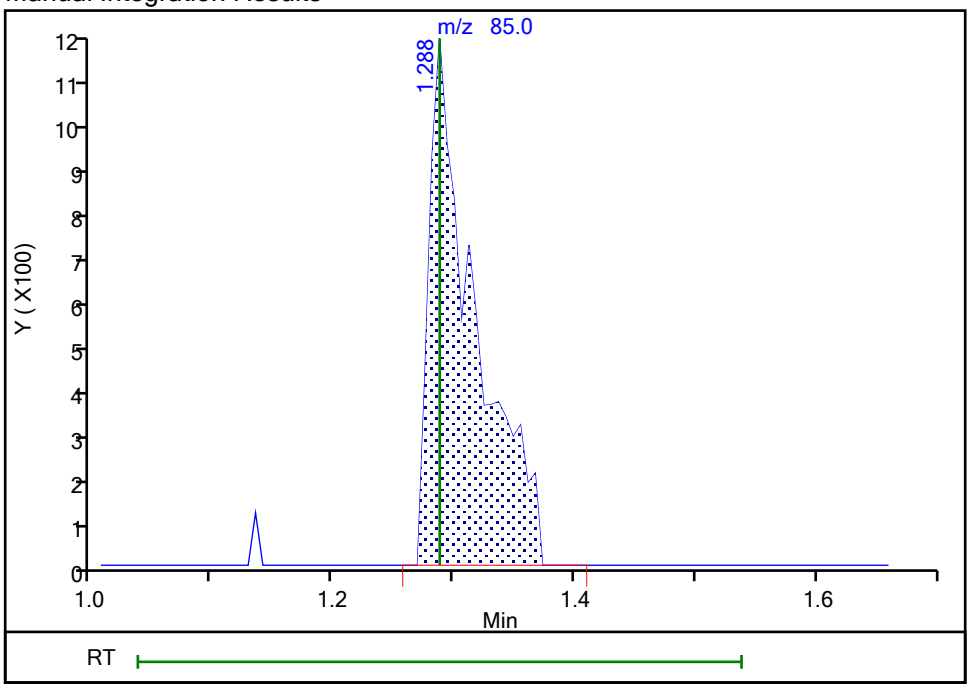
Processing Integration Results

RT: 1.29
Area: 1681
Amount: 0.562982
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 2964
Amount: 0.857051
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

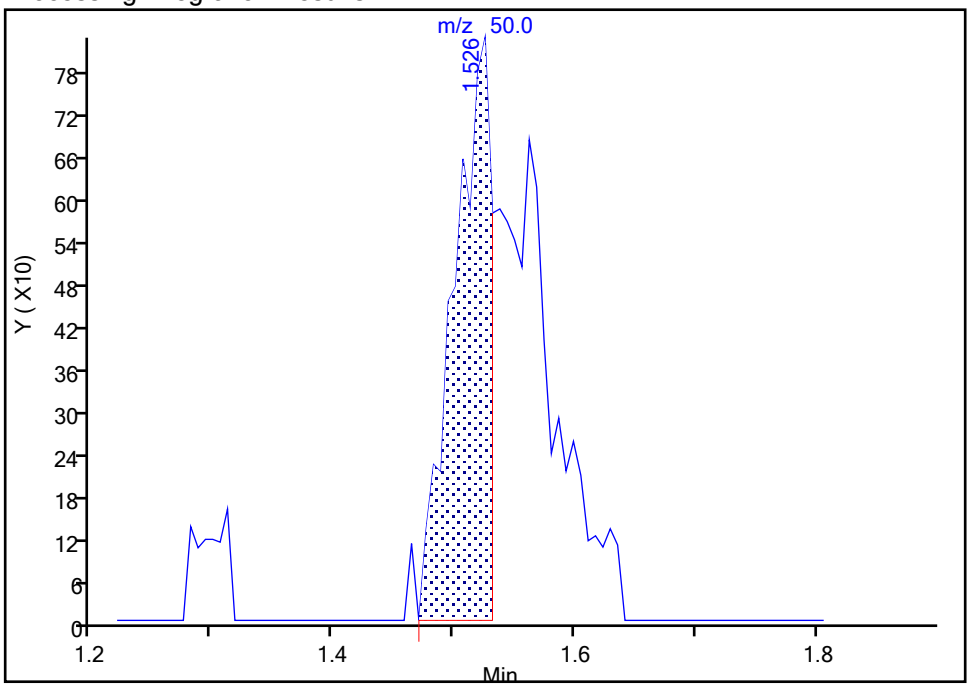
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

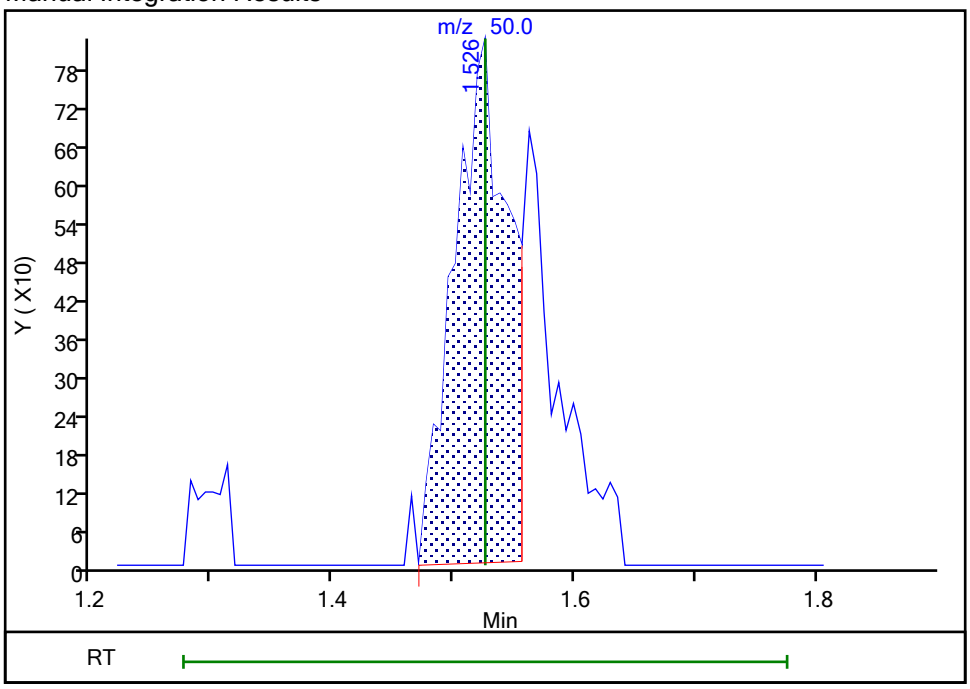
Processing Integration Results

RT: 1.53
Area: 1794
Amount: 1.094057
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 2579
Amount: 1.011866
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

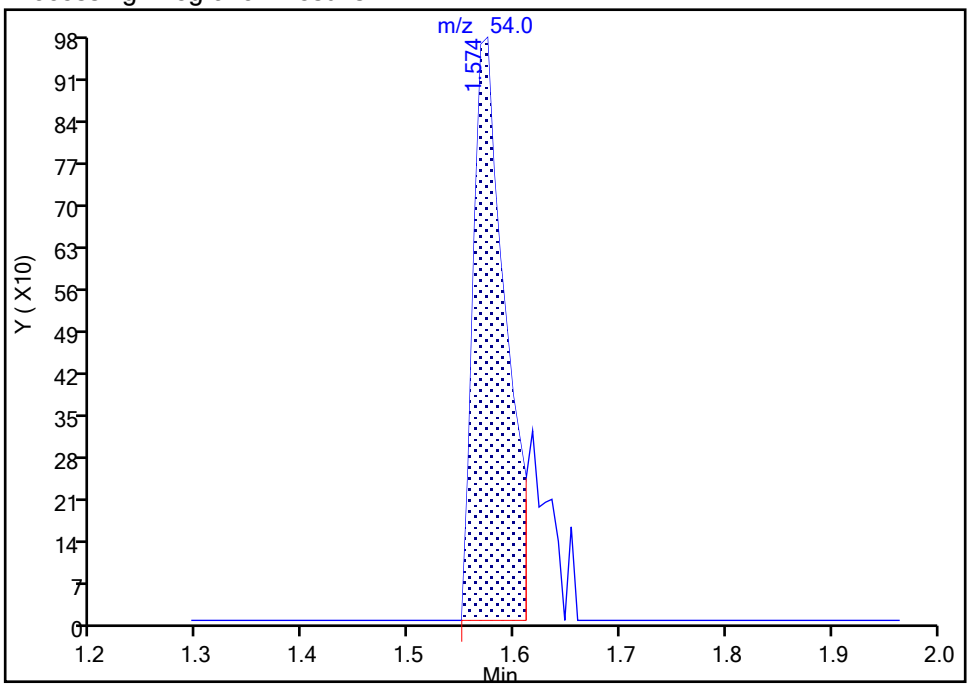
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

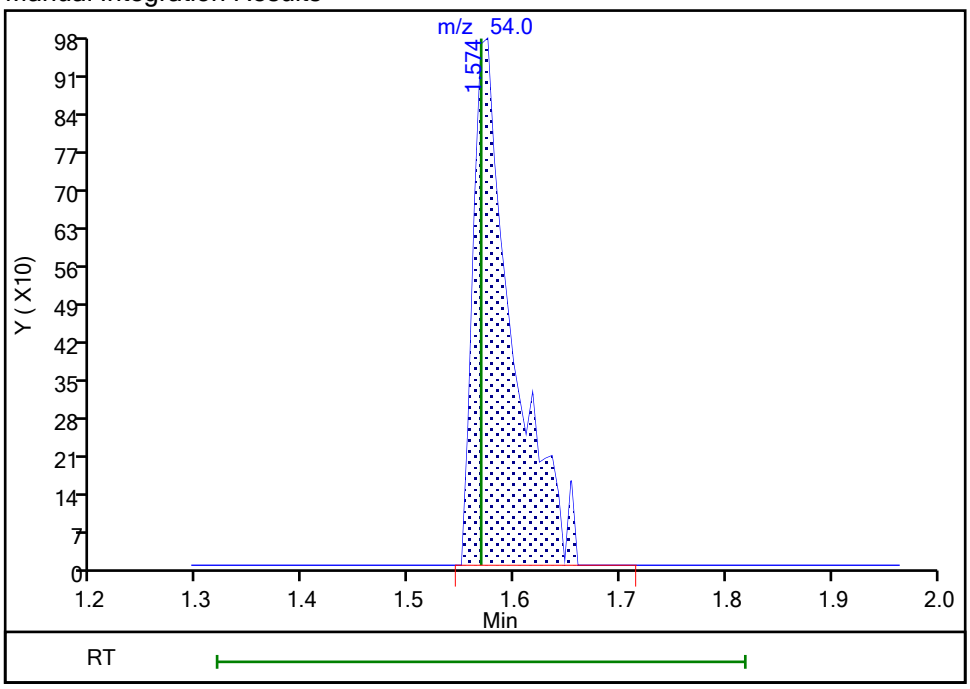
Processing Integration Results

RT: 1.57
Area: 2056
Amount: 0.813939
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 2492
Amount: 0.790516
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

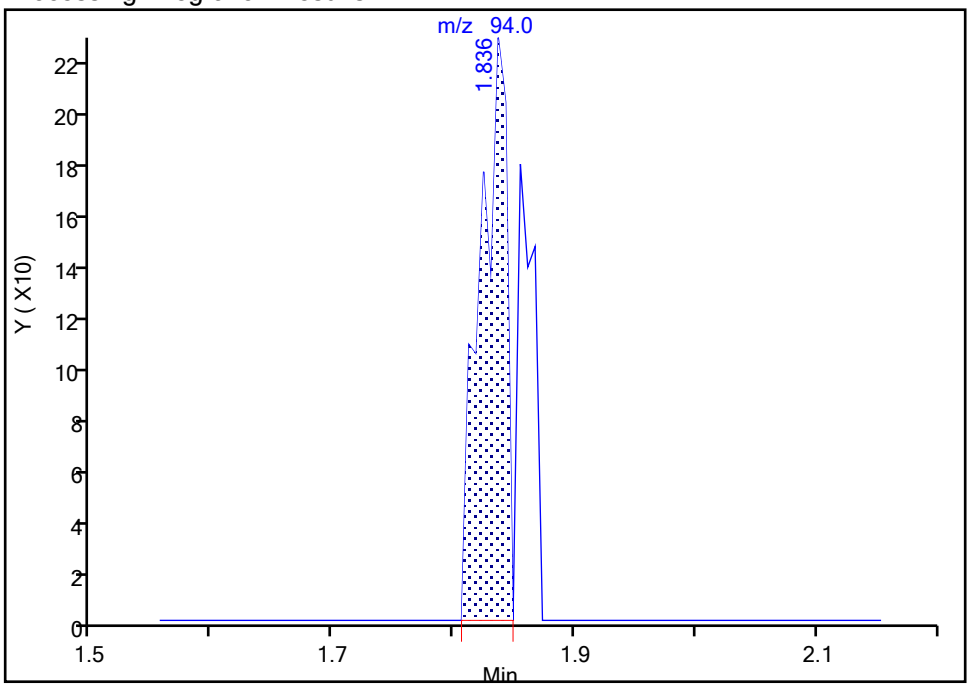
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

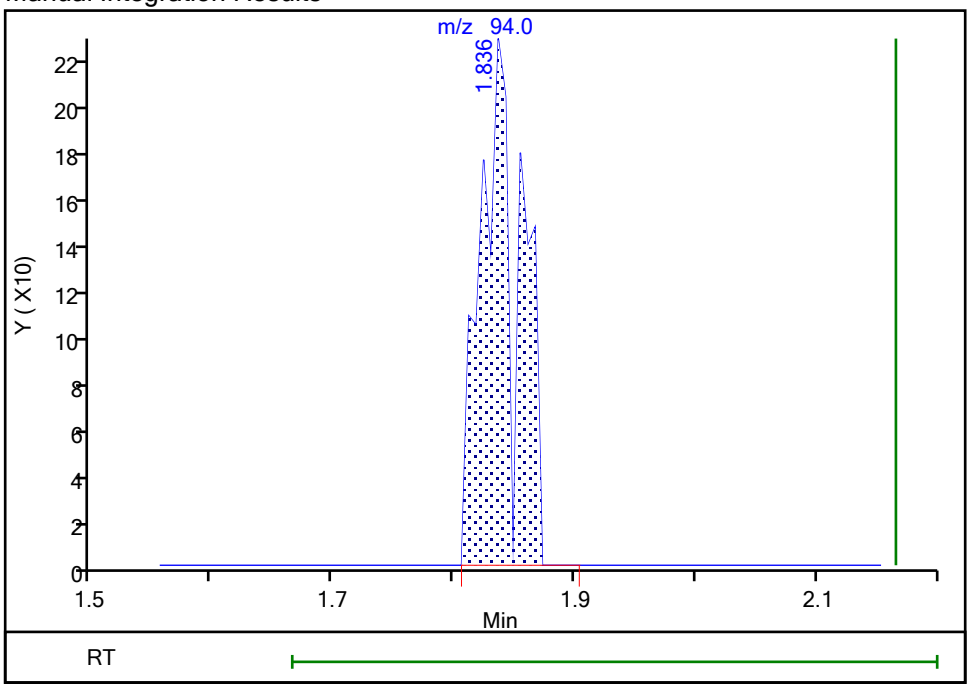
Processing Integration Results

RT: 1.84
Area: 345
Amount: 1.066768
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 513
Amount: 1.029662
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

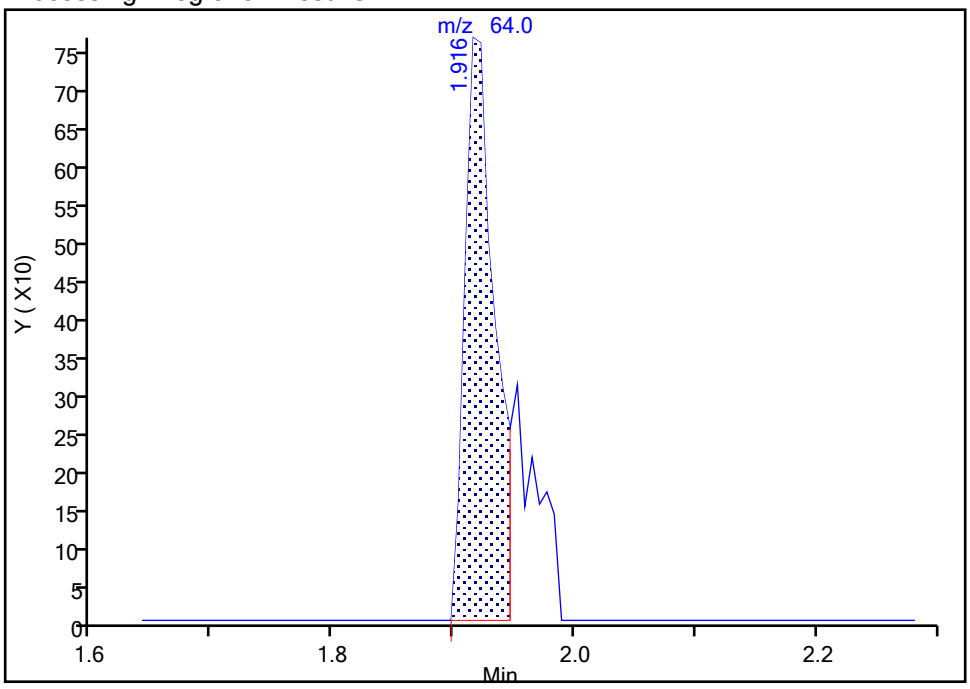
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

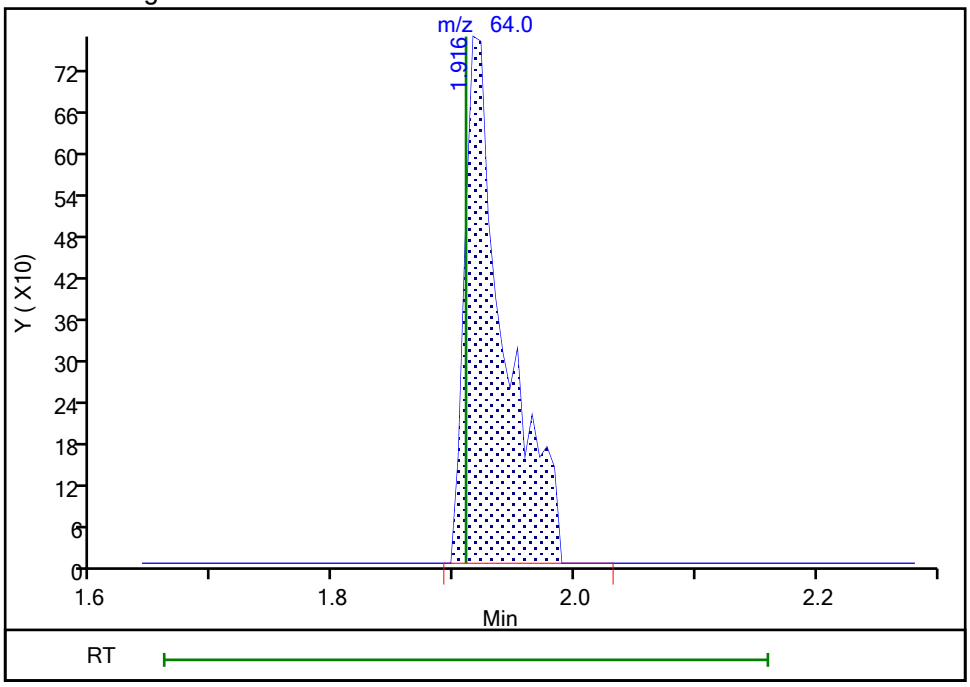
Processing Integration Results

RT: 1.92
Area: 1319
Amount: 0.875095
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 1732
Amount: 0.960814
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

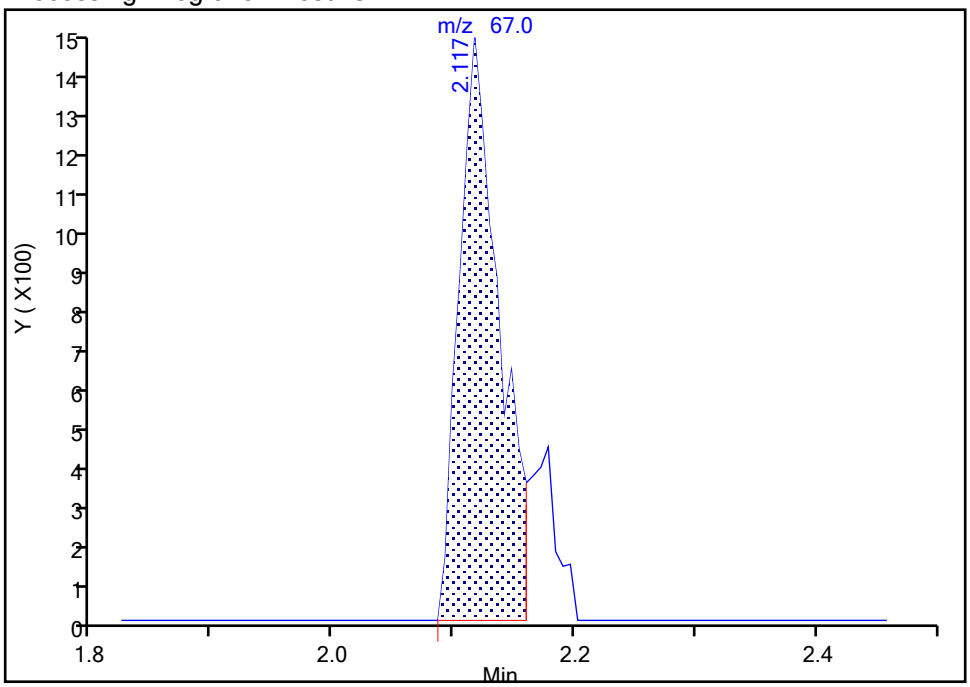
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

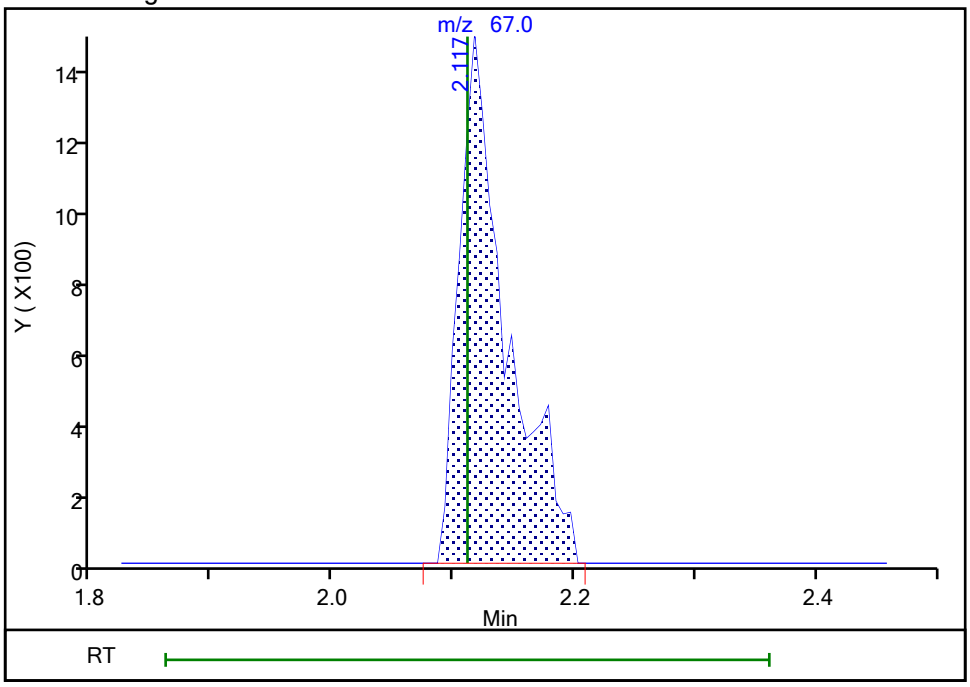
Processing Integration Results

RT: 2.12
Area: 3424
Amount: 0.893242
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 4026
Amount: 0.933480
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

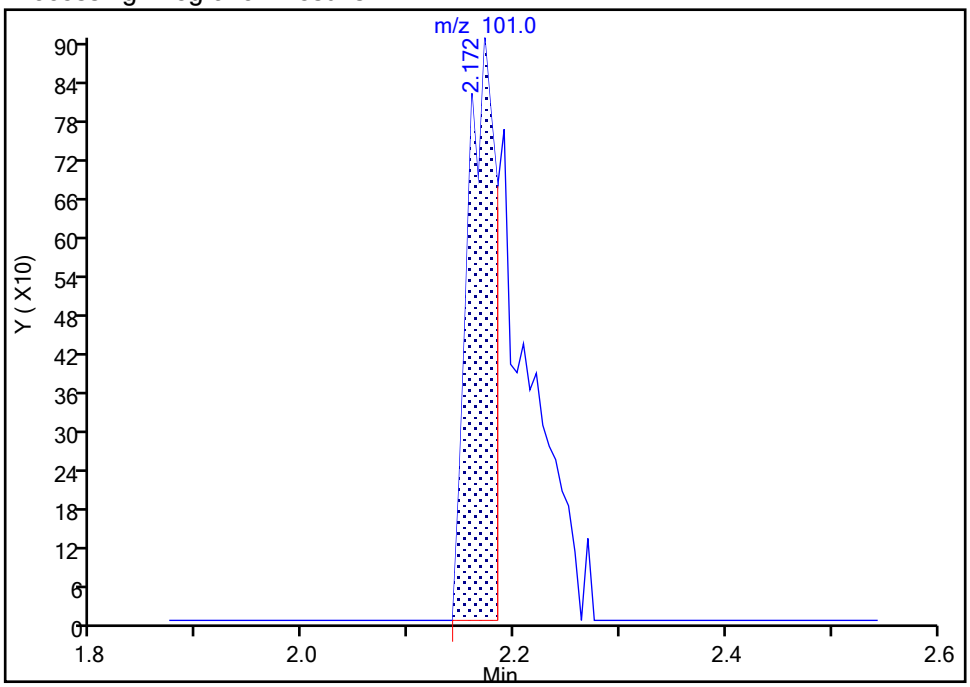
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

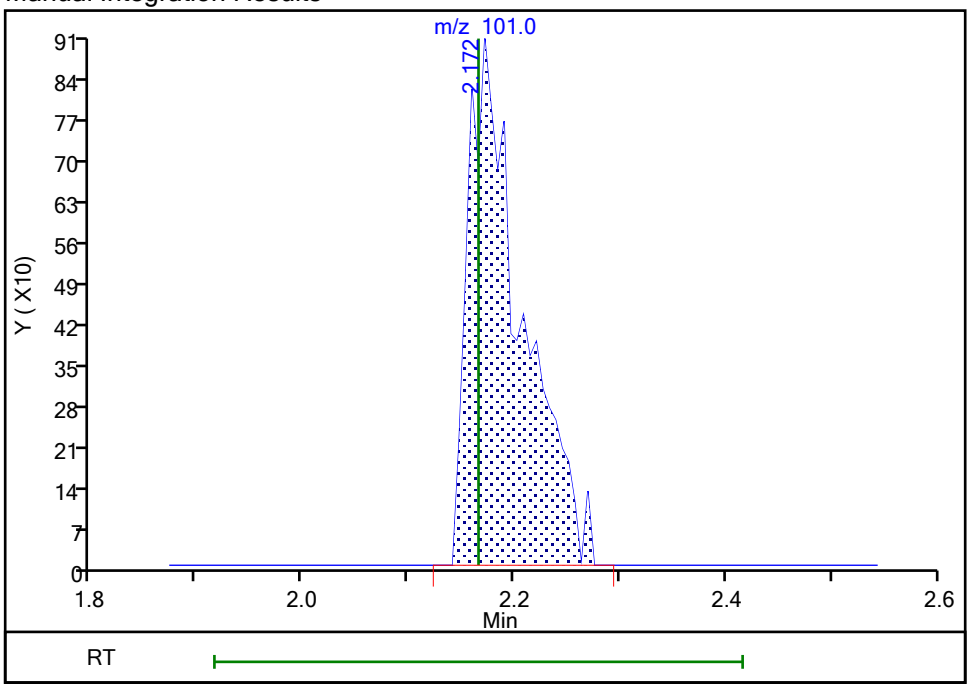
Processing Integration Results

RT: 2.17
Area: 1676
Amount: 0.568484
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 3203
Amount: 0.777283
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

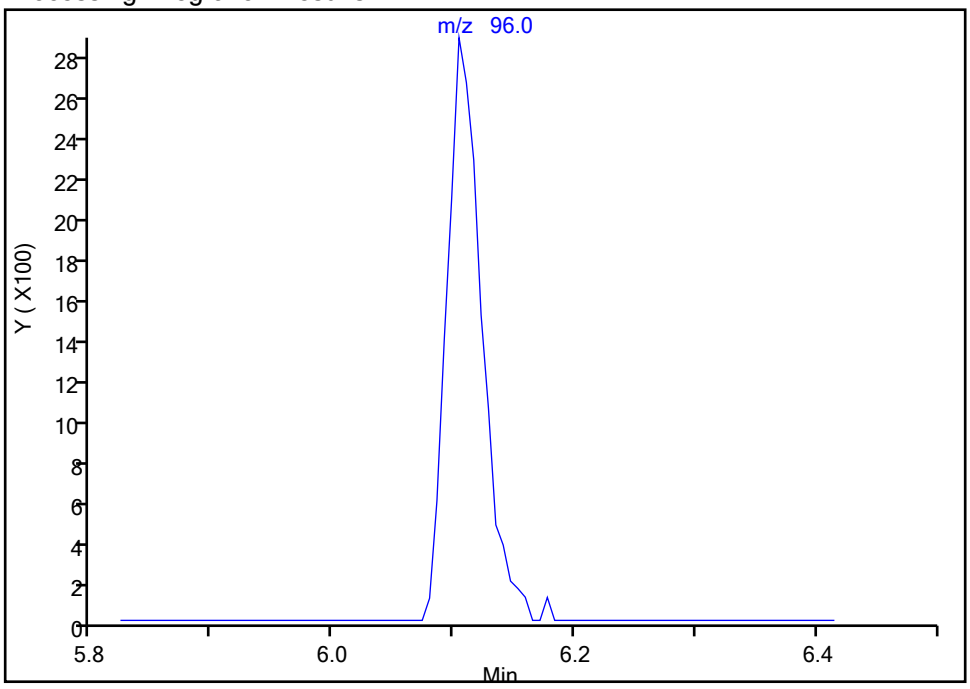
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

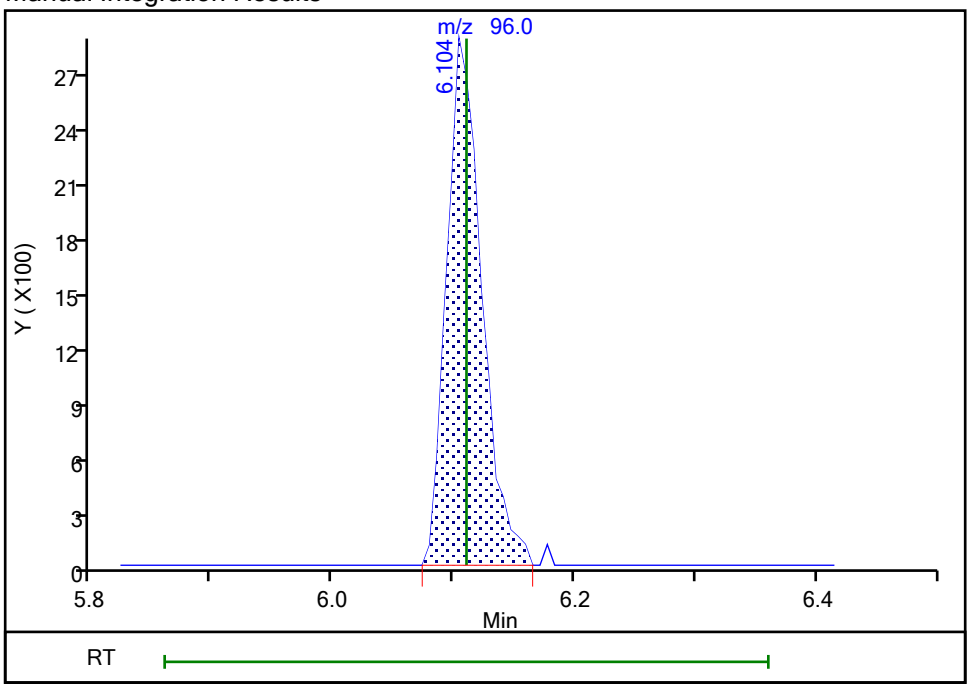
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5827
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Oct-2020 05:31:30 ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:10 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:08:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	168418	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5844	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	126544	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59292	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	91	36630	50.0	48.5	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	163258	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	87	49118	50.0	50.6	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	6625	2.00	1.92	M
10 Chloromethane	50	1.532	1.526	0.006	58	5345	2.00	2.11	M
11 Vinyl chloride	62	1.538	1.532	0.006	97	6319	2.00	2.04	M
12 Butadiene	54	1.574	1.568	0.006	89	6467	2.00	2.06	M
14 Chloroethane	64	1.916	1.910	0.006	96	3652	2.00	2.03	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	96	8867	2.00	2.06	M
13 Bromomethane	94	1.830	2.166	-0.336	68	1324	2.00	1.95	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	96	7935	2.00	1.93	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

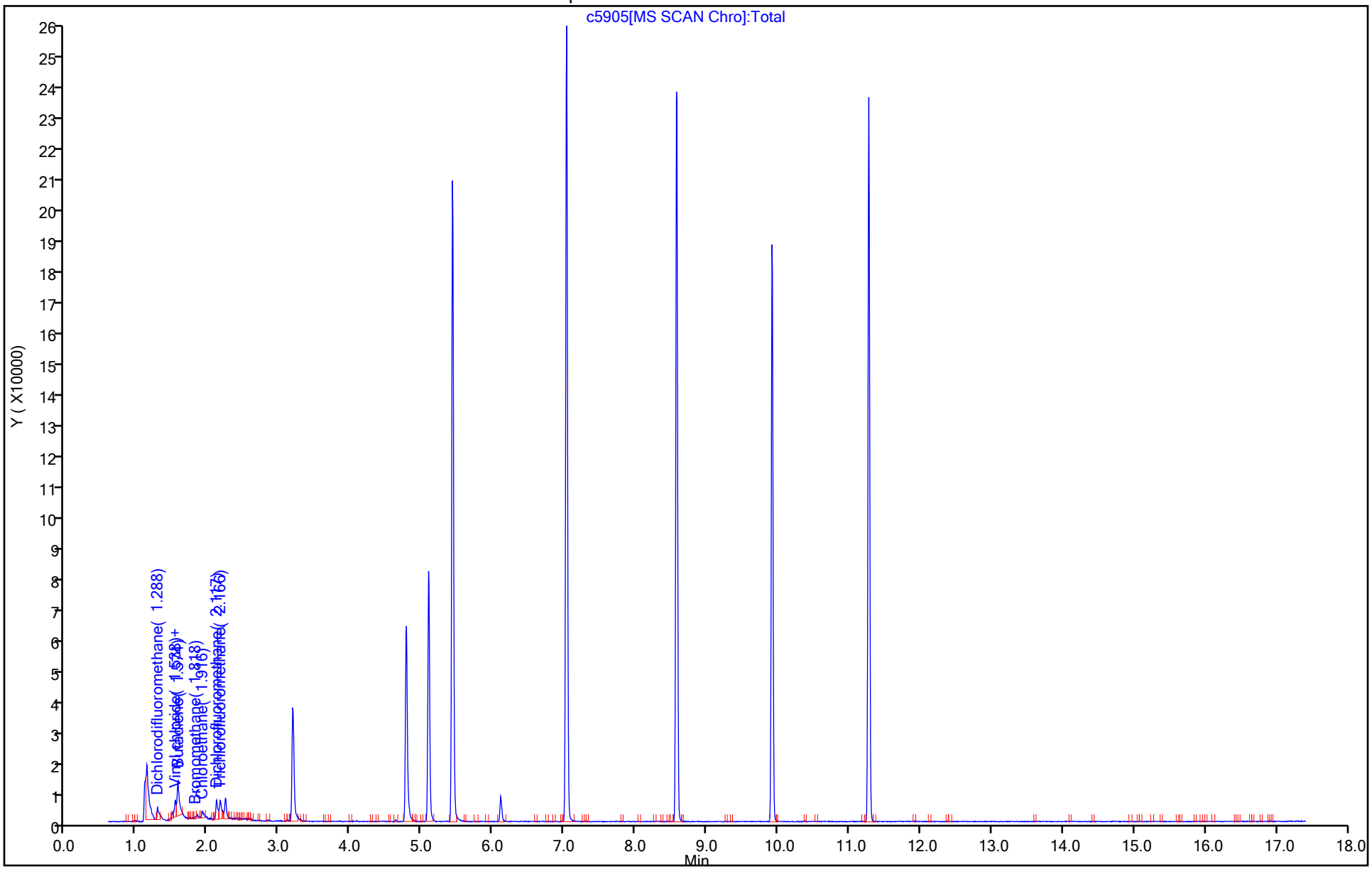
VV_I_GASES_00409 Amount Added: 2.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:10 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D

Injection Date:	14-Oct-2020 05:31:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std3			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

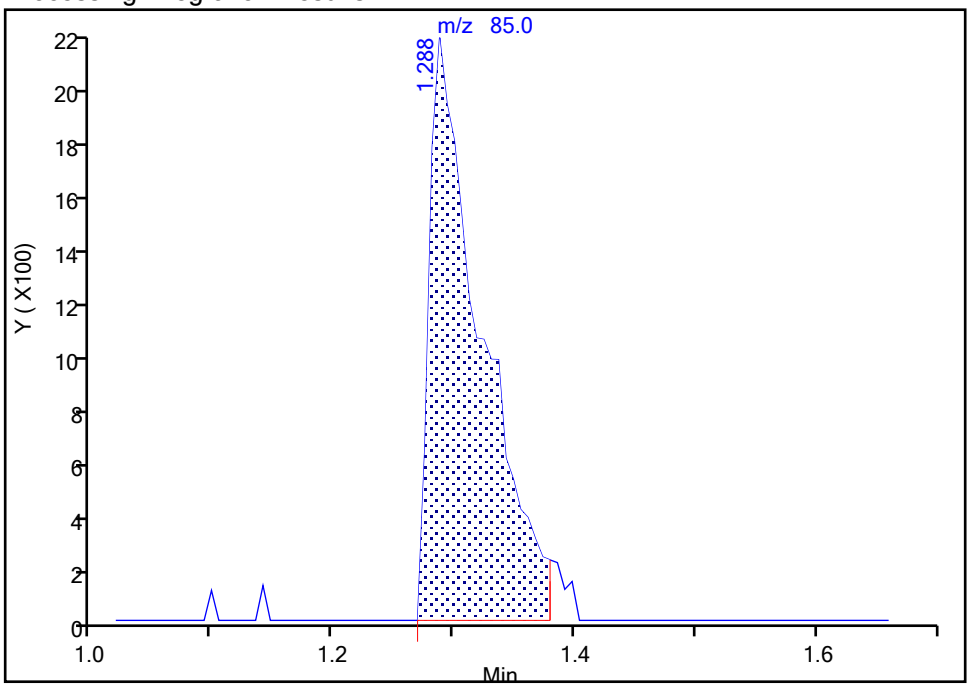
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

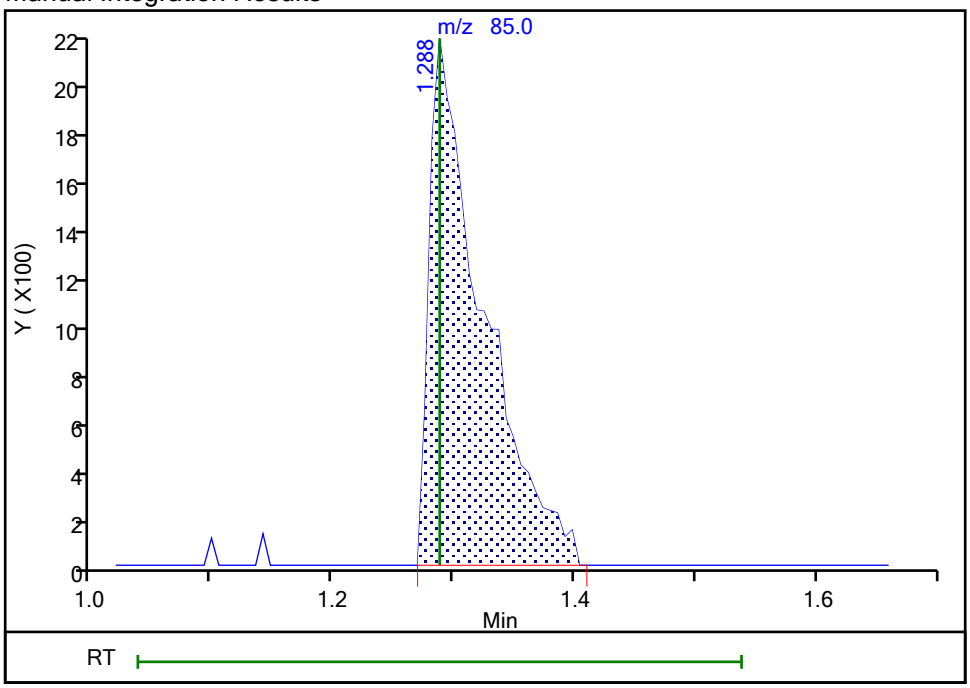
Processing Integration Results

RT: 1.29
Area: 6452
Amount: 2.024532
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 6625
Amount: 1.923343
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

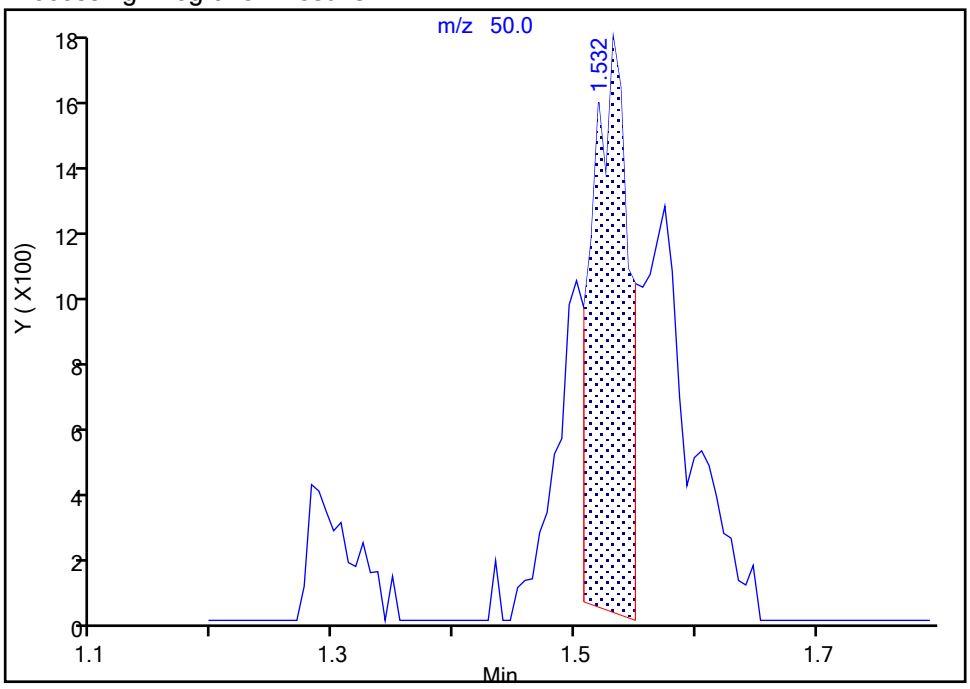
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

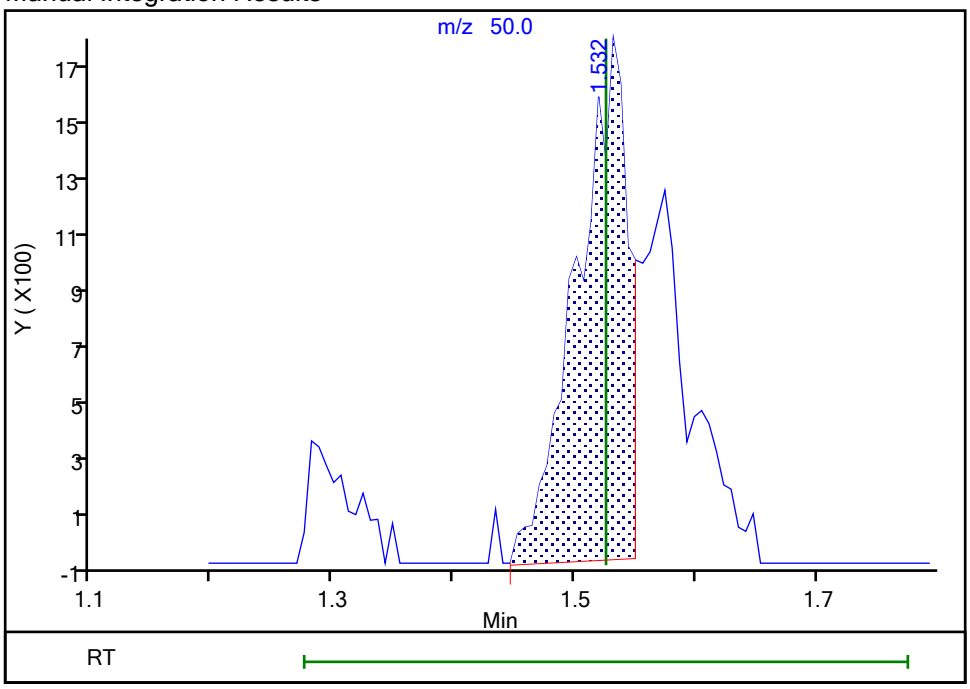
Processing Integration Results

RT: 1.53
Area: 3812
Amount: 2.161595
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 5345
Amount: 2.105531
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

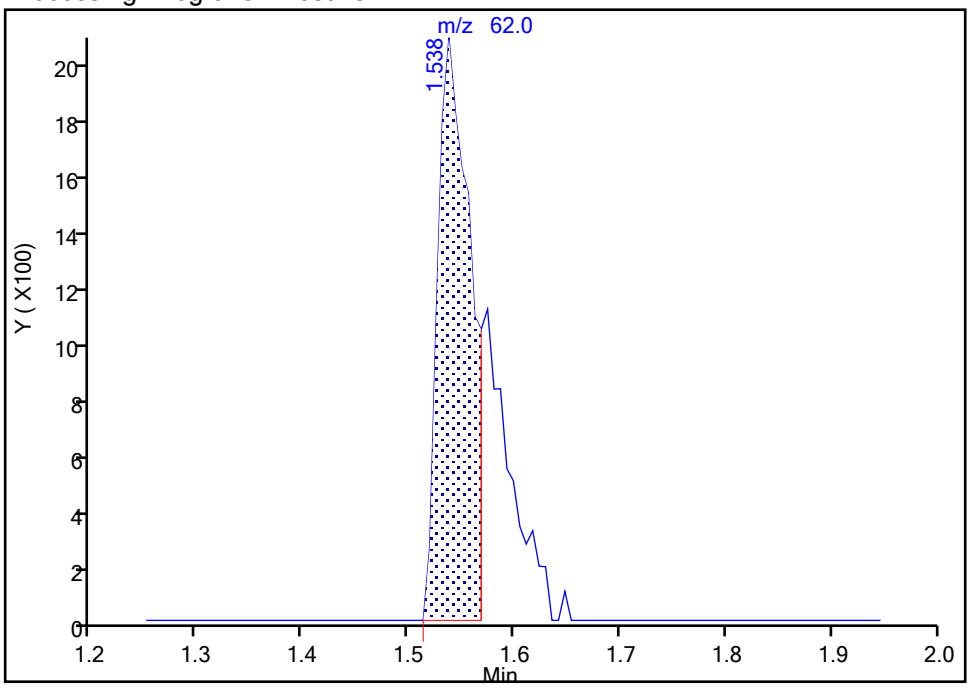
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

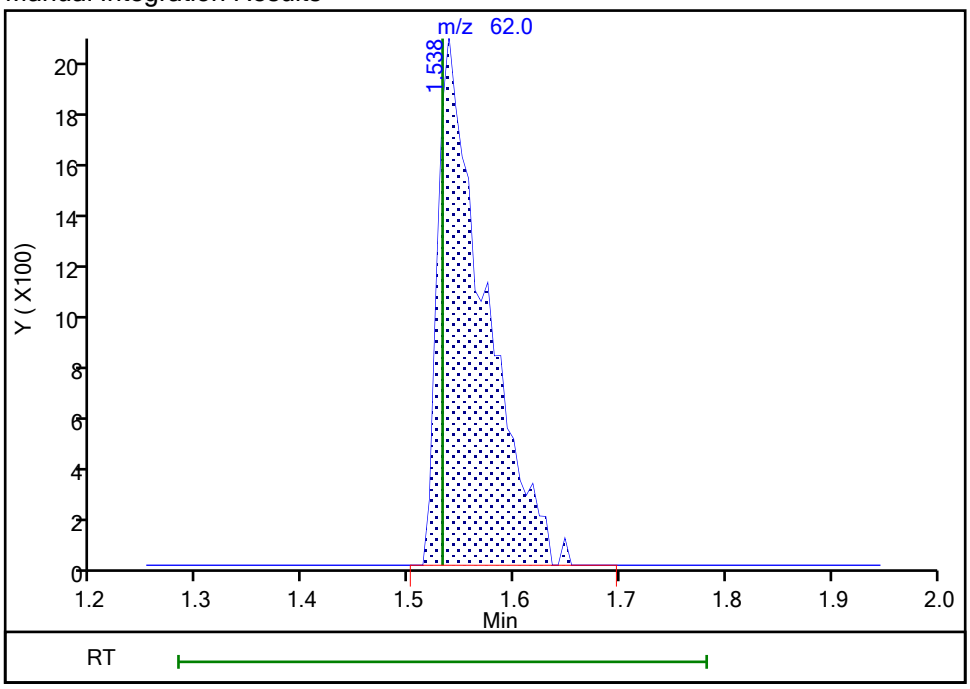
Processing Integration Results

RT: 1.54
Area: 4434
Amount: 1.611471
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 6319
Amount: 2.036082
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

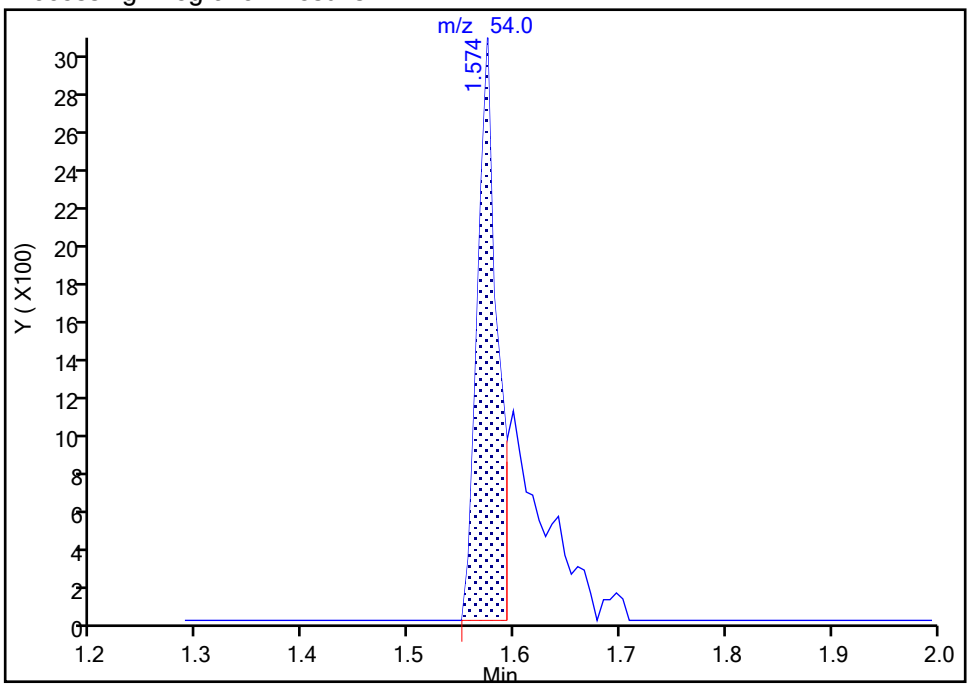
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

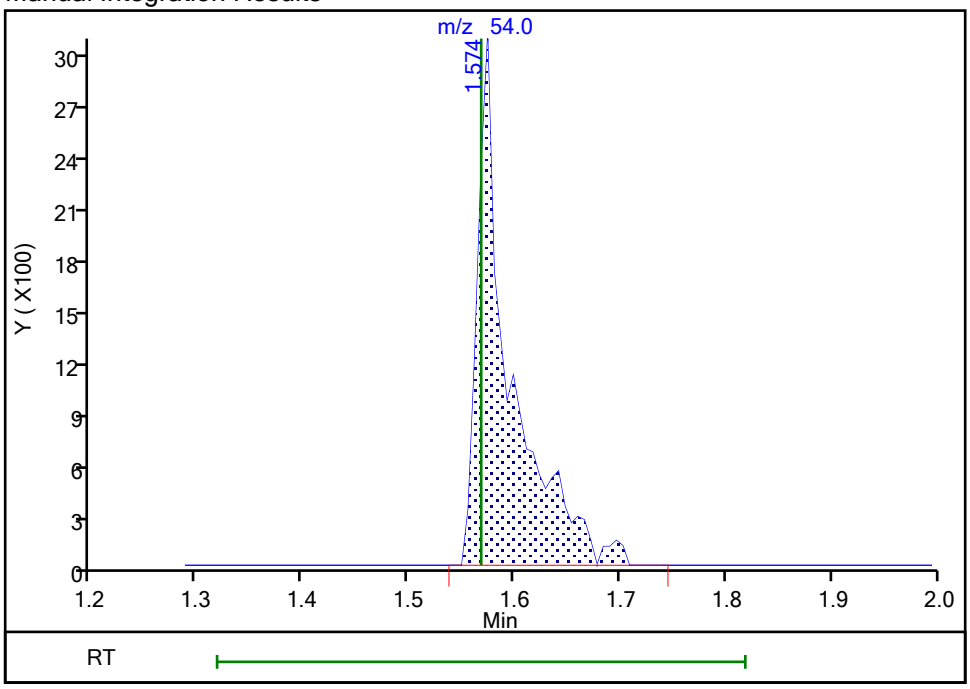
Processing Integration Results

RT: 1.57
Area: 3917
Amount: 1.513378
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 6467
Amount: 2.059717
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

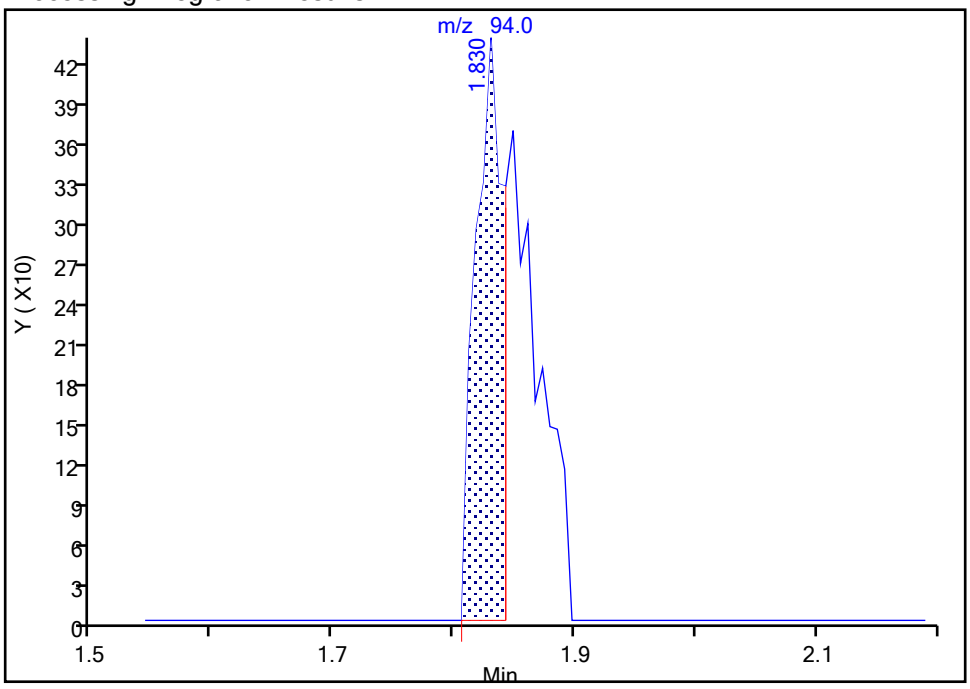
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

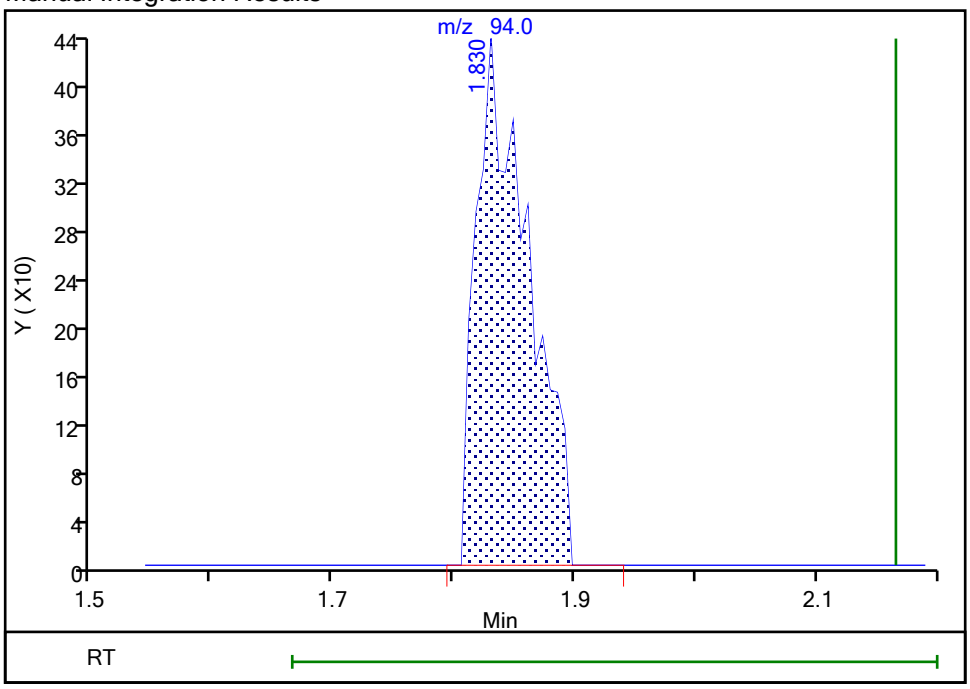
Processing Integration Results

RT: 1.83
Area: 703
Amount: 1.502875
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 1324
Amount: 1.945026
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

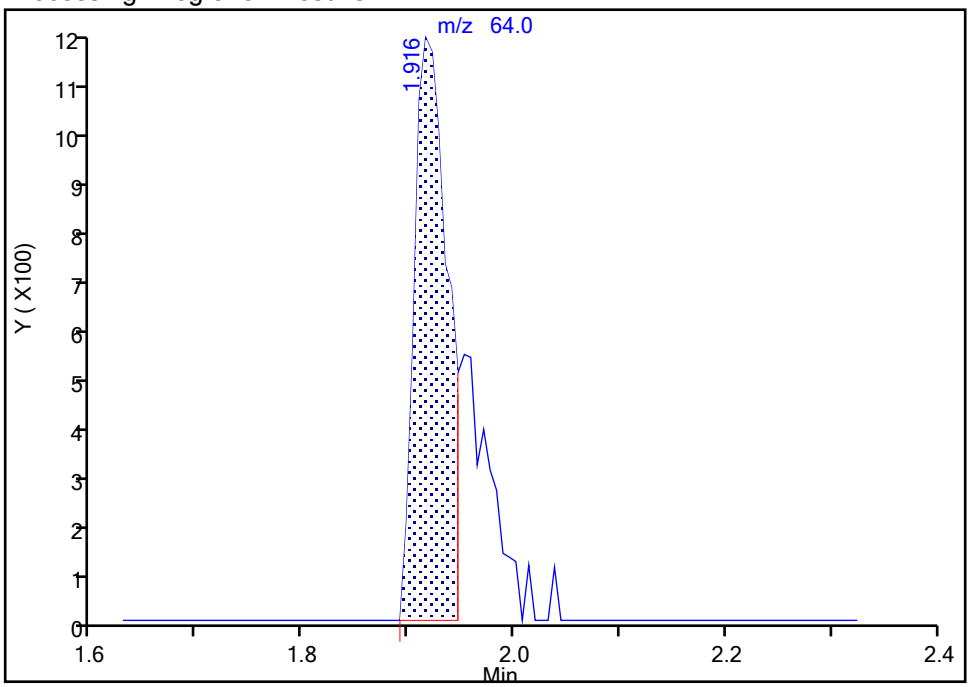
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

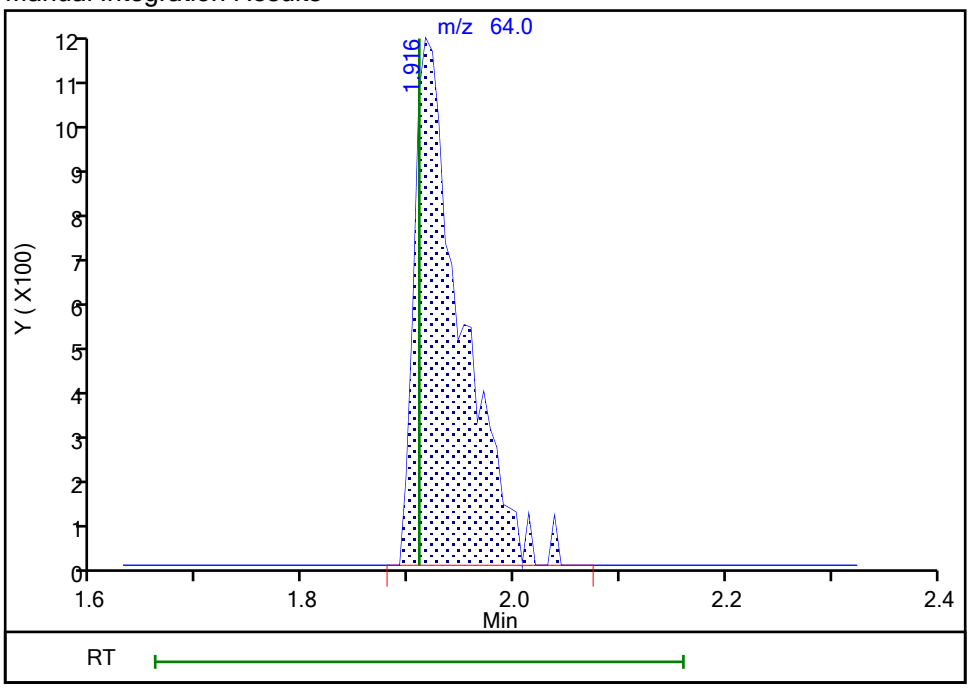
Processing Integration Results

RT: 1.92
Area: 2575
Amount: 1.640348
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 3652
Amount: 2.034064
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

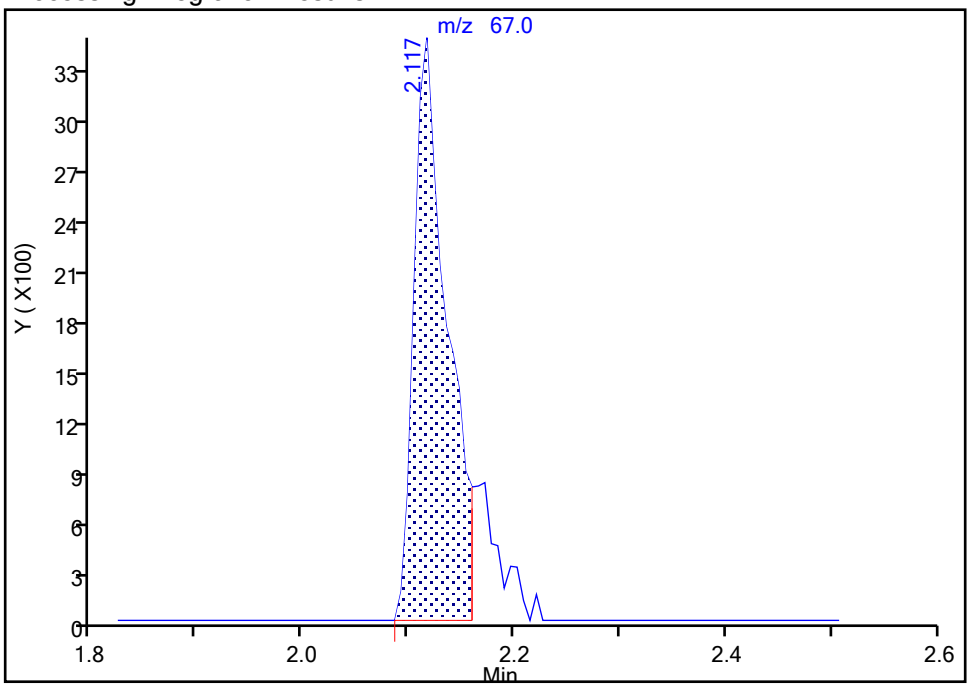
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

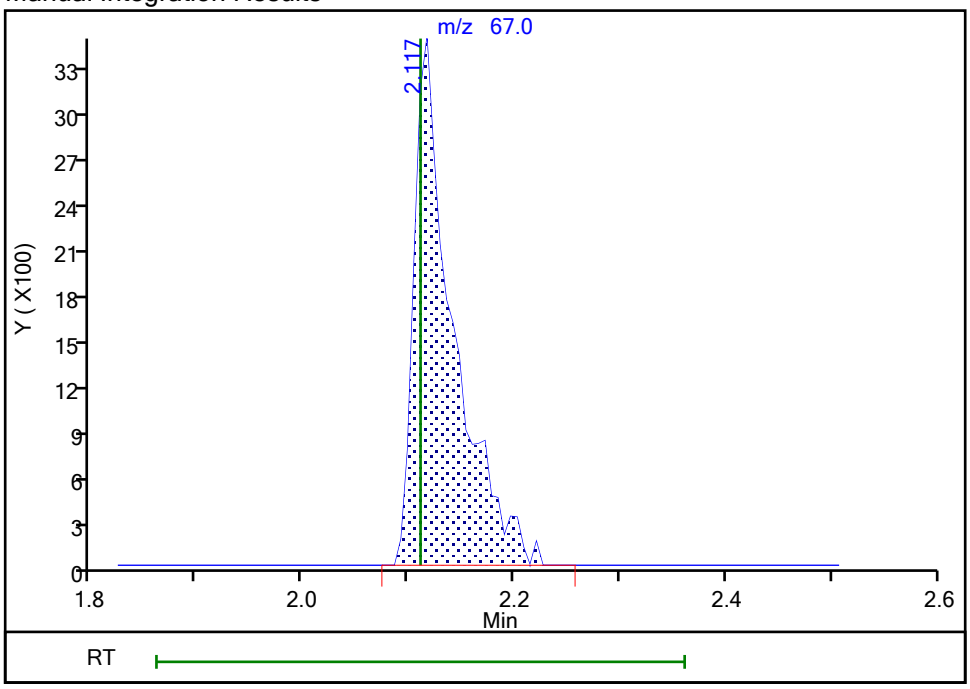
Processing Integration Results

RT: 2.12
Area: 7551
Amount: 1.927352
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 8867
Amount: 2.064192
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

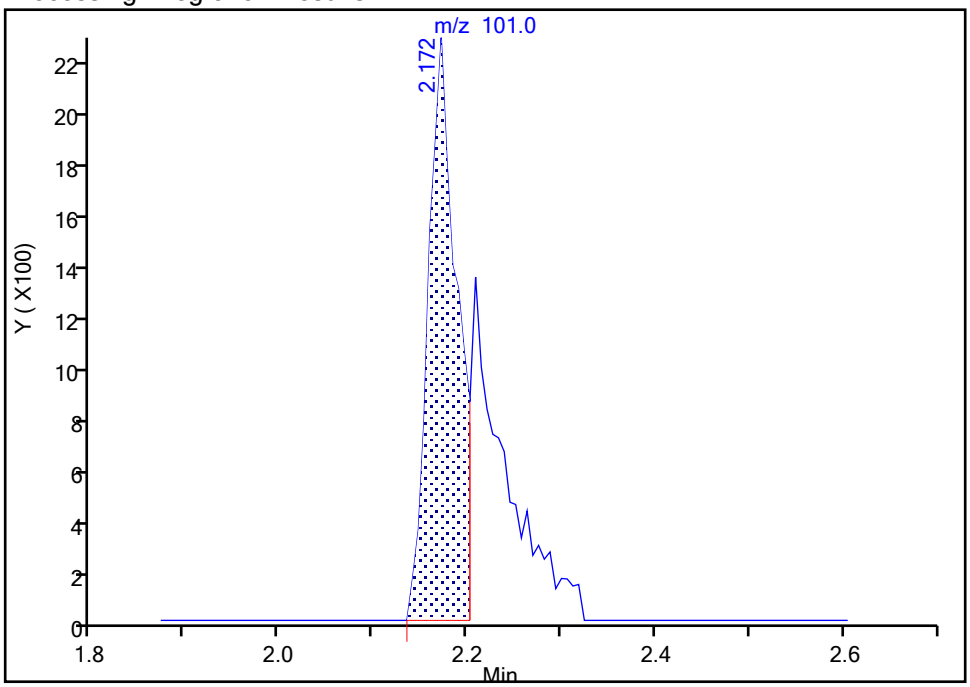
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

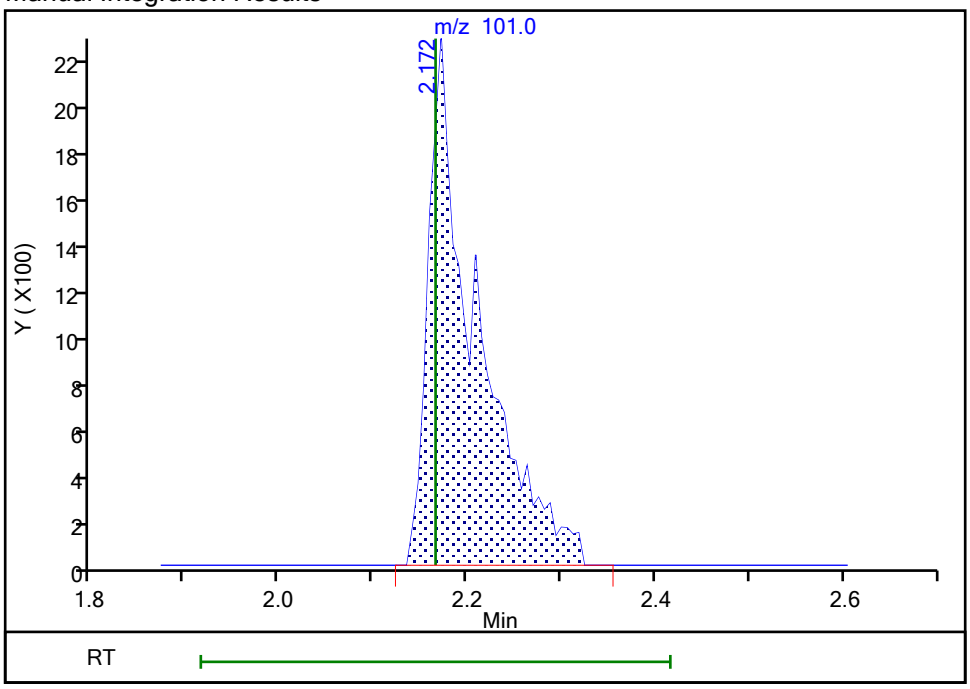
Processing Integration Results

RT: 2.17
Area: 4806
Amount: 1.506645
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 7935
Amount: 1.933354
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

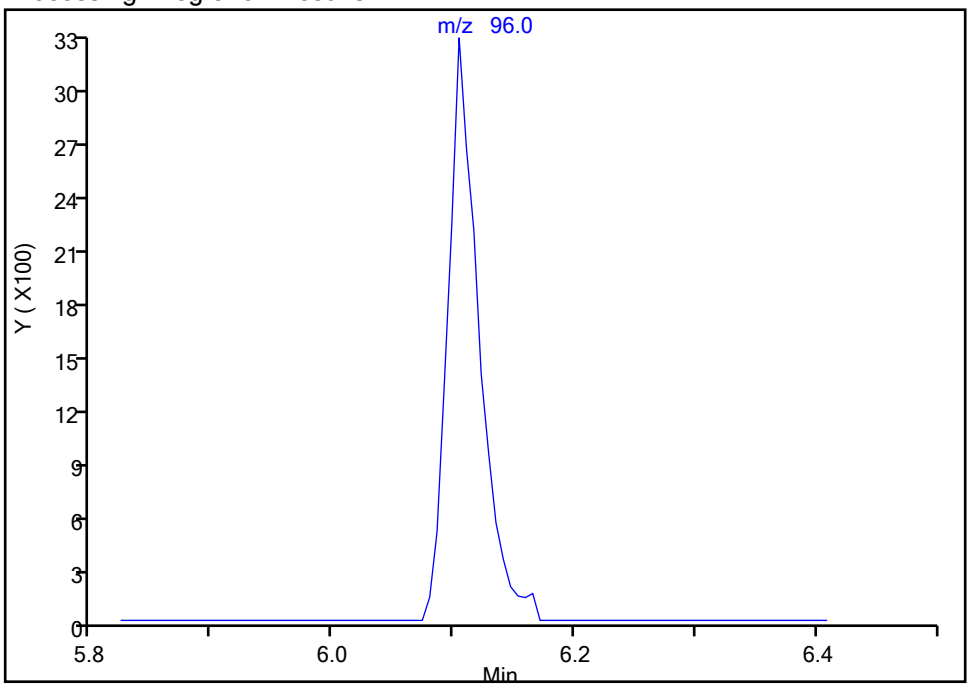
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

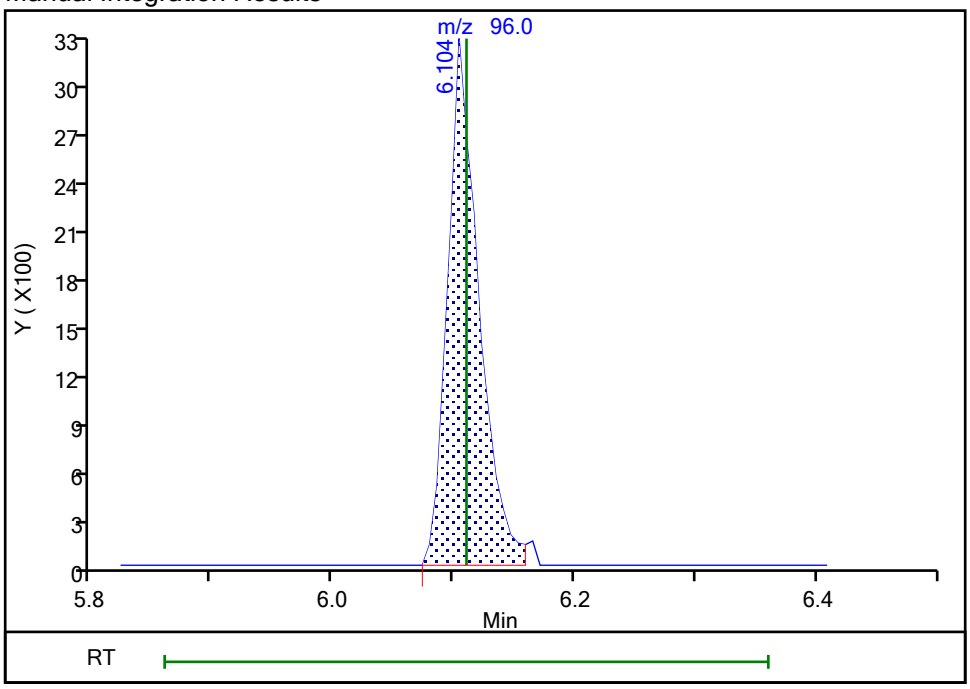
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5844
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:24
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Oct-2020 05:55:30 ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:13 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:11:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	167322	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5677	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	124837	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59225	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	37176	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	162720	50.0	50.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	94	49121	50.0	50.7	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	13191	4.00	3.85	M
10 Chloromethane	50	1.526	1.526	0.000	96	9945	4.00	3.94	M
11 Vinyl chloride	62	1.532	1.532	0.000	97	12037	4.00	3.90	
12 Butadiene	54	1.568	1.568	0.000	96	11544	4.00	3.70	M
14 Chloroethane	64	1.916	1.910	0.006	96	6617	4.00	3.71	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	98	16569	4.00	3.88	M
13 Bromomethane	94	1.837	2.166	-0.329	87	2893	4.00	3.73	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	98	15562	4.00	3.82	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

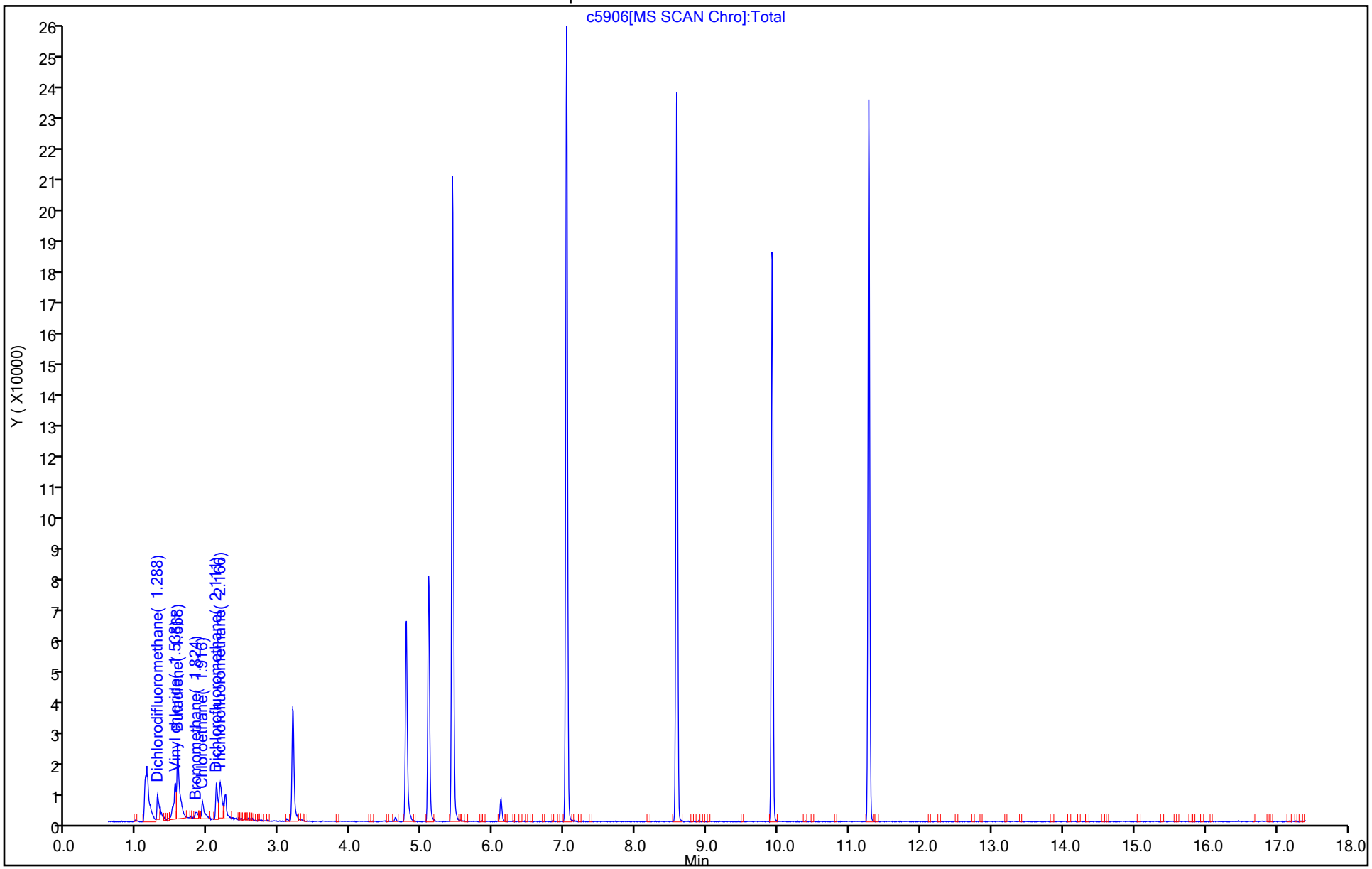
VV_I_GASES_00409 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:13 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D

Injection Date:	14-Oct-2020 05:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std4			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	46
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

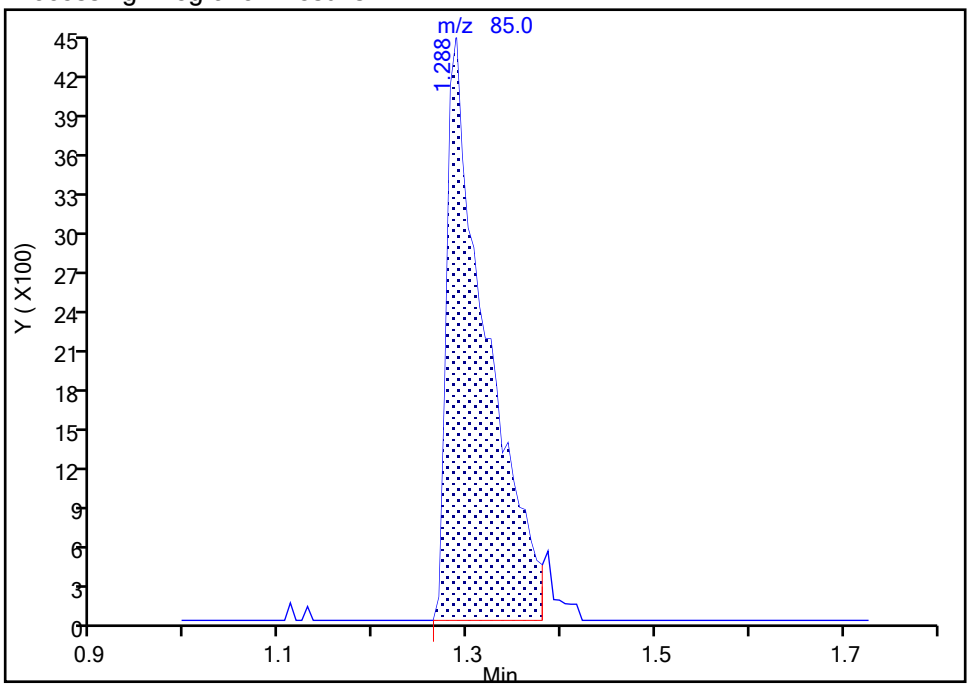
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

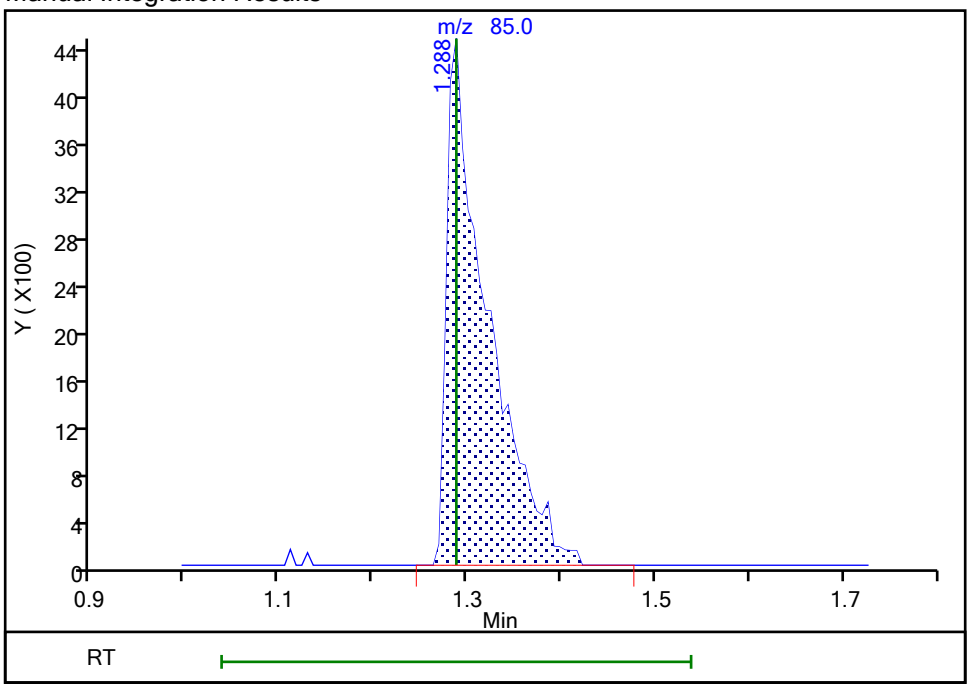
Processing Integration Results

RT: 1.29
Area: 12751
Amount: 4.009127
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 13191
Amount: 3.854643
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

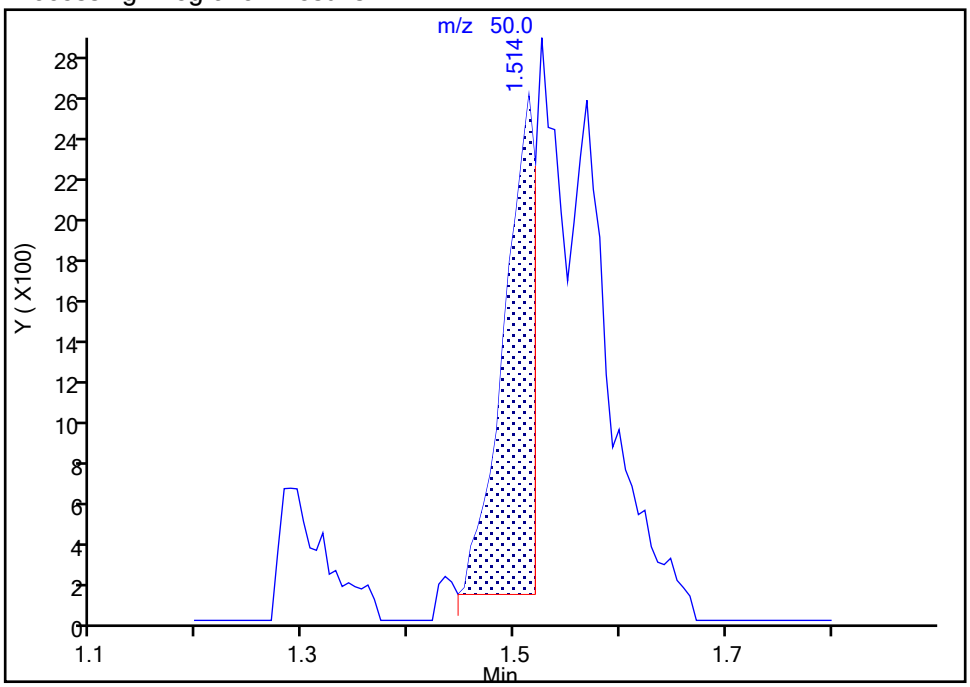
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

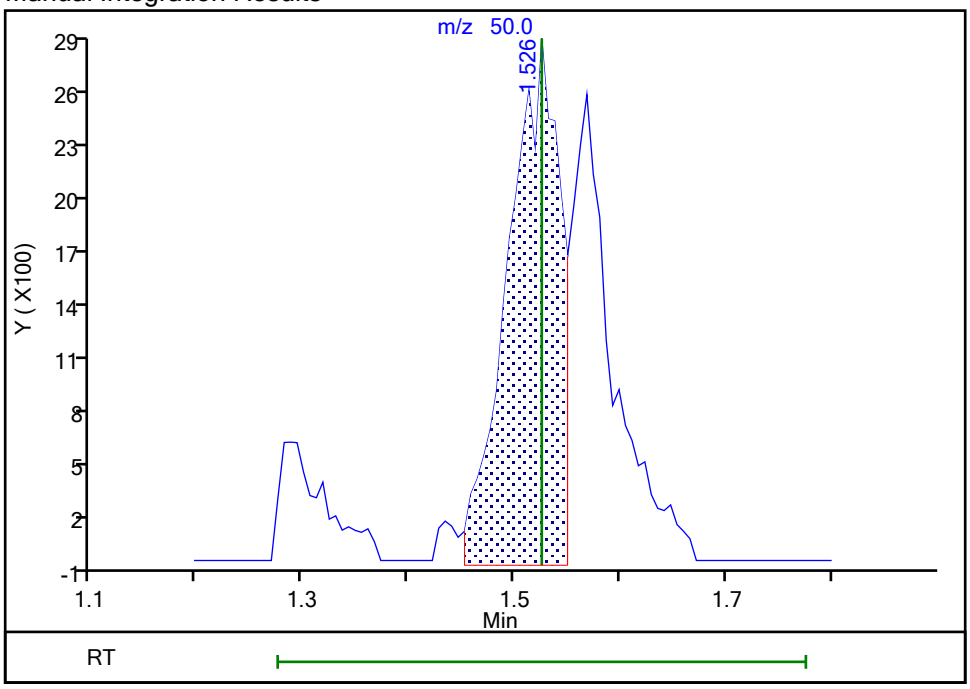
Processing Integration Results

RT: 1.51
Area: 5081
Amount: 2.704163
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 9945
Amount: 3.943250
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

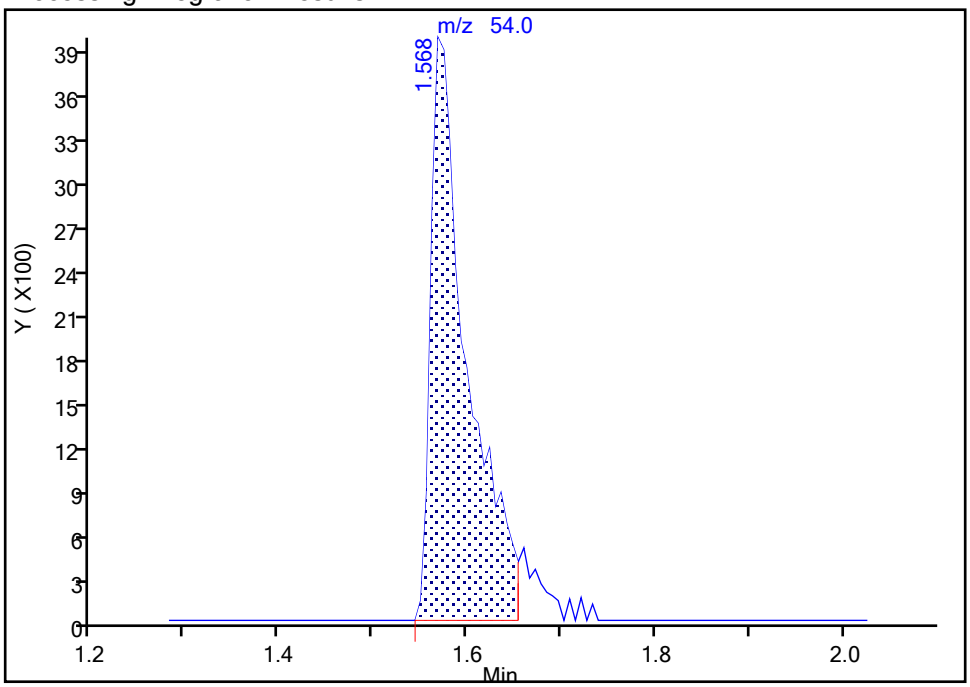
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

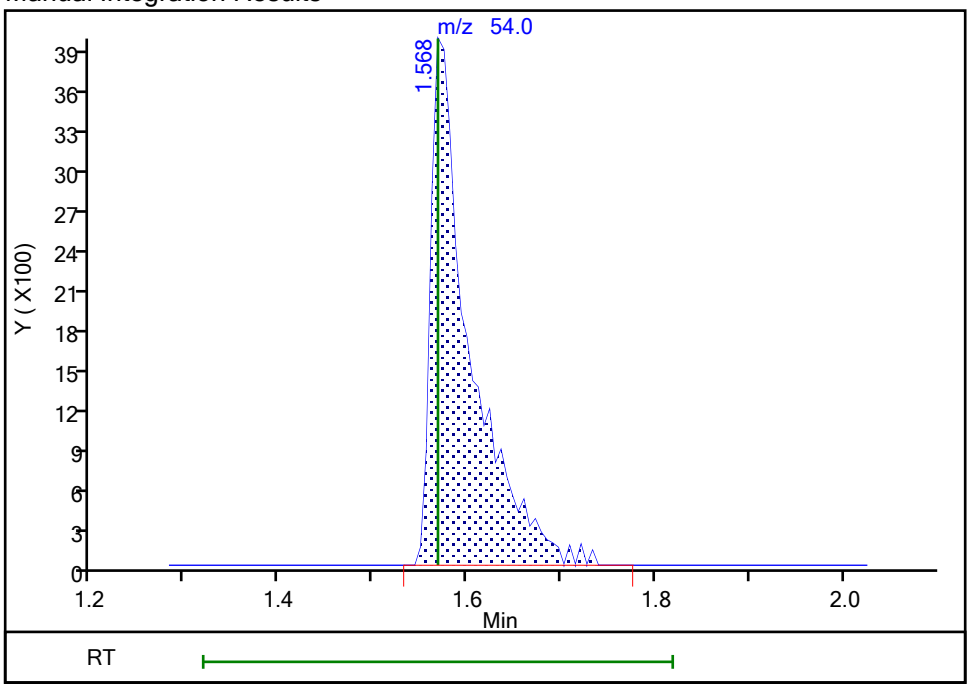
Processing Integration Results

RT: 1.57
Area: 10706
Amount: 3.847587
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 11544
Amount: 3.700808
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

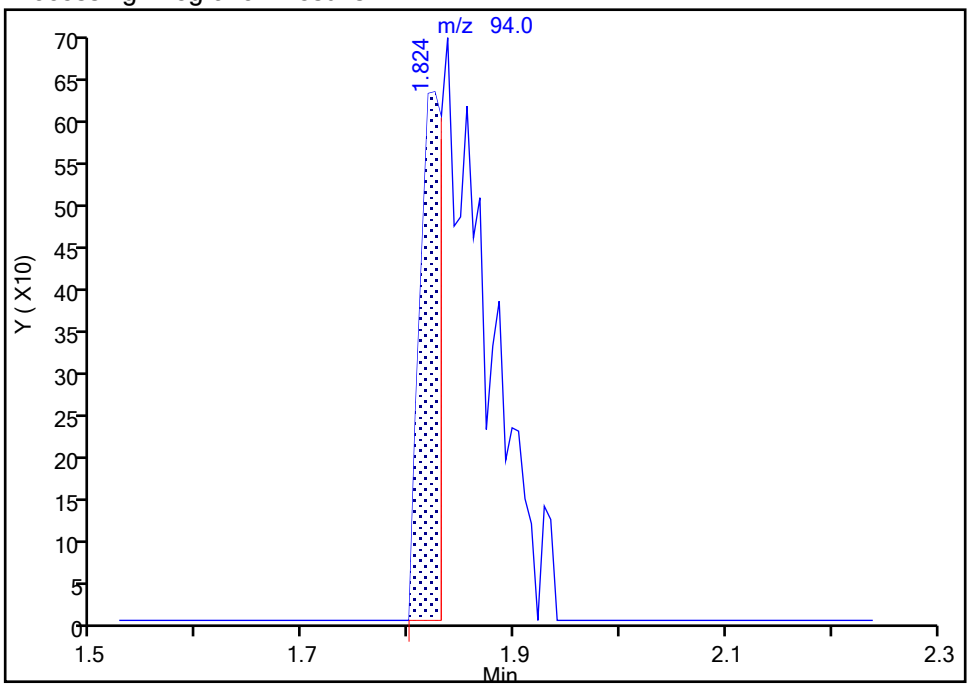
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

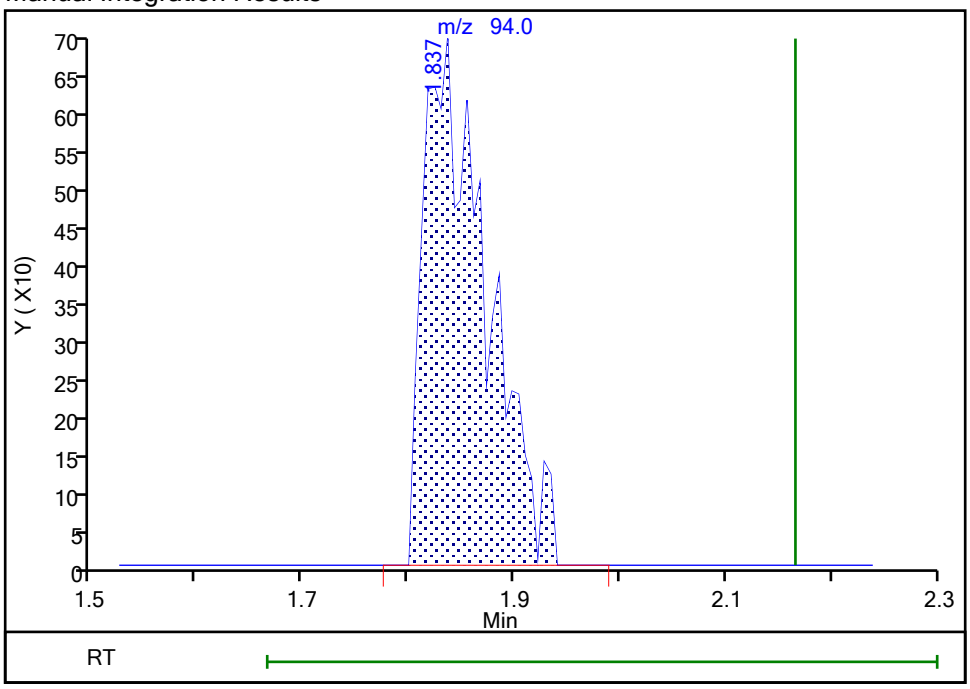
Processing Integration Results

RT: 1.82
Area: 936
Amount: 1.722446
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 2893
Amount: 3.732795
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

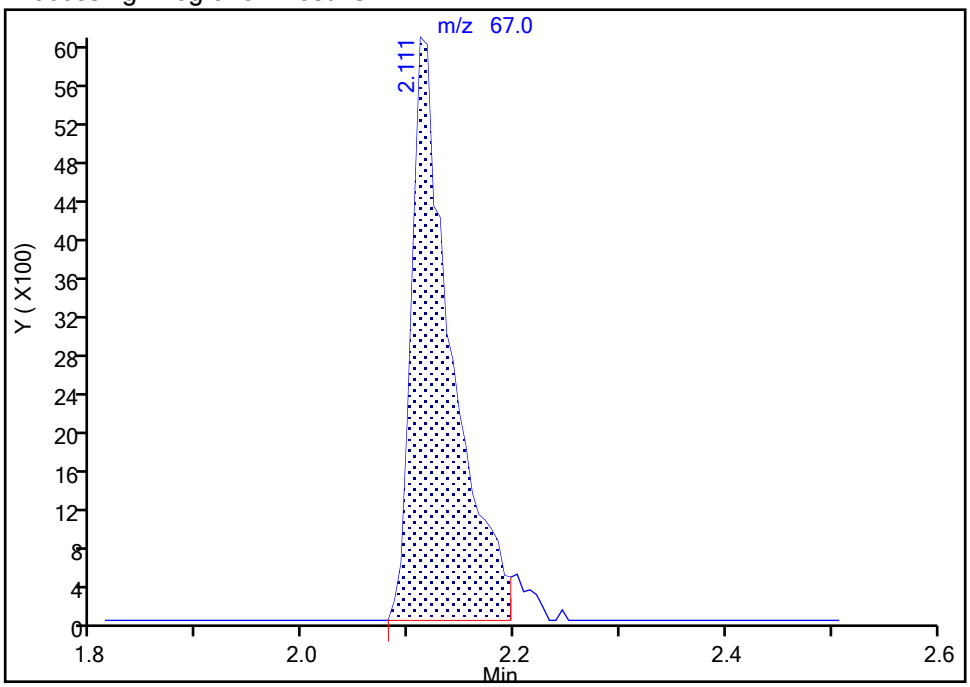
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

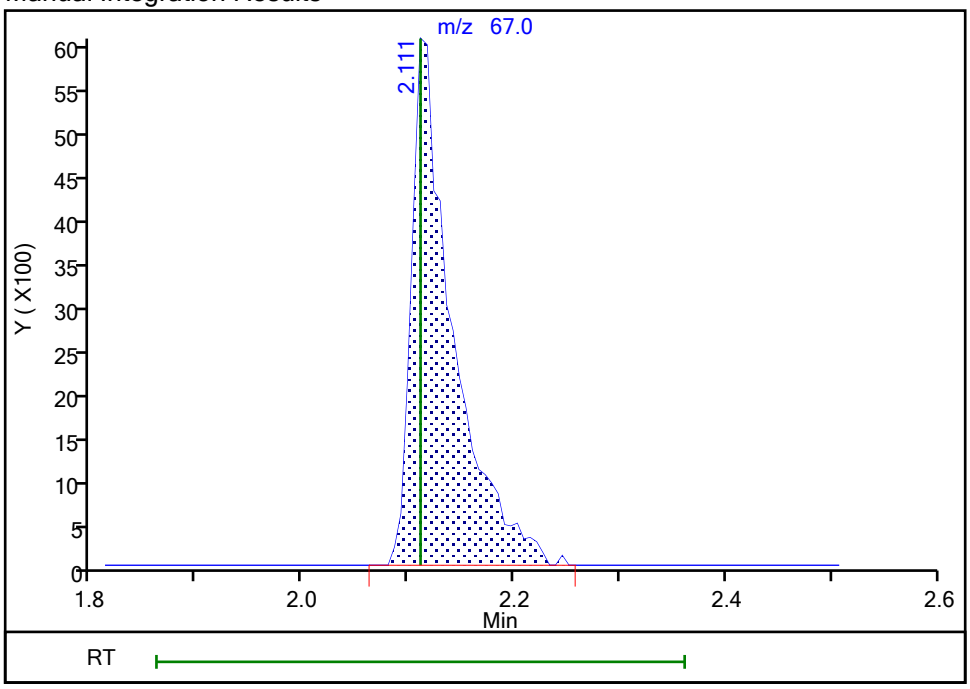
Processing Integration Results

RT: 2.11
Area: 15977
Amount: 3.992984
Amount Units: ug/l



Manual Integration Results

RT: 2.11
Area: 16569
Amount: 3.882443
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

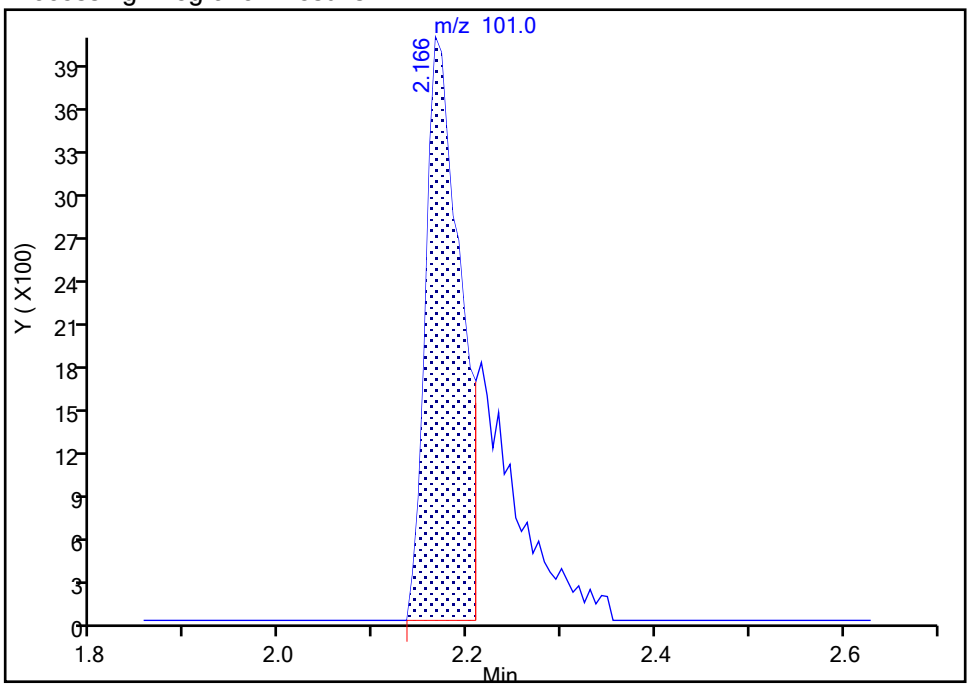
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

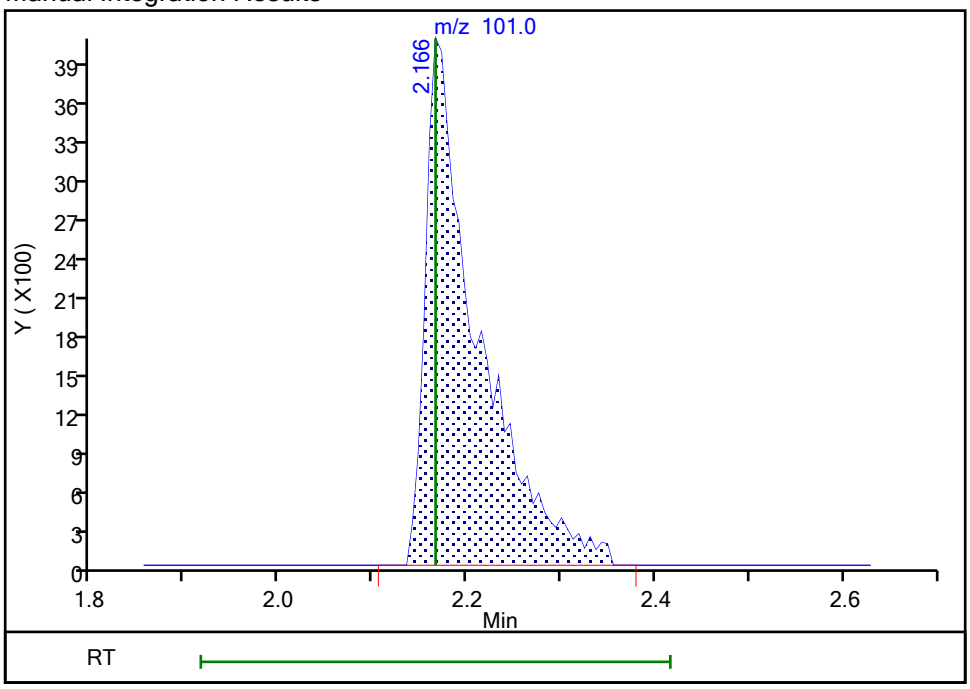
Processing Integration Results

RT: 2.17
Area: 10456
Amount: 3.050030
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 15562
Amount: 3.816501
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

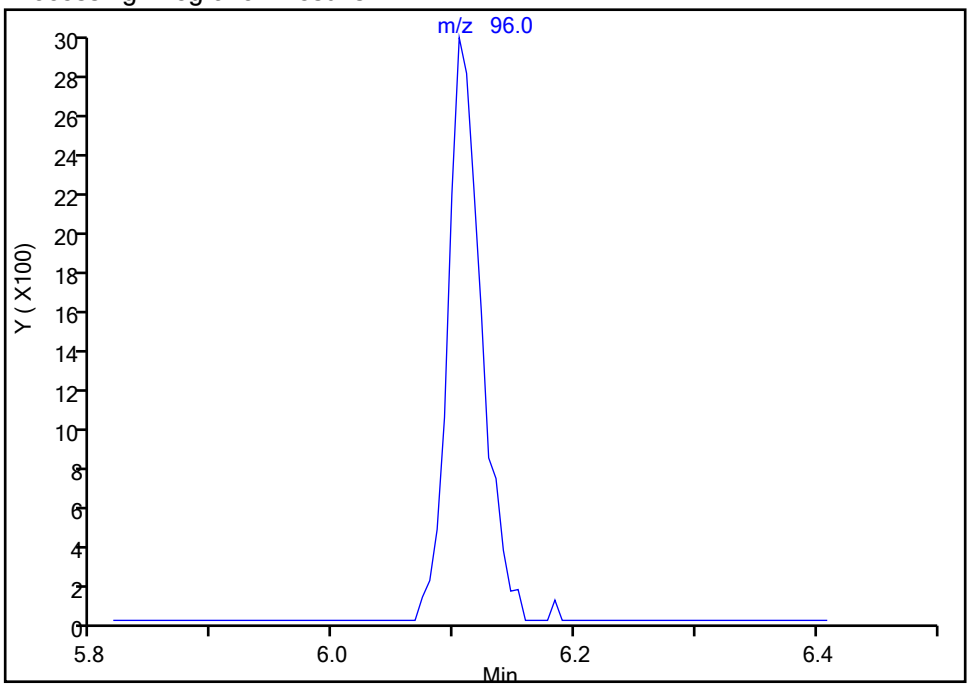
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

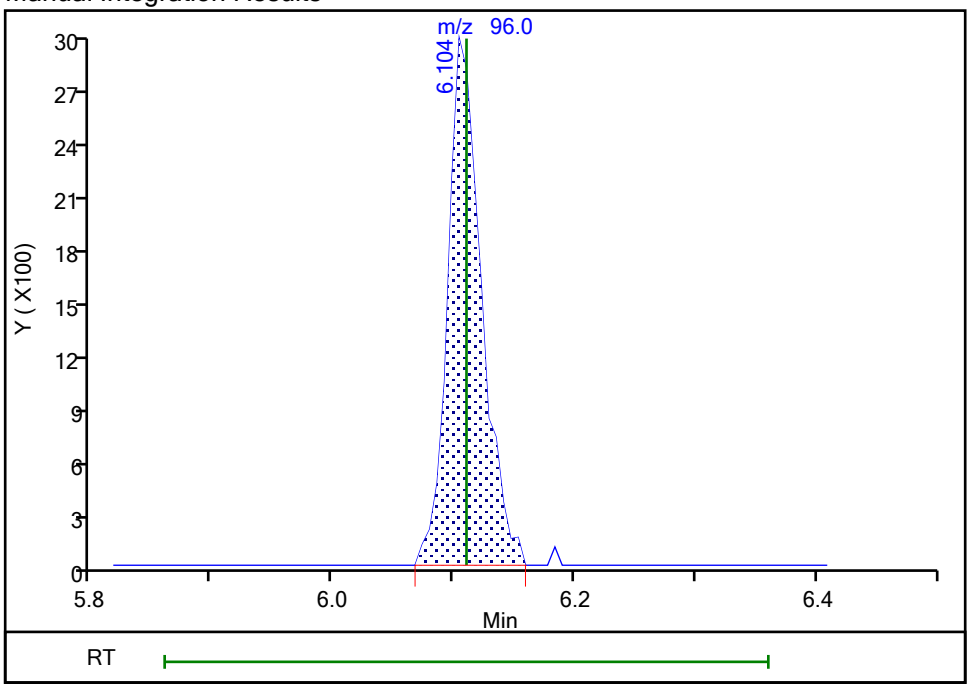
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5677
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Oct-2020 06:19:30 ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:16 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:11:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	176574	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6009	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	133943	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	63342	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	93	38558	50.0	48.7	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	171682	50.0	50.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	86	50266	50.0	48.5	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	33695	10.0	9.33	
10 Chloromethane	50	1.526	1.526	0.000	87	23945	10.0	9.00	
11 Vinyl chloride	62	1.538	1.532	0.006	99	30256	10.0	9.30	
12 Butadiene	54	1.568	1.568	0.000	95	29106	10.0	8.84	
14 Chloroethane	64	1.916	1.910	0.006	98	17163	10.0	9.12	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	98	41553	10.0	9.23	
13 Bromomethane	94	1.831	2.166	-0.335	89	8433	10.0	9.51	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	99	41185	10.0	9.57	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

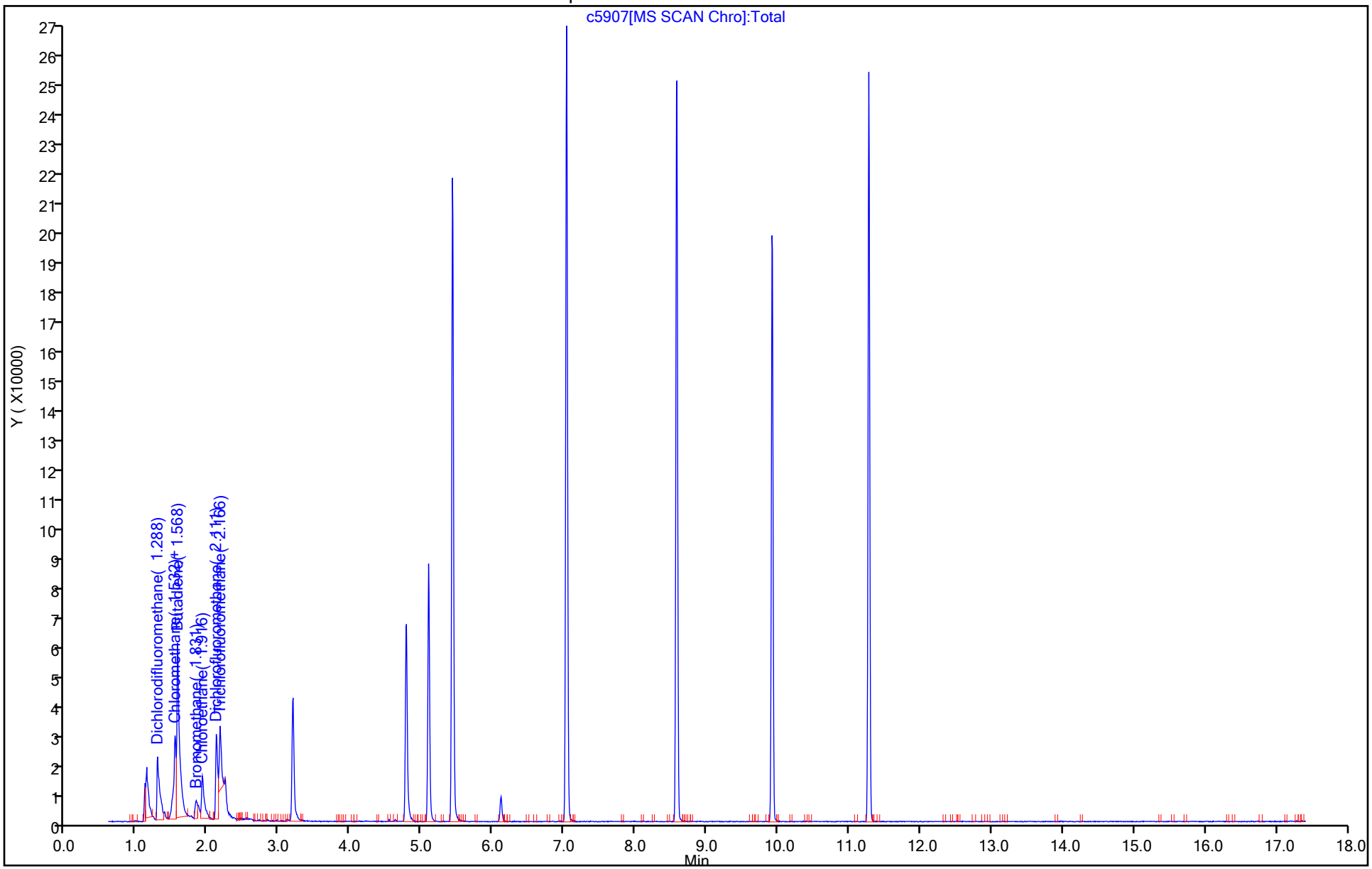
VV_I_GASES_00409 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:17 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D

Injection Date:	14-Oct-2020 06:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std5			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

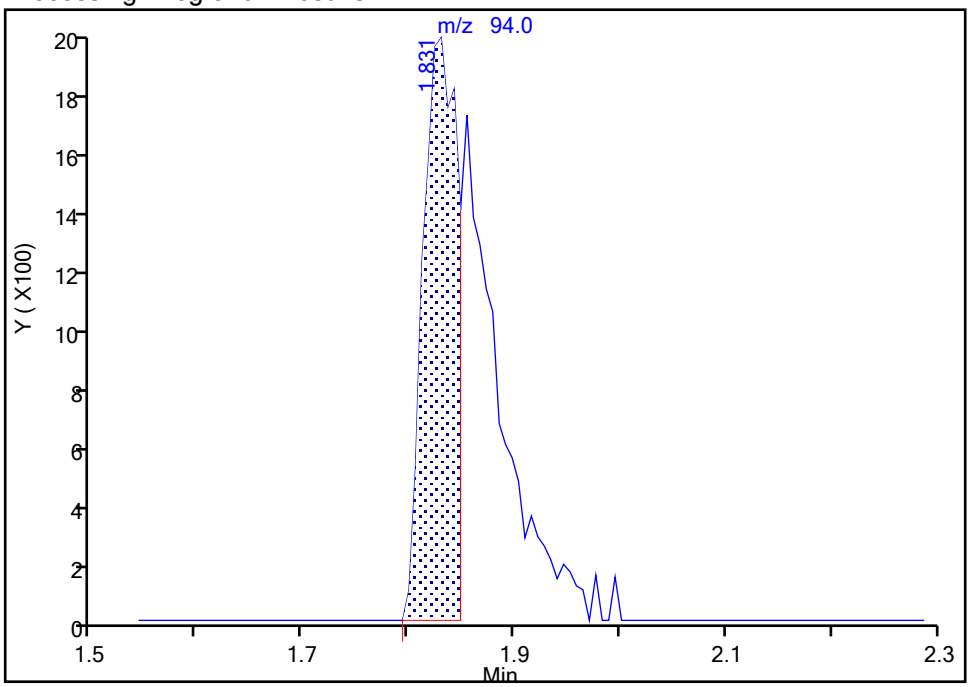
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

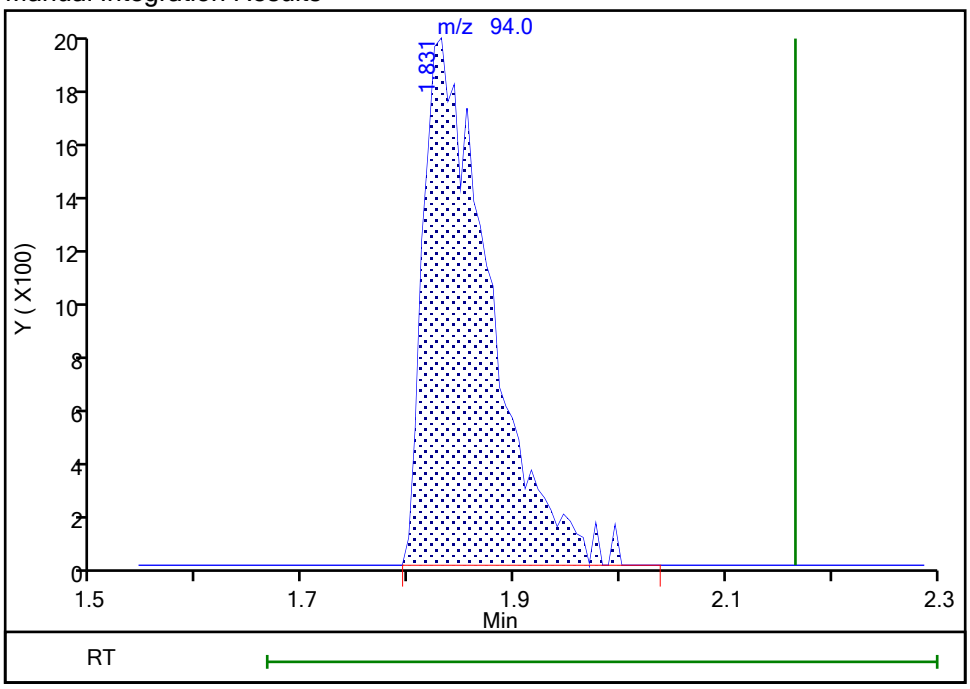
Processing Integration Results

RT: 1.83
Area: 4401
Amount: 5.775254
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 8433
Amount: 9.510044
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

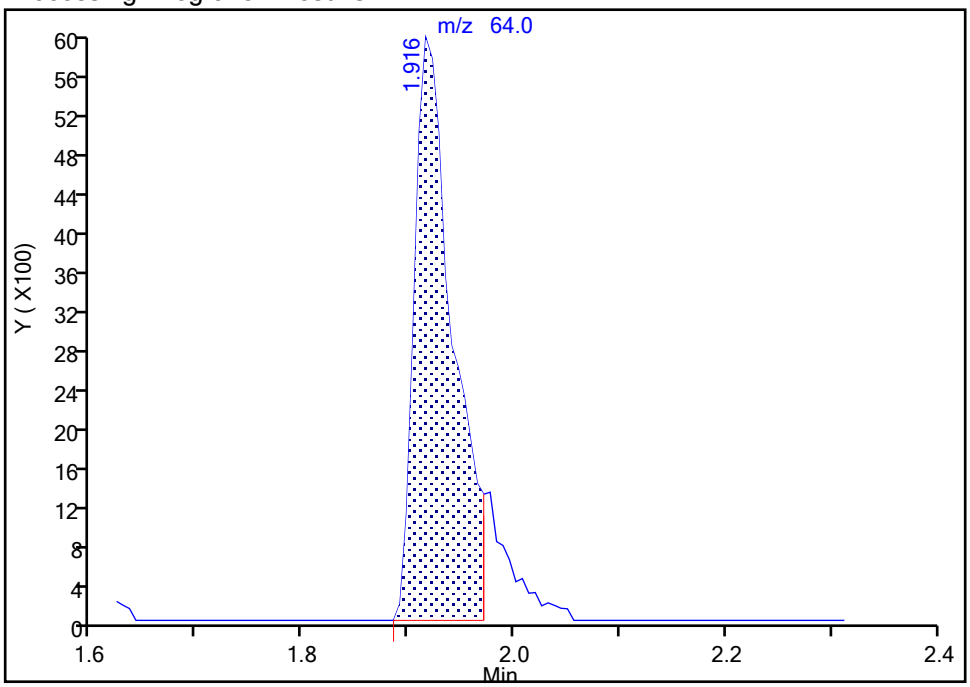
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

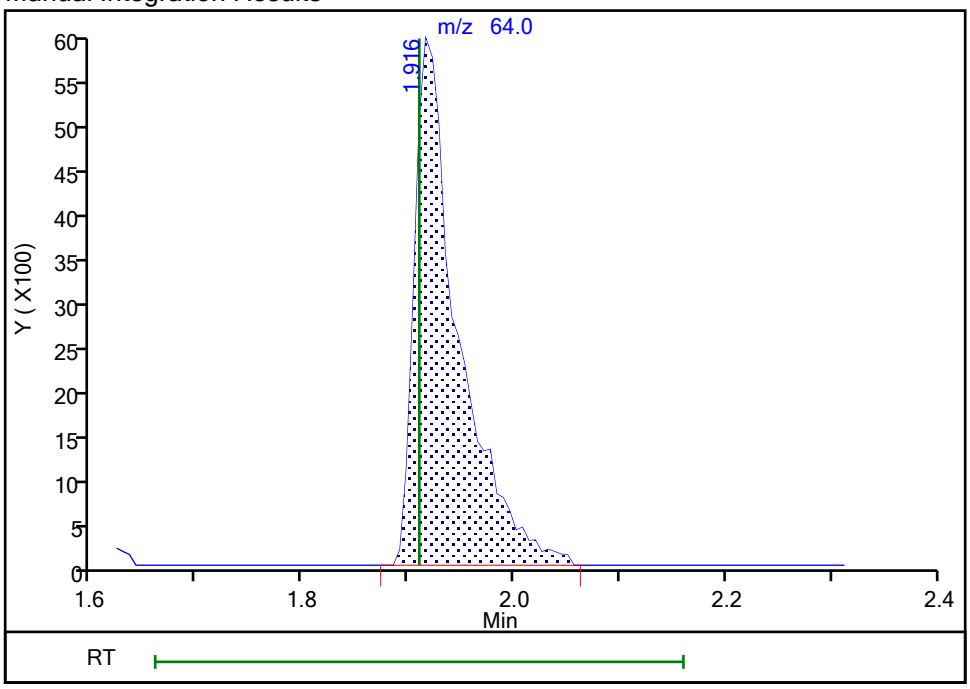
Processing Integration Results

RT: 1.92
Area: 15124
Amount: 8.692426
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 17163
Amount: 9.117772
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

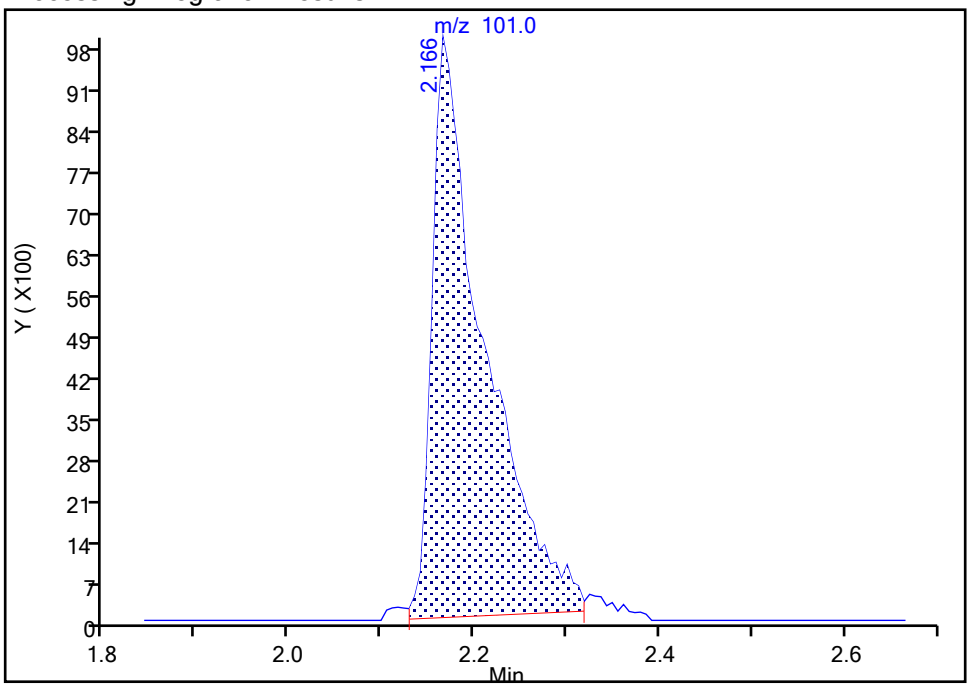
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

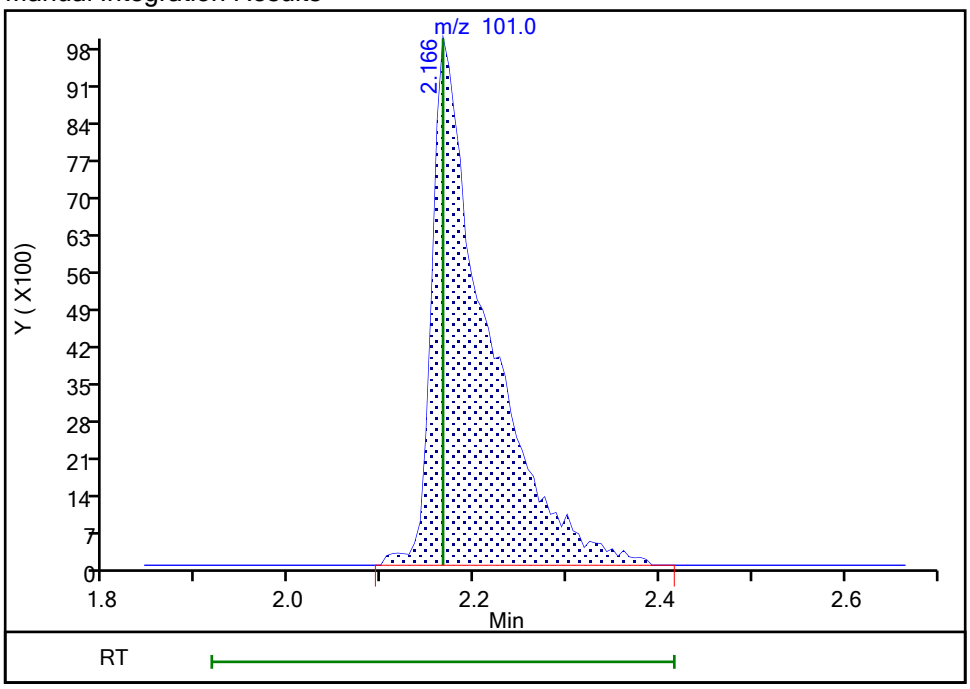
Processing Integration Results

RT: 2.17
Area: 38822
Amount: 10.104012
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 41185
Amount: 9.571176
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

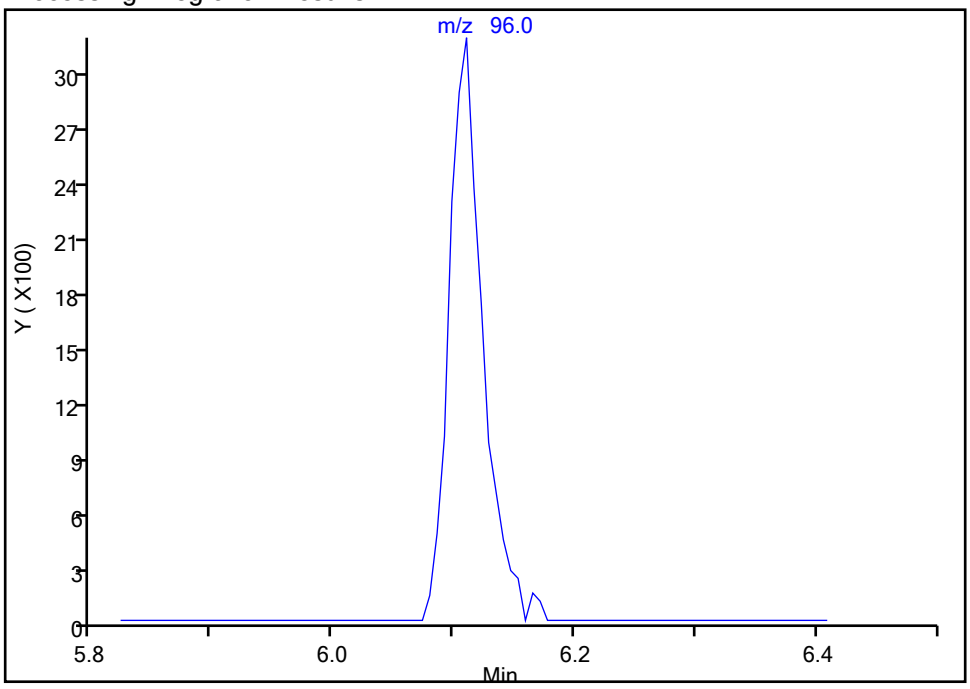
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

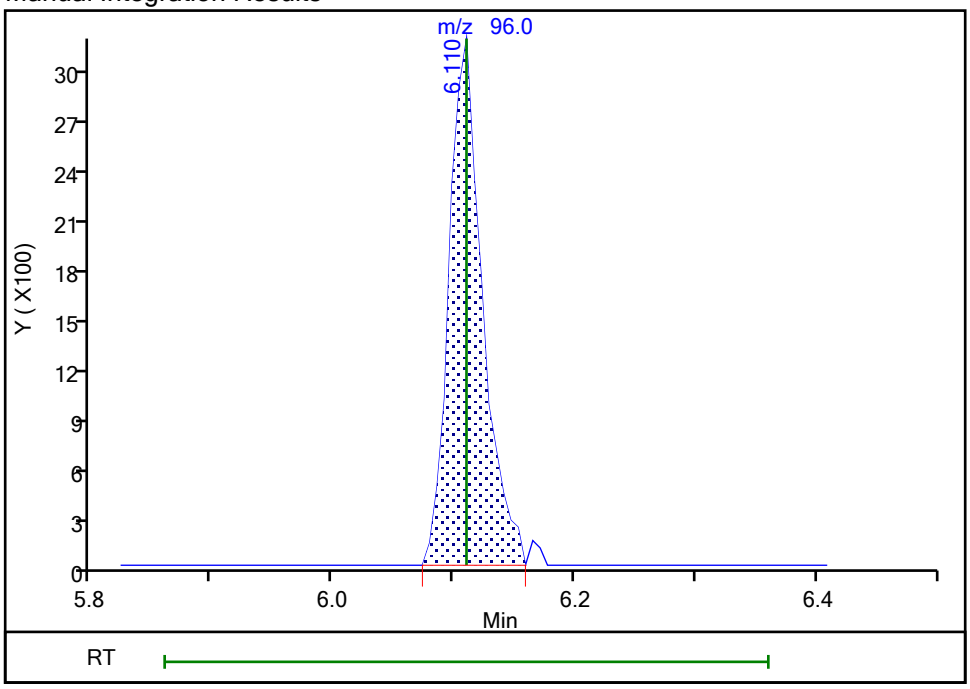
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6009
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:32
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Oct-2020 06:44:30 ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:19 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:21:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	177609	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	75	6057	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	136846	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	63899	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	39853	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	174678	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	85	52415	50.0	50.1	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	71642	20.0	19.7	
10 Chloromethane	50	1.514	1.526	-0.012	99	50038	20.0	18.7	M
11 Vinyl chloride	62	1.532	1.532	0.000	98	60599	20.0	18.5	
12 Butadiene	54	1.568	1.568	0.000	96	61863	20.0	18.7	
14 Chloroethane	64	1.916	1.910	0.006	99	35084	20.0	18.5	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	98	82355	20.0	18.2	
13 Bromomethane	94	1.837	2.166	-0.329	85	20437	20.0	22.3	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	97	80306	20.0	18.6	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

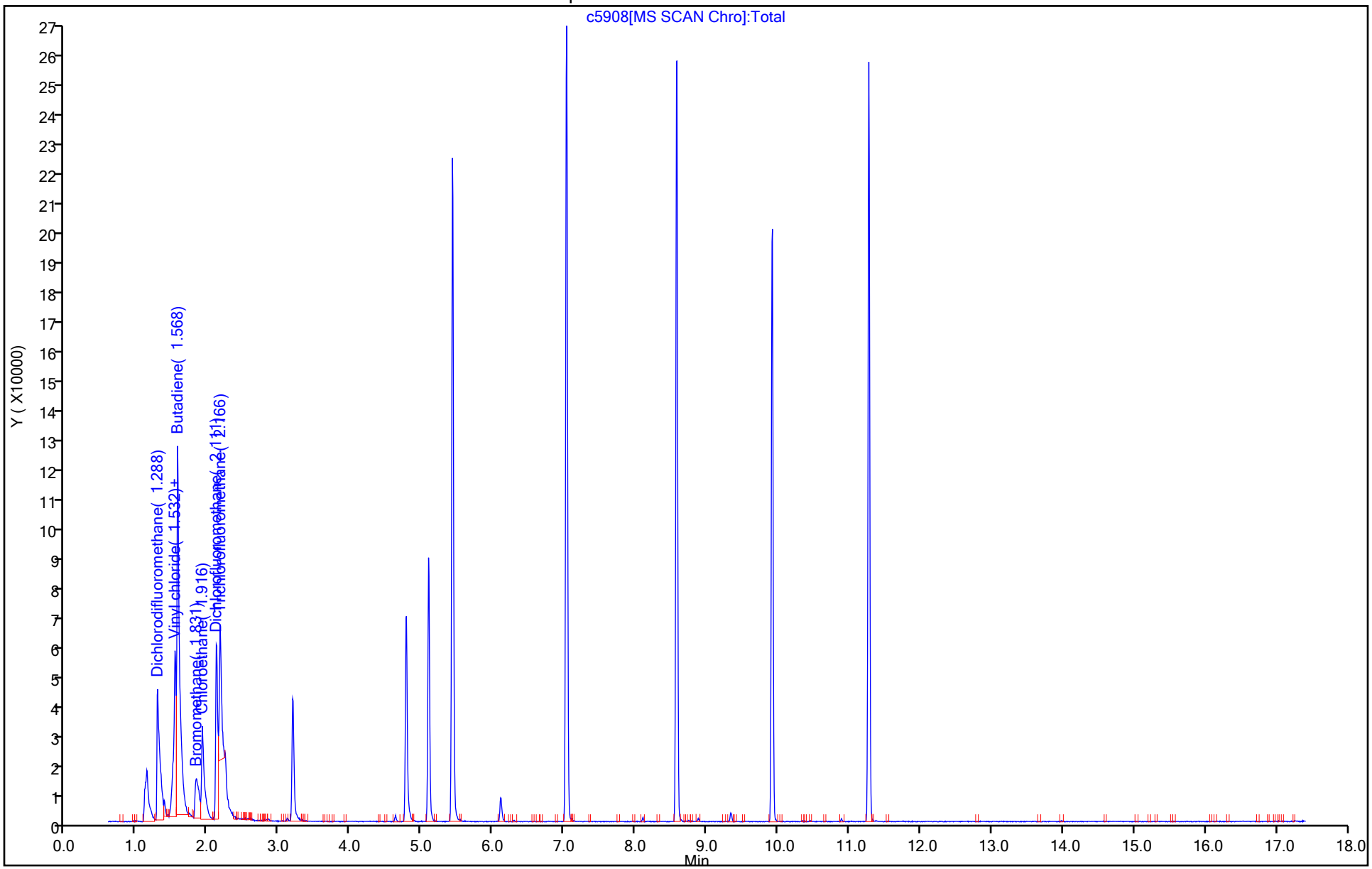
VV_I_GASES_00409 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D

Injection Date:	14-Oct-2020 06:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std6			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

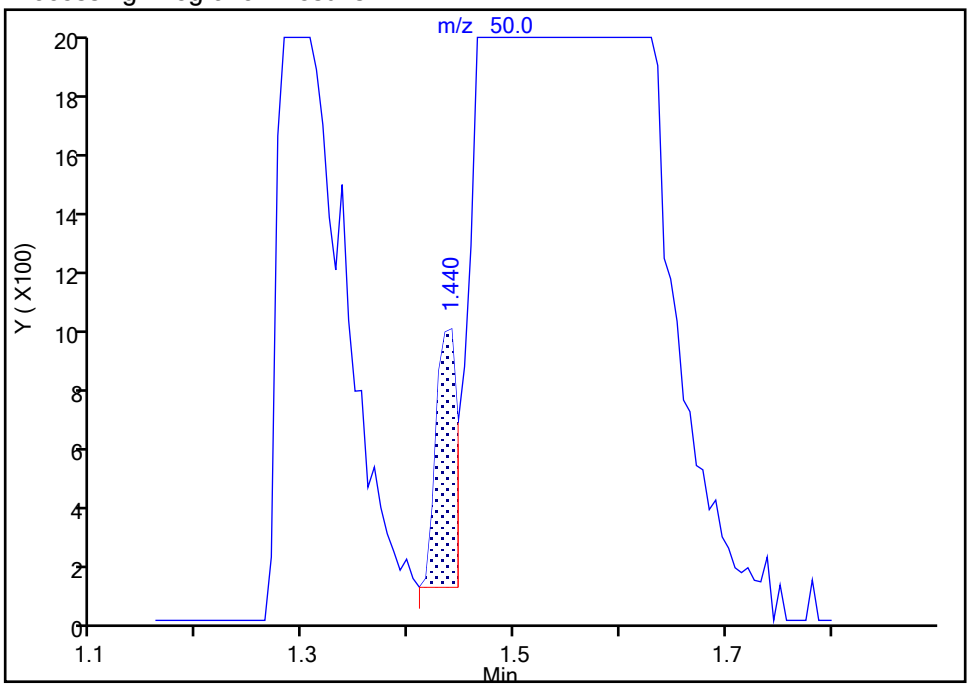
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Injection Date: 14-Oct-2020 06:44:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

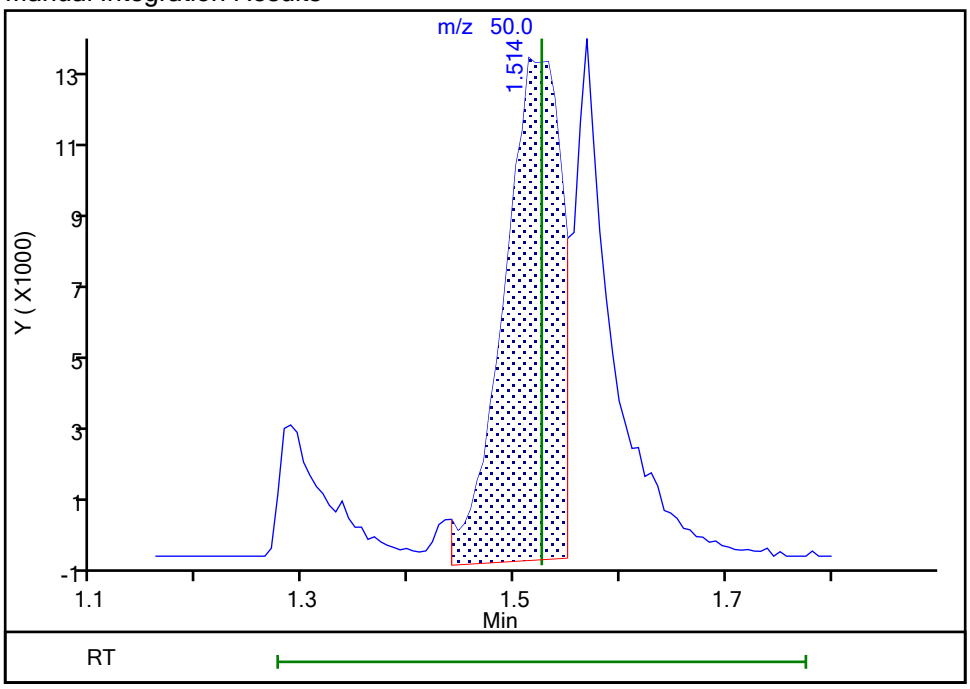
Processing Integration Results

RT: 1.44
Area: 1175
Amount: 0.516820
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 50038
Amount: 18.691214
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:15:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

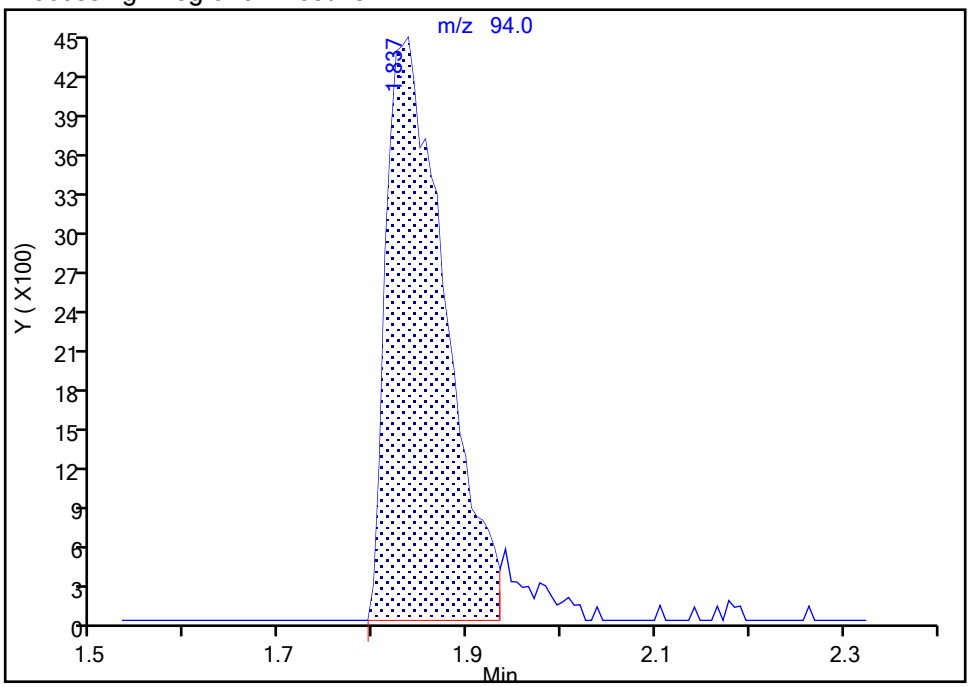
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Injection Date: 14-Oct-2020 06:44:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

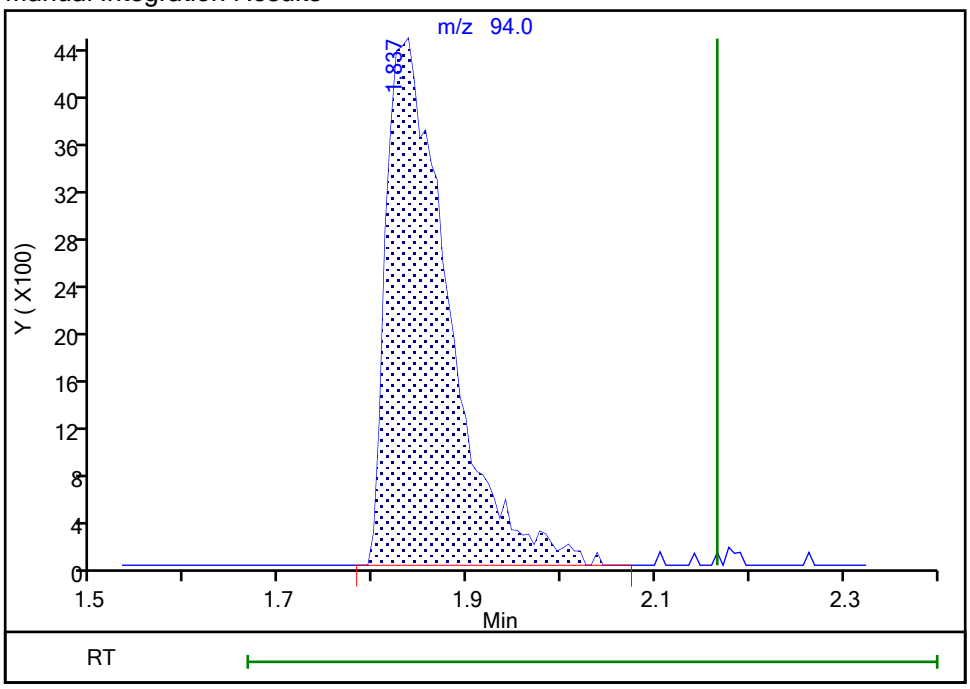
Processing Integration Results

RT: 1.84
Area: 19224
Amount: 16.613620
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 20437
Amount: 22.272432
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:15:06
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

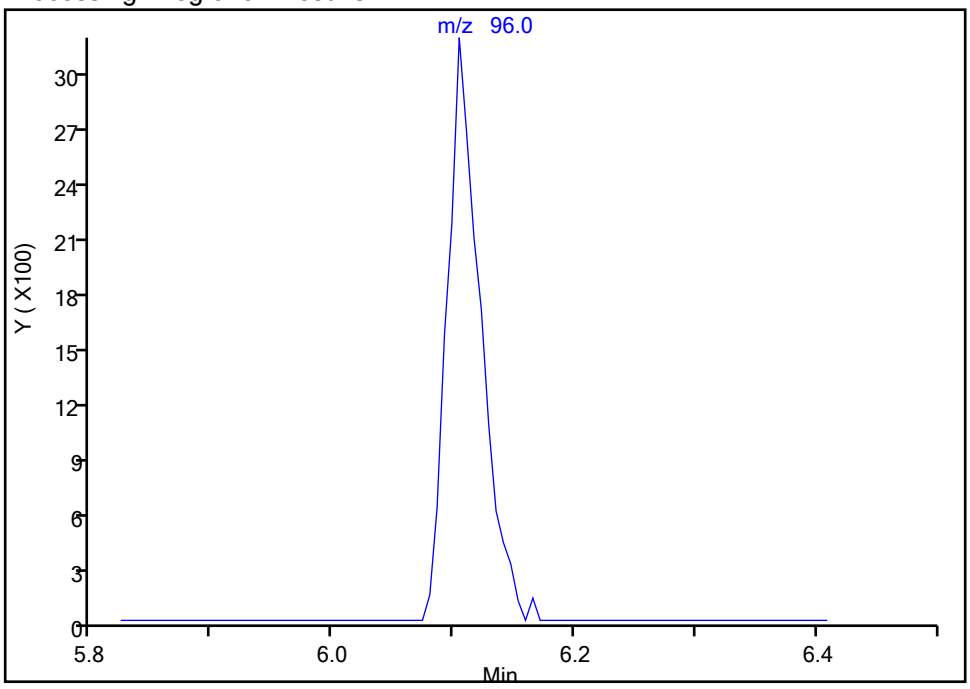
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Injection Date: 14-Oct-2020 06:44:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

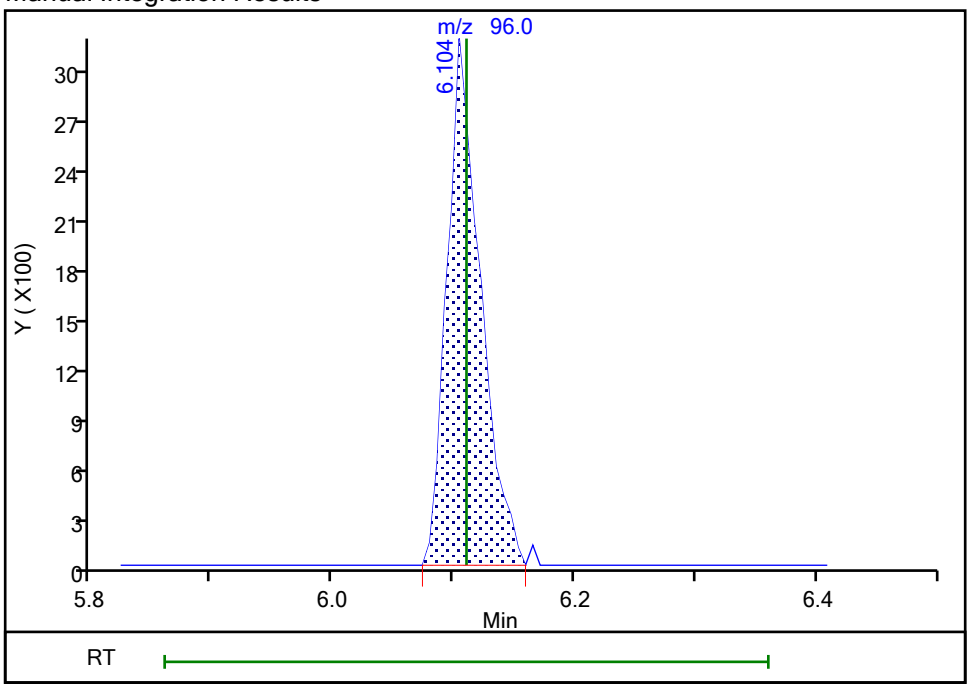
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 6057
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:15:51
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Oct-2020 07:41:30 ALS Bottle#: 50 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:35:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	165502	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5465	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	124735	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58257	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	93	37400	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	160880	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	85	47751	50.0	50.1	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	195526	50.0	57.8	
10 Chloromethane	50	1.532	1.526	0.006	61	123795	50.0	49.6	
11 Vinyl chloride	62	1.538	1.532	0.006	99	166484	50.0	54.6	
12 Butadiene	54	1.568	1.568	0.000	95	175377	50.0	56.8	
14 Chloroethane	64	1.916	1.910	0.006	99	93407	50.0	52.9	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	99	224917	50.0	53.3	
13 Bromomethane	94	1.849	2.166	-0.317	90	71172	50.0	82.0	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	221164	50.0	54.8	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

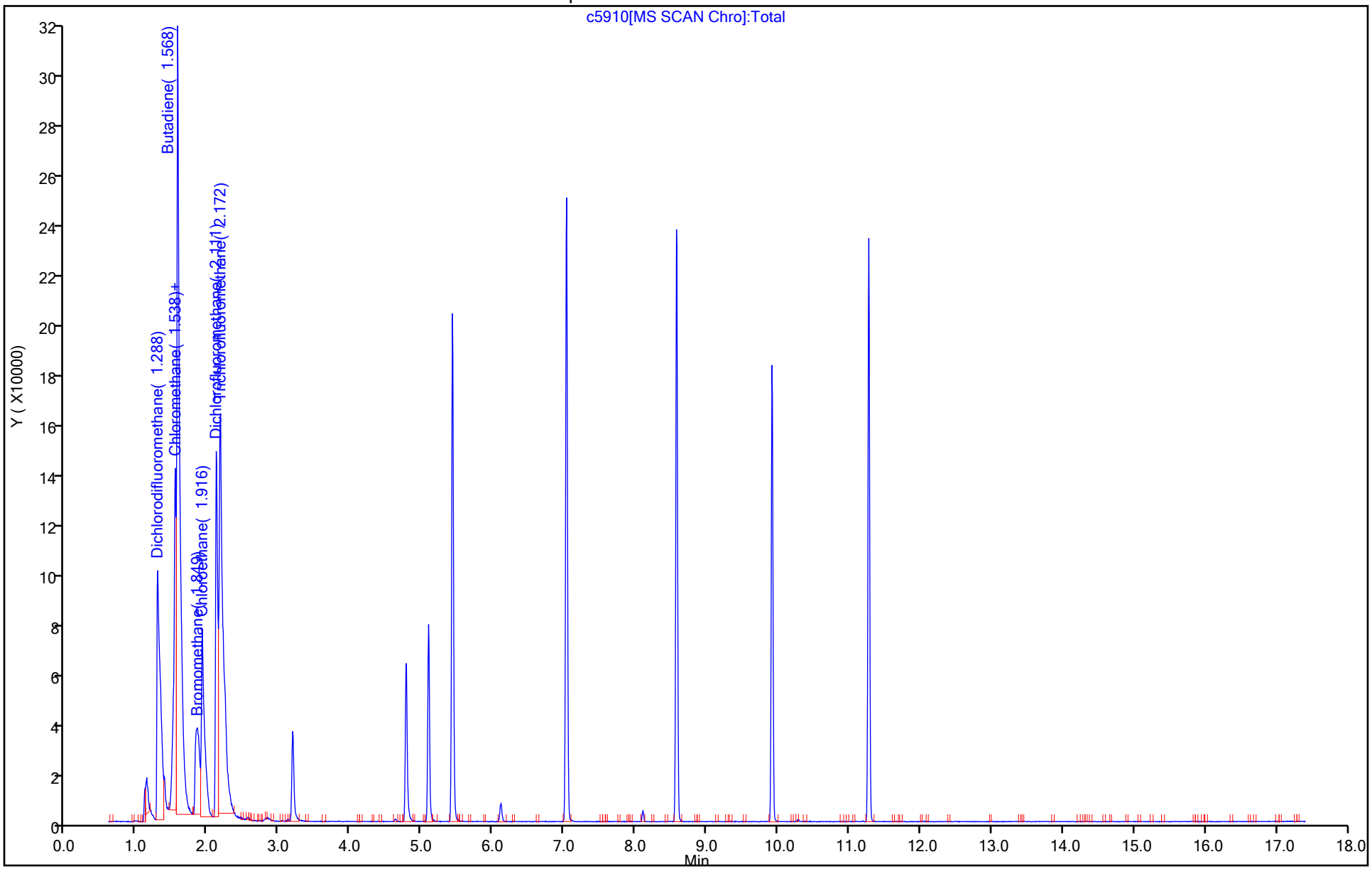
VV_I_GASES_00409 Amount Added: 50.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:23 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D

Injection Date:	14-Oct-2020 07:41:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std7			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

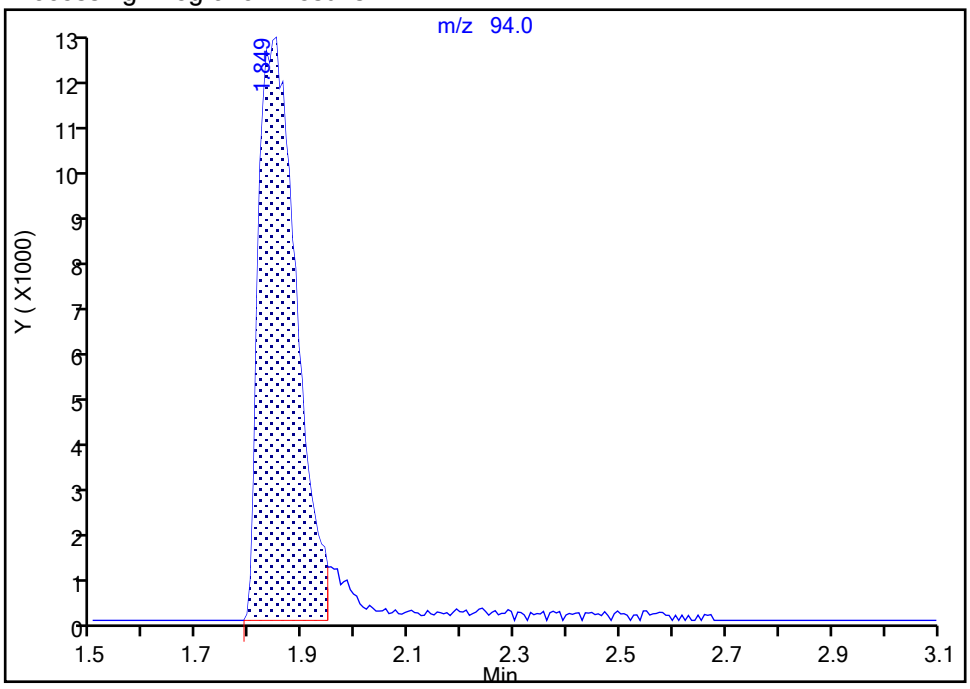
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D
Injection Date: 14-Oct-2020 07:41:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 50 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

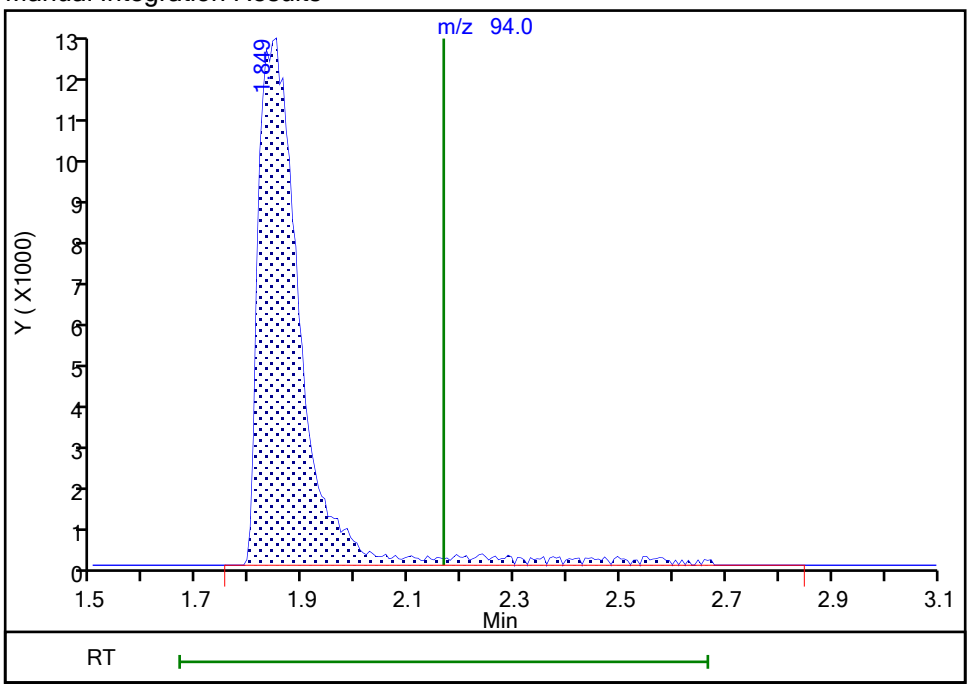
Processing Integration Results

RT: 1.85
Area: 62503
Amount: 55.804356
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 71172
Amount: 81.994080
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:16:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

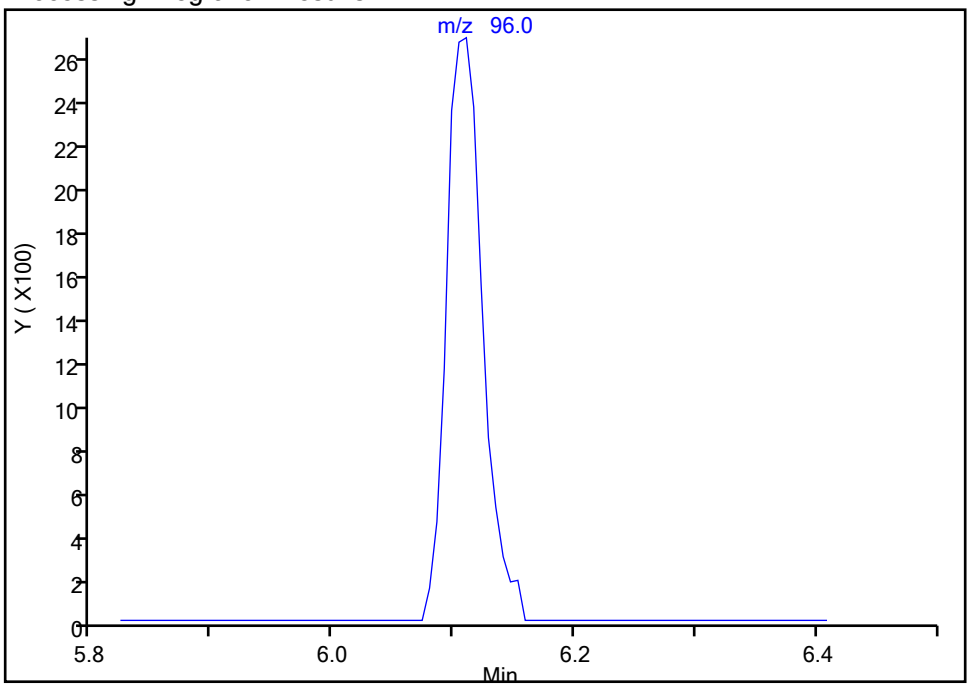
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D
Injection Date: 14-Oct-2020 07:41:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 50 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

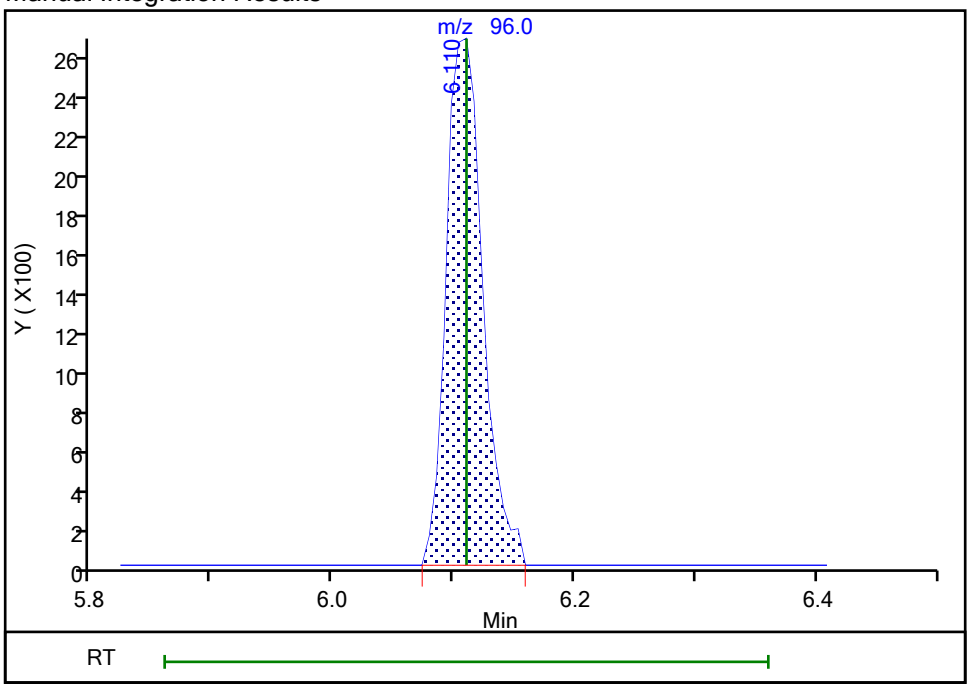
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5465
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:16:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D
Lims ID: std8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Oct-2020 08:05:30 ALS Bottle#: 51 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:25 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:51:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	161063	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5466	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	124134	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	58304	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	37645	50.0	52.2	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	156890	50.0	49.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	46900	50.0	49.2	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	387602	100.0	117.7	
10 Chloromethane	50	1.526	1.526	0.000	92	275364	100.0	113.4	
11 Vinyl chloride	62	1.532	1.532	0.000	99	335812	100.0	113.1	
12 Butadiene	54	1.568	1.568	0.000	95	352639	100.0	117.4	
14 Chloroethane	64	1.916	1.916	0.000	99	190791	100.0	111.1	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	97	454200	100.0	110.6	
13 Bromomethane	94	1.837	1.837	0.000	92	150021	100.0	177.1	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	99	465362	100.0	118.6	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

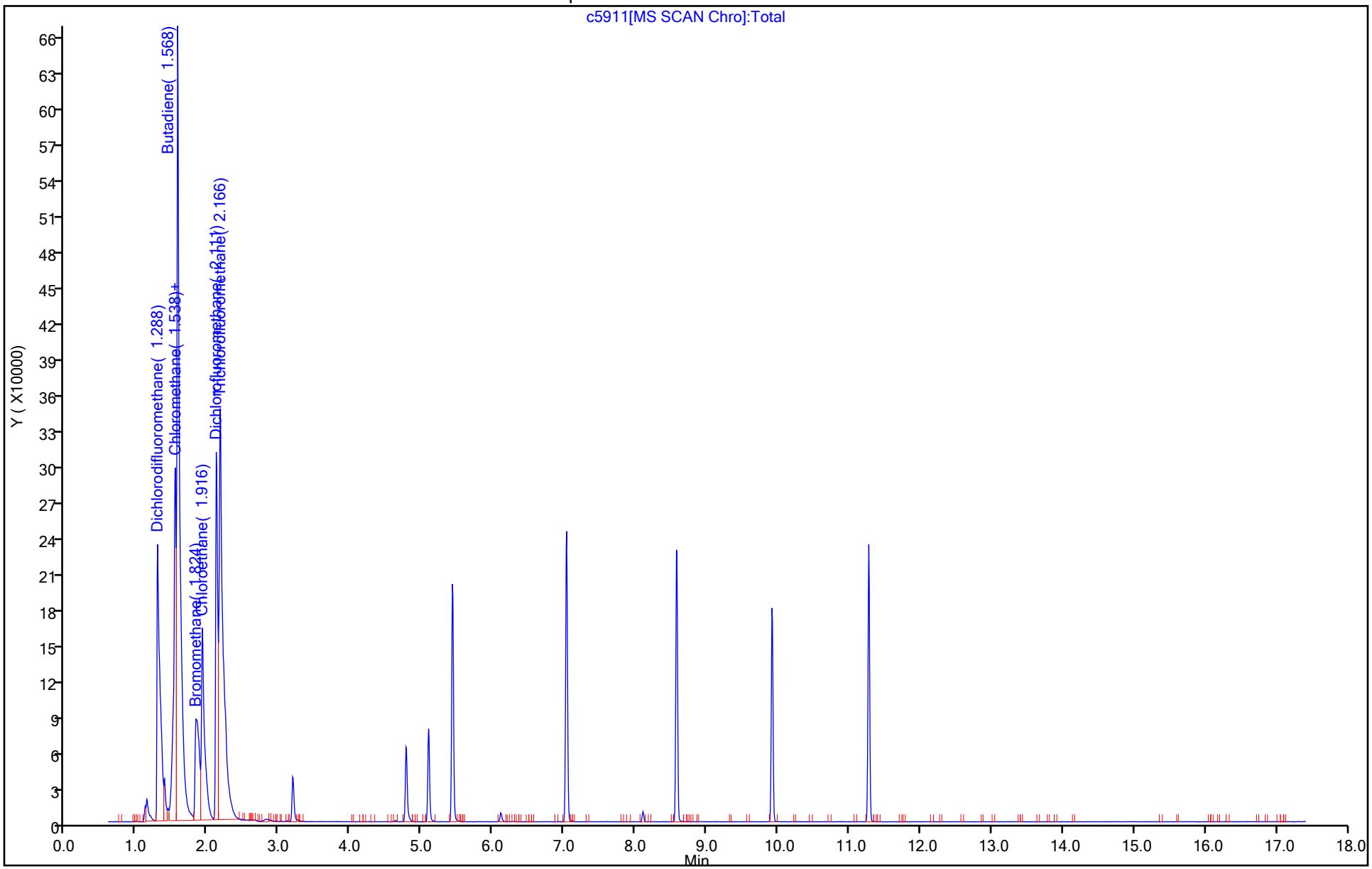
VV_I_GASES_00409 Amount Added: 100.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D

Injection Date:	14-Oct-2020 08:05:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std8			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

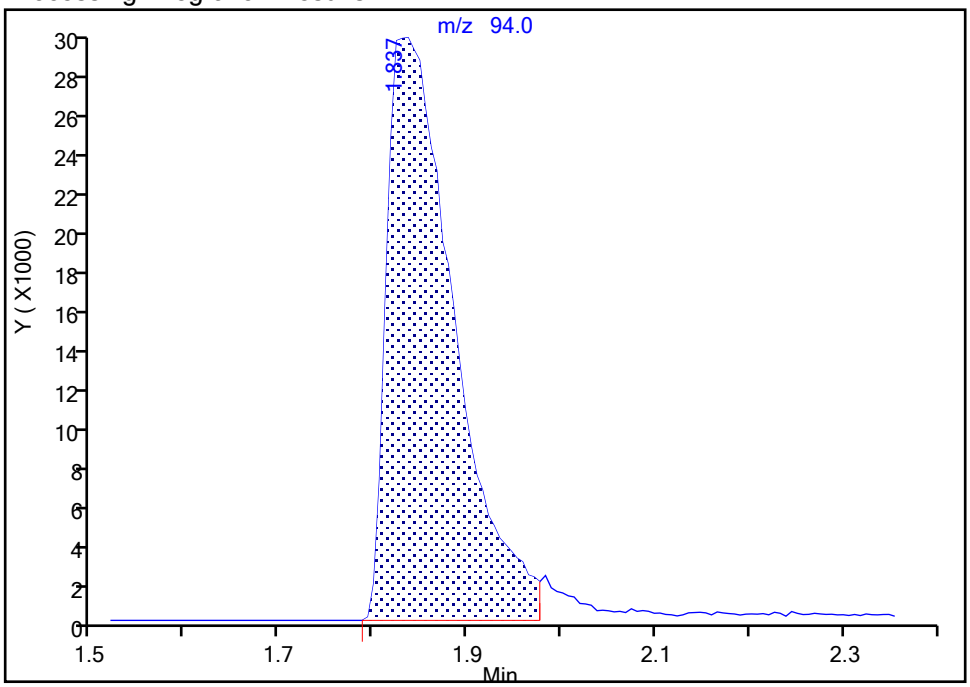
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D
Injection Date: 14-Oct-2020 08:05:30 Instrument ID: Calvin
Lims ID: std8
Client ID:
Operator ID: sjn ALS Bottle#: 51 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

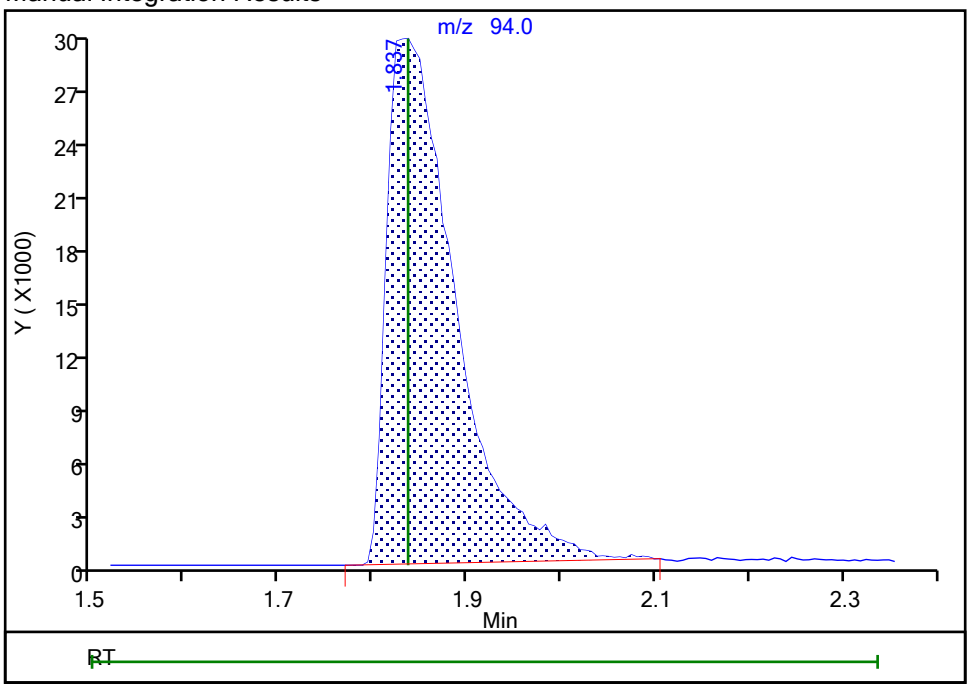
Processing Integration Results

RT: 1.84
Area: 147530
Amount: 174.3581
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 150021
Amount: 177.0660
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:37:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

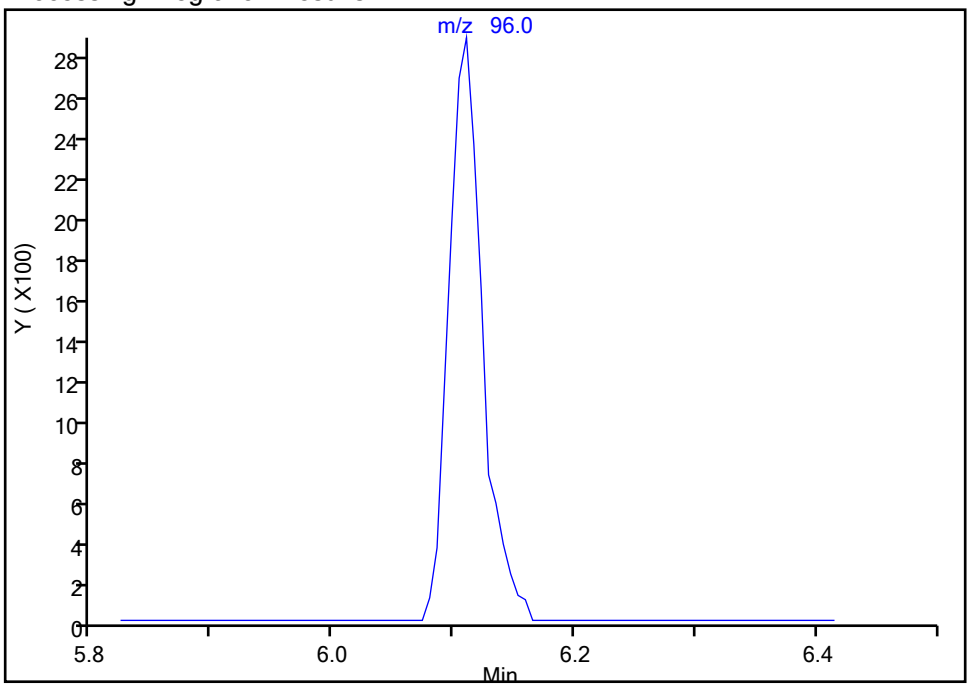
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D
Injection Date: 14-Oct-2020 08:05:30 Instrument ID: Calvin
Lims ID: std8
Client ID:
Operator ID: sjn ALS Bottle#: 51 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

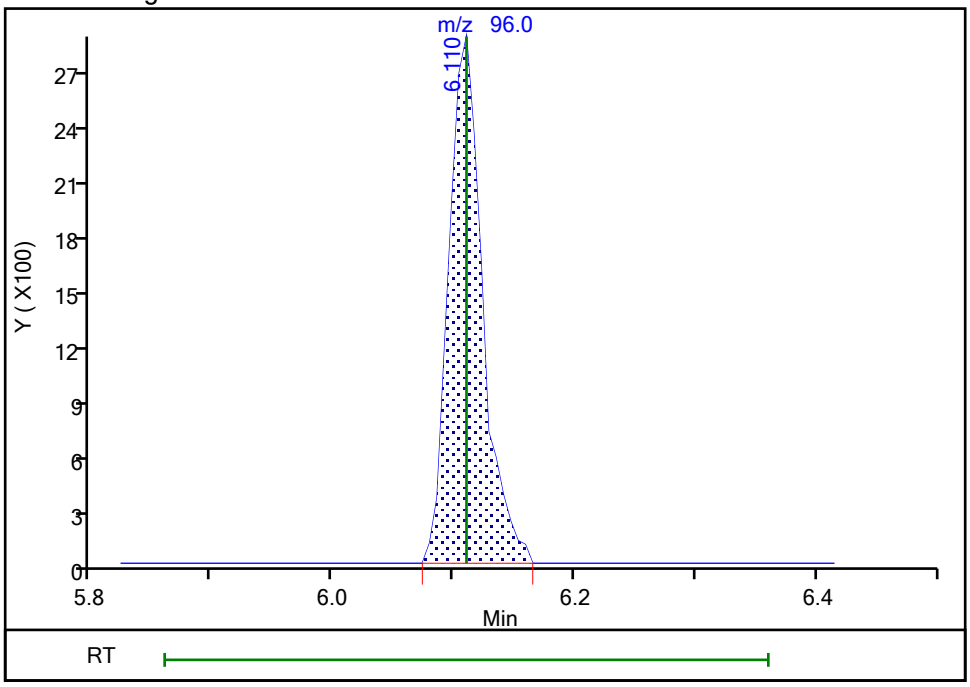
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5466
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:36:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 14-Oct-2020 08:30:30 ALS Bottle#: 52 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:28 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 09:13:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	164212	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5522	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.579	-0.006	89	125727	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58258	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	37110	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	159993	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	92	47939	50.0	50.3	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	548898	150.0	163.4	
10 Chloromethane	50	1.526	1.526	0.000	99	384771	150.0	155.5	
11 Vinyl chloride	62	1.532	1.532	0.000	99	487670	150.0	161.2	
12 Butadiene	54	1.568	1.568	0.000	96	510454	150.0	166.7	
13 Bromomethane	94	1.824	1.837	-0.013	91	242930	150.0	281.0	M
14 Chloroethane	64	1.916	1.916	0.000	99	281347	150.0	160.7	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	669367	150.0	159.8	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	100	670399	150.0	167.5	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

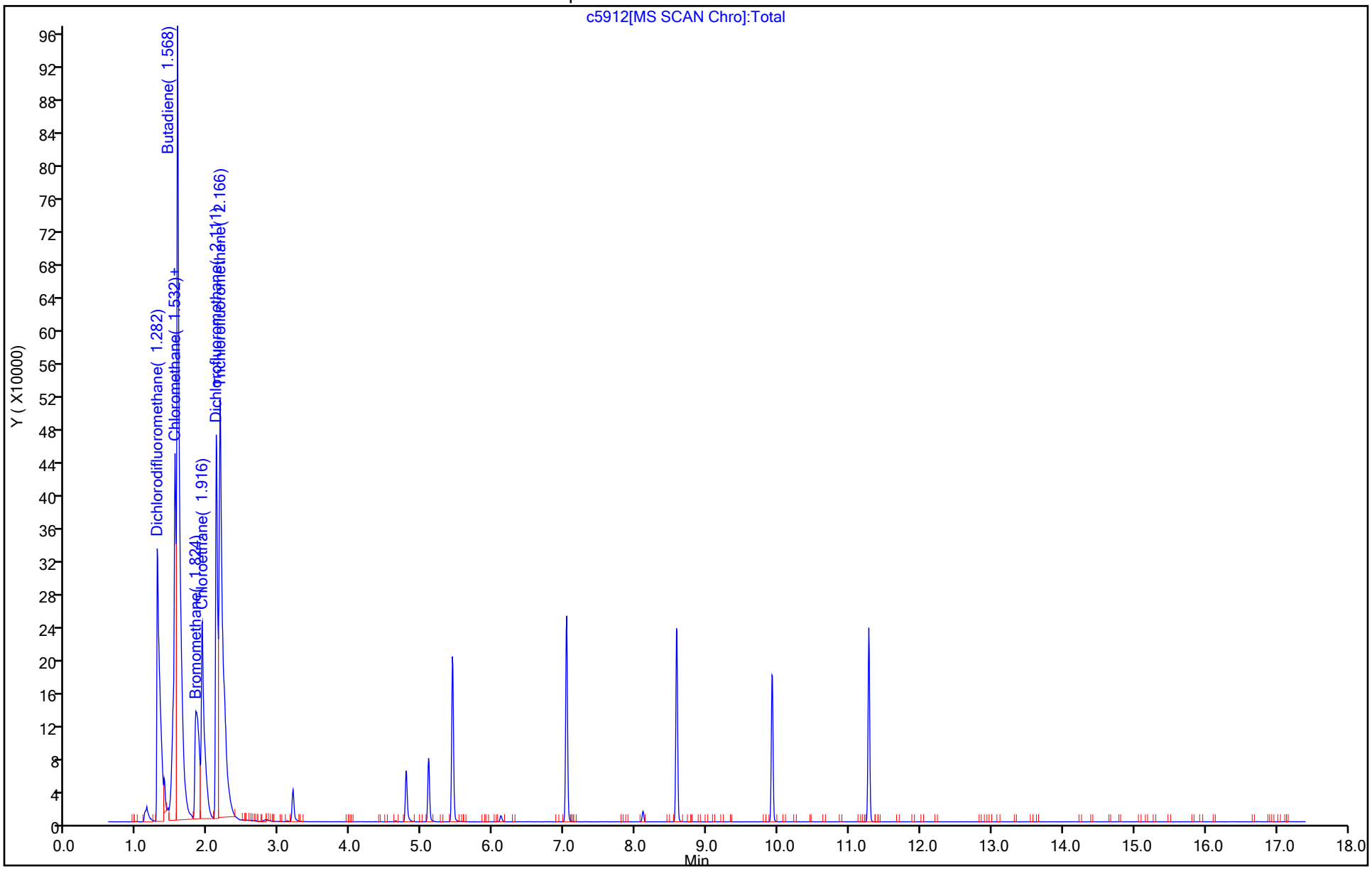
Reagents:

VV_I_GASES_00409 Amount Added: 150.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:29 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D				
Injection Date:	14-Oct-2020 08:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std9			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

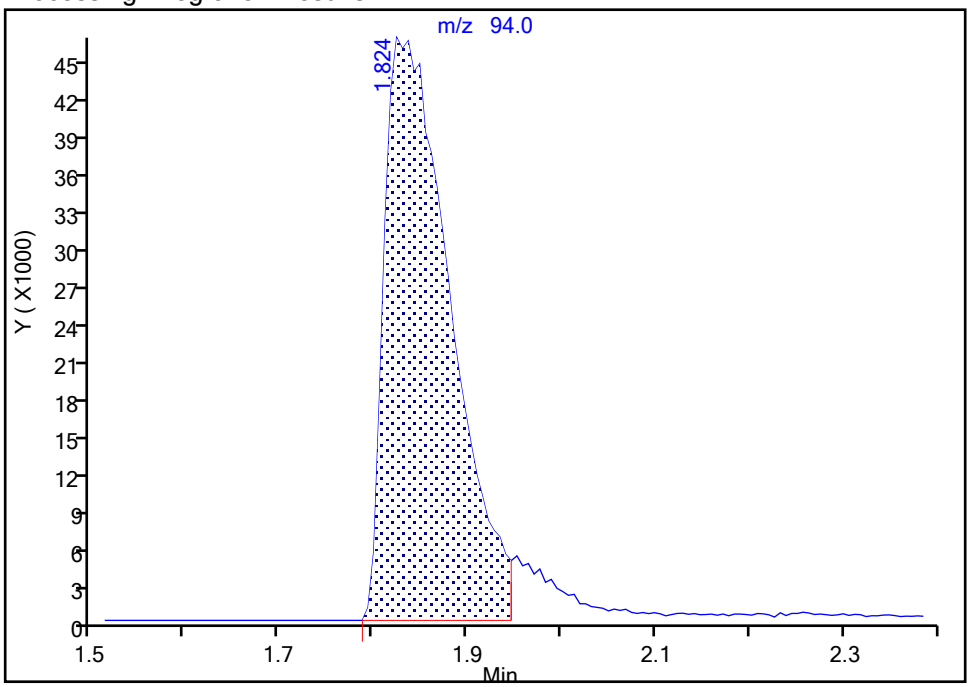
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D
Injection Date: 14-Oct-2020 08:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 52 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

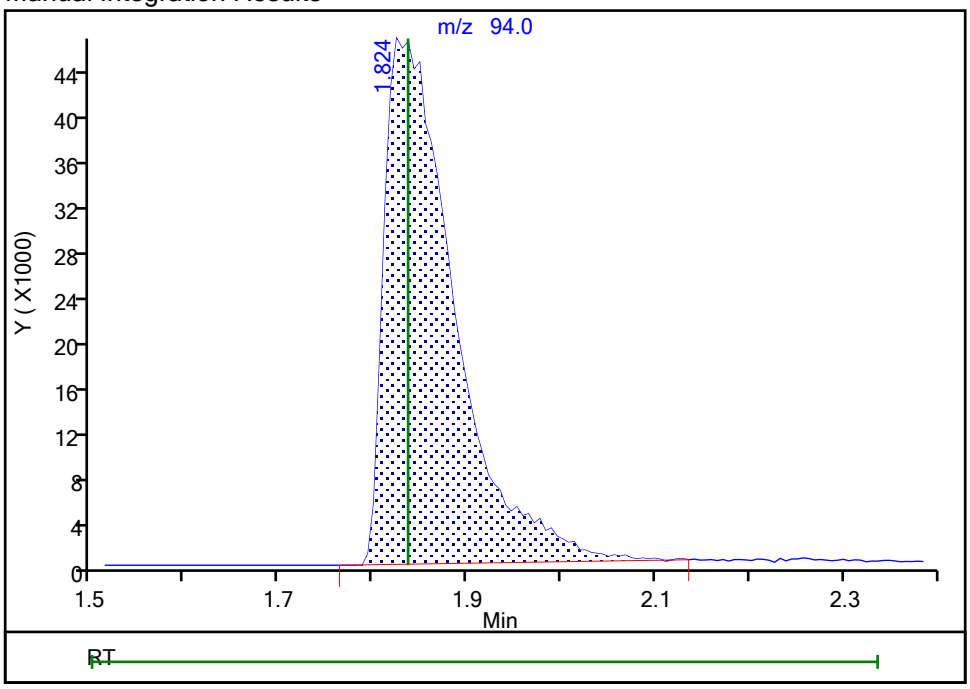
Processing Integration Results

RT: 1.82
Area: 229243
Amount: 244.0172
Amount Units: ug/l



Manual Integration Results

RT: 1.82
Area: 242930
Amount: 280.9585
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:51:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

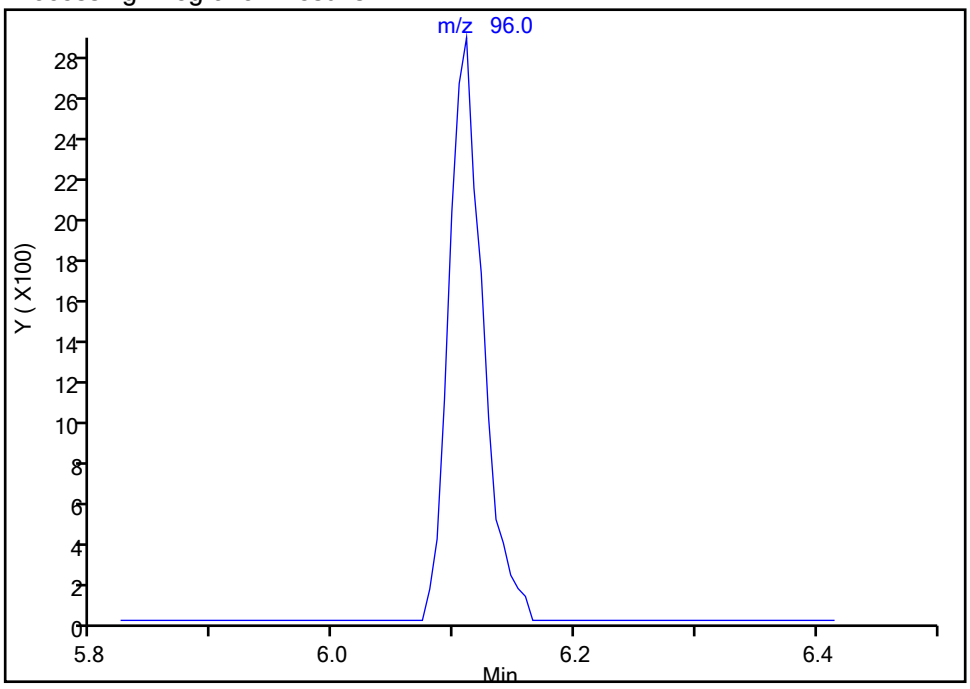
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D
Injection Date: 14-Oct-2020 08:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 52 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

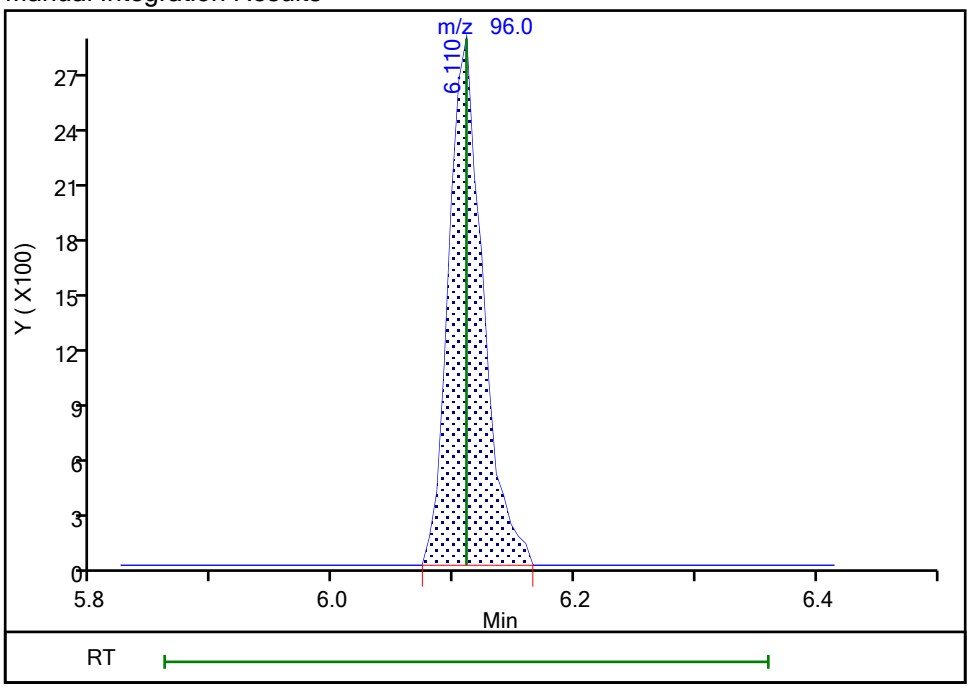
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5522
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:51:46
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5913.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 14-Oct-2020 08:54:30 ALS Bottle#: 53 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:31 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 09:15:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	161525	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5553	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	122146	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59228	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	36438	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	157762	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	87	48279	50.0	49.8	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	706075	200.0	213.7	
10 Chloromethane	50	1.526	1.526	0.000	87	503467	200.0	206.8	
11 Vinyl chloride	62	1.532	1.532	0.000	100	638917	200.0	214.7	
12 Butadiene	54	1.568	1.568	0.000	95	672992	200.0	223.5	
13 Bromomethane	94	1.830	1.837	-0.007	92	334587	200.0	393.2	
14 Chloroethane	64	1.916	1.916	0.000	99	369768	200.0	214.7	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	885885	200.0	215.0	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	99	893108	200.0	226.9	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

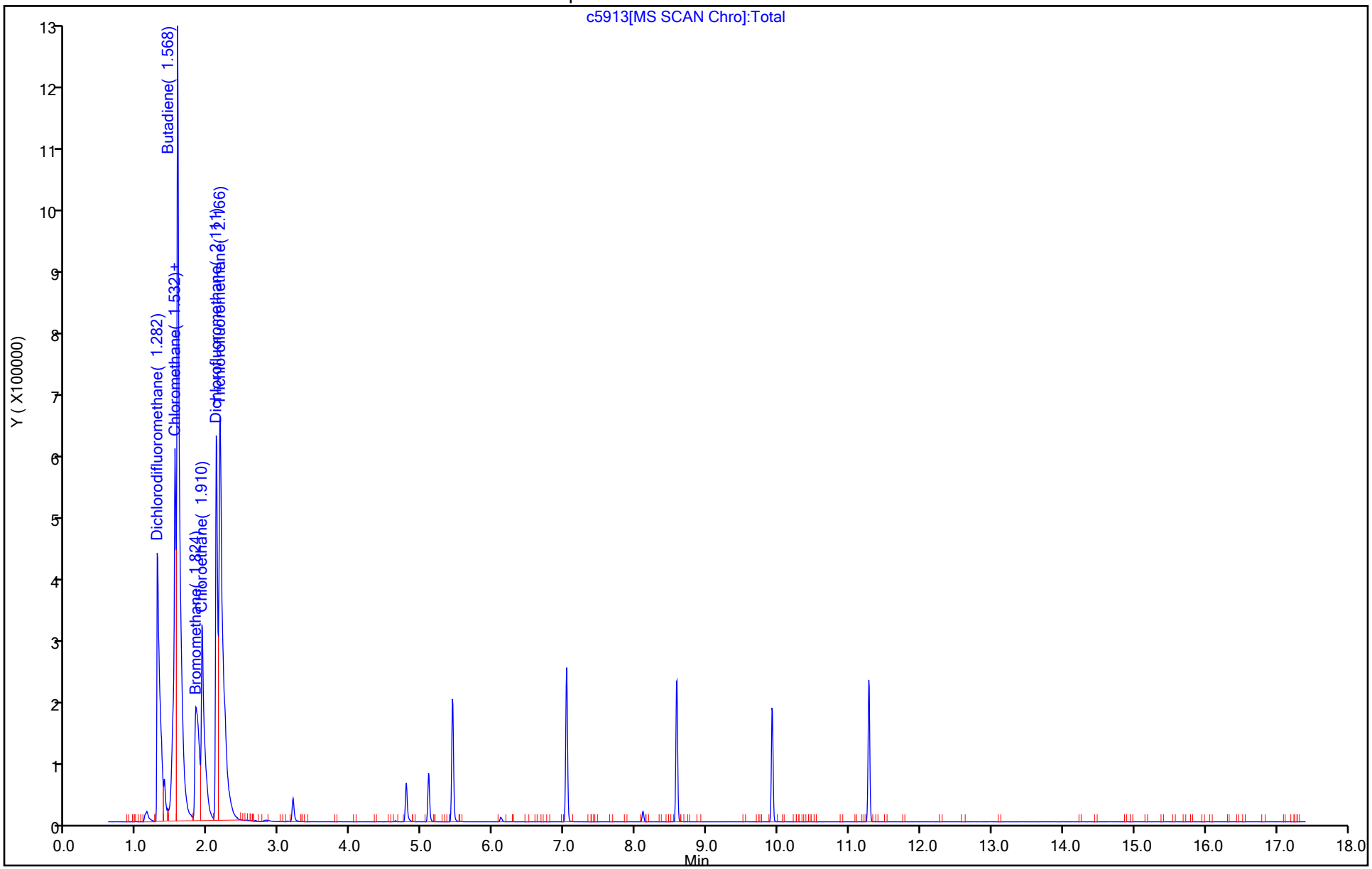
VV_I_GASES_00409 Amount Added: 200.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:32 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5913.D

Injection Date:	14-Oct-2020 08:54:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std10			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

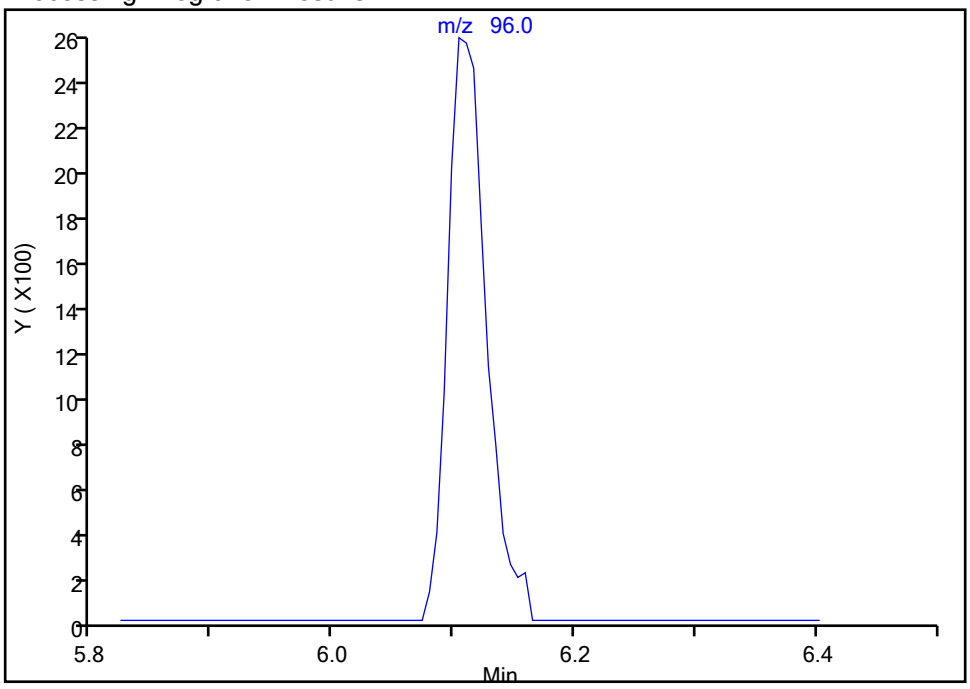
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5913.D
Injection Date: 14-Oct-2020 08:54:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 53 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

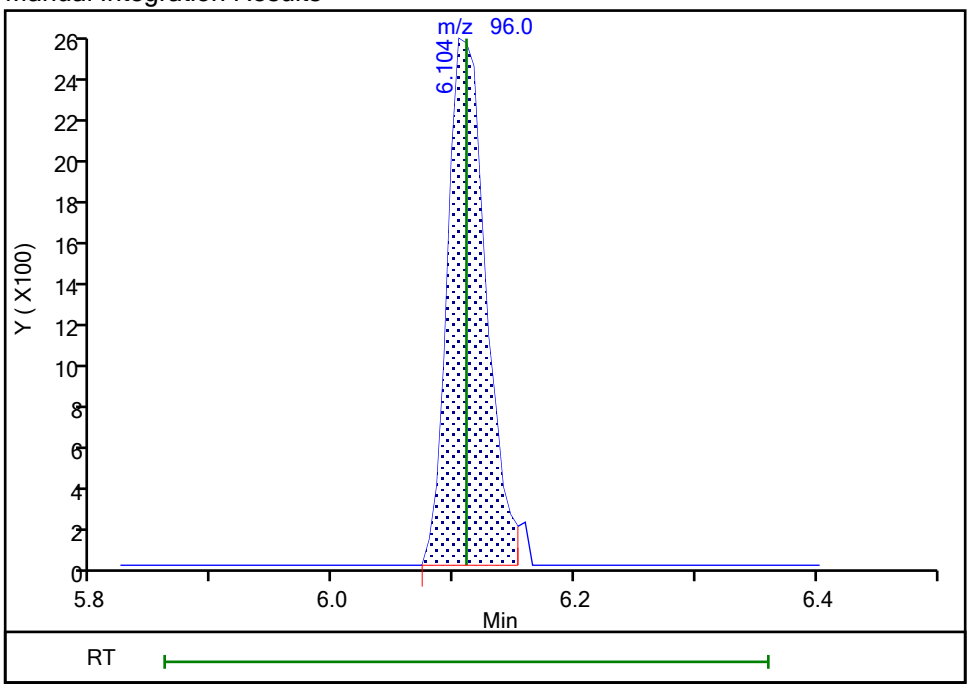
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.10
Area: 5553
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 14-Oct-2020 09:14:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5914.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 14-Oct-2020 09:19:30 ALS Bottle#: 54 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:34 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 15-Oct-2020 01:13:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	163920	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	92	5534	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	124374	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58277	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	36679	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	158191	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	85	49152	50.0	51.6	
9 Dichlorodifluoromethane	85	1.282	1.288	-0.006	99	835806	250.0	249.3	
10 Chloromethane	50	1.526	1.526	0.000	99	632652	250.0	256.1	
11 Vinyl chloride	62	1.532	1.532	0.000	98	796841	250.0	263.8	
12 Butadiene	54	1.568	1.568	0.000	96	821757	250.0	268.9	
13 Bromomethane	94	1.818	1.837	-0.019	91	435821	250.0	504.6	
14 Chloroethane	64	1.910	1.916	-0.006	99	462122	250.0	264.5	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	98	1106051	250.0	264.5	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	98	1067839	250.0	267.3	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

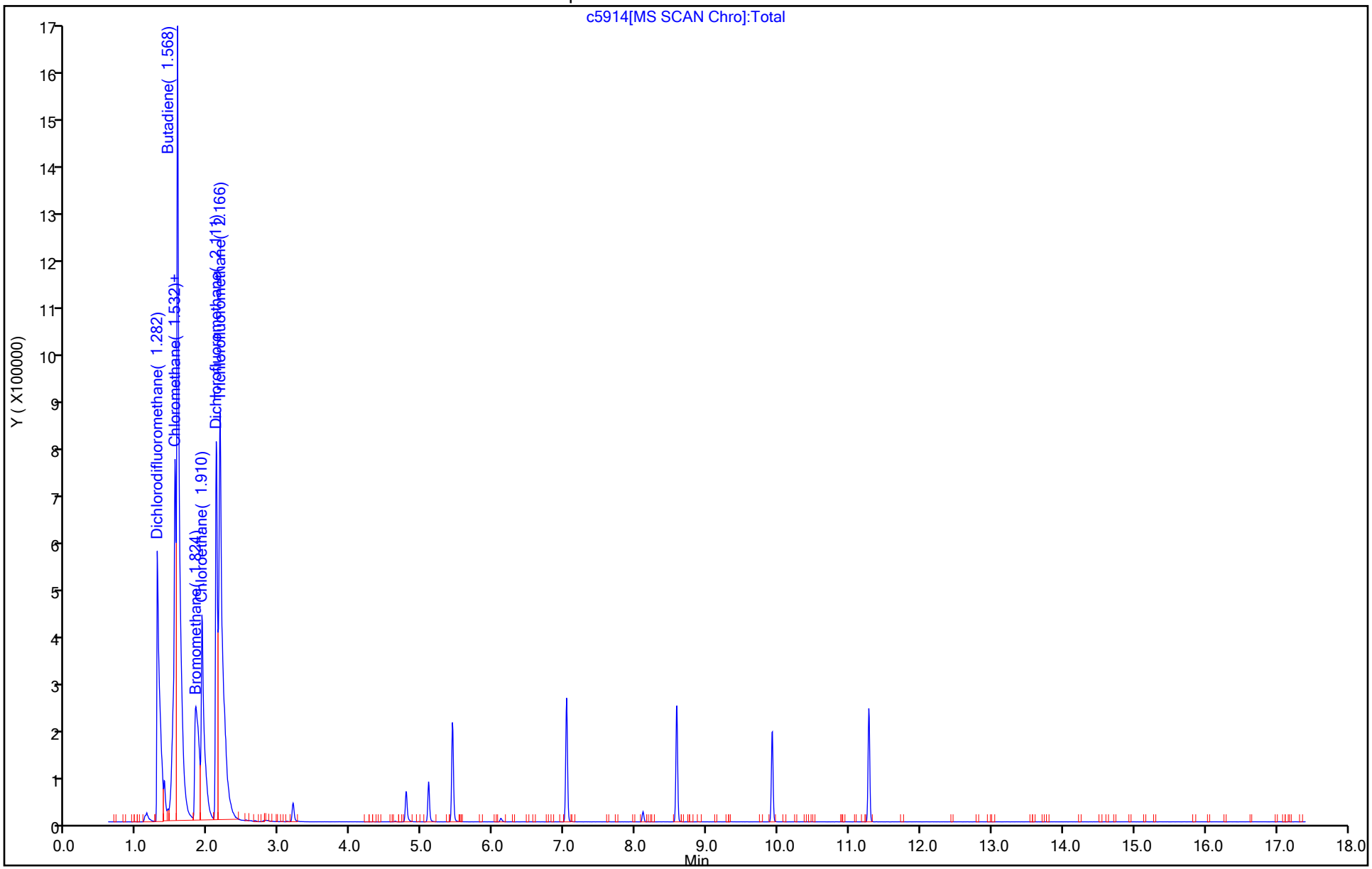
VV_I_GASES_00409 Amount Added: 250.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:35 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5914.D

Injection Date:	14-Oct-2020 09:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std11			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

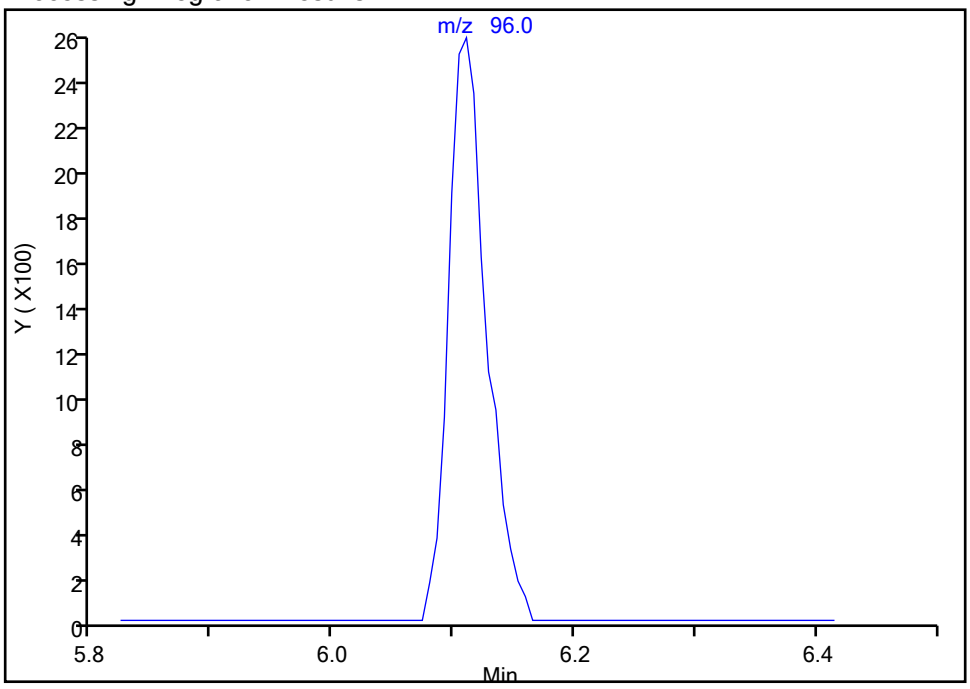
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5914.D
Injection Date: 14-Oct-2020 09:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 54 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

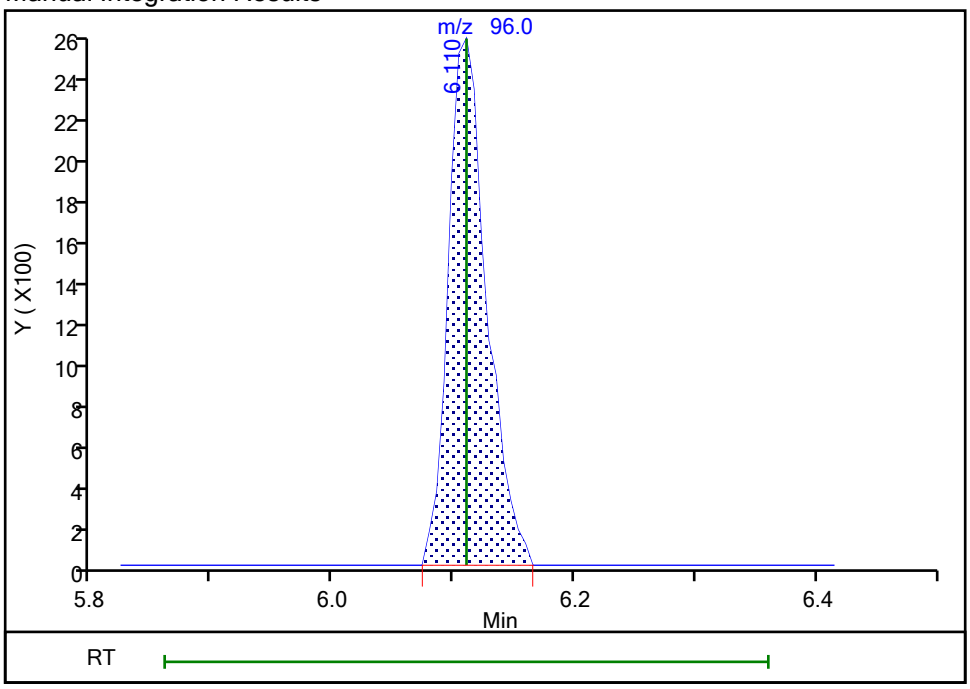
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5534
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 15-Oct-2020 01:13:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 14-Oct-2020 09:44:30 ALS Bottle#: 55 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 15-Oct-2020 01:16:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	178000	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6106	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	136689	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	65256	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	39597	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	173981	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	52414	50.0	49.1	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	1645643	500.0	452.0	
10 Chloromethane	50	1.526	1.526	0.000	99	1225891	500.0	456.9	
11 Vinyl chloride	62	1.532	1.532	0.000	98	1559191	500.0	475.4	
12 Butadiene	54	1.568	1.568	0.000	94	1600618	500.0	482.3	
13 Bromomethane	94	1.818	1.837	-0.019	92	903288	500.0	962.7	
14 Chloroethane	64	1.910	1.916	-0.006	99	922989	500.0	486.4	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	2201455	500.0	484.9	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	100	2135680	500.0	492.3	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

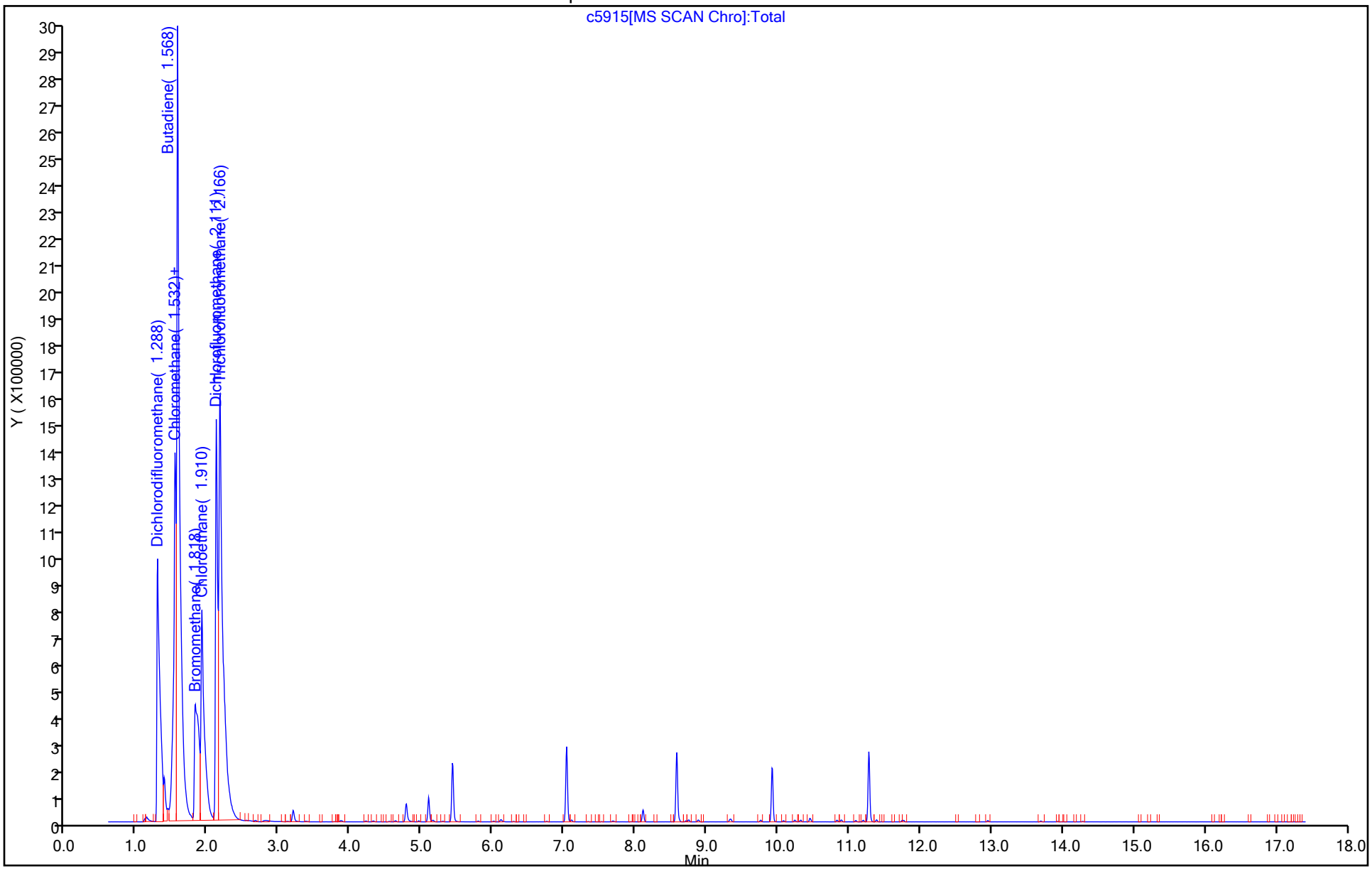
VV_I_GASES_00409 Amount Added: 500.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:37 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Injection Date:	14-Oct-2020 09:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std12			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

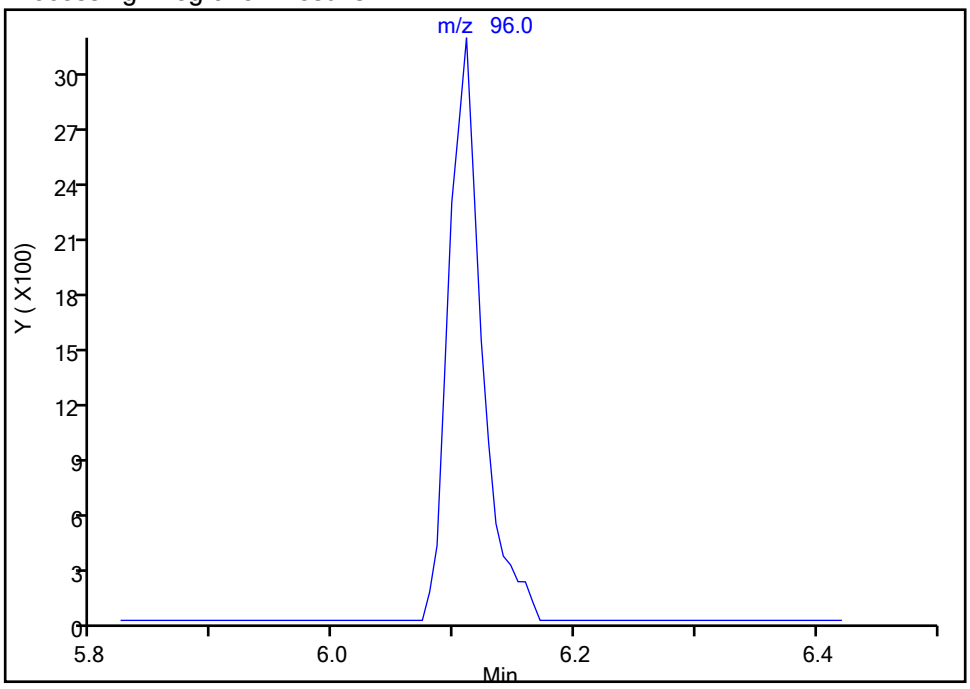
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D
Injection Date: 14-Oct-2020 09:44:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 55 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

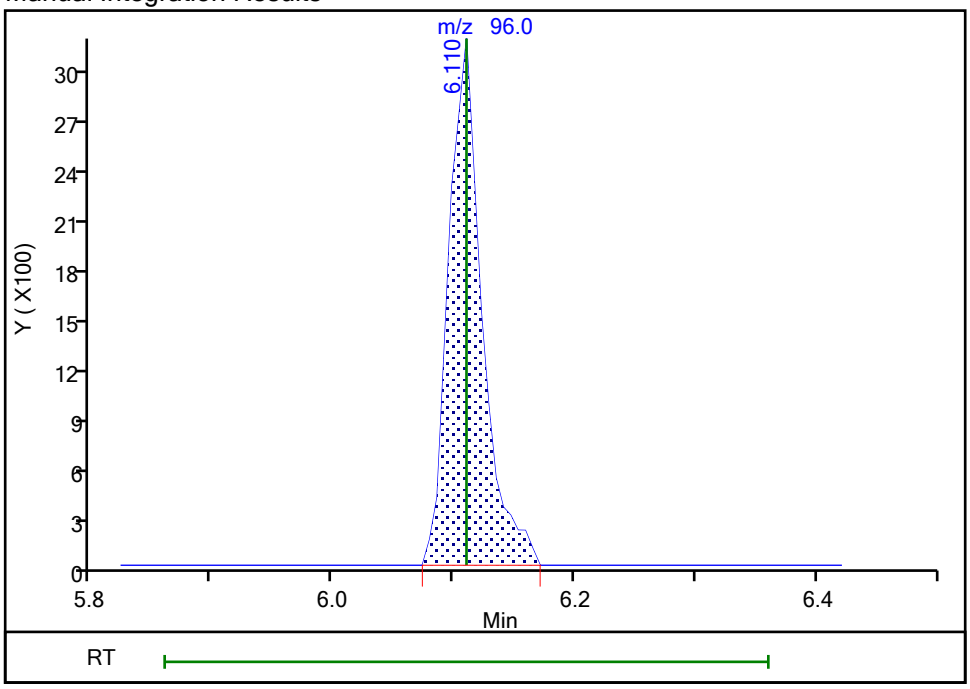
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6106
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 15-Oct-2020 01:14:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-298538/4	H3726.D
Level 2	STD1 310-298538/24	H3746.D
Level 3	STD2 310-298538/5	H3727.D
Level 4	STD2 310-298538/25	H3747.D
Level 5	STD3 310-298538/6	H3728.D
Level 6	STD3 310-298538/26	H3748.D
Level 7	STD4 310-298538/27	H3749.D
Level 8	STD4 310-298538/7	H3729.D
Level 9	STD5 310-298538/8	H3730.D
Level 10	STD5 310-298538/28	H3750.D
Level 11	STD6 310-298538/9	H3731.D
Level 12	STD6 310-298538/29	H3751.D
Level 13	STD7 310-298538/10	H3732.D
Level 14	STD7 310-298538/30	H3752.D
Level 15	ICIS 310-298538/11	H3733.D
Level 16	STD8 310-298538/31	H3753.D
Level 17	STD9 310-298538/12	H3734.D
Level 18	STD9 310-298538/32	H3754.D
Level 19	STD10 310-298538/13	H3735.D
Level 20	STD10 310-298538/33	H3755.D
Level 21	STD11 310-298538/14	H3736.D
Level 22	STD11 310-298538/34	H3756.D
Level 23	STD12 310-298538/15	H3737.D
Level 24	STD12 310-298538/35	H3757.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Dichlorodifluoromethane	1.7869 1.7885	1.3546 1.5608 1.8357 1.7864	1.8026	1.2741 1.8105 1.8064	1.8534 1.7875	Ave		1.7040			0.1000	11.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Chloromethane	4.3583 4.6188	4.8629 4.1846 4.4992 4.6438	4.6412	3.9936 4.6124 4.7906	4.5796 4.6534	Ave		4.5365			0.1000	5.5		20.0			
Vinyl chloride	2.8620 2.5573	2.6036 2.3303 2.5670 2.5499	2.5165	2.1133 2.5383 2.6589	2.7285 2.5219	Ave		2.5456			0.1000	7.4		20.0			
1,3-Butadiene	2.5010 3.1280	2.4733 2.6850 2.9270 3.1314	3.0148	2.1611 3.0641 3.4343	3.1017 3.1160	Ave		2.8948				12.6		20.0			
Bromomethane	0.7102 0.9396	+++++ 0.7672 0.8914 0.7594	0.7917	+++++ 0.8899 0.7739	0.8211 0.7948	Ave		0.8139			0.1000	8.8		20.0			
Chloroethane	1.2499 1.1405	1.4186 1.1082 1.1689 1.0880	1.1473	1.1948 1.1459 1.2001	1.2742 1.0854	Ave		1.1851			0.1000	7.9		20.0			
Dichlorofluoromethane	2.0687 2.2823	1.7603 2.3120 2.2433 2.2765	2.1812	1.6147 2.2964 2.4041	2.4638 2.2619	Ave		2.1804				11.6		20.0			
Trichlorofluoromethane	1.7250 1.9316	+++++ 1.5999 2.0728 1.8968	1.9086	+++++ 1.9385 1.9657	2.1155 1.9131	Ave		1.9067			0.1000	7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Ethanol	+++++ 0.0477 0.0420	 0.0465	+++++ 0.0414 0.0442 0.0500	 0.0509 0.0457	0.0541 0.0454	Ave		0.0468				8.6		20.0			
Diethyl ether	+++++ 1.1761 1.4035	 1.4789	1.2003 1.0979 1.3059 1.4946	 1.1595 1.3366	1.2929 1.3251	Ave		1.2974				10.0		20.0			
Acrolein	+++++ 0.5487 0.5563	 0.5812	0.5218 0.4264 0.5234 0.5885	 0.5535 0.5851	0.3773 0.5563	Ave		0.5290				12.8		20.0			
1,1-Dichloroethene	+++++ 1.0851 1.1318	 1.2363	0.7338 1.0507 1.0684 1.2189	 1.2027 1.2472	0.8113 1.1199	Lin2	-0.488	1.1665			0.1000	6.5			0.9950		0.9900
1,1,2-Trichlorotrifluoroethane	+++++ 1.0663 0.7872	 0.8802	0.7923 0.9259 0.9269 0.8647	 1.1213 0.8942	0.8718 0.8976	Ave		0.9117			0.1000	11.1		20.0			
Acetone	+++++ 1.1192 1.0951	 1.1309	+++++ 1.1263 1.1201 1.1794	 1.2307 1.1712	+++++ 1.1454	Ave		1.1465			0.0500	3.6		20.0			
Iodomethane	+++++ 0.9632 0.6806	 0.7501	+++++ +++++ 0.8174 0.6413	 1.1107 0.7569	+++++ 0.7639	Lin2	4.3623	0.7027				6.2			0.9950		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Carbon disulfide	2.3904 3.1396 3.3150	 3.3801	2.7706 2.7259 3.1602 3.5103	 3.0993 3.4997	2.9819 3.2596	Ave		3.1027			0.1000	10.9		20.0			
Isopropyl alcohol	+++++ 0.2145 0.1897	 0.2032	+++++ 0.1796 0.1949 0.2007	 0.2266 0.2061	0.1823 0.1947	Ave		0.1992				7.2		20.0			
Acetonitrile	0.3670 0.3274 0.3183	 0.3435	0.3889 0.2920 0.3223 0.3414	 0.3397 0.3434	0.3137 0.3403	Ave		0.3365				7.5		20.0			
Allyl chloride	+++++ 0.3974 0.4829	 0.5558	0.5394 0.3951 0.4731 0.5093	 0.4771 0.5713	0.4097 0.5869	Ave		0.4907				14.1		20.0			
Methyl acetate	+++++ 2.3808 2.6046	 2.6725	2.3810 2.1071 2.4782 2.7606	 2.4130 2.6278	2.1981 2.5660	Ave		2.4718			0.1000	8.1		20.0			
Methylene chloride	0.9575 1.1906 1.3491	 1.3637	1.4320 1.0805 1.2528 1.5163	 1.1350 1.4089	1.1087 1.2727	Ave		1.2556			0.1000	13.2		20.0			
tert-Butanol	+++++ 0.1920 0.1396	 0.1586	+++++ 0.1796 0.1684 0.1613	 0.2155 0.1530	0.2130 0.1634	Ave		0.1744				14.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Acrylonitrile	0.8712 1.4678 1.4207	 1.4710 	1.4475 1.1818 1.3376 1.4859	 1.4294 1.5108 	1.2853 1.4307 	Lin2	-2.365	1.4385				8.1			0.9930		0.9900
trans-1,2-Dichloroethene	+++++ 1.4571 1.3155	 1.2973 	1.0745 1.0757 1.2041 1.3313	 1.3081 1.3840 	1.3219 1.2852 	Ave		1.2777			0.1000	9.2		20.0			
Methyl tert-butyl ether	1.9252 3.0644 2.5826	 2.4278 	3.1811 2.7567 2.7132 2.3448	 3.2582 2.6720 	2.8592 2.5911 	Ave		2.6980			0.1000	13.8		20.0			
Hexane	+++++ 1.2426 +++++	 1.2841 	1.4900 1.0736 1.6377 +++++	 1.7615 1.3592 	1.3427 1.3551 	Ave		1.3940				14.9		20.0			
1,1-Dichloroethane	+++++ 2.9475 3.0746	 2.9568 	2.4891 2.7464 2.7061 3.0232	 2.8488 3.3068 	2.6575 2.9969 	Ave		2.8867			0.2000	7.9		20.0			
Vinyl acetate	+++++ 0.2001 0.3286	 0.3266 	+++++ 0.1538 0.2574 0.3310	 0.2230 0.3436 	+++++ 0.3247 	Lin1	-2.611	0.3342				13.6			0.9970		0.9900
Chloroprene	+++++ 3.0543 3.0856	 3.2827 	2.4754 2.9590 2.9930 3.1426	 3.0733 3.3384 	2.8863 3.1580 	Ave		3.0408				7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Di-isopropyl ether (DIPE)	0.5179 0.5630 +++++	 +++++	0.7606 0.5200 0.5981 +++++	 0.5427 +++++	0.4663 +++++	Ave		0.5669				16.7		20.0			
tert-Butyl ethyl ether	+++++ 5.2511 4.1326	 5.1307	6.3212 4.9382 4.9598 4.1093	 5.3319 5.0180	5.0256 4.9592	Ave		5.0162				11.8		20.0			
2,2-Dichloropropane	+++++ 1.6779 1.4752	 1.6508	1.7809 1.4538 1.5783 1.3964	 1.7726 1.6509	1.7476 1.6595	Ave		1.6222				8.1		20.0			
cis-1,2-Dichloroethene	+++++ 1.6070 1.6647	 1.7597	1.3342 1.4312 1.4881 1.7473	 1.4705 1.7924	1.2386 1.6065	Ave		1.5582			0.1000	11.6		20.0			
2-Butanone (MEK)	+++++ 1.2206 1.2223	 1.2324	+++++ 1.1701 1.1971 1.2729	 1.3028 1.2497	1.2293 1.2318	Ave		1.2329			0.0500	3.0		20.0			
Propionitrile	+++++ 0.5452 0.5580	 0.5784	0.6582 0.4759 0.5363 0.6032	 0.5524 0.5964	0.5356 0.5624	Ave		0.5638				8.2		20.0			
Ethyl acetate	+++++ 2.5088 3.2874	 3.4148	2.7102 2.5886 2.7353 3.6584	 2.5744 3.4814	2.9081 3.3346	Ave		3.0184				14.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Bromochloromethane	+++++ 0.6510 0.6913	 0.7463 	0.6129 0.6418 0.6055 0.7230	 0.6682 0.7466 	0.6134 0.6936 	Ave		0.6721				7.8		20.0			
Methacrylonitrile	+++++ 0.6997 0.7218	 0.7777 	0.7659 0.6015 0.6964 0.7441	 0.7174 0.7845 	0.5621 0.7488 	Ave		0.7109				9.9		20.0			
Tetrahydrofuran	+++++ 0.1661 0.1697	 0.1848 	0.2152 0.1432 0.1683 0.1850	 0.1624 0.1750 	0.1523 0.1752 	Ave		0.1725				11.0		20.0			
Chloroform	+++++ 2.1148 2.2272	 2.3706 	2.5053 2.1395 2.2167 2.3491	 2.0890 2.4079 	2.3724 2.2767 	Ave		2.2790			0.2000	5.9		20.0			
1,1,1-Trichloroethane	+++++ 2.0234 1.9216	 2.0770 	2.1085 1.7840 1.9752 1.9236	 2.0673 2.1255 	1.7869 2.0739 	Ave		1.9879			0.1000	6.1		20.0			
Cyclohexane	2.6886 4.0408 3.8645	 3.7983 	4.0980 3.4598 3.6368 4.1049	 3.9766 3.9172 	3.6995 3.8638 	Ave		3.7624			0.1000	10.3		20.0			
Carbon tetrachloride	+++++ 1.4287 1.1499	 1.3068 	1.2670 1.2871 1.3190 1.0581	 1.4427 1.2836 	1.3134 1.3284 	Ave		1.2895			0.1000	8.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
1,1-Dichloropropene	+++++ 1.6379 1.7806	 1.8588 	1.6750 1.7973 1.8287 1.8929	 1.6176 1.8449 	1.4885 1.7188 	Ave		1.7401				7.1		20.0			
Benzene	3.9211 5.1407 5.3283	 5.3685 	5.2442 5.2633 4.9561 5.7080	 4.8516 5.7134 	5.5554 5.1502 	Ave		5.1834			0.5000	9.2		20.0			
Isobutyl alcohol	+++++ 0.1083 0.1185	 0.1227 	0.1418 0.0882 0.1103 0.1226	 0.1176 0.1240 	0.1034 0.1195 	Ave		0.1161				11.8		20.0			
1,2-Dichloroethane	1.5319 2.1391 1.7889	 2.0979 	2.1035 2.2358 2.0913 1.7331	 2.2994 2.0169 	2.2702 2.1100 	Ave		2.0348			0.1000	11.5		20.0			
n-Butanol	+++++ 0.1172 0.0883	 0.0948 	0.1073 0.0916 0.0979 0.0868	 0.1215 0.0952 	0.0954 0.0979 	Ave		0.0994				11.3		20.0			
tert-Amyl methyl ether	+++++ 3.0222 2.4061	 2.8983 	+++++ 2.8092 2.7903 2.3777	 3.0476 2.6514 	3.3448 2.8090 	Ave		2.8157				10.4		20.0			
Heptane	+++++ 1.3476 2.1411	 2.2605 	+++++ +++++ 2.2432 +++++	 2.2485 2.1211 	+++++ 2.3337 	Lin1	-3.784	2.2052				16.7			0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Trichloroethene	+++++ 1.5512 1.5304	 1.5994 	1.4557 1.3993 1.5636 1.6506	 1.5364 1.6718 	1.5617 1.5090 	Ave		1.5481			0.2000	5.1		20.0			
Ethyl acrylate	+++++ 1.7347 2.0595	 2.1737 	+++++ 1.8458 2.1855 2.0613	 1.8457 2.1751 	2.0854 2.2247 	Ave		2.0391				8.4		20.0			
Methylcyclohexane	1.2312 1.8347 1.6893	 1.8389 	1.8045 1.6315 1.8692 1.8674	 1.7521 1.8637 	1.6054 1.8290 	Ave		1.7347			0.1000	10.6		20.0			
1,2-Dichloropropane	+++++ 1.5116 1.4525	 1.5267 	1.7260 1.3743 1.4515 1.5434	 1.4322 1.6576 	1.7014 1.6531 	Ave		1.5482			0.1000	7.7		20.0			
Dibromomethane	0.5231 0.6387 0.6120	 0.6741 	0.7668 0.6175 0.6417 0.5936	 0.7445 0.6769 	0.6092 0.6596 	Ave		0.6465				10.2		20.0			
Methyl methacrylate	+++++ 0.8329 0.9504	 1.0608 	0.8524 0.7143 0.9070 1.0794	 0.8938 1.0316 	0.7223 0.9699 	Ave		0.9104				13.7		20.0			
1,4-Dioxane	+++++ 5.6338 +++++	 4.4767 	+++++ 5.3849 4.3708 +++++	 7.1826 5.7814 	+++++ 5.2073 	Ave		5.4339				17.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Bromodichloromethane	+++++ 0.9488 1.0241	 1.1678 	0.9742 0.7729 1.0410 1.0591	 0.9221 1.1546 	0.8533 1.1334 	Ave		1.0047			0.2000	12.5		20.0			
2-Nitropropane	+++++ 0.5734 0.7972	 0.8469 	+++++ 0.3694 0.6630 +++++	 0.4961 0.8622 	+++++ 0.7898 	Lin1	-6.457	0.8344				11.8			0.9960		0.9900
2-Chloroethyl vinyl ether	+++++ 0.9312 0.9598	 1.1016 	0.9910 0.7604 1.0118 0.9590	 0.9342 1.0684 	0.8611 1.1077 	Ave		0.9715				10.6		20.0			
cis-1,3-Dichloropropene	+++++ 0.9976 +++++	 +++++ 	+++++ 0.8719 0.7954 +++++	 1.0732 +++++ 	+++++ 0.7459 	Ave		0.8968			0.2000	15.3		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.6584 2.5540	 2.7277 	+++++ 2.1829 2.5311 2.7985	 2.7544 2.7431 	2.8138 2.6588 	Ave		2.6423			0.1000	7.1		20.0			
Toluene	2.5202 3.1882 3.3366	 3.4847 	3.5673 3.0387 3.3162 3.5709	 3.1185 3.6182 	3.3617 3.4044 	Ave		3.2938			0.4000	9.2		20.0			
trans-1,3-Dichloropropene	+++++ 0.7864 +++++	 0.6206 	+++++ 0.7635 0.6663 +++++	 0.8416 0.5879 	+++++ 0.6360 	Ave		0.7003			0.1000	13.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Ethyl methacrylate	+++++ 1.3308 1.4943	 1.5659	+++++ 1.0187 1.4126 1.6016	 1.3012 1.5906	0.7534 1.5249	Lin2	-1.672	1.5095				6.1			0.9960		0.9900
1,1,2-Trichloroethane	+++++ 0.8403 0.7936	 0.8706	0.9400 0.6961 0.8327 0.8076	 0.8405 0.8666	0.7853 0.8524	Ave		0.8296			0.1000	7.4		20.0			
Tetrachloroethene	0.8277 1.2873 1.3055	 1.3959	1.0932 1.1971 1.2681 1.3697	 1.2675 1.4166	1.1862 1.2926	Ave		1.2423			0.2000	12.8		20.0			
1,3-Dichloropropane	+++++ 1.3948 +++++	 +++++	1.7665 1.5505 +++++ +++++	 1.5094 +++++	1.6447 +++++	Lin2	0.3386	1.4479				3.6			0.9980		0.9900
2-Hexanone	+++++ 1.7643 1.7347	 1.8201	2.2051 1.4452 1.6887 1.9102	 1.7889 1.8708	1.6610 1.7754	Ave		1.7877			0.1000	10.4		20.0			
Chlorodibromomethane	+++++ 0.5567 0.5906	 0.6839	+++++ 0.4365 0.5982 0.6254	 0.5197 0.6769	0.4670 0.6633	Ave		0.5818			0.1000	14.8		20.0			
n-Butyl acetate	+++++ 3.6650 4.0432	 4.2557	+++++ 2.5189 3.8076 4.3954	 3.3728 4.3301	+++++ 4.1278	Lin2	-8.683	4.2188				3.6			0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
1,2-Dibromoethane (EDB)	+++++ 0.5721 +++++	 +++++	0.9437 0.7362 +++++ +++++	 0.7600 +++++	0.8591 +++++	Ave		0.7742			0.1000	18.1		20.0			
Chlorobenzene	+++++ 4.6127 4.5956	 4.7081	5.2079 4.5789 4.4756 4.5370	 4.7975 4.7710	4.6725 4.6231	Ave		4.6891			0.5000	4.2		20.0			
1,1,1,2-Tetrachloroethane	+++++ 1.6582 1.4196	 1.5246	1.7942 1.6431 1.5151 1.2502	 1.8218 1.4965	1.5604 1.5388	Ave		1.5657				10.4		20.0			
Ethylbenzene	4.5388 6.8420 6.6280	 6.8134	6.6006 6.3452 6.5770 6.4055	 6.8439 6.8697	6.5818 6.7409	Ave		6.4822			0.1000	9.8		20.0			
m,p-Xylene	1.8125 2.6704 2.5824	 2.6623	2.8118 2.6064 2.5703 2.5215	 2.6451 2.6735	2.6129 2.6294	Ave		2.5666			0.1000	9.7		20.0			
o-Xylene	1.9408 2.4687 2.4291	 2.5352	2.6913 2.2958 2.4019 2.3280	 2.4341 2.5443	2.5091 2.4534	Ave		2.4193			0.3000	7.6		20.0			
Styrene	+++++ 4.3268 4.0599	 4.2214	4.3319 4.1417 4.1302 3.9175	 4.4483 4.2300	4.0094 4.1482	Ave		4.1787			0.3000	3.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
Bromoform	+++++ 0.3717 0.4121	 0.4442 	+++++ 0.2839 0.3535 0.4251	 0.3531 0.4424 	+++++ 0.4103 	Ave		0.3885			0.1000	13.5		20.0			
Isopropylbenzene	+++++ 5.9628 5.3494	 5.6205 	6.6639 5.6799 5.6025 5.0267	 5.9408 5.6078 	5.9784 5.6632 	Ave		5.7360			0.1000	7.2		20.0			
Bromobenzene	1.2226 1.7619 1.6881	 1.7142 	2.1648 1.6392 1.6419 1.6341	 1.8811 1.7410 	1.8062 1.6981 	Ave		1.7161				12.5		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.5990 1.5573	 1.5924 	2.0541 1.3691 1.4582 1.5702	 1.6706 1.6086 	1.3925 1.5326 	Ave		1.5822			0.2000	11.5		20.0			
1,2,3-Trichloropropane	+++++ 1.5521 +++++	 1.2001 	2.1339 1.4966 1.2496 +++++	 1.6197 +++++ 	1.6595 1.2244 	Lin1	1.2220	1.2288				17.5			0.9950		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.3452 +++++	 0.2651 	+++++ 0.3347 0.2625 +++++	 0.4199 +++++ 	0.3047 0.2695 	Ave		0.3145				18.2		20.0			
n-Propylbenzene	4.9636 6.8308 6.2295	 6.4432 	7.0925 6.4445 6.3334 5.8318	 6.8401 6.4585 	6.5818 6.3855 	Ave		6.3696				8.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
2-Chlorotoluene	+++++ 4.5304 4.4677	 4.5539 	5.0173 4.4617 4.3716 4.3390	 4.7390 4.5841 	4.6853 4.5053 	Ave		4.5687				4.2		20.0			
4-Chlorotoluene	3.7900 5.8262 5.0629	 5.2447 	6.0658 5.6846 5.2583 4.8465	 5.9936 5.2296 	5.5862 5.1844 	Ave		5.3144				11.5		20.0			
1,3,5-Trimethylbenzene	+++++ 5.8456 4.8510	 5.0215 	5.9325 5.7688 5.0550 4.5533	 6.1593 5.0170 	6.0040 5.0349 	Ave		5.3857				10.4		20.0			
tert-Butylbenzene	+++++ 8.0357 6.9029	 7.3725 	7.0014 6.7484 7.4290 6.1667	 8.1544 7.2405 	6.1524 7.4333 	Ave		7.1488				9.1		20.0			
1,2,4-Trimethylbenzene	+++++ 5.1746 4.3945	 4.5583 	6.3649 5.2611 4.4436 4.1290	 5.6255 4.5542 	5.4563 4.5164 	Ave		4.9526				13.7		20.0			
sec-Butylbenzene	+++++ 5.9673 4.9237	 5.1891 	6.9773 6.4624 5.2987 4.5061	 6.7886 5.1685 	6.7333 5.2631 	Ave		5.7525				15.0		20.0			
1,3-Dichlorobenzene	+++++ 3.2946 2.9613	 3.0929 	4.7582 3.2795 3.0506 2.8676	 3.4213 3.0607 	3.3538 3.0253 	Lin2	1.5409	3.0220			0.6000	6.7			0.9950		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
p-Isopropyltoluene	+++++ 9.0250 7.5621	 7.4286 	11.226 9.4426 7.9257 7.1296	 9.8725 7.7065	10.178 7.8698	Lin2	3.6481	8.0403				9.5			0.9900		0.9900
1,4-Dichlorobenzene	4.6462 6.9234 6.4257	 6.2431 	8.5177 5.9167 6.2058 6.3987	 6.9295 6.5237	6.3601 6.4100	Ave		6.4584			0.5000	13.5		20.0			
1,2,3-Trimethylbenzene	+++++ 10.112 9.2069	 8.7615 	12.901 9.8134 9.0235 9.1389	 10.744 9.2645	10.548 9.0873	Lin2	3.4990	9.2692				5.6			0.9970		0.9900
Benzyl chloride	+++++ 0.4207 0.5039	 0.5223 	+++++ +++++ 0.4313 0.5229	 +++++ 0.5406	+++++ 0.5482	Ave		0.4985				10.4		20.0			
1,2-Dichlorobenzene	4.3307 5.8047 6.0191	 5.7502 	7.4950 5.0447 5.4588 6.0685	 6.0087 6.1162	5.8860 5.7313	Ave		5.8095			0.4000	12.7		20.0			
n-Butylbenzene	5.5234 8.0469 6.8632	 6.6611 	9.2369 7.1353 7.0461 6.5460	 8.5906 6.9530	7.8566 6.9575	Ave		7.2847				13.7		20.0			
1,2-Dibromo-3-chloropropane	+++++ 0.3921 0.3684	 0.3501 	+++++ 0.3126 0.3392 0.3385	 0.4467 0.3610	0.4441 0.3591	Ave		0.3712			0.0500	11.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
1,3,5-Trichlorobenzene	+++++ 4.1412 3.3416	 3.3154	5.0097 3.6511 3.5246 +++++	 4.3953 3.4180	4.1210 3.4379	Lin2	1.4130	3.5677				9.7			0.9900		0.9900
1,2,4-Trichlorobenzene	+++++ 3.3903 2.8345	 2.7393	+++++ 2.6716 2.9210 2.6863	 3.3858 2.8805	3.4580 2.9748	Ave		2.9942			0.2000	10.2		20.0			
Hexachlorobutadiene	+++++ 1.5111 1.2109	 1.1984	1.4005 1.3359 1.3072 +++++	 1.5173 1.2364	1.3860 1.2871	Ave		1.3391				8.5		20.0			
Naphthalene	+++++ 11.188 9.3384	 9.3263	+++++ 8.4246 9.7810 8.5661	 10.709 9.6676	9.7462 10.007	Ave		9.6754				8.8		20.0			
1,2,3-Trichlorobenzene	+++++ 3.0382 2.5572	 2.5373	+++++ 2.7883 2.5880 2.4167	 2.8684 2.6272	2.9238 2.6635	Ave		2.7009				7.3		20.0			
Dibromofluoromethane (Surr)	 0.1985 0.2165	0.1988 0.2107 0.2134 0.2156	 0.2014	0.2016 0.2067 0.2147	 0.2121 0.2102	Ave		0.2084				3.2		20.0			
Toluene-d8 (Surr)	 1.1524 1.1329	1.0921 1.1504 1.1192 1.0796	 1.1507	1.1532 1.1360 1.0787	 1.1378 1.1012	Ave		1.1237				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20		B	M1	M2								
4-Bromofluorobenzene (Surr)	0.6460 0.6638	0.6318 0.6549 0.6536 0.6482	0.5991	0.6608 0.6465 0.6342	0.6347 0.6478	Ave		0.6434				2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-298538/4	H3726.D
Level 2	STD1 310-298538/24	H3746.D
Level 3	STD2 310-298538/5	H3727.D
Level 4	STD2 310-298538/25	H3747.D
Level 5	STD3 310-298538/6	H3728.D
Level 6	STD3 310-298538/26	H3748.D
Level 7	STD4 310-298538/27	H3749.D
Level 8	STD4 310-298538/7	H3729.D
Level 9	STD5 310-298538/8	H3730.D
Level 10	STD5 310-298538/28	H3750.D
Level 11	STD6 310-298538/9	H3731.D
Level 12	STD6 310-298538/29	H3751.D
Level 13	STD7 310-298538/10	H3732.D
Level 14	STD7 310-298538/30	H3752.D
Level 15	ICIS 310-298538/11	H3733.D
Level 16	STD8 310-298538/31	H3753.D
Level 17	STD9 310-298538/12	H3734.D
Level 18	STD9 310-298538/32	H3754.D
Level 19	STD10 310-298538/13	H3735.D
Level 20	STD10 310-298538/33	H3755.D
Level 21	STD11 310-298538/14	H3736.D
Level 22	STD11 310-298538/34	H3756.D
Level 23	STD12 310-298538/15	H3737.D
Level 24	STD12 310-298538/35	H3757.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Dichlorodifluoromethane	FB	Ave		1102		2024			0.500		1.00	
			5510	9460			29185	2.00	4.00			10.0
				57309		140932			20.0		50.0	
			272784		402104		517961	100		150		200
				665219		1335015			250		500	
Chloromethane	FB	Ave		3956		6344			0.500		1.00	
			13439	25363			72113	2.00	4.00			10.0
				140458		359040			20.0		50.0	
			704482		1035300		1348452	100		150		200
				1729253		3540438			250		500	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Vinyl chloride	FB	Ave	8825 390057	2118 14124 80137 949502	561352	3357 197589 1965069	42965 730797	2.00 100	0.500 4.00 20.0 250	150	1.00 50.0 500	10.0 200
1,3-Butadiene	FB	Ave	7712 477099	2012 16274 91376 1166049	672503	3433 238516 2538103	48842 902940	2.00 100	0.500 4.00 20.0 250	150	1.00 50.0 500	10.0 200
Bromomethane	FB	Ave	2190 143306	+++++ 4650 27828 282787	176609	+++++ 69273 571958	12930 230302	2.00 100	+++++ 4.00 20.0 250	150	+++++ 50.0 500	10.0 200
Chloroethane	FB	Ave	3854 173951	1154 6717 36492 405158	255923	1898 89201 886913	20065 314510	2.00 100	0.500 4.00 20.0 250	150	1.00 50.0 500	10.0 200
Dichlorofluoromethane	FB	Ave	6379 348110	1432 14013 70033 847723	486545	2565 178757 1776726	38797 655451	2.00 100	0.500 4.00 20.0 250	150	1.00 50.0 500	10.0 200
Trichlorofluoromethane	FB	Ave	5319 294619	+++++ 9697 64708 706308	425743	+++++ 150896 1452766	33312 554383	2.00 100	+++++ 4.00 20.0 250	150	+++++ 50.0 500	10.0 200
Ethanol	FB	Ave	+++++ 60463 707576	434124	+++++ 13222 138531 1629878	33031 558070	6651 280323	+++++ 800 10000	6000	+++++ 200 2000 20000	400 8000	80.0 4000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Diethyl ether	FB	Ave	+++++		1927		3973	+++++		1.00		2.00
					8770	18801				5.00	10.0	
			37252		102380		204712	20.0		50.0		100
				345323		408415			150		200	
			591679		1218021			250		500		
Acrolein	FB	Ave	+++++		3991		5523	+++++		4.76		9.53
					16227	42758				23.8	47.6	
			82789		195490		409458	95.3		238		476
				646551		851770			715		953	
			1117309		2284749			1191		2382		
1,1-Dichloroethene	FB	Lin2	+++++		1178		2493	+++++		1.00		2.00
					8393	19501				5.00	10.0	
			34371		83756		173013	20.0		50.0		100
				288667		381097			150		200	
			477157		993324			250		500		
1,1,2-Trichlorotrifluoroethane	FB	Ave	+++++		1272		2679	+++++		1.00		2.00
					7396	18181				5.00	10.0	
			33774		72664		138673	20.0		50.0		100
				205524		273243			150		200	
			331865		704718			250		500		
Acetone	FB	Ave	+++++		+++++		+++++	+++++		+++++		+++++
					17994	39911				10.0	20.0	
			70901		175621		353907	40.0		100		200
				528109		715763			300		400	
			923366		1922372			500		1000		
Iodomethane	FB	Lin2	+++++		+++++		+++++	+++++		+++++		+++++
					+++++	18009				+++++	10.0	
			30509		64079		118019	20.0		50.0		100
				175135		231273			150		200	
			286941		522595			250		500		
Carbon disulfide	FB	Ave	1860		4448		9163	0.500		1.00		2.00
					21775	50255				5.00	10.0	
			99445		247754		503577	20.0		50.0		100
				789228		1069409			150		200	
			1397550		2860718			250		500		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Isopropyl alcohol	FB	Ave	+++++ 67932 799757	 474574 	+++++ 14349 152819 1635640	 36743 629820	5603 300859 	+++++ 200 2500	 1500 	+++++ 50.0 500 5000	 100 2000	20.0 1000
Acetonitrile	FB	Ave	2856 103688 1342068	 801955 	6244 23325 252699 2782178	 55074 1049273	9641 525751 	5.00 200 2500	 1500 	10.0 50.0 500 5000	 100 2000	20.0 1000
Allyl chloride	FB	Ave	+++++ 12586 203599	 129770 	866 3156 37092 415093	 7736 174562	1259 90665 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200	2.00 100
Methyl acetate	FB	Ave	+++++ 150822 2196110	 1248009 	7645 33664 388573 4499628	 78252 1605916	13509 792846 	+++++ 40.0 500	 300 	2.00 10.0 100 1000	 20.0 400	4.00 200
Methylene chloride	FB	Ave	745 37710 568742	 318411 	2299 8631 98215 1235744	 18404 430505	3407 196614 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200	2.00 100
tert-Butanol	FB	Ave	+++++ 60817 588478	 370431 	+++++ 14348 132008 1314219	 34950 467403	6544 252387 	+++++ 200 2500	 1500 	+++++ 50.0 500 5000	 100 2000	20.0 1000
Acrylonitrile	FB	Lin2	6779 464904 5989442	 3434642 	23238 94402 1048615 12109545	 231773 4616450	39496 2210237 	5.00 200 2500	 1500 	10.0 50.0 500 5000	 100 2000	20.0 1000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
trans-1,2-Dichloroethene	FB	Ave	+++++ 46152 554571	 302900 	1725 8593 94395 1084978	 21211 422901 	4062 198558 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Methyl tert-butyl ether	FB	Ave	1498 97063 1088774	 566872 	5107 22021 212708 1910950	 52831 816483 	8786 400305 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Hexane	FB	Ave	+++++ 39357 +++++	 299817 	2392 8576 128390 +++++	 28562 415338 	4126 209344 	+++++ 20.0 +++++	 150 	1.00 5.00 50.0 +++++	 10.0 200 	2.00 100
1,1-Dichloroethane	FB	Ave	+++++ 93358 1296201	 690382 	3996 21939 212147 2463801	 46192 1010450 	8166 462987 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Vinyl acetate	FB	Lin1	+++++ 12675 277092	 152513 	+++++ 2457 40354 539552	 7231 209964 	+++++ 100311 	+++++ 40.0 500	 300 	+++++ 10.0 100 1000	 20.0 400 	+++++ 200
Chloroprene	FB	Ave	+++++ 96741 1300815	 766489 	3974 23637 234644 2561100	 49833 1020113 	8869 487874 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Di-isopropyl ether (DIPE)	FB	Ave	403 17832 +++++	 +++++ 	1221 4154 46893 +++++	 8799 +++++ 	1433 +++++ 	0.500 20.0 +++++	 +++++ 	1.00 5.00 50.0 +++++	 10.0 +++++ 	2.00 +++++

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
tert-Butyl ethyl ether	FB	Ave	+++++ 166323 1742218	 1197986 	10148 39448 388837 3348899	 86455 1533341 	15443 766153 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
2,2-Dichloropropane	FB	Ave	+++++ 53147 621895	 385458 	2859 11613 123737 1137988	 28743 504474 	5370 256381 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
cis-1,2-Dichloroethene	FB	Ave	+++++ 50899 701824	 410881 	2142 11433 116662 1423962	 23844 547702 	3806 248188 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
2-Butanone (MEK)	FB	Ave	+++++ 77320 1030598	 575522 	+++++ 18695 187700 2074738	 42249 763750 	7555 380615 	+++++ 40.0 500	 300 	+++++ 10.0 100 1000	 20.0 400 	4.00 200
Propionitrile	FB	Ave	+++++ 172685 2352406	 1350444 	10567 38017 420417 4915826	 89570 1822299 	16458 868841 	+++++ 200 2500	 1500 	10.0 50.0 500 5000	 100 2000 	20.0 1000
Ethyl acetate	FB	Ave	+++++ 158927 2771796	 1594684 	8702 41357 428874 5962914	 83488 2127581 	17872 1030317 	+++++ 40.0 500	 300 	2.00 10.0 100 1000	 20.0 400 	4.00 200
Bromochloromethane	FB	Ave	+++++ 20620 291453	 174249 	984 5127 47468 589213	 10835 228127 	1885 107151 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Methacrylonitrile	FB	Ave	+++++ 221614 3042996	 1815798 	12295 48051 545945 6064455	 116318 2397122 	17273 1156781 	+++++ 200 2500	 1500 	10.0 50.0 500 5000	 100 2000 	20.0 1000
Tetrahydrofuran	FB	Ave	+++++ 10522 143117	 86299 	691 2288 26394 301545	 5268 106974 	936 54138 	+++++ 40.0 500	 300 	2.00 10.0 100 1000	 20.0 400 	4.00 200
Chloroform	FB	Ave	+++++ 66983 938951	 553511 	4022 17091 173786 1914419	 33872 735768 	7290 351725 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
1,1,1-Trichloroethane	FB	Ave	+++++ 64088 810116	 484969 	3385 14251 154848 1567622	 33521 649477 	5491 320400 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Cyclohexane	FB	Ave	2092 127987 1629214	 886870 	6579 27638 285112 3345319	 64480 1196965 	11368 596912 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Carbon tetrachloride	FB	Ave	+++++ 45254 484795	 305140 	2034 10282 103406 862288	 23393 392212 	4036 205227 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
1,1-Dichloropropene	FB	Ave	+++++ 51880 750683	 434026 	2689 14357 143365 1542641	 26229 563746 	4574 265540 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Benzene	FB	Ave	3051 162828 2246311	 1253504	8419 42045 388540 4651820	 78668 1745830	17071 795657	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
Isobutyl alcohol	FB	Ave	+++++ 85752 1248787	 715950	5690 17609 216274 2498144	 47668 947012	7944 461495	+++++ 500 6250	 3750	25.0 125 1250 12500	 250 5000	50.0 2500
1,2-Dichloroethane	FB	Ave	1192 67754 754167	 489842	3377 17860 163953 1412425	 37284 616296	6976 325972	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
n-Butanol	FB	Ave	+++++ 92787 930791	 553499	4307 18285 191897 1768796	 49257 727358	7327 378133	+++++ 500 6250	 3750	25.0 125 1250 12500	 250 5000	50.0 2500
tert-Amyl methyl ether	FB	Ave	+++++ 95725 1014375	 676730	+++++ 22441 218749 1937769	 49416 810196	10278 433959	+++++ 20.0 250	 150	+++++ 5.00 50.0 500	 10.0 200	2.00 100
Heptane	FB	Lin1	+++++ 42685 902660	 527810	+++++ +++++ 175858 +++++	 36459 648129	+++++ 360534	+++++ 20.0 250	 150	+++++ +++++ 50.0 +++++	 10.0 200	+++++ 100
Trichloroethene	FB	Ave	+++++ 49134 645165	 373457	2337 11178 122579 1345161	 24913 510851	4799 233133	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Ethyl acrylate	FB	Ave	+++++ 54946 868254	 507535	+++++ 14745 171334 1679856	 29927 664645	6408 343693	+++++ 20.0 250	 150	+++++ 5.00 50.0 500	 10.0 200	2.00 100
Methylcyclohexane	FB	Ave	958 58113 712165	 429373	2897 13033 146541 1521889	 28410 569474	4933 282561	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,2-Dichloropropane	FB	Ave	+++++ 47880 612334	 356477	2771 10978 113796 1257808	 23223 506509	5228 255384	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
Dibromomethane	FB	Ave	407 20230 257995	 157405	1231 4933 50310 483755	 12072 206825	1872 101897	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
Methyl methacrylate	FB	Ave	+++++ 52762 801367	 495357	2737 11412 142216 1759256	 28987 630419	4439 299686	+++++ 40.0 500	 300	2.00 10.0 100 1000	 20.0 400	4.00 200
1,4-Dioxane	DXE	Ave	+++++ 15423 +++++	 104849	+++++ 3400 31771 +++++	 8293 138961	+++++ 63217	+++++ 400 +++++	 3000	+++++ 100 1000 +++++	 200 4000	+++++ 2000
Bromodichloromethane	FB	Ave	+++++ 30053 431754	 272674	1564 6174 81611 863128	 14951 352817	2622 175106	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100

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GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
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Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
2-Nitropropane	FB	Lin1	+++++ 36321 672172	 395499	+++++ 5901 103950 +++++	 16088 526901	+++++ 244034	+++++ 40.0 500	 300	+++++ 10.0 100 +++++	 20.0 400	+++++ 200
2-Chloroethyl vinyl ether	FB	Ave	+++++ 29496 404648	 257219	1591 6074 79322 781524	 15148 326470	2646 171121	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
cis-1,3-Dichloropropene	FB	Ave	+++++ 31598 +++++	 +++++	+++++ 6965 62356 +++++	 17401 +++++	+++++ 115233	+++++ 20.0 +++++	 +++++	+++++ 5.00 50.0 +++++	 10.0 +++++	+++++ 100
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 168405 2153416	 1273791	+++++ 34876 396858 4561389	 89325 1676381	17293 821504	+++++ 40.0 500	 300	+++++ 10.0 100 1000	 20.0 400	4.00 200
Toluene	FB	Ave	1961 100983 1406644	 813644	5727 24274 259980 2910171	 50566 1105608	10330 525941	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
trans-1,3-Dichloropropene	FB	Ave	+++++ 24907 +++++	 144917	+++++ 6099 52239 +++++	 13647 179657	+++++ 98258	+++++ 20.0 +++++	 150	+++++ 5.00 50.0 +++++	 10.0 200	+++++ 100
Ethyl methacrylate	FB	Lin2	+++++ 42153 629971	 365630	+++++ 8138 110745 1305232	 21099 486040	2315 235589	+++++ 20.0 250	 150	+++++ 5.00 50.0 500	 10.0 200	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
1,1,2-Trichloroethane	FB	Ave	+++++ 26616 334558	 203269 	1509 5561 65283 658179	 13628 264811 	2413 131682 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Tetrachloroethene	FB	Ave	644 40775 550375	 325930 	1755 9563 99417 1116244	 20552 432861 	3645 199691 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
1,3-Dichloropropane	FB	Lin2	+++++ 44179 +++++	 +++++ 	2836 12386 +++++ +++++	 24475 +++++ 	5054 +++++ 	+++++ 20.0 +++++	 +++++ 	1.00 5.00 +++++ +++++	 10.0 +++++ 	2.00 +++++
2-Hexanone	FB	Ave	+++++ 111763 1462645	 849948 	7080 23089 264774 3113493	 58012 1143299 	10208 548576 	+++++ 40.0 500	 300 	2.00 10.0 100 1000	 20.0 400 	4.00 200
Chlorodibromomethane	FB	Ave	+++++ 17632 248999	 159677 	+++++ 3487 46895 509649	 8427 206840 	1435 102467 	+++++ 20.0 250	 150 	+++++ 5.00 50.0 500	 10.0 200 	2.00 100
n-Butyl acetate	FB	Lin2	+++++ 116084 1704514	 993687 	+++++ 20122 298506 3582043	 54689 1323145 	+++++ 637710 	+++++ 20.0 250	 150 	+++++ 5.00 50.0 500	 10.0 200 	+++++ 100
1,2-Dibromoethane (EDB)	FB	Ave	+++++ 18122 +++++	 +++++ 	1515 5881 +++++ +++++	 12324 +++++ 	2640 +++++ 	+++++ 20.0 +++++	 +++++ 	1.00 5.00 +++++ +++++	 10.0 +++++ 	2.00 +++++

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Chlorobenzene	CBNZ d5	Ave	+++++ 108984 1423130	 844879 	6914 28130 270827 2880480	 59006 1125637 	11654 551158 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 39179 439623	 273589 	2382 10094 91679 793735	 22407 353075 	3892 183457 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Ethylbenzene	CBNZ d5	Ave	2970 161654 2052534	 1222687 	8763 38981 397985 4066729	 84174 1620782 	16416 803636 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
m,p-Xylene	CBNZ d5	Ave	1186 63094 799696	 477767 	3733 16012 155537 1600868	 32533 630775 	6517 313470 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
o-Xylene	CBNZ d5	Ave	1270 58328 752233	 454950 	3573 14104 145343 1478010	 29938 600288 	6258 292494 	0.500 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Styrene	CBNZ d5	Ave	+++++ 102228 1257255	 757556 	5751 25444 249929 2487172	 54711 997999 	10000 494543 	+++++ 20.0 250	 150 	1.00 5.00 50.0 500	 10.0 200 	2.00 100
Bromoform	CBNZ d5	Ave	+++++ 8782 127632	 79707 	+++++ 1744 21394 269894	 4343 104377 	+++++ 48916 	+++++ 20.0 250	 150 	+++++ 5.00 50.0 500	 10.0 200 	+++++ 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
Isopropylbenzene	CBNZ d5	Ave	+++++ 140882 1656562	 1008624	8847 34894 339018 3191326	 73067 1323055	14911 675150	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
Bromobenzene	CBNZ d5	Ave	800 41629 522753	 307620	2874 10070 99355 1037474	 23136 410756	4505 202446	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 37780 482257	 285760	2727 8411 88236 996918	 20547 379520	3473 182713	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,2,3-Trichloropropane	CBNZ d5	Lin1	+++++ 36670 +++++	 215362	2833 9194 75614 +++++	 19921 +++++	4139 145966	+++++ 20.0 +++++	 150	1.00 5.00 50.0 +++++	 10.0 +++++	2.00 100
trans-1,4-Dichloro-2-butene	CBNZ d5	Ave	+++++ 8155 +++++	 47577	+++++ 2056 15882 +++++	 5164 +++++	760 32130	+++++ 20.0 +++++	 150	+++++ 5.00 50.0 +++++	 10.0 +++++	2.00 100
n-Propylbenzene	CBNZ d5	Ave	3248 161390 1929112	 1156257	9416 39591 383246 3702479	 84128 1523757	16416 761267	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
2-Chlorotoluene	CBNZ d5	Ave	+++++ 107038 1383544	 817215	6661 27410 264536 2754770	 58286 1081536	11686 537117	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
4-Chlorotoluene	CBNZ d5	Ave	2480 137655 1567849	 941175	8053 34923 318190 3076969	 73717 1233834	13933 618069	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,3,5-Trimethylbenzene	CBNZ d5	Ave	+++++ 138114 1502245	 901136	7876 35440 305887 2890816	 75755 1183673	14975 600246	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
tert-Butylbenzene	CBNZ d5	Ave	+++++ 189859 2137657	 1323019	9295 41458 449546 3915092	 100293 1708263	15345 886178	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,2,4-Trimethylbenzene	CBNZ d5	Ave	+++++ 122260 1360874	 818013	8450 32321 268889 2621409	 69189 1074484	13609 538436	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
sec-Butylbenzene	CBNZ d5	Ave	+++++ 140988 1524750	 931196	9263 39701 320637 2860807	 83494 1219421	16794 627457	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,3-Dichlorobenzene	CBNZ d5	Lin2	+++++ 77840 917027	 555042	6317 20147 184599 1820557	 42079 722116	8365 360671	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
p-Isopropyltoluene	DCBd 4	Lin2	+++++ 110813 1079268	 668711	8320 33404 238889 1976461	 65026 860843	14555 457343	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
1,4-Dichlorobenzene	DCBd 4	Ave	1679 85008 917070	 561993	6313 20931 187050 1773853	 45642 728724	9095 372512	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,2,3-Trimethylbenzene	DCBd 4	Lin2	+++++ 124157 1314013	 788689	9562 34716 271976 2533498	 70765 1034884	15084 528098	+++++ 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
Benzyl chloride	DCBd 4	Ave	+++++ 5165 71921	 47017	+++++ +++++ 12999 144962	 +++++ 60383	+++++ 31858	+++++ 20.0 250	 150	+++++ +++++ 50.0 500	 +++++ 200	+++++ 100
1,2-Dichlorobenzene	DCBd 4	Ave	1565 71272 859046	 517623	5555 17846 164533 1682302	 39577 683206	8417 333066	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
n-Butylbenzene	DCBd 4	Ave	1996 98803 979522	 599618	6846 25242 212375 1814690	 56583 776680	11235 404329	0.500 20.0 250	 150	1.00 5.00 50.0 500	 10.0 200	2.00 100
1,2-Dibromo-3-chloropropane	DCBd 4	Ave	+++++ 4814 52579	 31517	+++++ 1106 10224 93828	 2942 40323	635 20867	+++++ 20.0 250	 150	+++++ 5.00 50.0 500	 10.0 200	2.00 100
1,3,5-Trichlorobenzene	DCBd 4	Lin2	+++++ 50847 476910	 298449	3713 12916 106235 +++++	 28950 381799	5893 199790	+++++ 20.0 250	 150	1.00 5.00 50.0 +++++	 10.0 200	2.00 100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20	LVL 1 LVL 6 LVL 11 LVL 16 LVL 21	LVL 2 LVL 7 LVL 12 LVL 17 LVL 22	LVL 3 LVL 8 LVL 13 LVL 18 LVL 23	LVL 4 LVL 9 LVL 14 LVL 19 LVL 24	LVL 5 LVL 10 LVL 15 LVL 20
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 41628 404545	 246590 	+++++ 9451 88041 744683	 22301 321761	4945 172879 	+++++ 20.0 250	 150 	+++++ 5.00 50.0 500	 10.0 200 	2.00 100
Hexachlorobutadiene	DCBd 4	Ave	+++++ 18554 172824	 107882 	1038 4726 39400 +++++	 9994 138114	1982 74796 	+++++ 20.0 250	 150 	1.00 5.00 50.0 +++++	 10.0 200 	2.00 100
Naphthalene	DCBd 4	Ave	+++++ 137369 1332781	 839538 	+++++ 29803 294810 2374685	 70537 1079912	13937 581556 	+++++ 20.0 250	 150 	+++++ 5.00 50.0 500	 10.0 200 	2.00 100
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 37304 364968	 228407 	+++++ 9864 78004 669956	 18893 293470	4181 154785 	+++++ 20.0 250	 150 	+++++ 5.00 50.0 500	 10.0 200 	2.00 100
Dibromofluoromethane (Surr)	FB	Ave	 15299 16509	16174 15965 16652 16058	 14974	16016 16092 15866	 16701 15227 	 50.0 50.0	50.0 50.0 50.0 50.0	 50.0	50.0 50.0 50.0	 50.0 50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	 73469 70733	71636 71470 72089 67326	 69736	71692 73389 69024	 72047 67719 	 50.0 50.0	50.0 50.0 50.0 50.0	 50.0	50.0 50.0 50.0	 50.0 50.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	 24867 25209	25254 24696 24871 23681	 22159	24616 24491 23217	 24753 23968 	 50.0 50.0	50.0 50.0 50.0 50.0	 50.0	50.0 50.0 50.0	 50.0 50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-298538/4	H3726.D
Level 2	STD1 310-298538/24	H3746.D
Level 3	STD2 310-298538/5	H3727.D
Level 4	STD2 310-298538/25	H3747.D
Level 5	STD3 310-298538/6	H3728.D
Level 6	STD3 310-298538/26	H3748.D
Level 7	STD4 310-298538/27	H3749.D
Level 8	STD4 310-298538/7	H3729.D
Level 9	STD5 310-298538/8	H3730.D
Level 10	STD5 310-298538/28	H3750.D
Level 11	STD6 310-298538/9	H3731.D
Level 12	STD6 310-298538/29	H3751.D
Level 13	STD7 310-298538/10	H3732.D
Level 14	STD7 310-298538/30	H3752.D
Level 15	ICIS 310-298538/11	H3733.D
Level 16	STD8 310-298538/31	H3753.D
Level 17	STD9 310-298538/12	H3734.D
Level 18	STD9 310-298538/32	H3754.D
Level 19	STD10 310-298538/13	H3735.D
Level 20	STD10 310-298538/33	H3755.D
Level 21	STD11 310-298538/14	H3736.D
Level 22	STD11 310-298538/34	H3756.D
Level 23	STD12 310-298538/15	H3737.D
Level 24	STD12 310-298538/35	H3757.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
Dichlorodifluoromethane		-20.5						40				
Chloromethane		7.2						40				
Vinyl chloride		2.3						40				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
1,3-Butadiene		-14.6						40				
Bromomethane		+++++		+++++		-12.7						40
Chloroethane		19.7						40				
Dichlorofluoromethane		-19.3						40				
Trichlorofluoromethane		+++++		+++++		-9.5						40
Ethanol	+++++		+++++		15.7						40	
Diethyl ether	+++++		-7.5						40			
Acrolein	+++++		-1.3						40			
1,1-Dichloroethene	+++++		4.7						40			
1,1,2-Trichlorotrifluoroethane	+++++		-13.1						40			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
Acetone	+++++	-1.8	+++++		+++++			40				
Iodomethane	+++++	+++++	+++++ -4.0		+++++				40			
Carbon disulfide	-23.0						40					
Isopropyl alcohol	+++++		+++++		-8.5						40	
Acetonitrile	9.1						40					
Allyl chloride	+++++		9.9						40			
Methyl acetate	+++++		-3.7						40			
Methylene chloride	-23.7						40					
tert-Butanol	+++++		+++++		22.1						40	
Acrylonitrile	-6.5						40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1 Analy Batch No.: 298538

SDG No.:

Instrument ID: Hobbes GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
trans-1,2-Dichloroethene	+++++		-15.9						40			
Methyl tert-butyl ether	-28.6						40					
Hexane	+++++		6.9 +++++		+++++				40			
1,1-Dichloroethane	+++++		-13.8						40			
Vinyl acetate	+++++	24.1	+++++		+++++			40				
Chloroprene	+++++		-18.6						40			
Di-isopropyl ether (DIPE)	-8.6 +++++		+++++ +++++		+++++ +++++		40					
tert-Butyl ethyl ether	+++++		26.0						40			
2,2-Dichloropropane	+++++		9.8						40			
cis-1,2-Dichloroethene	+++++		-14.4						40			

FORM VI
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READBACK PERCENT ERROR

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SDG No.:

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	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
2-Butanone (MEK)	+++++		+++++		-0.3						40	
Propionitrile	+++++		16.7						40			
Ethyl acetate	+++++		-10.2						40			
Bromochloromethane	+++++		-8.8						40			
Methacrylonitrile	+++++		7.7						40			
Tetrahydrofuran	+++++		24.8						40			
Chloroform	+++++		9.9						40			
1,1,1-Trichloroethane	+++++		6.1						40			
Cyclohexane	-28.5						40					
Carbon tetrachloride	+++++		-1.7						40			

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GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
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SDG No.:

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	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
1,1-Dichloropropene	+++++		-3.7						40			
Benzene	-24.4						40					
Isobutyl alcohol	+++++		22.1						40			
1,2-Dichloroethane	-24.7						40					
n-Butanol	+++++		7.9						40			
tert-Amyl methyl ether	+++++		+++++		18.8						40	
Heptane	+++++	+++++	+++++ 19.1		+++++ +++++				40			
Trichloroethene	+++++		-6.0						40			
Ethyl acrylate	+++++		+++++		2.3						40	
Methylcyclohexane	-29.0						40					

FORM VI
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1,2-Dichloropropane	+++++		11.5						40			
Dibromomethane	-19.1						40					
Methyl methacrylate	+++++		-6.4						40			
1,4-Dioxane	+++++	-0.9	+++++		+++++			40				
			+++++		+++++							
Bromodichloromethane	+++++		-3.0						40			
2-Nitropropane	+++++	21.6	+++++		+++++			40				
					+++++							
2-Chloroethyl vinyl ether	+++++		2.0						40			
cis-1,3-Dichloropropene	+++++	-2.8	+++++		+++++			40				
	+++++		+++++		+++++							
4-Methyl-2-pentanone (MIBK)	+++++		+++++		6.5						40	
Toluene	-23.5						40					

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SDG No.:

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Calibration Start Date: 11/09/2020 03:30 Calibration End Date: 11/09/2020 15:00 Calibration ID: 16957

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 # LVL 13 # LVL 19 #	LVL 2 # LVL 8 # LVL 14 # LVL 20 #	LVL 3 # LVL 9 # LVL 15 # LVL 21 #	LVL 4 # LVL 10 # LVL 16 # LVL 22 #	LVL 5 # LVL 11 # LVL 17 # LVL 23 #	LVL 6 # LVL 12 # LVL 18 # LVL 24 #	LVL 1 LVL 7 LVL 13 LVL 19	LVL 2 LVL 8 LVL 14 LVL 20	LVL 3 LVL 9 LVL 15 LVL 21	LVL 4 LVL 10 LVL 16 LVL 22	LVL 5 LVL 11 LVL 17 LVL 23	LVL 6 LVL 12 LVL 18 LVL 24
trans-1,3-Dichloropropene	+++++ +++++	9.0	+++++ +++++		+++++ +++++			40				
Ethyl methacrylate	+++++		+++++		5.3						40	
1,1,2-Trichloroethane	+++++		13.3						40			
Tetrachloroethene	-33.4						40					
1,3-Dichloropropane	+++++ +++++ +++++		-1.4 +++++ +++++		+++++ +++++				40			
2-Hexanone	+++++		23.3						40			
Chlorodibromomethane	+++++		+++++		-19.7						40	
n-Butyl acetate	+++++	0.9	+++++		+++++			40				
1,2-Dibromoethane (EDB)	+++++ +++++ +++++		21.9 +++++ +++++		+++++ +++++				40			
Chlorobenzene	+++++		11.1						40			

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1,1,1,2-Tetrachloroethane	+++++		14.6						40			
Ethylbenzene	-30.0						40					
m,p-Xylene	-29.4						40					
o-Xylene	-19.8						40					
Styrene	+++++		3.7						40			
Bromoform	+++++	-26.9	+++++		+++++			40				
Isopropylbenzene	+++++		16.2						40			
Bromobenzene	-28.8						40					
1,1,2,2-Tetrachloroethane	+++++		29.8						40			
1,2,3-Trichloropropane	+++++ +++++		-25.8 +++++		+++++				40			

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trans-1,4-Dichloro-2-butene	+++++ +++++		+++++ +++++		-3.1 +++++						40	
n-Propylbenzene	-22.1						40					
2-Chlorotoluene	+++++		9.8						40			
4-Chlorotoluene	-28.7						40					
1,3,5-Trimethylbenzene	+++++		10.2						40			
tert-Butylbenzene	+++++		-2.1						40			
1,2,4-Trimethylbenzene	+++++		28.5						40			
sec-Butylbenzene	+++++		21.3						40			
1,3-Dichlorobenzene	+++++		6.5						40			
p-Isopropyltoluene	+++++		-5.8						40			

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1,4-Dichlorobenzene	-28.1						40					
1,2,3-Trimethylbenzene	+++++		1.4						40			
Benzyl chloride	+++++	+++++	+++++ +++++		+++++ -15.6						40	
1,2-Dichlorobenzene	-25.5						40					
n-Butylbenzene	-24.2						40					
1,2-Dibromo-3-chloropropane	+++++		+++++		19.6						40	
1,3,5-Trichlorobenzene	+++++		0.8		+++++				40			
1,2,4-Trichlorobenzene	+++++		+++++		15.5						40	
Hexachlorobutadiene	+++++		4.6		+++++				40			
Naphthalene	+++++		+++++		0.7						40	

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1,2,3-Trichlorobenzene	+++++		+++++		8.3						40	

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Nov-2020 03:30:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:11:35 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 05:37:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.966	2.972	-0.006	0	47782	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.197	-0.006	98	77810	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	83	5860	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.337	0.001	90	65436	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	36137	50.0	50.0	
17 Ethanol	45	2.161	2.167	-0.006	78	1498	20.0	20.6	M
18 Ethyl ether	59	2.204	2.228	-0.024	32	650	0.5000	0.3219	M
19 Acrolein	56	2.332	2.338	-0.006	52	1091	2.38	1.33	M
20 1,1-Dichloroethene	96	2.399	2.411	-0.012	21	167	0.5000	0.5101	
21 112TCTFE	101	2.411	2.429	-0.018	1	371	0.5000	0.2615	M
22 Acetone	43	2.484	2.490	-0.006	81	1647	1.00	0.9231	
23 Iodomethane	142	2.527	2.539	-0.012	50	670	0.5000	-5.60	M
24 Carbon disulfide	76	2.582	2.588	-0.006	62	1860	0.5000	0.3852	M
105 Isopropyl alcohol	45	2.661	2.673	-0.012	55	1267	5.00	4.09	a
118 Acetonitrile	40	2.740	2.746	-0.006	93	2856	5.00	5.45	M
25 3-Chloro-1-propene	76	2.752	2.758	-0.006	81	276	0.5000	0.3614	M
26 Methyl acetate	43	2.795	2.807	-0.012	98	1900	1.00	0.4939	a
27 Methylene Chloride	84	2.868	2.874	-0.006	85	745	0.5000	0.3813	M
35 2-Methyl-2-propanol	59	3.039	3.057	-0.018	58	1014	5.00	3.74	
30 Acrylonitrile	53	3.112	3.130	-0.018	99	6779	5.00	4.67	M
28 trans-1,2-Dichloroethene	96	3.112	3.136	-0.024	10	574	0.5000	0.2887	M
29 Methyl tert-butyl ether	73	3.155	3.161	-0.006	92	1498	0.5000	0.3568	
31 Hexane	57	3.393	3.405	-0.012	89	1578	0.5000	0.7274	M
32 1,1-Dichloroethane	63	3.521	3.533	-0.012	1	1195	0.5000	0.2660	a
34 2-Chloro-1,3-butadiene	53	3.606	3.618	-0.012	52	1096	0.5000	0.2316	M
33 Vinyl acetate	86	3.600	3.618	-0.018	97	132	1.00	8.07	
36 Isopropyl ether	87	3.636	3.642	-0.006	39	403	0.5000	0.4568	M
37 Tert-butyl ethyl ether	59	3.966	3.978	-0.012	87	2407	0.5000	0.3083	
38 2,2-Dichloropropane	77	4.069	4.075	-0.006	66	700	0.5000	0.2773	
39 cis-1,2-Dichloroethene	96	4.075	4.087	-0.012	85	707	0.5000	0.2916	
40 2-Butanone (MEK)	43	4.124	4.130	-0.006	34	2097	1.00	1.09	Ma

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.185	-0.006	97	2157	5.00	2.46	M
104 Ethyl acetate	43	4.197	4.203	-0.006	95	2545	1.00	0.5418	a
42 Chlorobromomethane	128	4.301	4.313	-0.012	35	348	0.5000	0.3327	M
43 Methacrylonitrile	67	4.313	4.331	-0.018	94	3431	5.00	3.10	M
44 Tetrahydrofuran	71	4.374	4.374	0.000	20	52	1.00	0.1937	M
45 Chloroform	83	4.398	4.404	-0.006	91	2394	0.5000	0.6750	M
46 1,1,1-Trichloroethane	97	4.551	4.557	-0.006	39	889	0.5000	0.2874	
47 Cyclohexane	56	4.587	4.606	-0.019	84	2092	0.5000	0.3573	
48 Carbon tetrachloride	117	4.703	4.709	-0.006	87	579	0.5000	0.2885	Ma
49 1,1-Dichloropropene	75	4.715	4.721	-0.006	73	704	0.5000	0.2600	
108 Isobutyl alcohol	43	4.917	4.917	0.000	66	1334	12.5	7.39	M
50 Benzene	78	4.904	4.917	-0.013	90	3051	0.5000	0.3782	M
51 1,2-Dichloroethane	62	4.935	4.941	-0.006	38	1192	0.5000	0.3764	M
116 n-Butanol	56	4.996	5.008	-0.012	44	929	12.5	6.00	M
52 Tert-amyl methyl ether	73	5.051	5.057	-0.006	81	1951	0.5000	0.4453	
53 n-Heptane	43	5.197	5.209	-0.012	37	1026	0.5000	2.02	Ma
54 Trichloroethene	132	5.539	5.557	-0.019	40	710	0.5000	0.2947	M
117 Ethyl acrylate	55	5.697	5.709	-0.012	1	913	0.5000	0.2877	M
114 Methylcyclohexane	83	5.721	5.740	-0.019	84	958	0.5000	0.3549	
55 1,2-Dichloropropane	63	5.770	5.776	-0.006	1	567	0.5000	0.2353	M
56 Dibromomethane	93	5.880	5.892	-0.012	1	407	0.5000	0.4046	M
57 Methyl methacrylate	69	5.935	5.935	0.000	33	553	1.00	0.3903	M
115 1,4-Dioxane	58	5.947	5.941	0.006	1	57	10.0	1.79	M
58 Dichlorobromomethane	83	6.057	6.063	-0.006	1	442	0.5000	0.2827	a
106 2-Nitropropane	43	6.301	6.307	-0.006	27	411	1.00	8.05	
59 2-Chloroethyl vinyl ether	63	6.386	6.392	-0.006	1	359	0.5000	0.2375	a
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	1	447	0.5000	0.3203	a
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	93	1741	1.00	0.4234	a
62 Toluene	92	6.855	6.867	-0.012	72	1961	0.5000	0.3826	M
63 trans-1,3-Dichloropropene	75	7.099	7.111	-0.012	1	344	0.5000	0.3156	M
64 Ethyl methacrylate	69	7.239	7.239	0.000	0	314	0.5000	1.24	M
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	3	400	0.5000	0.3098	M
66 Tetrachloroethene	166	7.434	7.440	-0.006	30	644	0.5000	0.3331	M
67 1,3-Dichloropropane	76	7.471	7.477	-0.006	28	814	0.5000	0.1274	M
68 2-Hexanone	43	7.593	7.599	-0.006	36	1361	1.00	0.4892	M
69 Chlorodibromomethane	129	7.703	7.709	-0.006	1	45	0.5000	0.0497	M
109 n-Butyl acetate	43	7.751	7.757	-0.006	27	1005	0.5000	2.21	M
70 Ethylene Dibromide	107	7.825	7.818	0.007	26	427	0.5000	0.3544	M
71 Chlorobenzene	112	8.367	8.373	-0.006	40	1769	0.5000	0.2883	
72 1,1,1,2-Tetrachloroethane	131	8.459	8.471	-0.012	82	509	0.5000	0.2484	
73 Ethylbenzene	91	8.501	8.513	-0.012	95	2970	0.5000	0.3501	M
74 m-Xylene & p-Xylene	106	8.635	8.648	-0.013	91	1186	0.5000	0.3531	
75 o-Xylene	106	9.080	9.093	-0.013	71	1270	0.5000	0.4011	
76 Styrene	104	9.105	9.111	-0.006	74	1577	0.5000	0.2884	
77 Bromoform	173	9.294	9.294	0.000	1	49	0.5000	0.0964	M
78 Isopropylbenzene	105	9.513	9.525	-0.012	94	2482	0.5000	0.3306	
79 Bromobenzene	156	9.836	9.842	-0.006	65	800	0.5000	0.3562	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.879	-0.006	1	513	0.5000	0.2477	M
81 1,2,3-Trichloropropane	75	9.910	9.909	0.001	3	577	0.5000	-0.6357	
82 trans-1,4-Dichloro-2-butene	53	9.940	9.946	-0.006	1	49	0.5000	0.1191	M
83 N-Propylbenzene	91	9.995	10.001	-0.006	97	3248	0.5000	0.3896	
84 2-Chlorotoluene	91	10.080	10.080	0.000	93	1791	0.5000	0.2995	Ma

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.208	10.214	-0.006	92	2480	0.5000	0.3566	Ma
86 1,3,5-Trimethylbenzene	105	10.214	10.220	-0.006	85	2109	0.5000	0.2992	
87 tert-Butylbenzene	119	10.586	10.592	-0.006	93	3083	0.5000	0.3295	
88 1,2,4-Trimethylbenzene	105	10.647	10.653	-0.006	96	2318	0.5000	0.3576	
89 sec-Butylbenzene	105	10.848	10.854	-0.006	95	2526	0.5000	0.3355	
90 1,3-Dichlorobenzene	146	10.952	10.958	-0.006	92	1642	0.5000	-0.0947	
91 4-Isopropyltoluene	119	11.031	11.037	-0.006	48	2265	0.5000	-0.0639	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	88	1679	0.5000	0.3597	a
110 1,2,3-Trimethylbenzene	105	11.135	11.141	-0.006	92	2506	0.5000	-0.003411	
113 Benzyl chloride	126		11.238				ND	ND	
93 1,2-Dichlorobenzene	146	11.495	11.501	-0.006	90	1565	0.5000	0.3727	
94 n-Butylbenzene	91	11.513	11.525	-0.012	94	1996	0.5000	0.3791	
95 1,2-Dibromo-3-Chloropropane	75		12.433				ND	ND	
112 1,3,5-Trichlorobenzene	180	12.696	12.696	0.000	95	1344	0.5000	0.1252	
96 1,2,4-Trichlorobenzene	180	13.439	13.439	0.000	85	1092	0.5000	0.5046	
97 Hexachlorobutadiene	225	13.665	13.677	-0.012	1	172	0.5000	0.1777	M
98 Naphthalene	128	13.726	13.726	0.000	94	2925	0.5000	0.4183	
99 1,2,3-Trichlorobenzene	180	14.025	14.025	0.000	86	929	0.5000	0.4759	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		1.00	0.5802	
S 100 Xylenes, Total	1				0		1.00	0.7542	
S 102 1,3-Dichloropropene, Total	1				0		1.00	0.6359	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	0.50	Units: uL

Report Date: 10-Nov-2020 04:11:38 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D

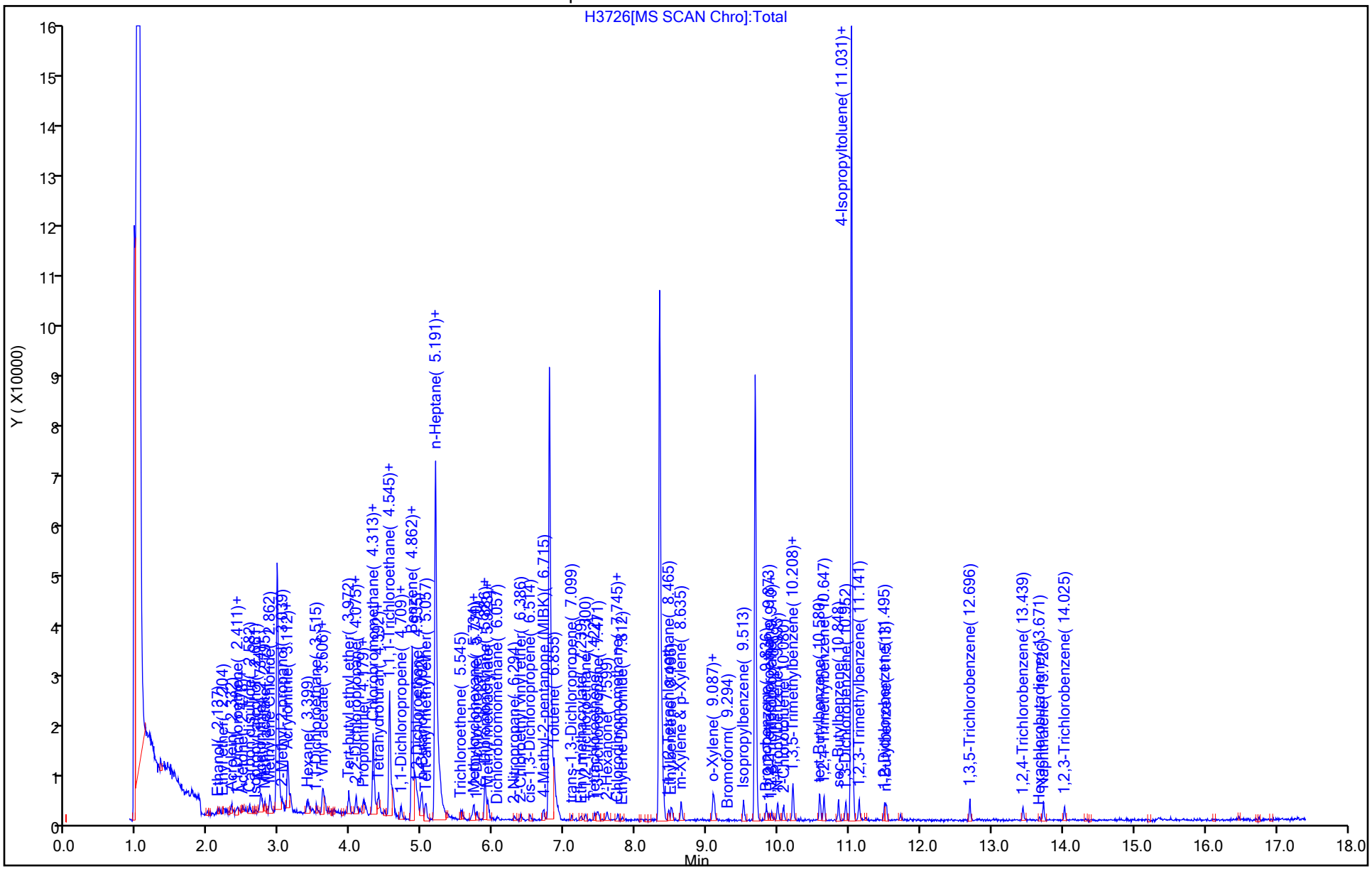
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes Operator ID:

Lims ID: std1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

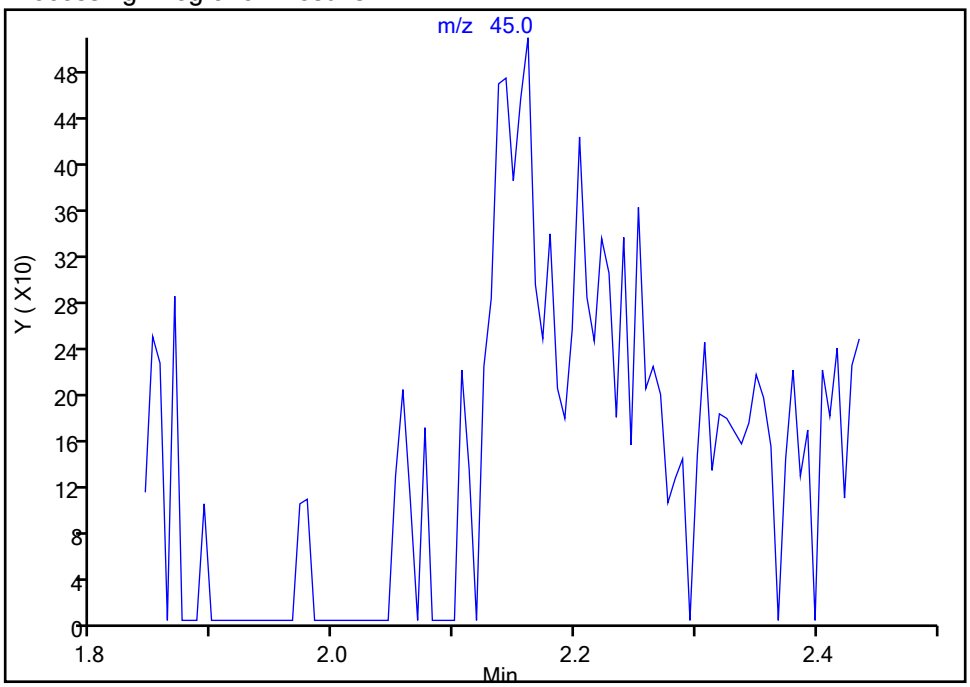
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

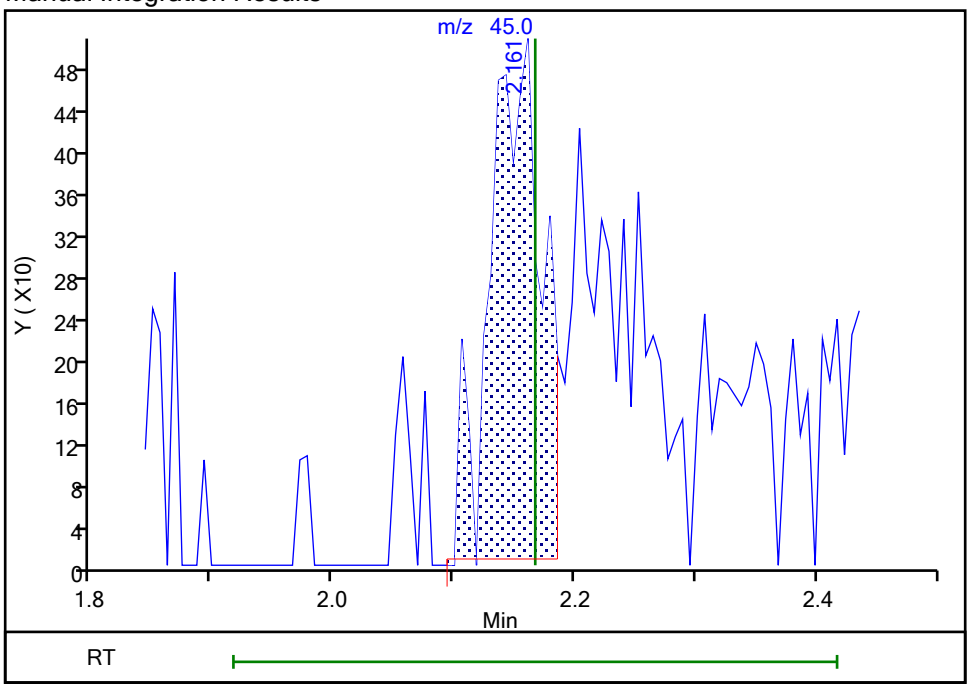
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 2.16
Area: 1498
Amount: 20.578176
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:29:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

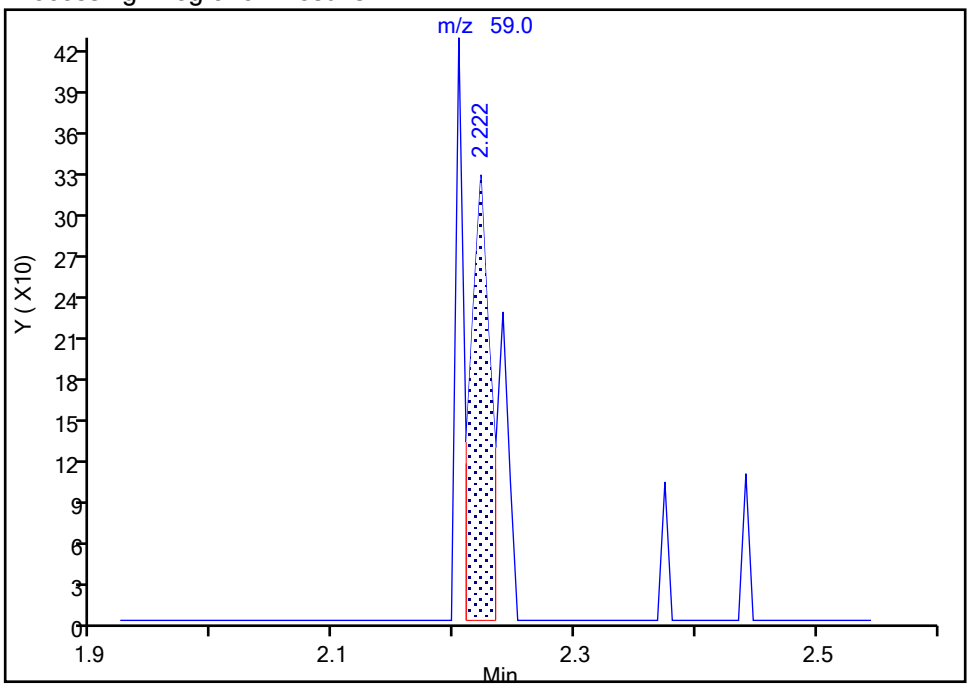
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

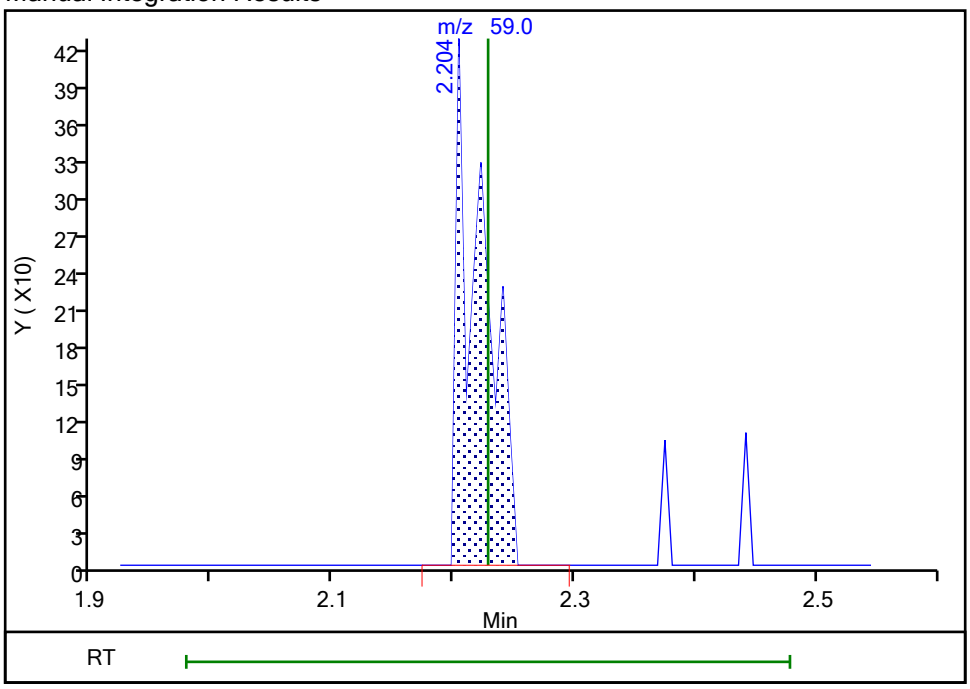
Processing Integration Results

RT: 2.22
Area: 375
Amount: 0.265533
Amount Units: ug/l



Manual Integration Results

RT: 2.20
Area: 650
Amount: 0.321942
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:29:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

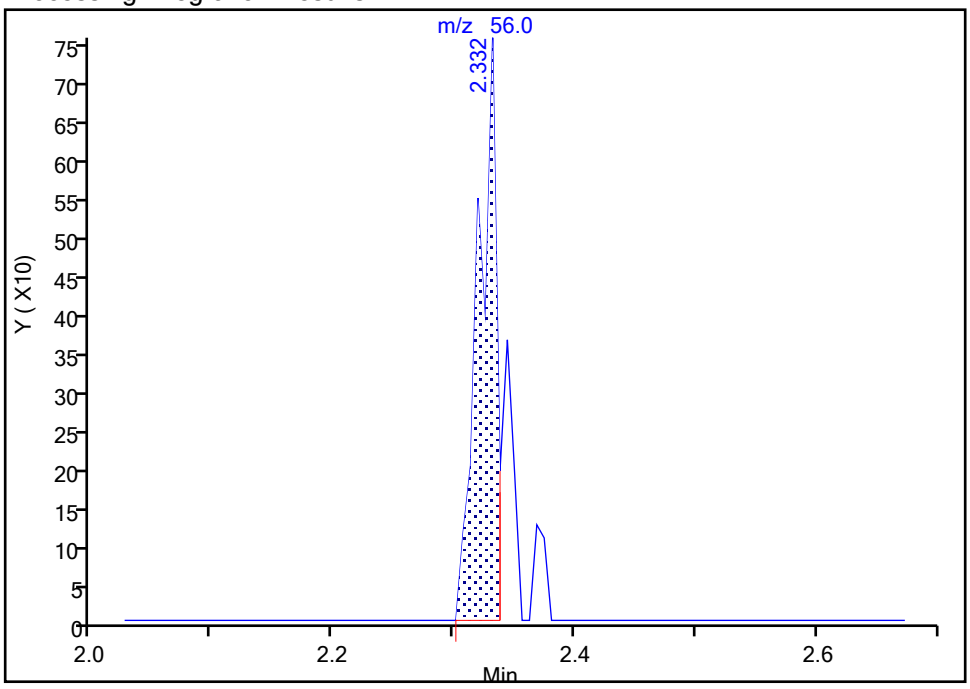
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

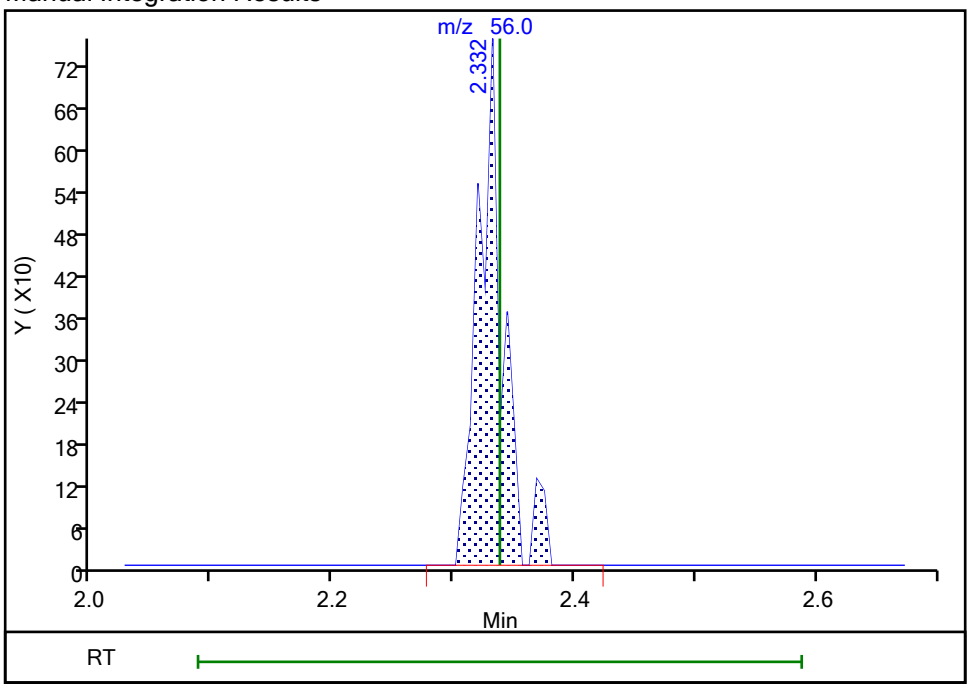
Processing Integration Results

RT: 2.33
Area: 804
Amount: 1.300823
Amount Units: ug/l



Manual Integration Results

RT: 2.33
Area: 1091
Amount: 1.325361
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:29:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

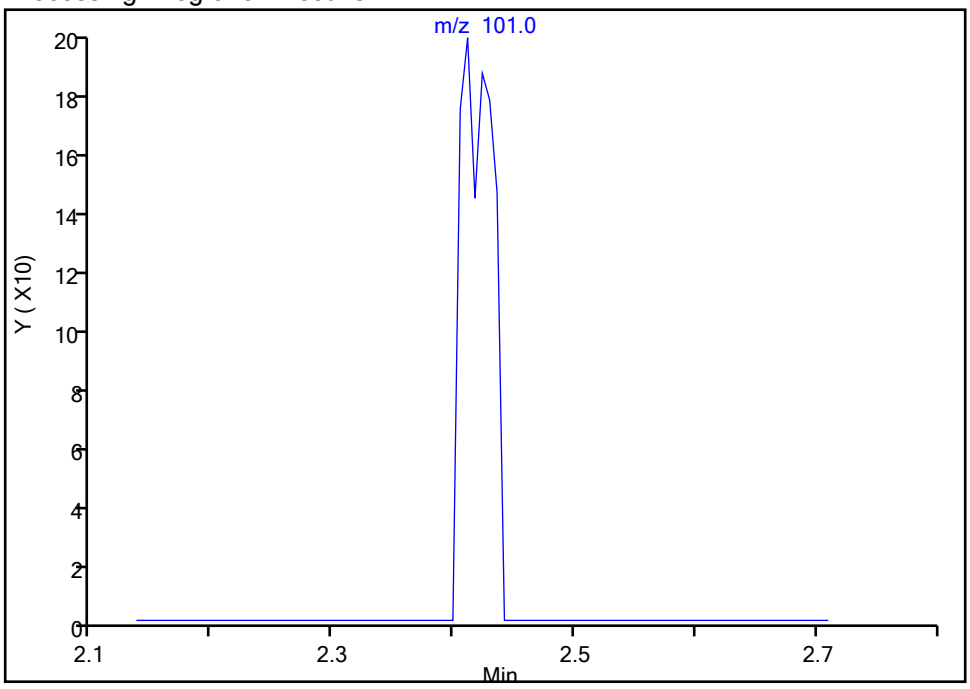
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

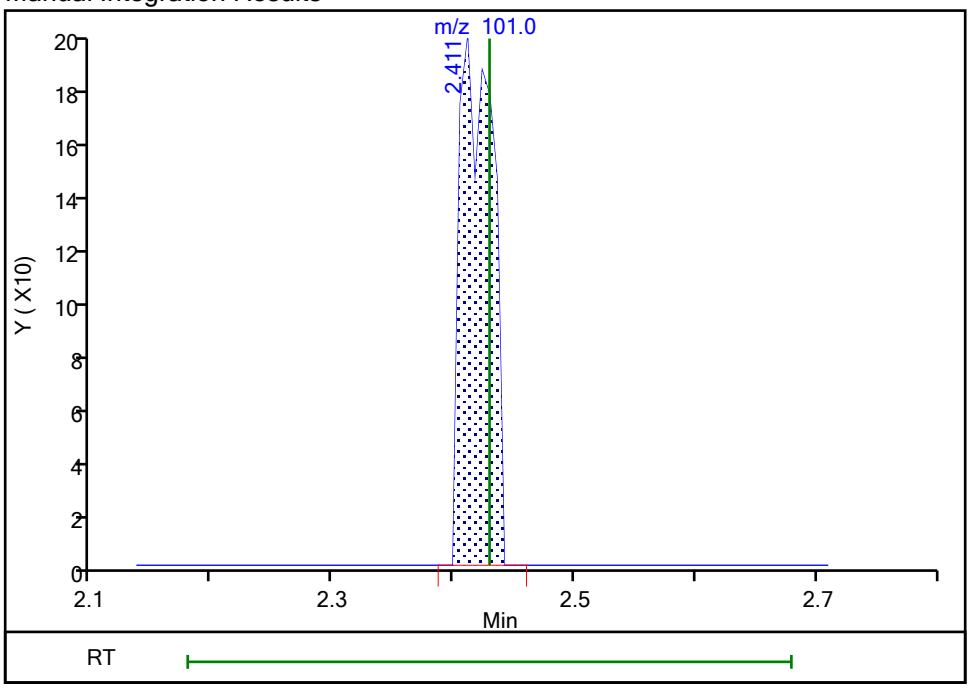
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 371
Amount: 0.261498
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:29:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

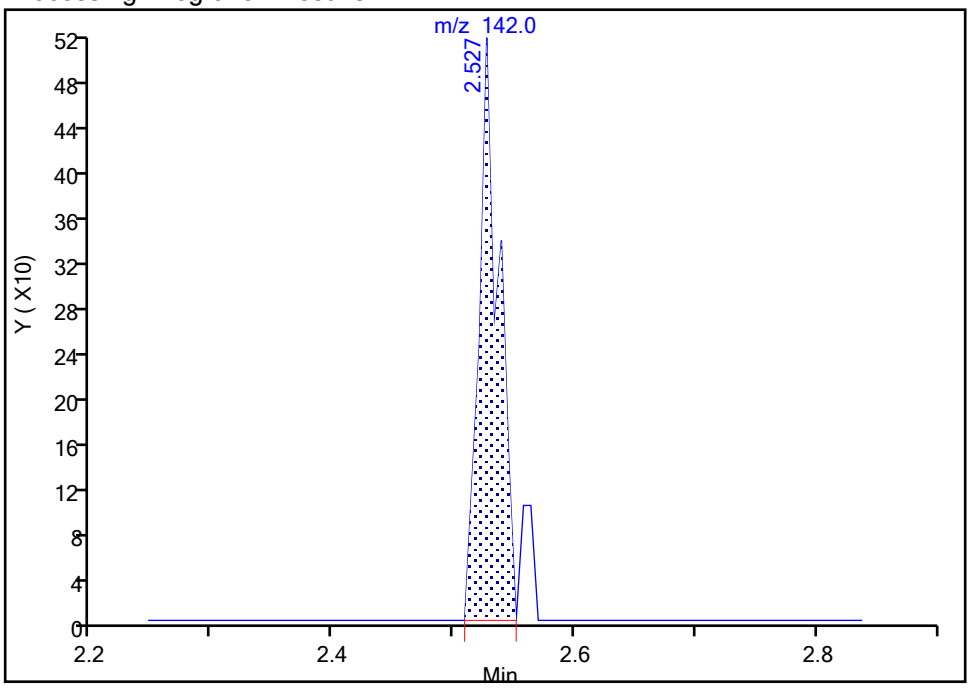
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

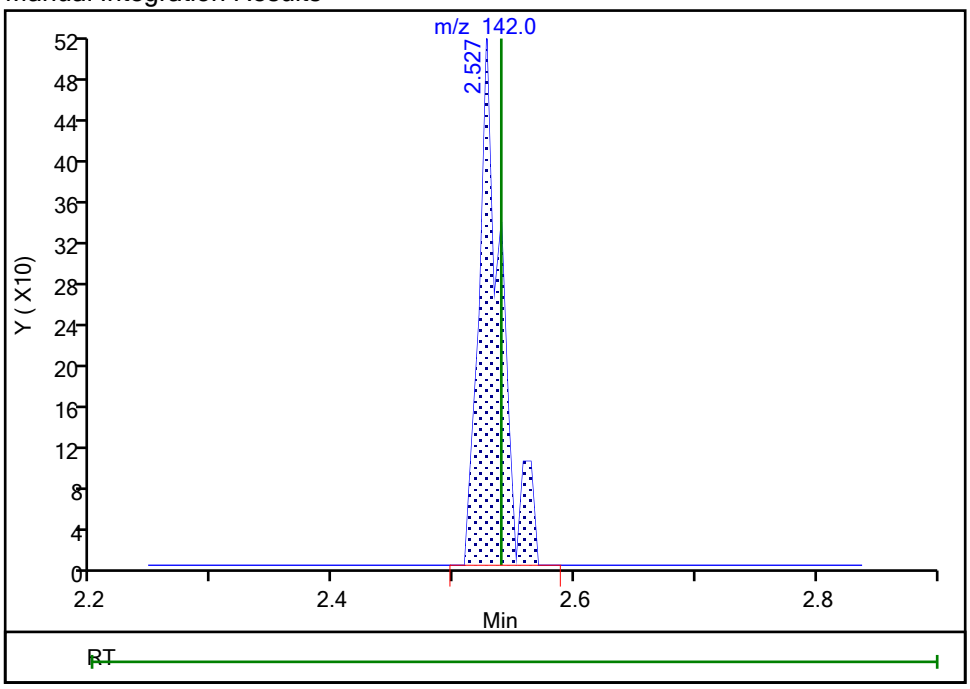
Processing Integration Results

RT: 2.53
Area: 595
Amount: 0.393859
Amount Units: ug/l



Manual Integration Results

RT: 2.53
Area: 670
Amount: -5.595077
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:29:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

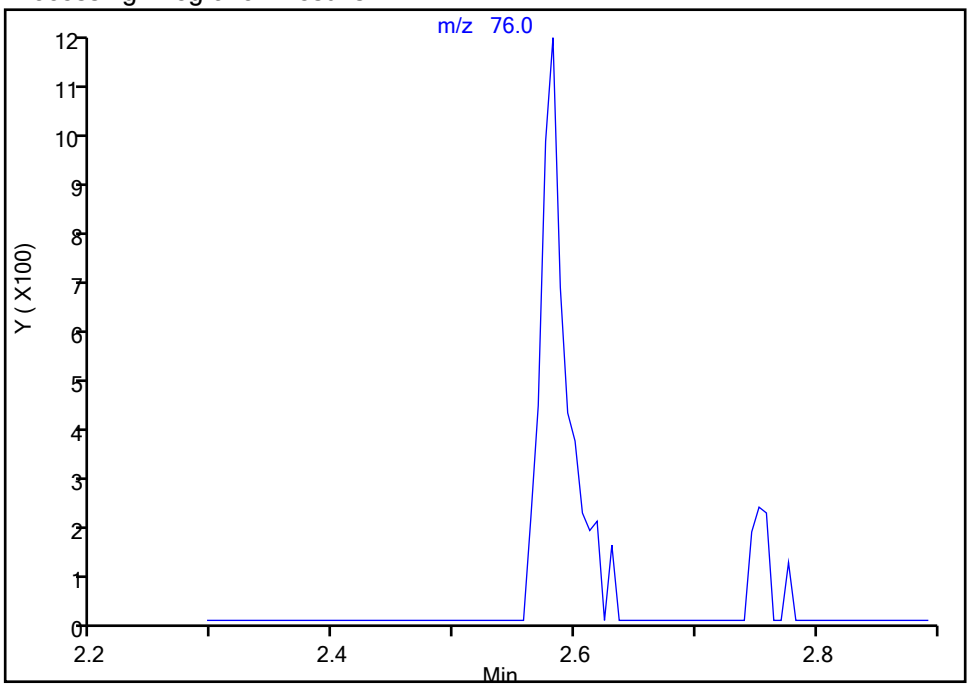
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

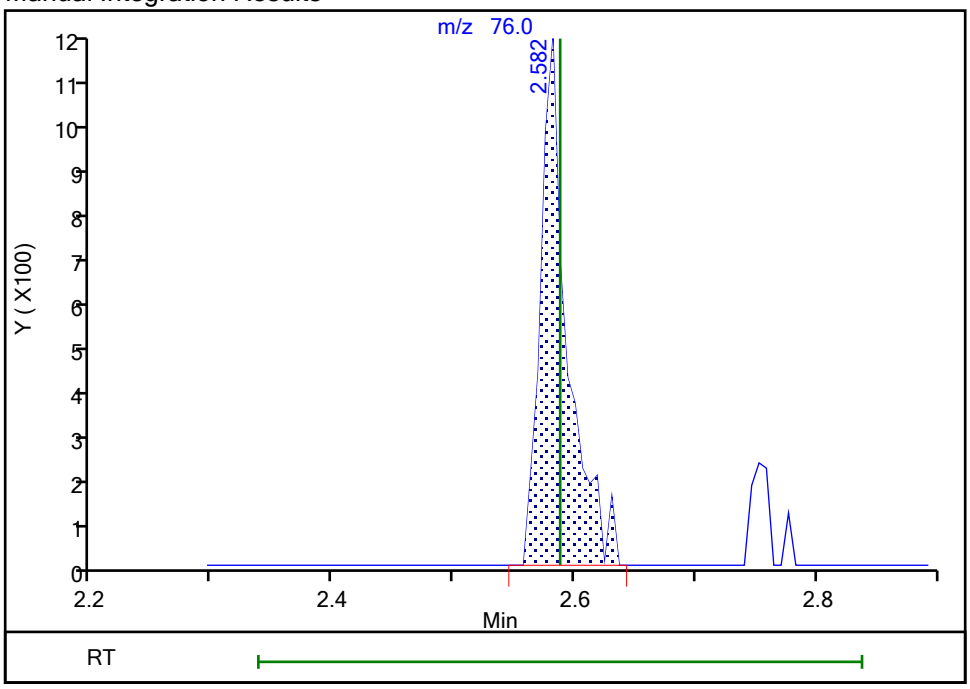
Not Detected
Expected RT: 2.59

Processing Integration Results



Manual Integration Results

RT: 2.58
Area: 1860
Amount: 0.385215
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:29:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

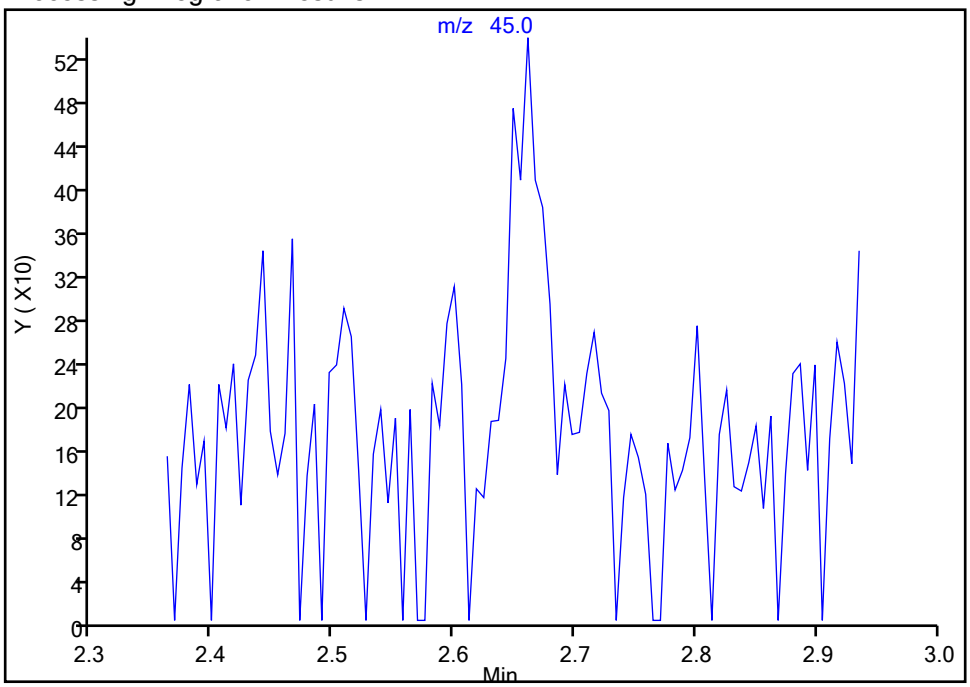
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

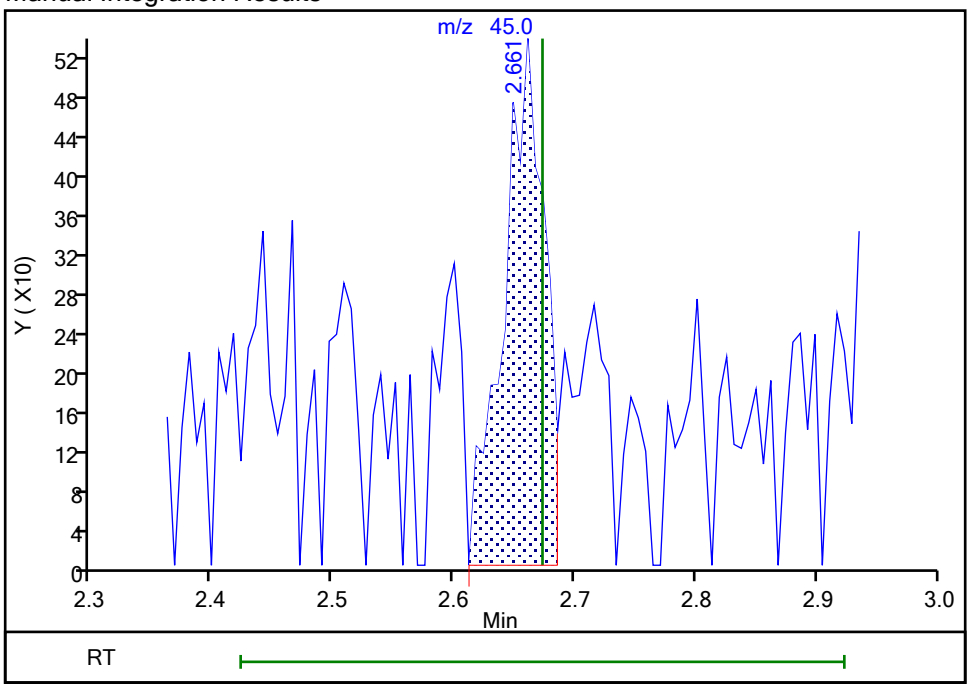
Not Detected
Expected RT: 2.67

Processing Integration Results



Manual Integration Results

RT: 2.66
Area: 1267
Amount: 4.086172
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:30:48
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

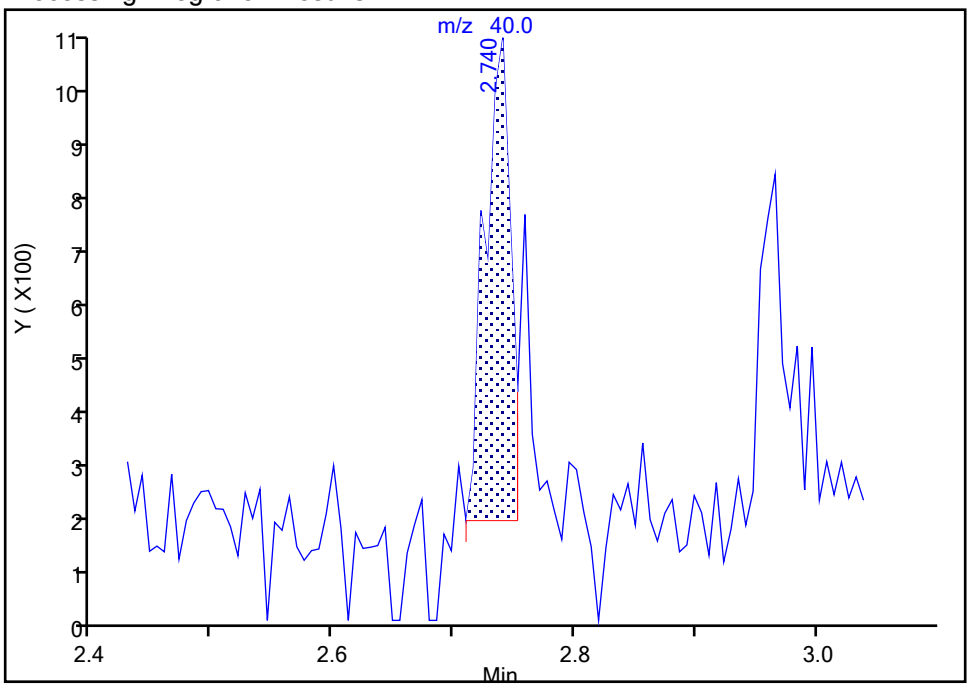
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

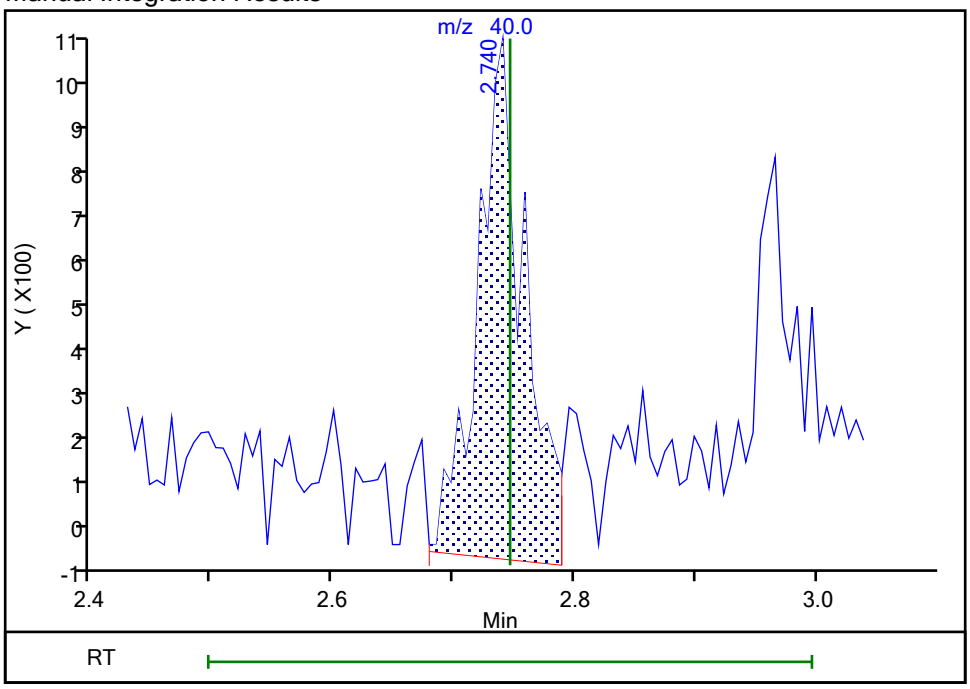
Processing Integration Results

RT: 2.74
Area: 1268
Amount: 3.410460
Amount Units: ug/l



Manual Integration Results

RT: 2.74
Area: 2856
Amount: 5.453964
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

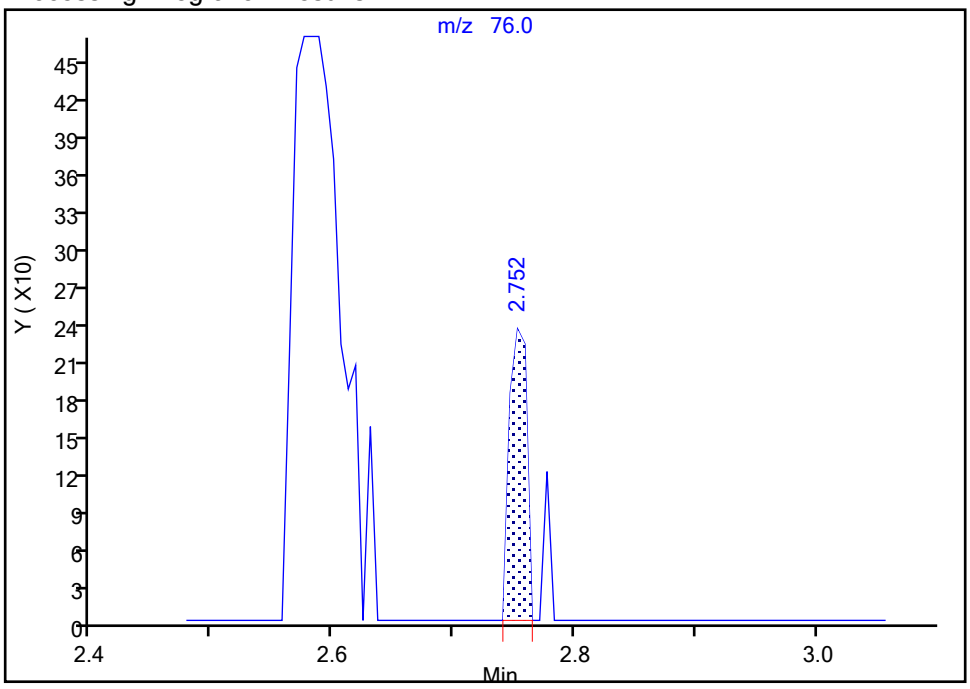
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

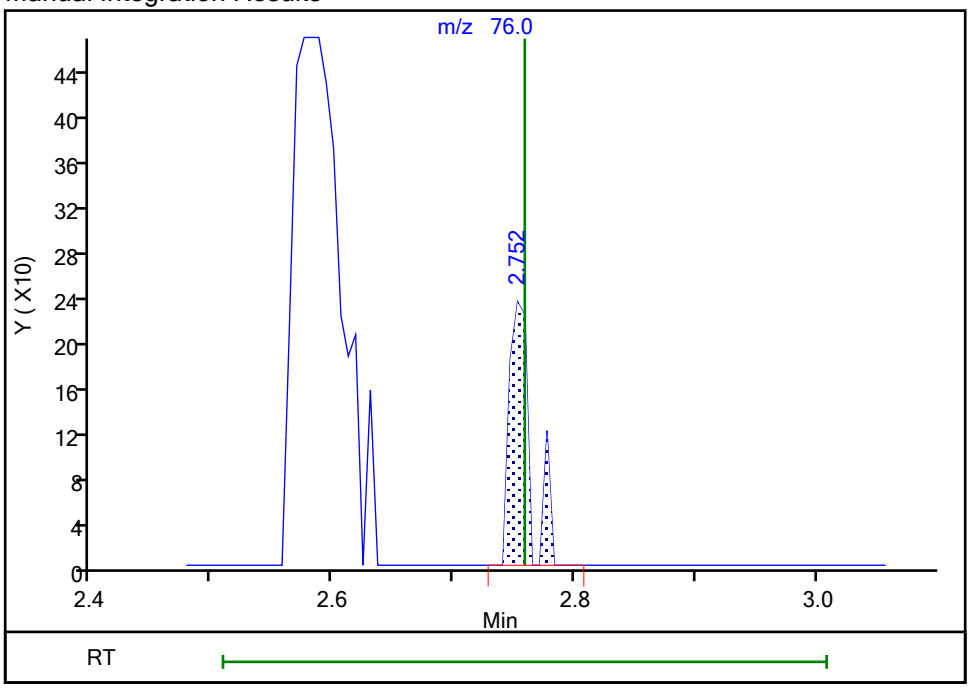
Processing Integration Results

RT: 2.75
Area: 233
Amount: 0.536542
Amount Units: ug/l



Manual Integration Results

RT: 2.75
Area: 276
Amount: 0.361412
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

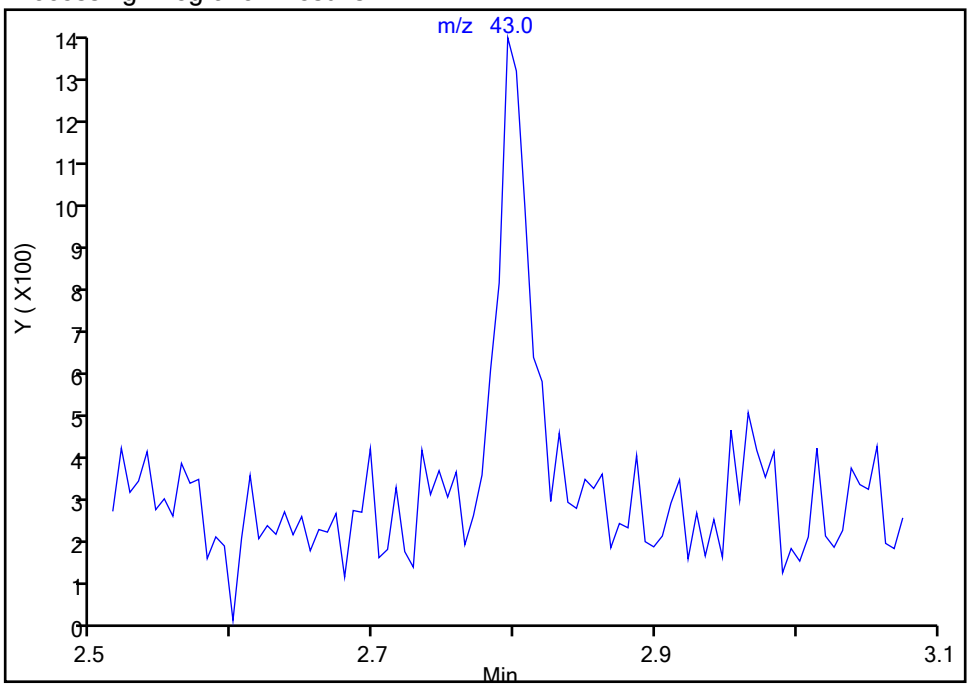
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

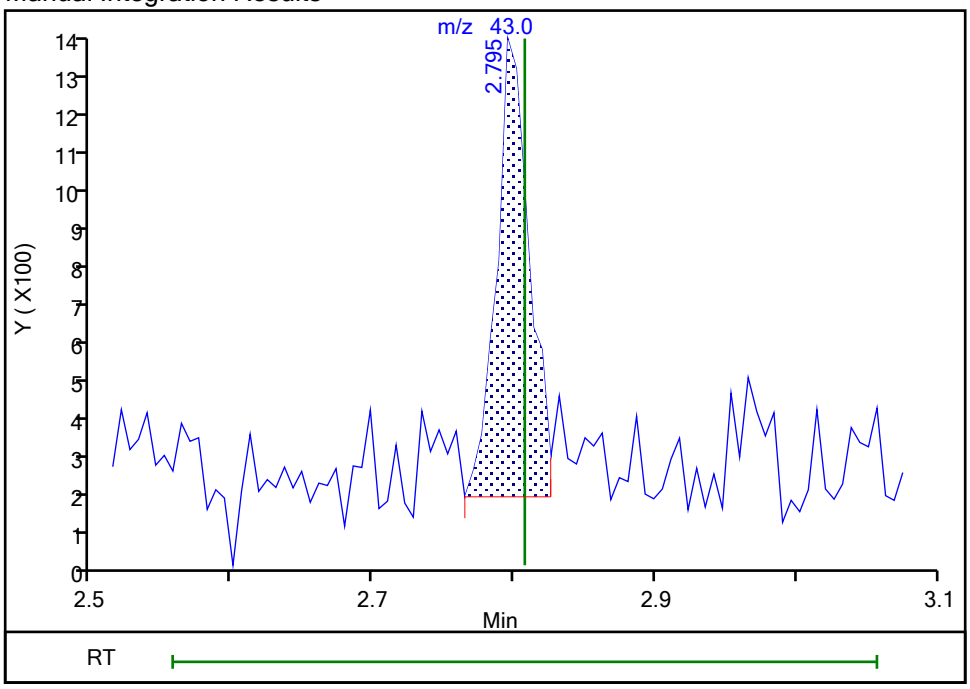
Not Detected
Expected RT: 2.81

Processing Integration Results



Manual Integration Results

RT: 2.80
Area: 1900
Amount: 0.493941
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:33
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

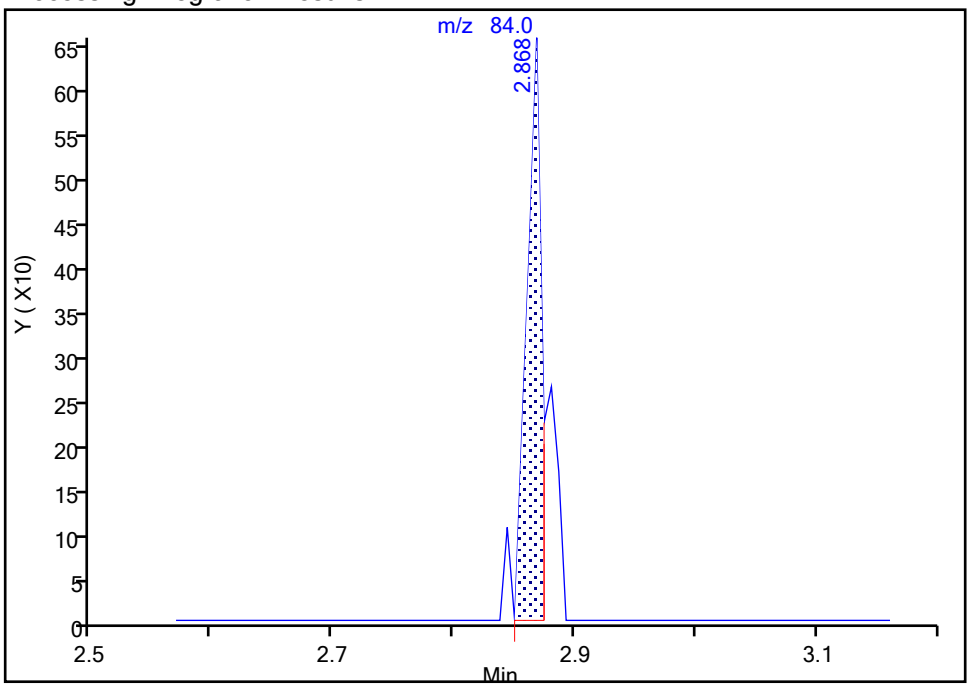
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

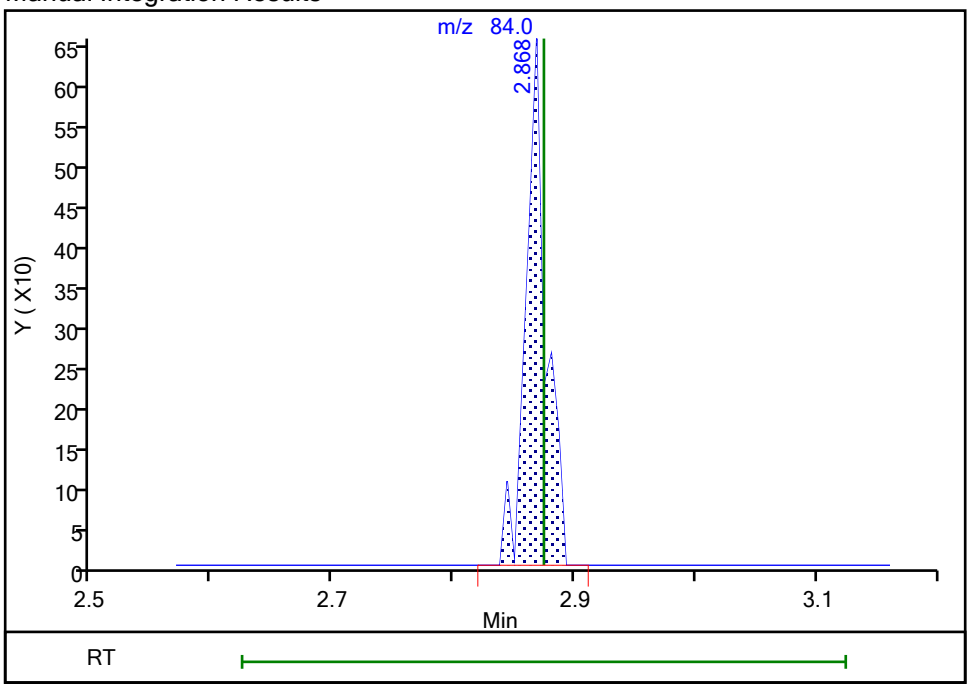
Processing Integration Results

RT: 2.87
Area: 551
Amount: 0.329407
Amount Units: ug/l



Manual Integration Results

RT: 2.87
Area: 745
Amount: 0.381264
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

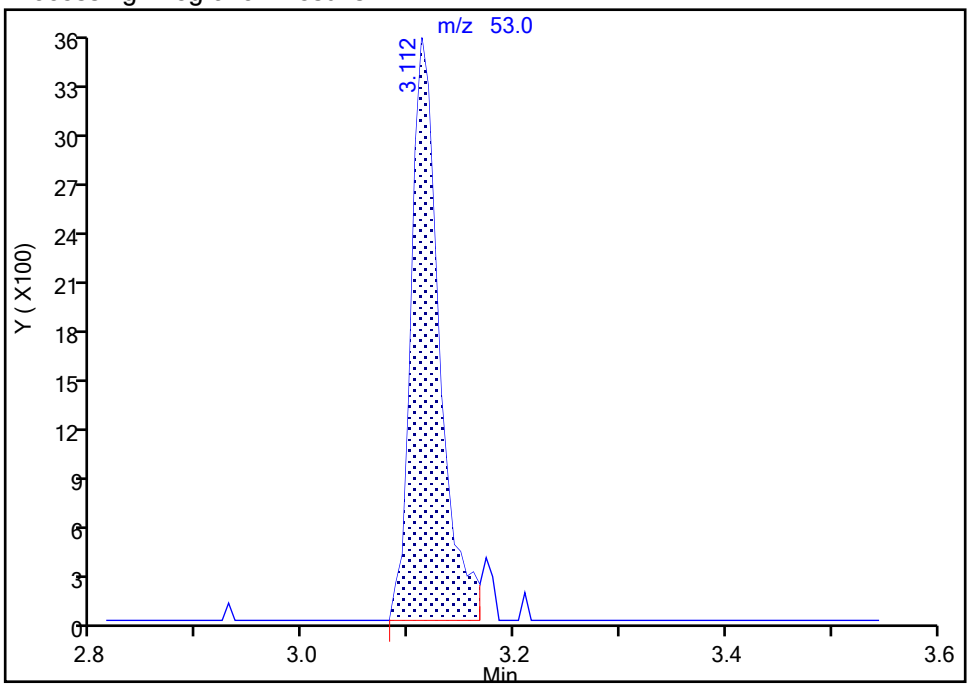
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

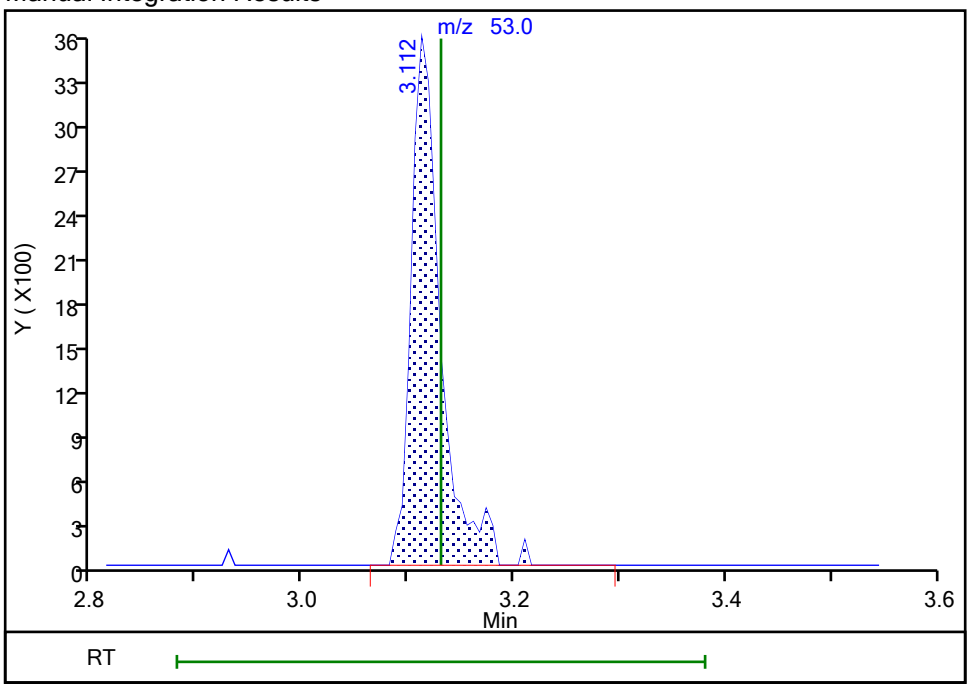
Processing Integration Results

RT: 3.11
Area: 6484
Amount: 3.431017
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 6779
Amount: 4.672565
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

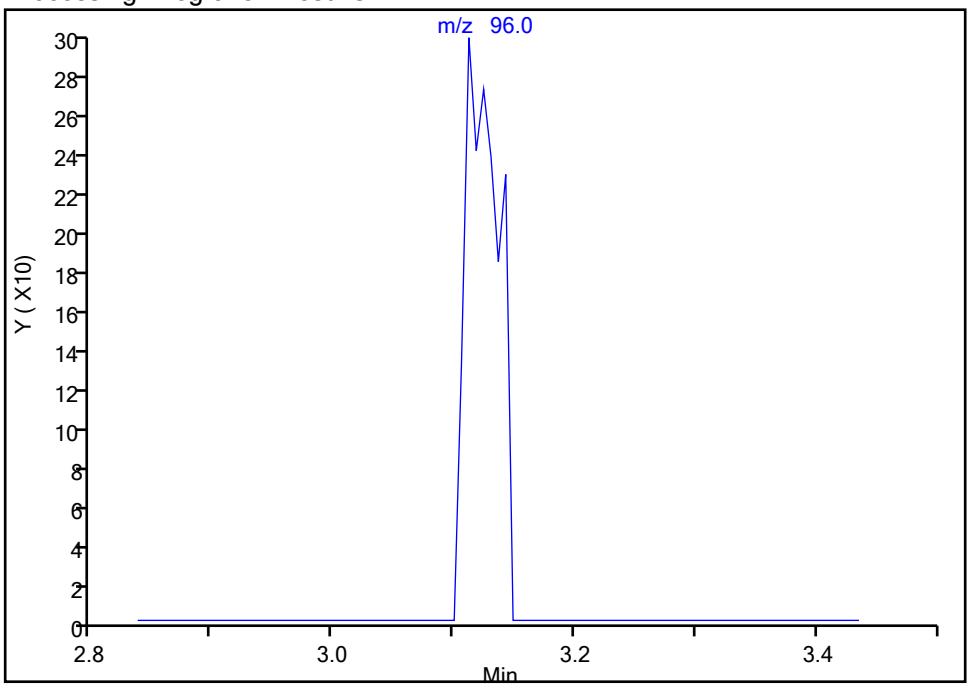
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

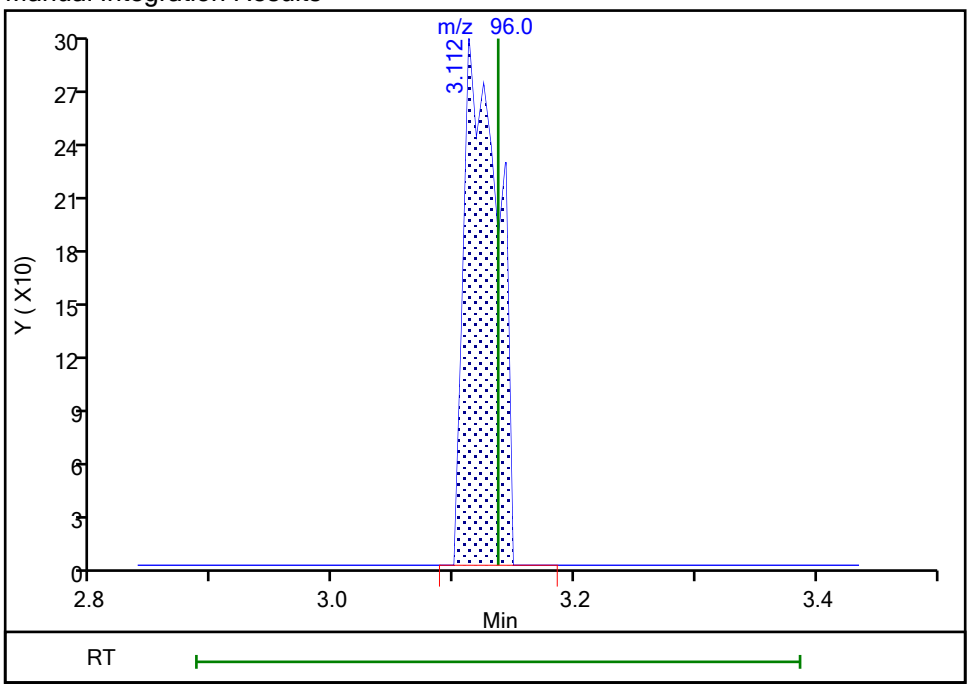
Not Detected
Expected RT: 3.14

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 574
Amount: 0.288681
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

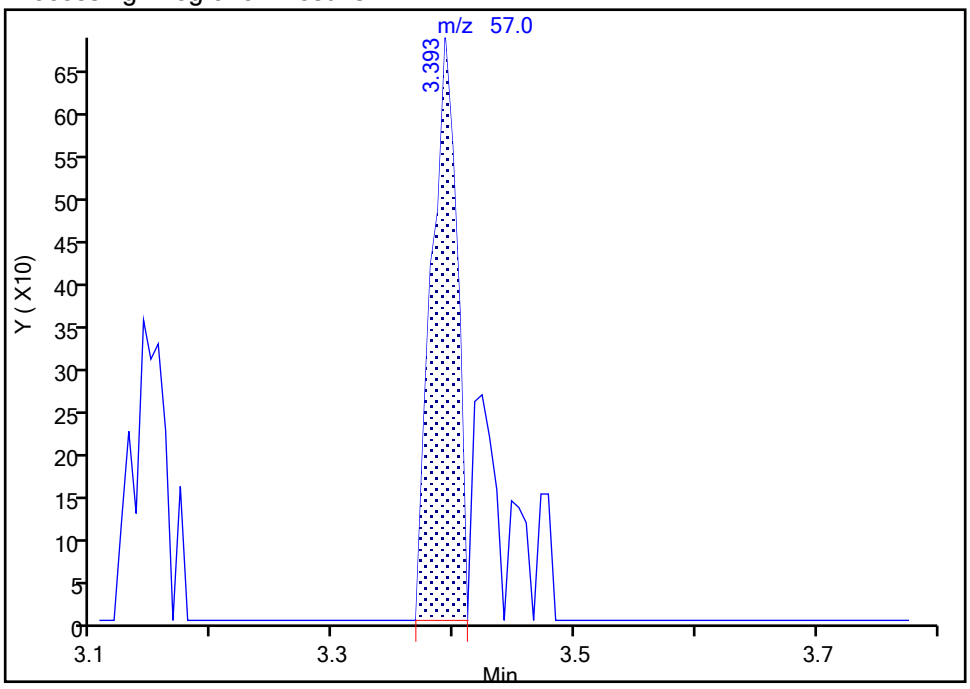
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

31 Hexane, CAS: 110-54-3

Signal: 1

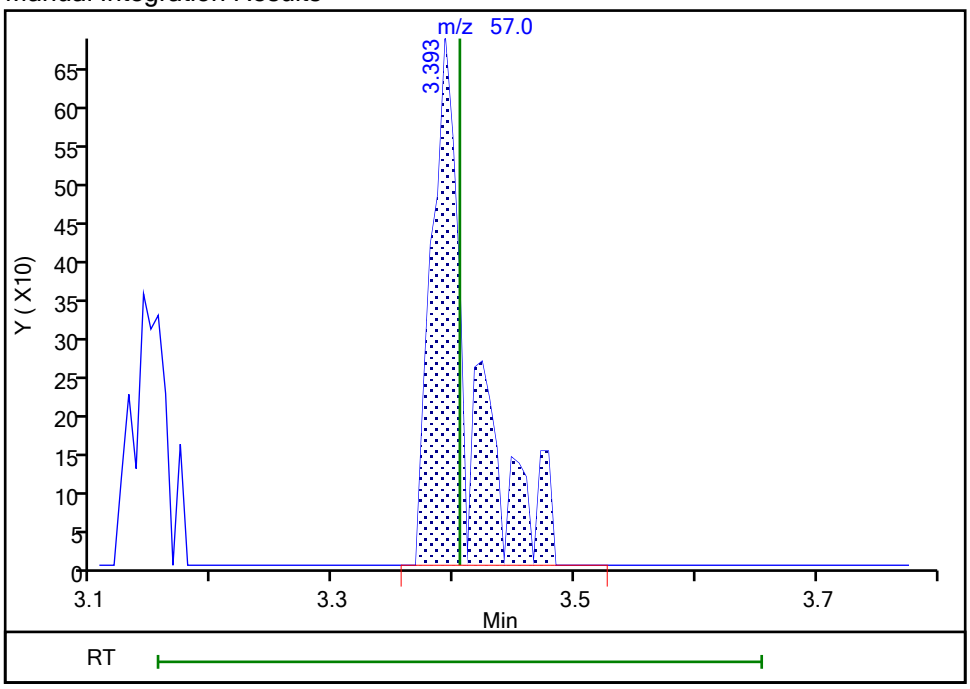
Processing Integration Results

RT: 3.39
Area: 999
Amount: 0.453154
Amount Units: ug/l



Manual Integration Results

RT: 3.39
Area: 1578
Amount: 0.727389
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:31:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

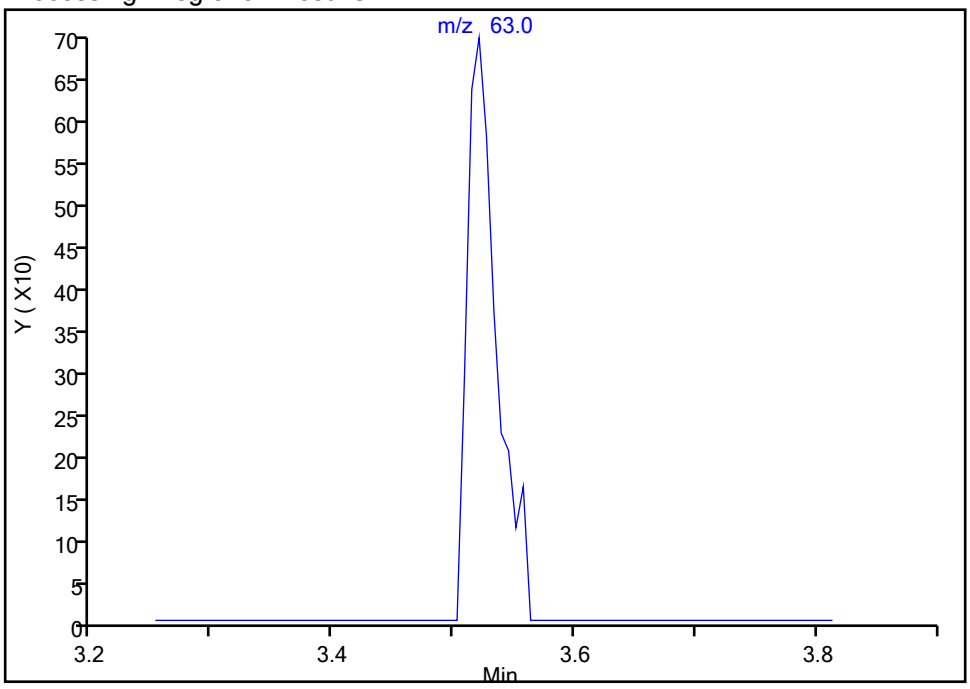
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

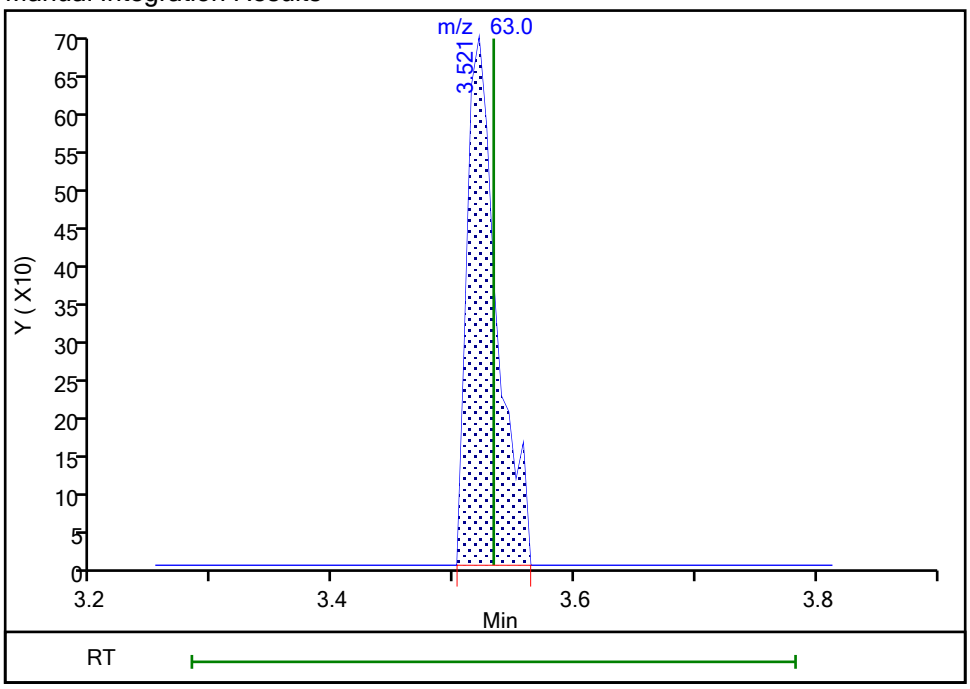
Not Detected
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 1195
Amount: 0.266013
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:01
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

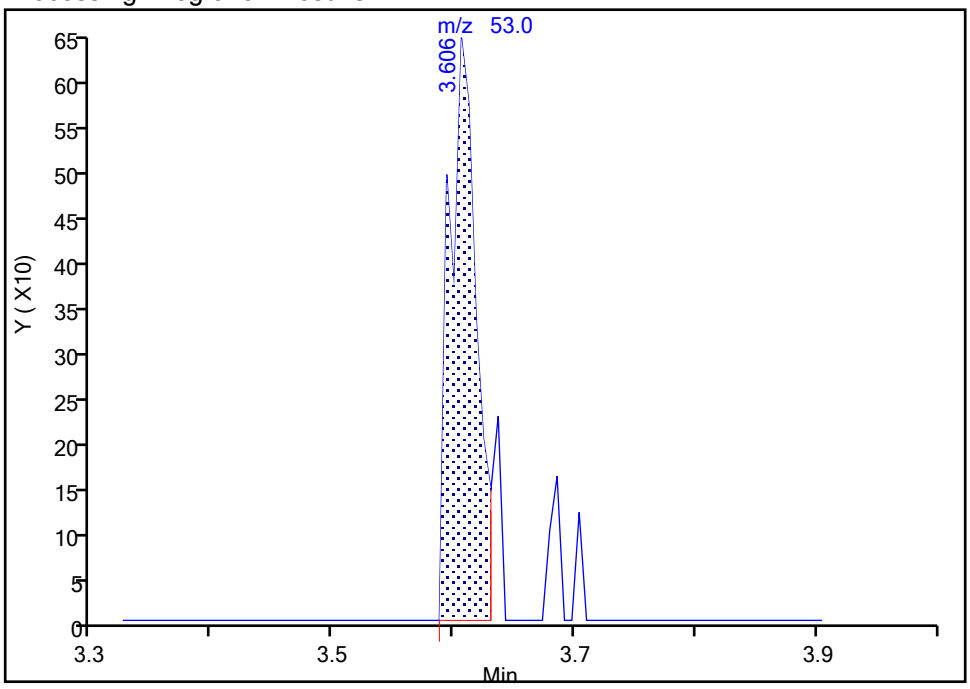
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

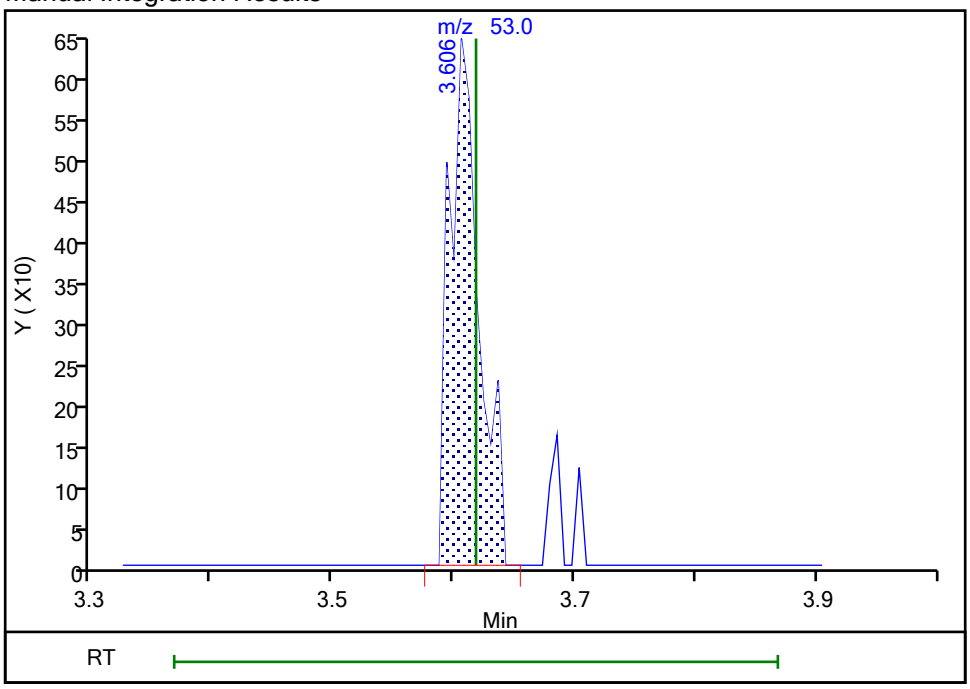
Processing Integration Results

RT: 3.61
Area: 1013
Amount: 0.283297
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 1096
Amount: 0.231612
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

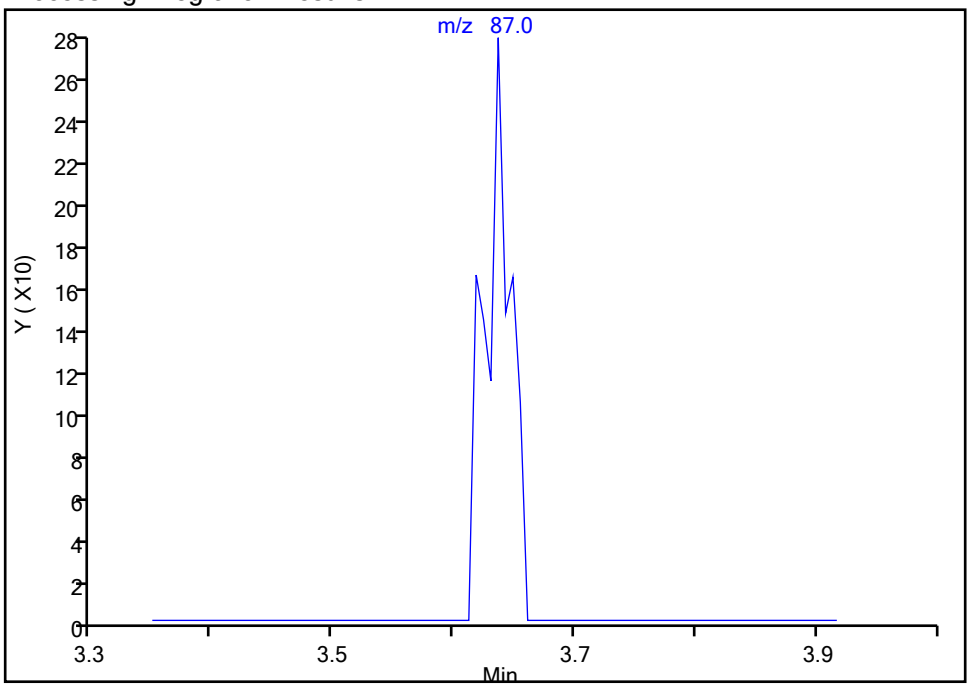
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

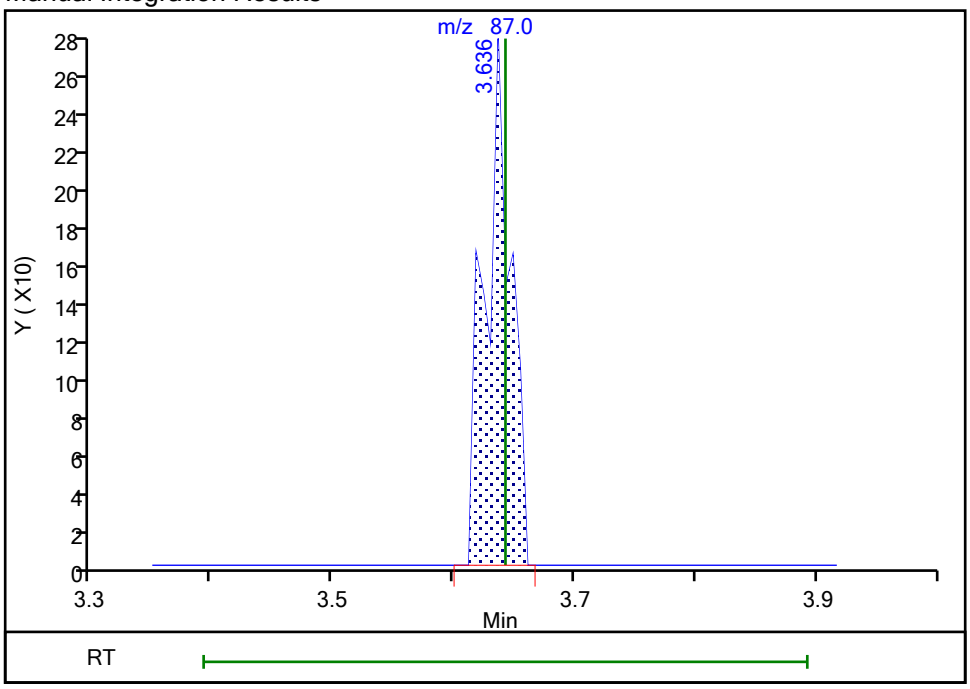
Not Detected
Expected RT: 3.64

Processing Integration Results



Manual Integration Results

RT: 3.64
Area: 403
Amount: 0.456770
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

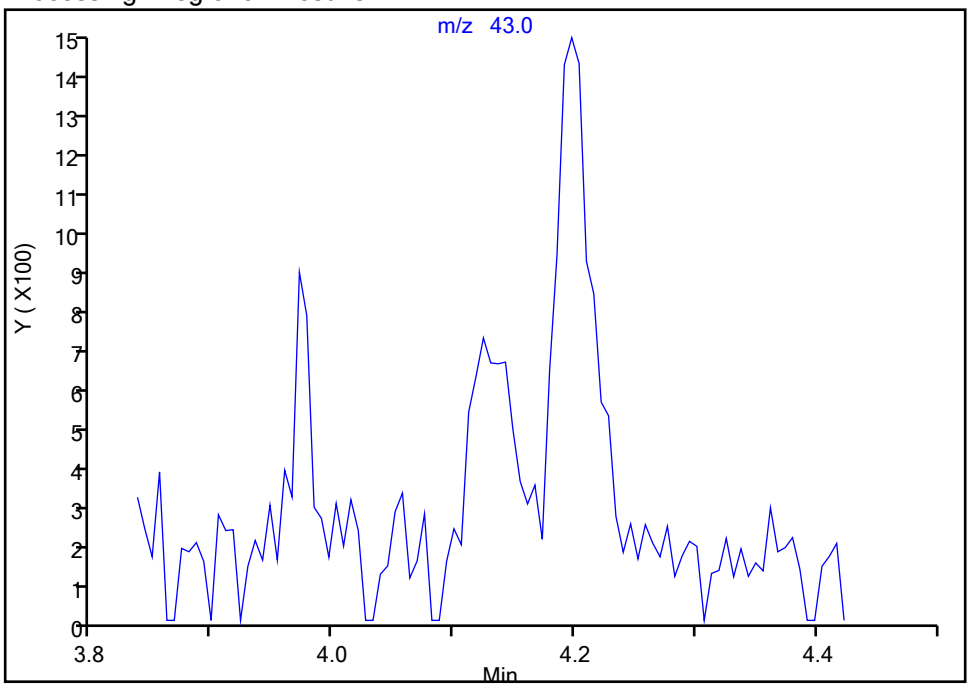
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

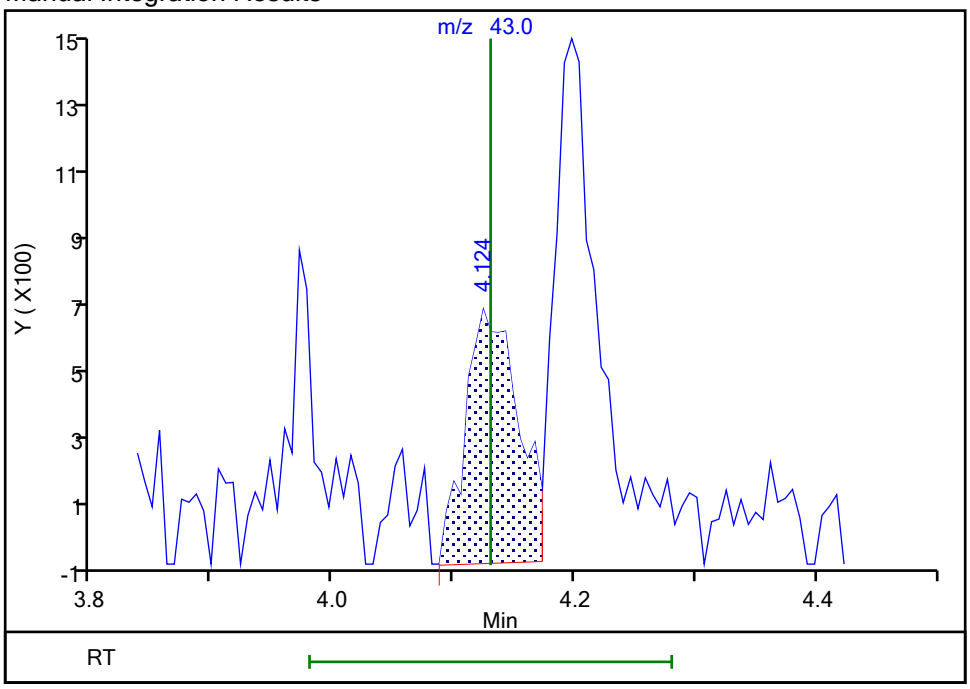
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 2097
Amount: 1.092951
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

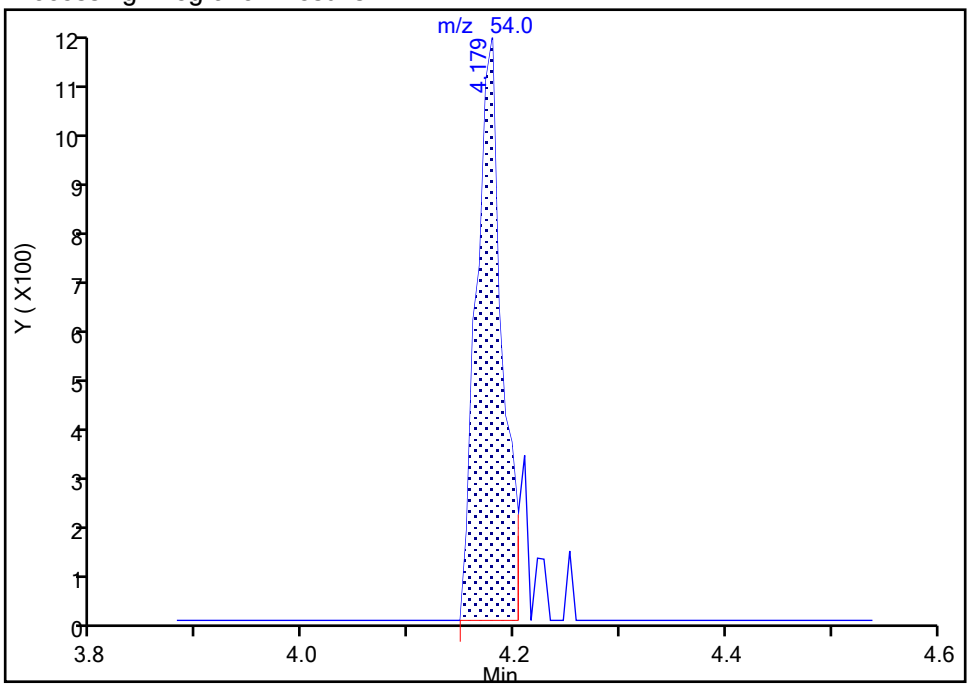
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

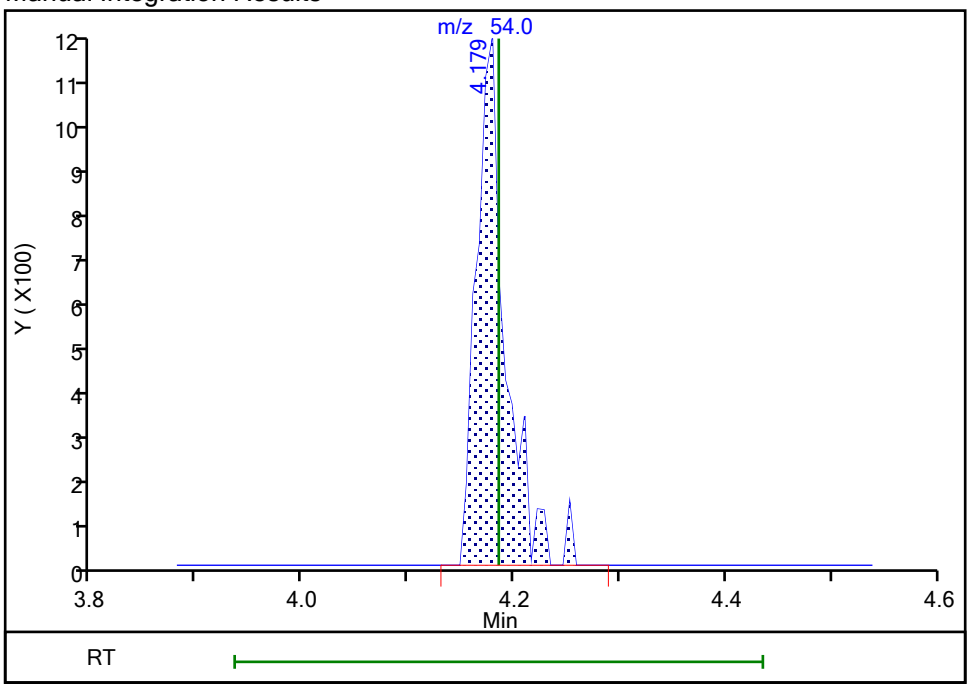
Processing Integration Results

RT: 4.18
Area: 1902
Amount: 2.448489
Amount Units: ug/l



Manual Integration Results

RT: 4.18
Area: 2157
Amount: 2.458402
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

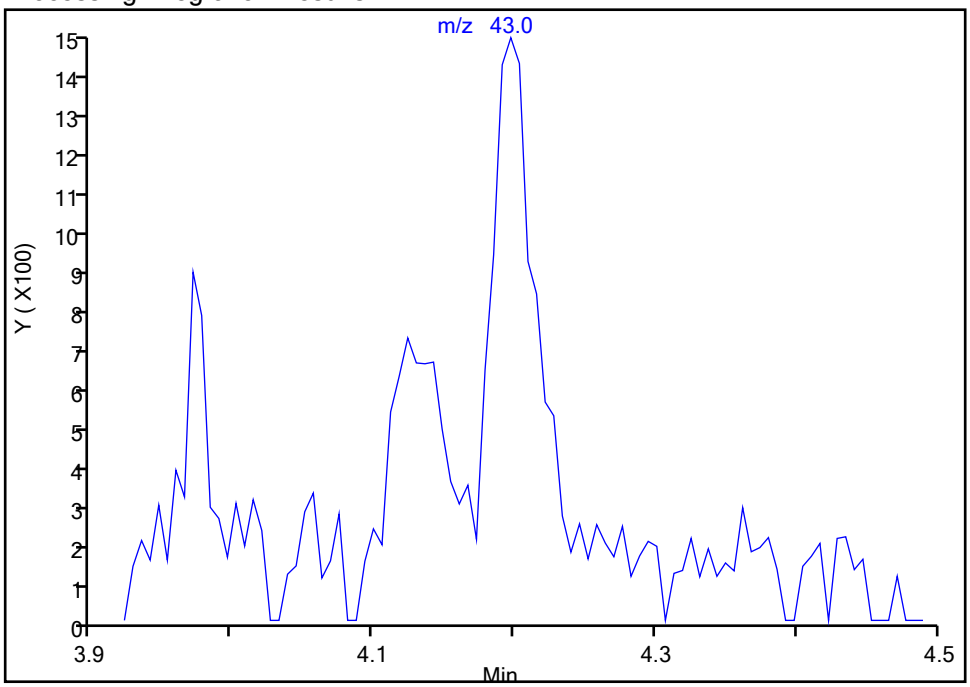
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

104 Ethyl acetate, CAS: 141-78-6

Signal: 1

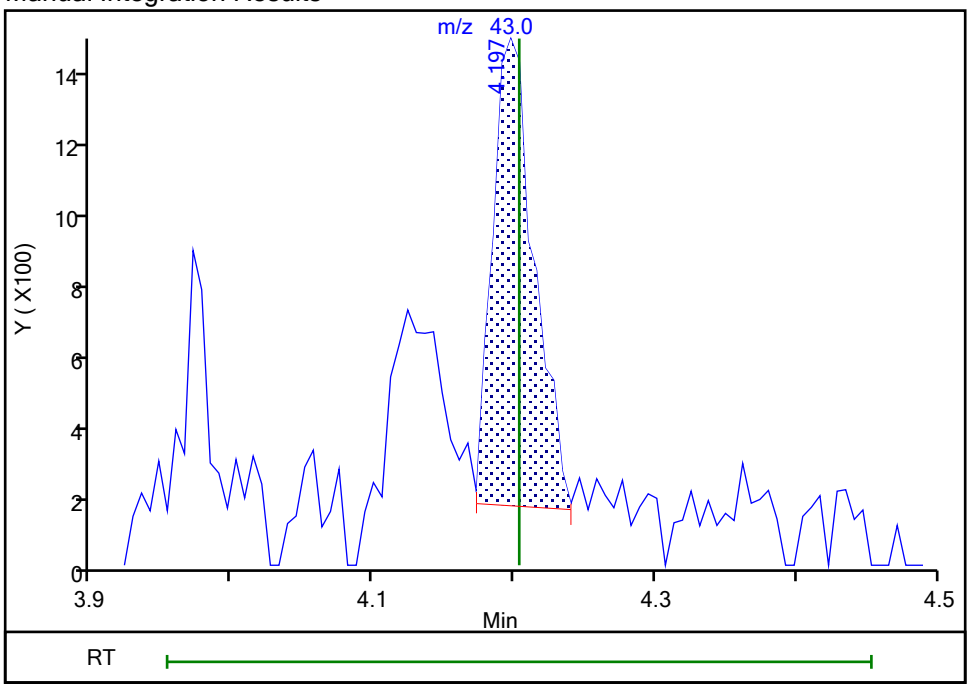
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.20
Area: 2545
Amount: 0.541815
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:37
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

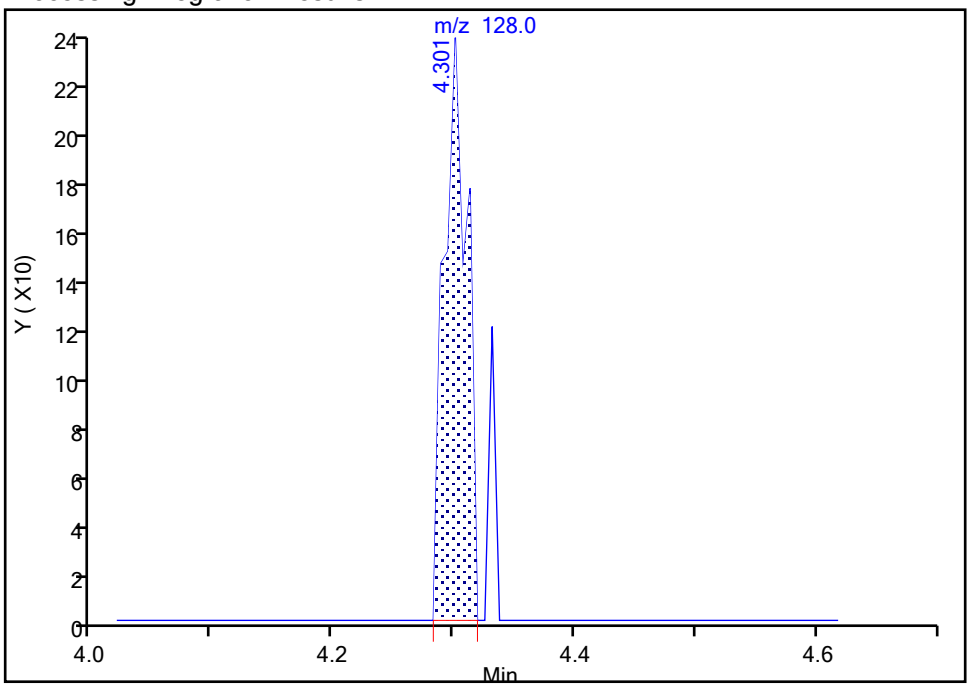
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

42 Chlorobromomethane, CAS: 74-97-5

Signal: 1

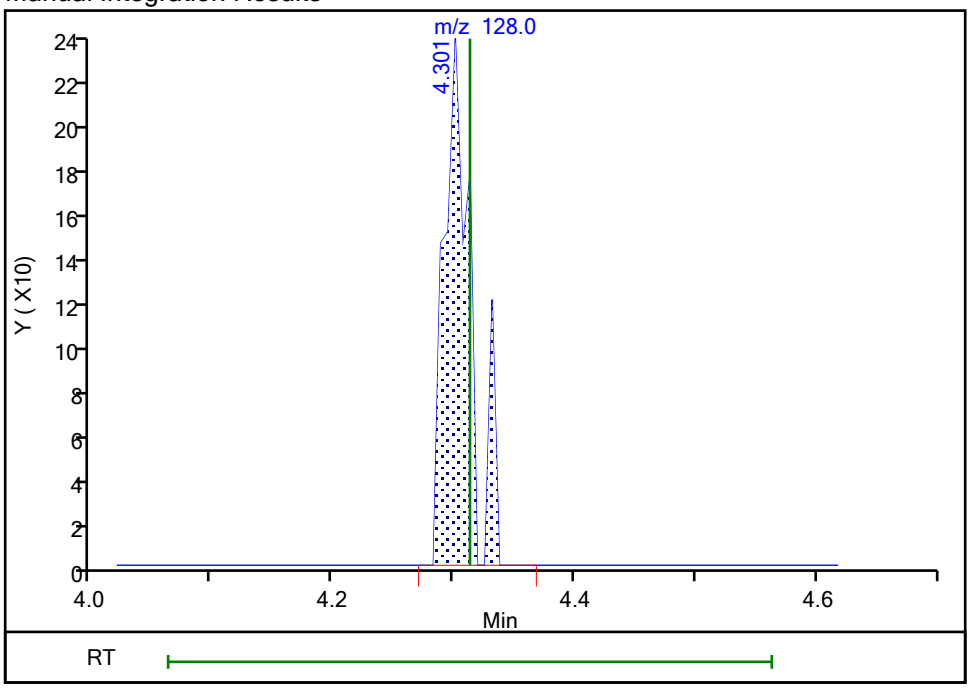
Processing Integration Results

RT: 4.30
Area: 305
Amount: 0.334909
Amount Units: ug/l



Manual Integration Results

RT: 4.30
Area: 348
Amount: 0.332697
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

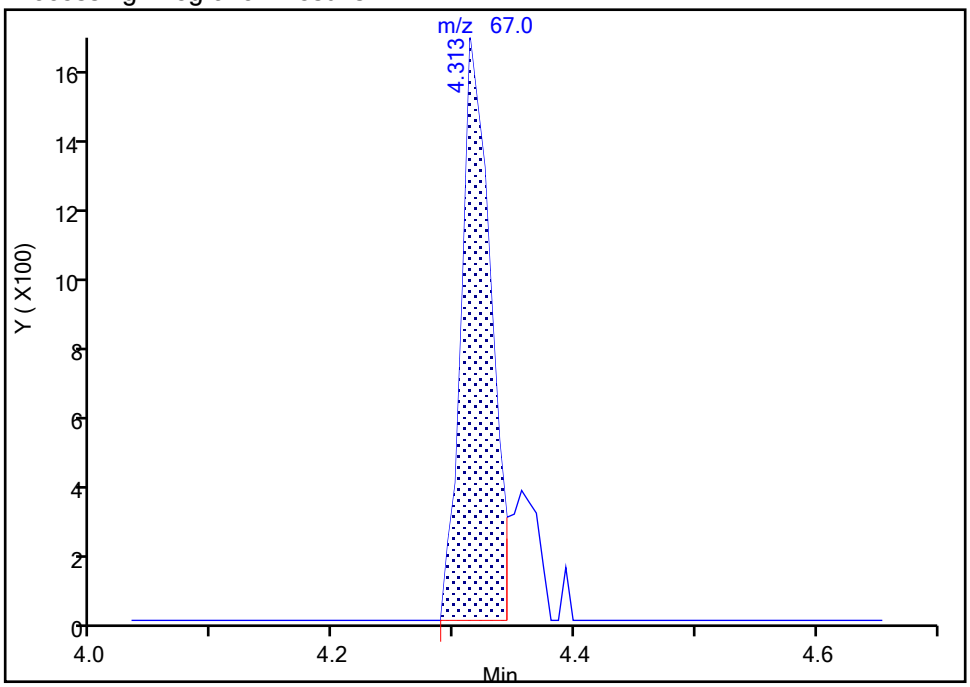
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

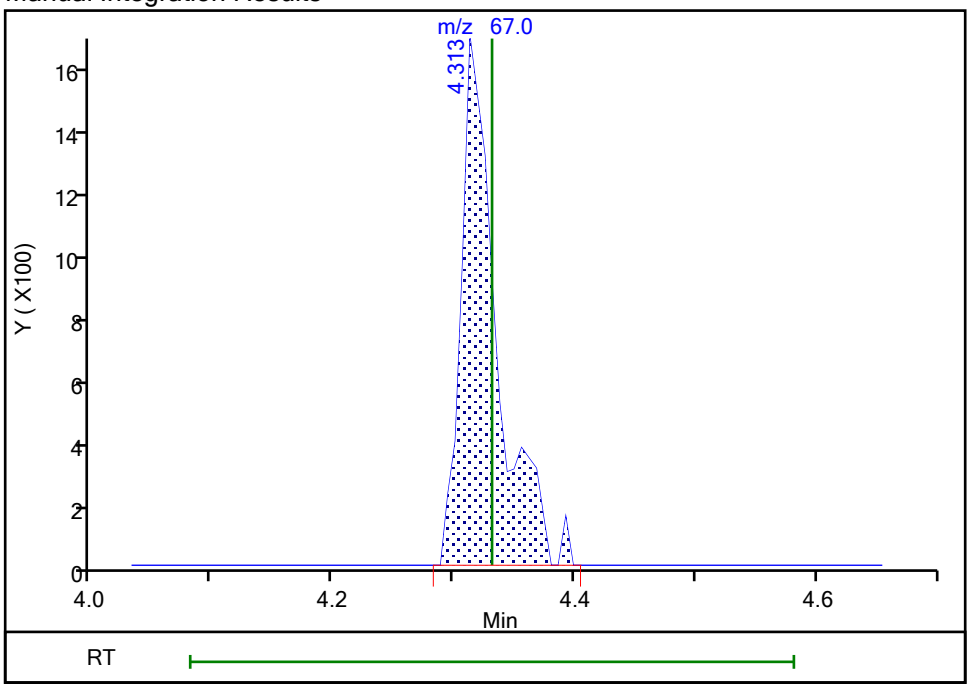
Processing Integration Results

RT: 4.31
Area: 2836
Amount: 3.100553
Amount Units: ug/l



Manual Integration Results

RT: 4.31
Area: 3431
Amount: 3.101372
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

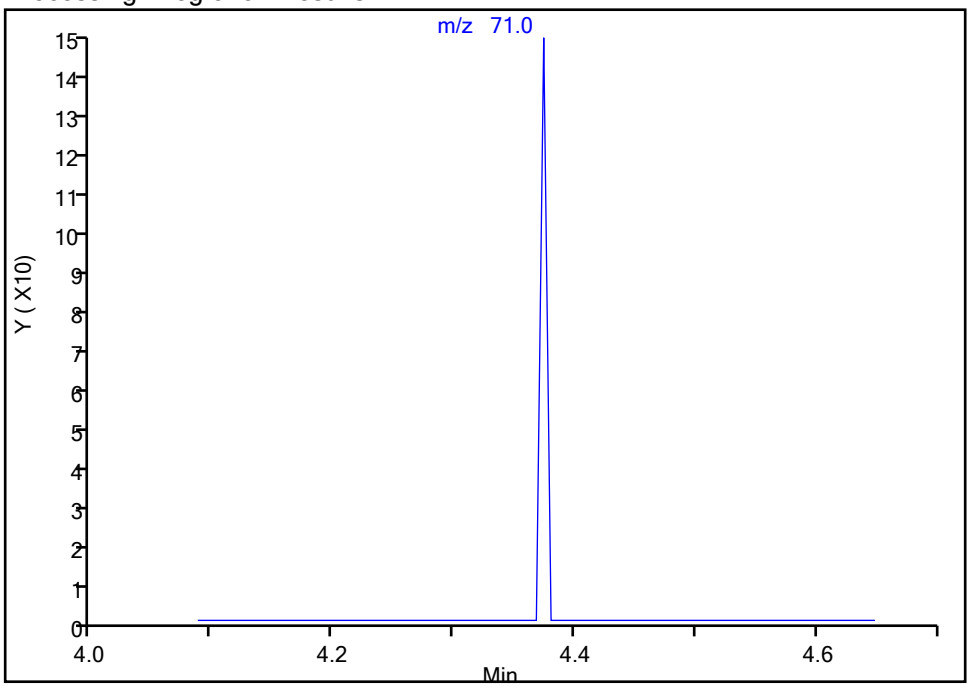
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

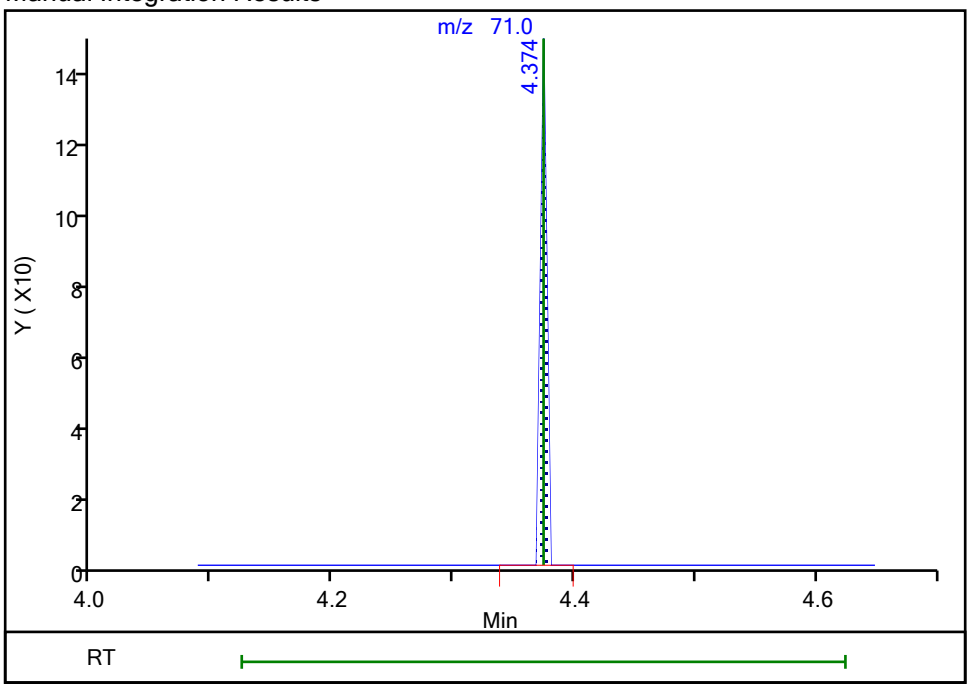
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 52
Amount: 0.193719
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:32:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

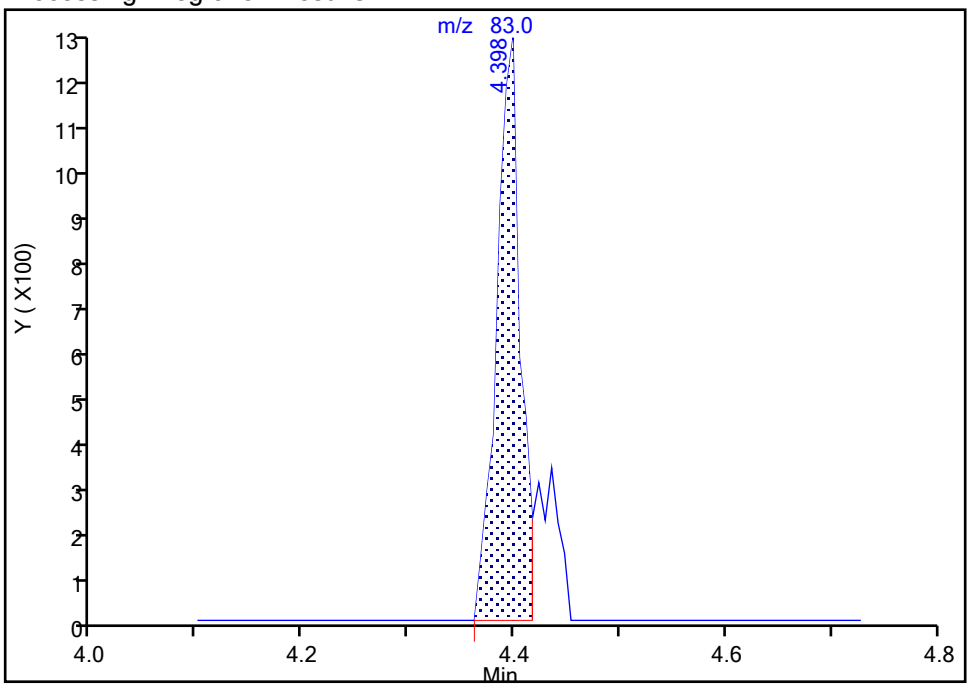
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

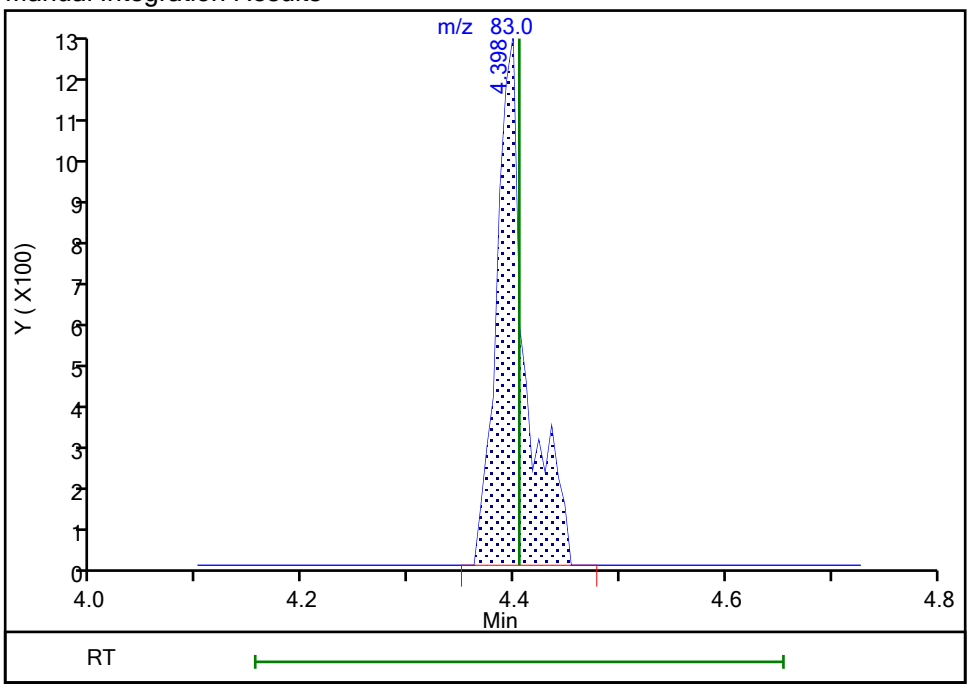
Processing Integration Results

RT: 4.40
Area: 1956
Amount: 0.603119
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 2394
Amount: 0.675014
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:33:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

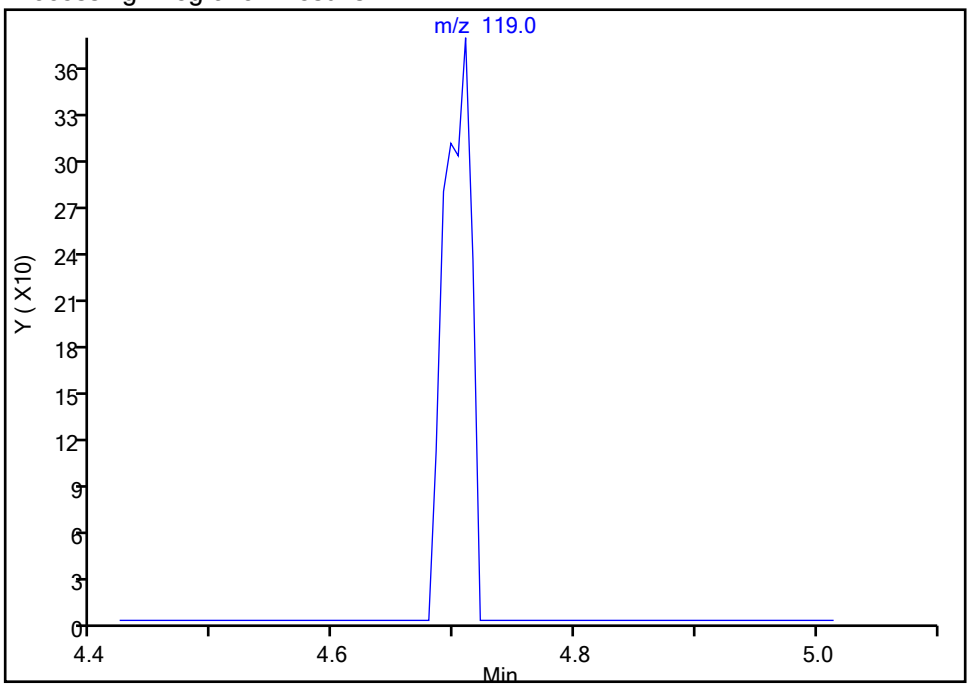
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

48 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

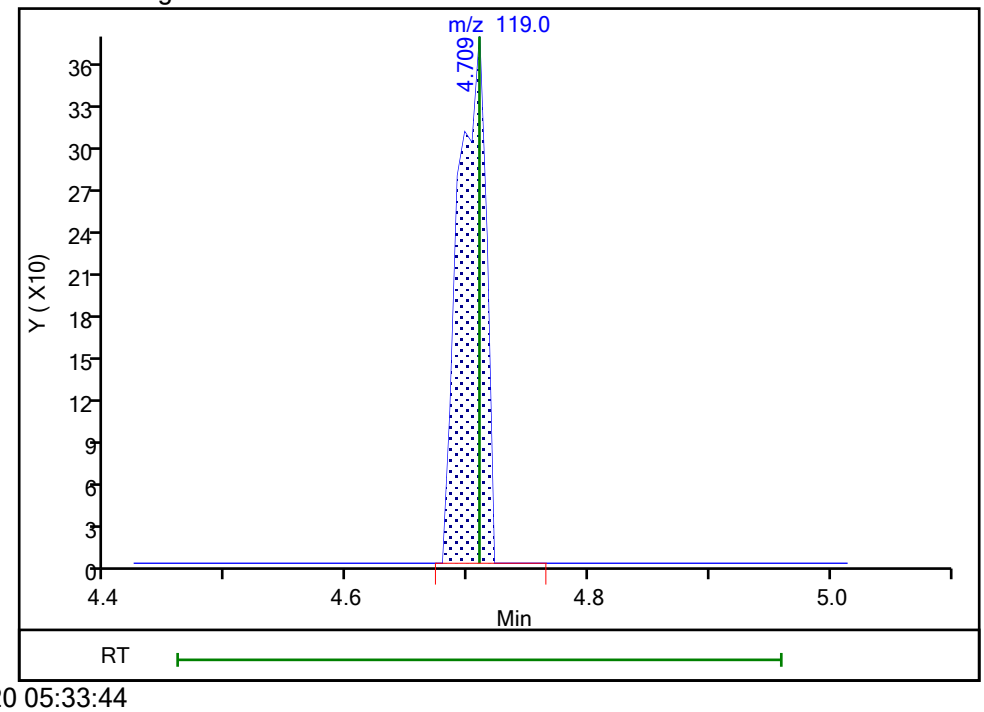
Not Detected
Expected RT: 4.71

Processing Integration Results



Manual Integration Results

RT: 4.71
Area: 585
Amount: 0.288524
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:33:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

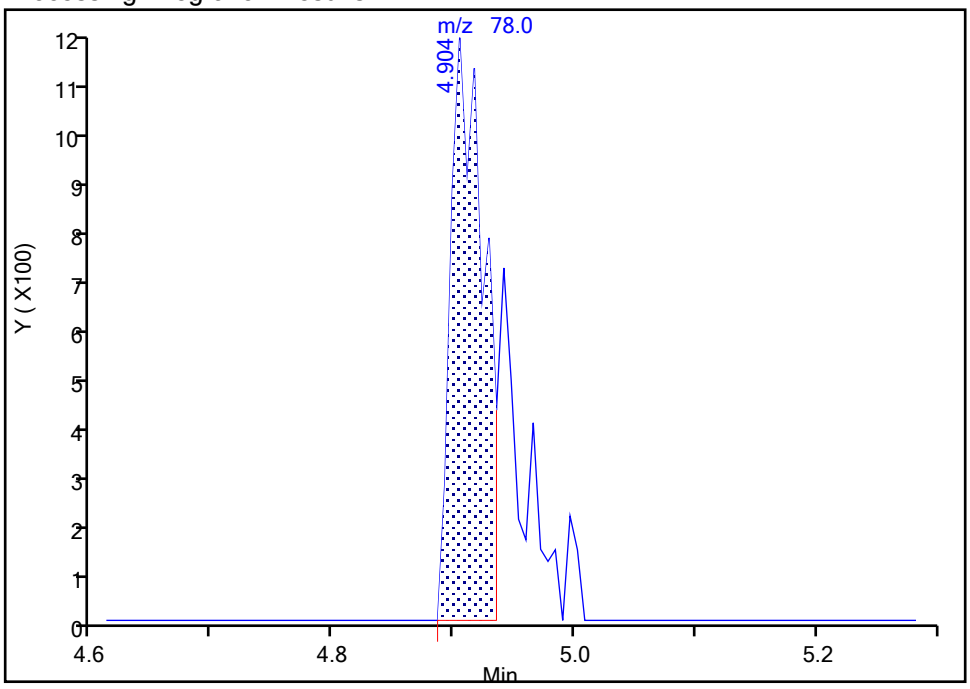
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

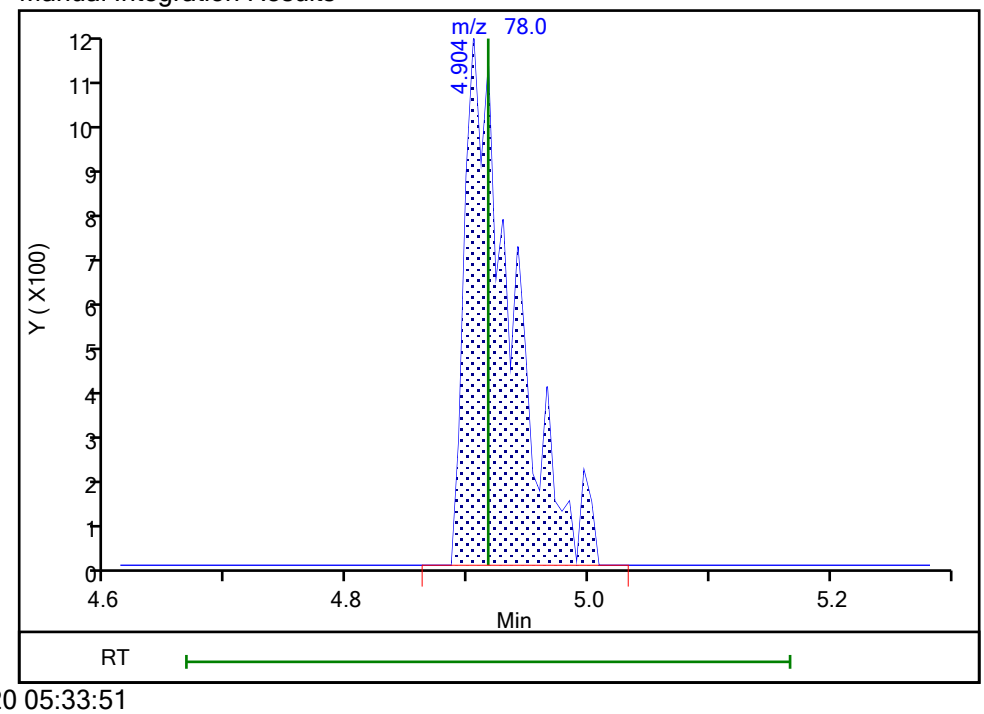
Processing Integration Results

RT: 4.90
Area: 2116
Amount: 0.349439
Amount Units: ug/l



Manual Integration Results

RT: 4.90
Area: 3051
Amount: 0.378235
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:33:51
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

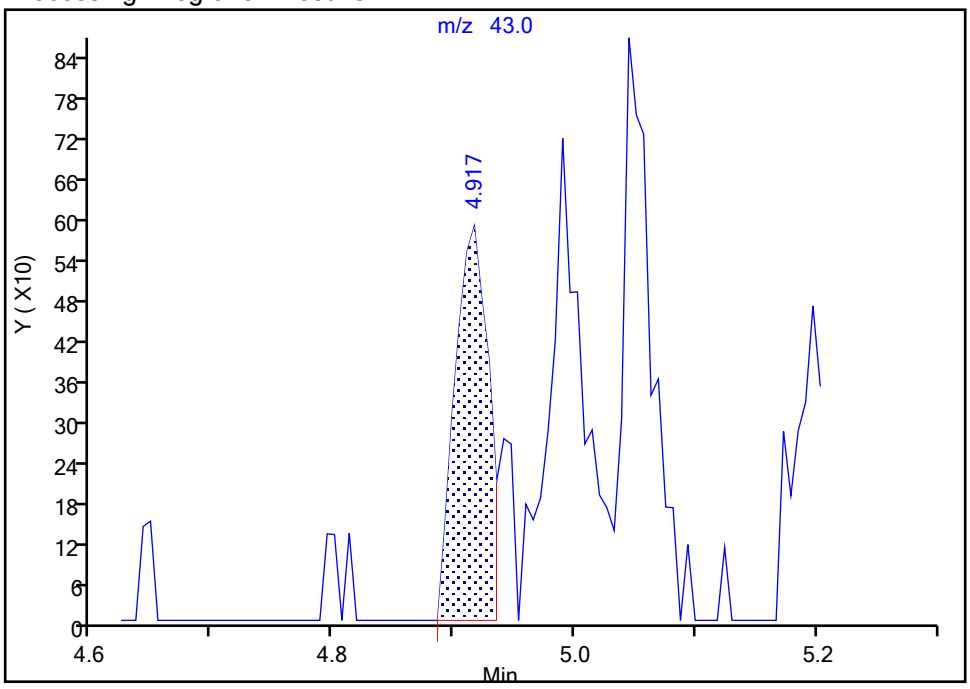
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

108 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

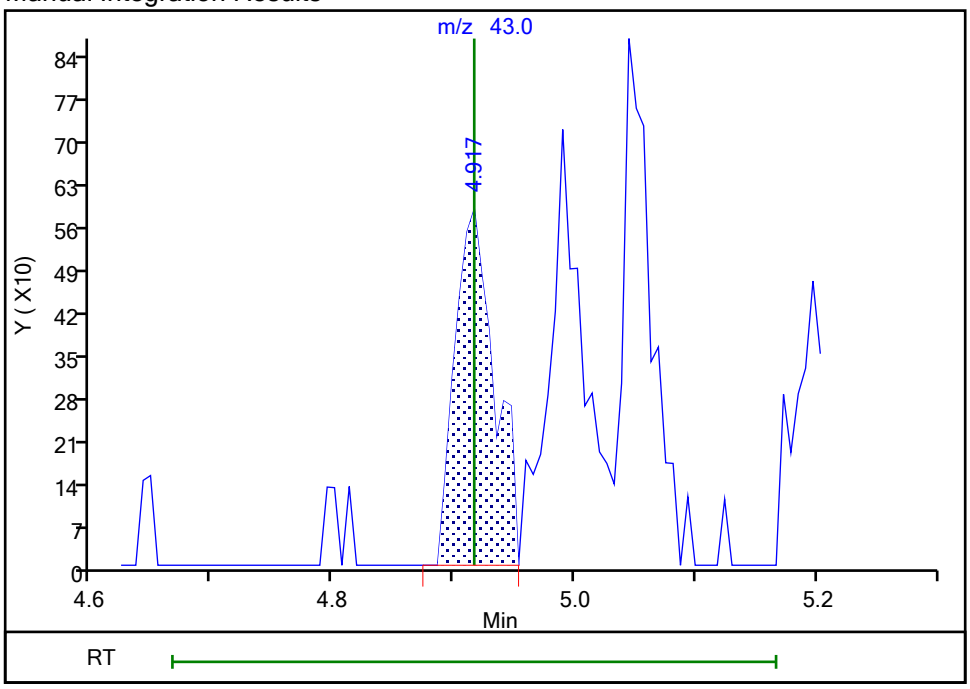
Processing Integration Results

RT: 4.92
Area: 1139
Amount: 7.052089
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 1334
Amount: 7.385197
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:33:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

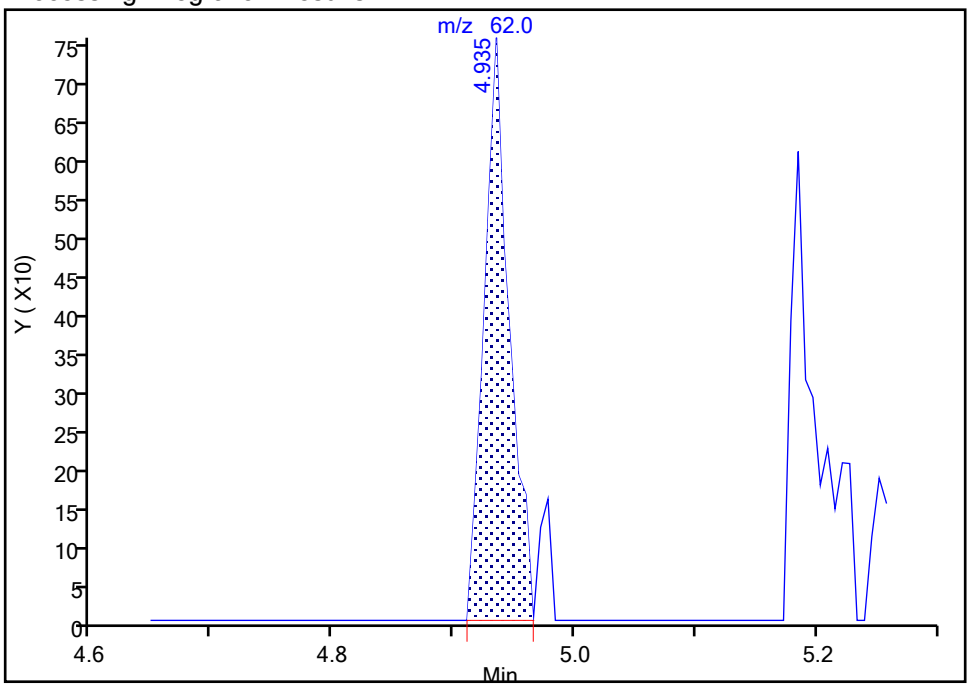
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

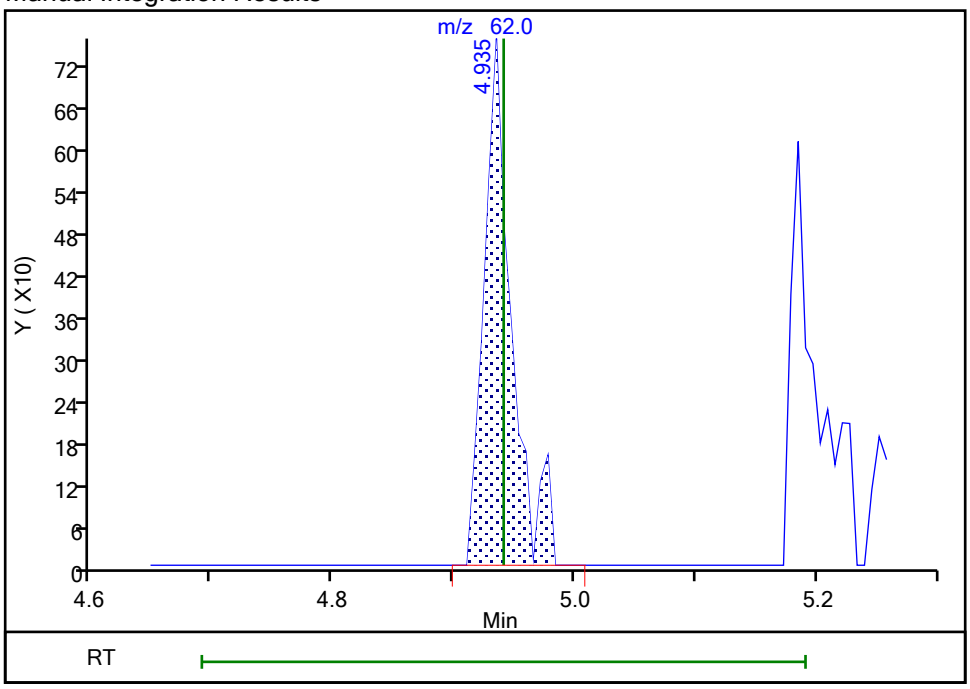
Processing Integration Results

RT: 4.93
Area: 1090
Amount: 0.344857
Amount Units: ug/l



Manual Integration Results

RT: 4.93
Area: 1192
Amount: 0.376428
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:34:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

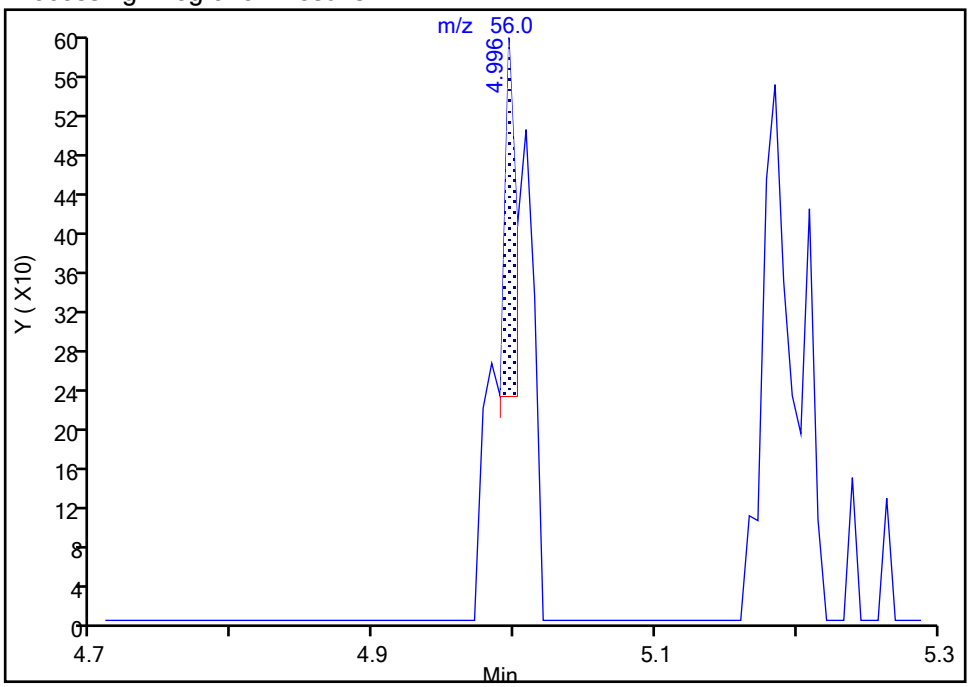
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

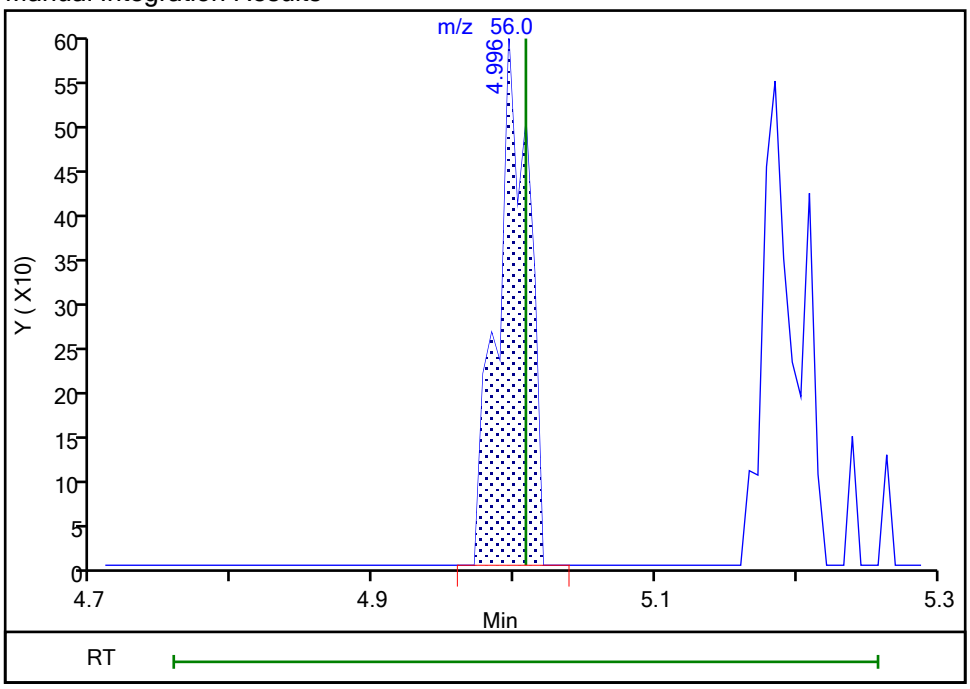
Processing Integration Results

RT: 5.00
Area: 198
Amount: 21.174202
Amount Units: ug/l



Manual Integration Results

RT: 5.00
Area: 929
Amount: 6.002857
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:34:08
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

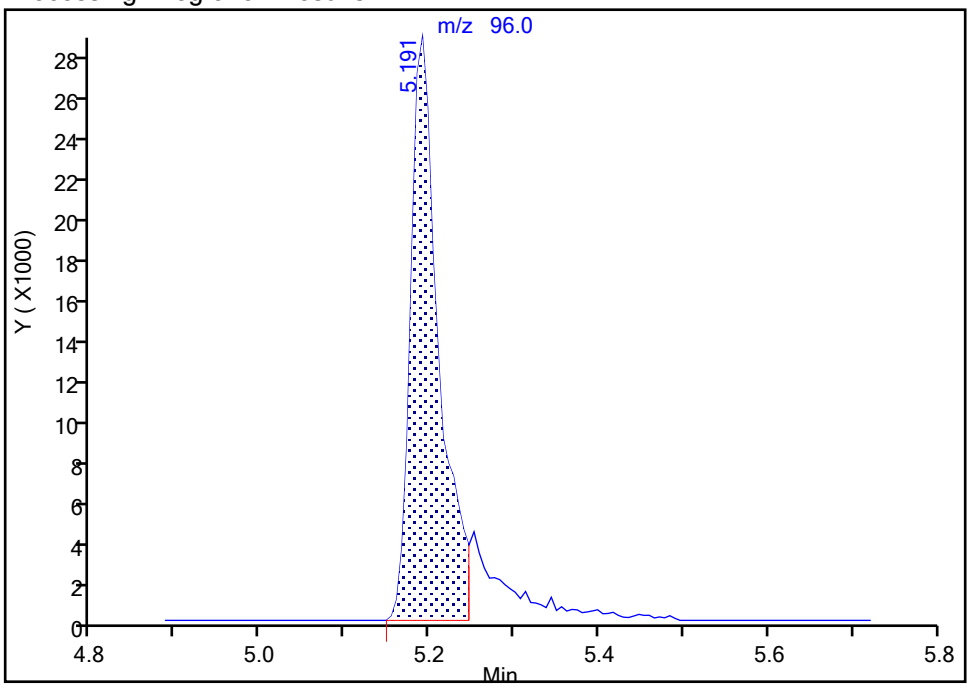
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

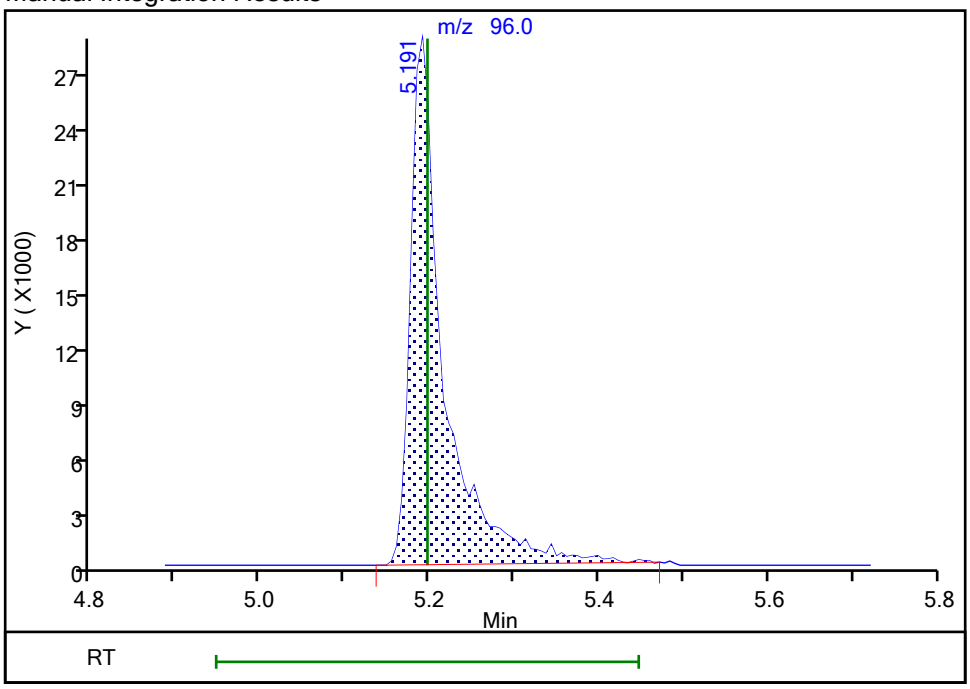
Processing Integration Results

RT: 5.19
Area: 66649
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 77810
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:28:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

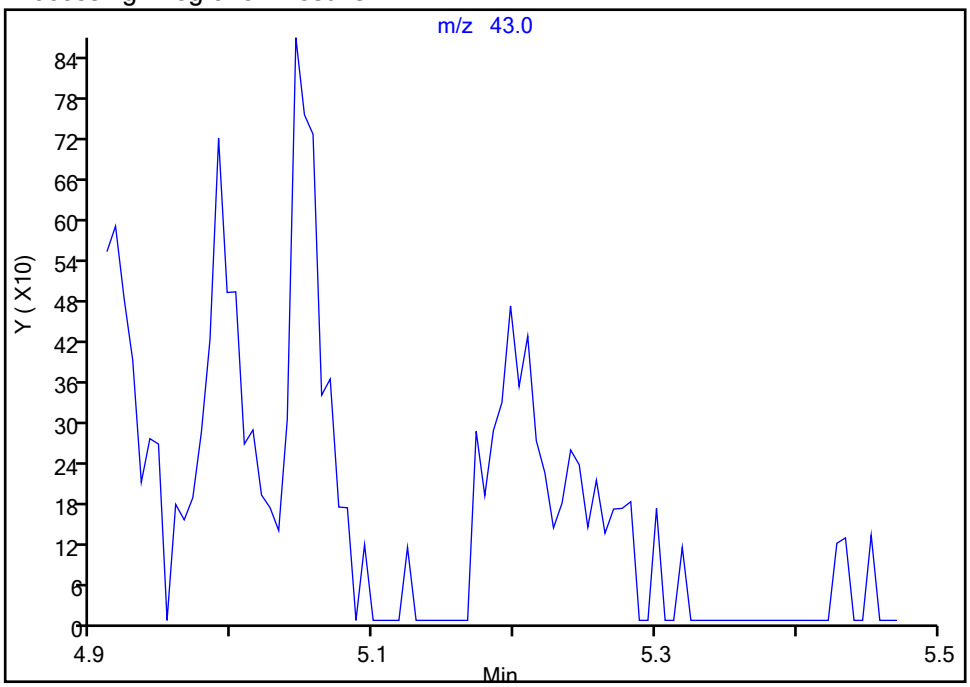
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

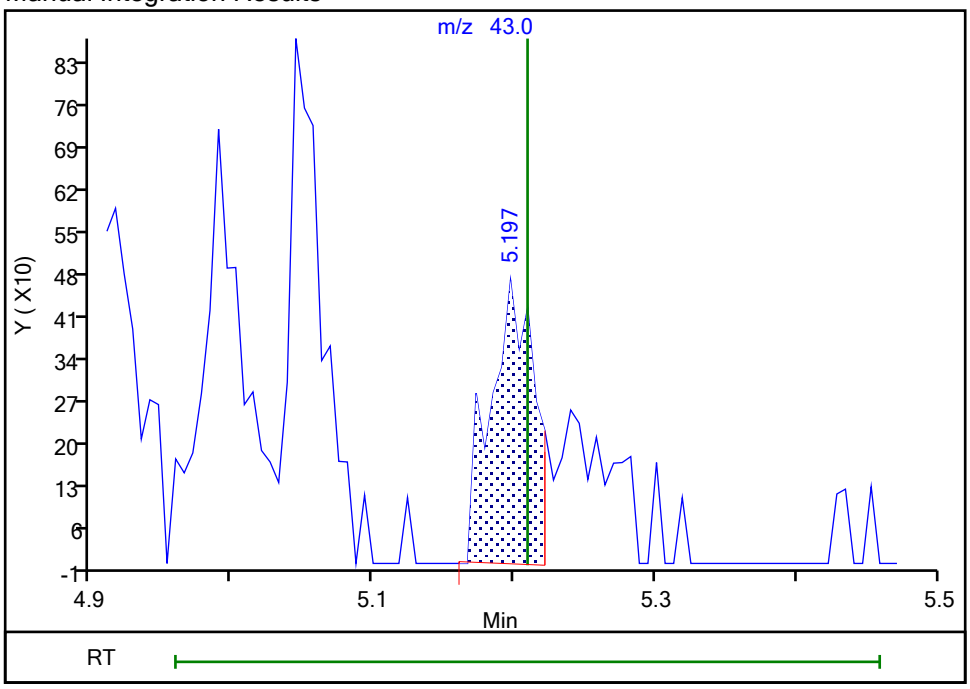
Not Detected
Expected RT: 5.21

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 1026
Amount: 2.015012
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:34:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

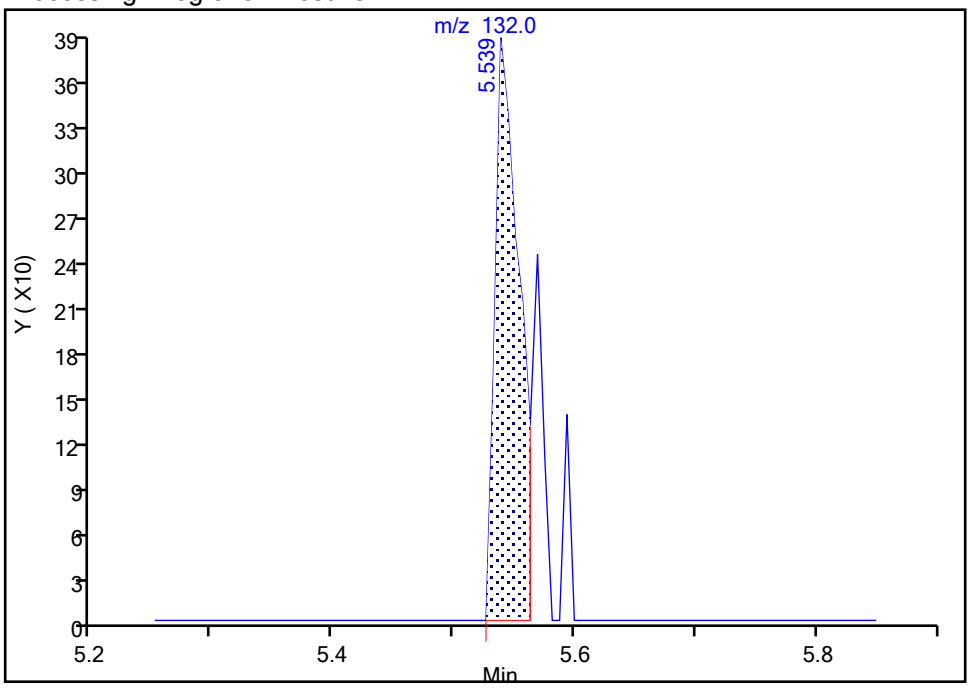
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

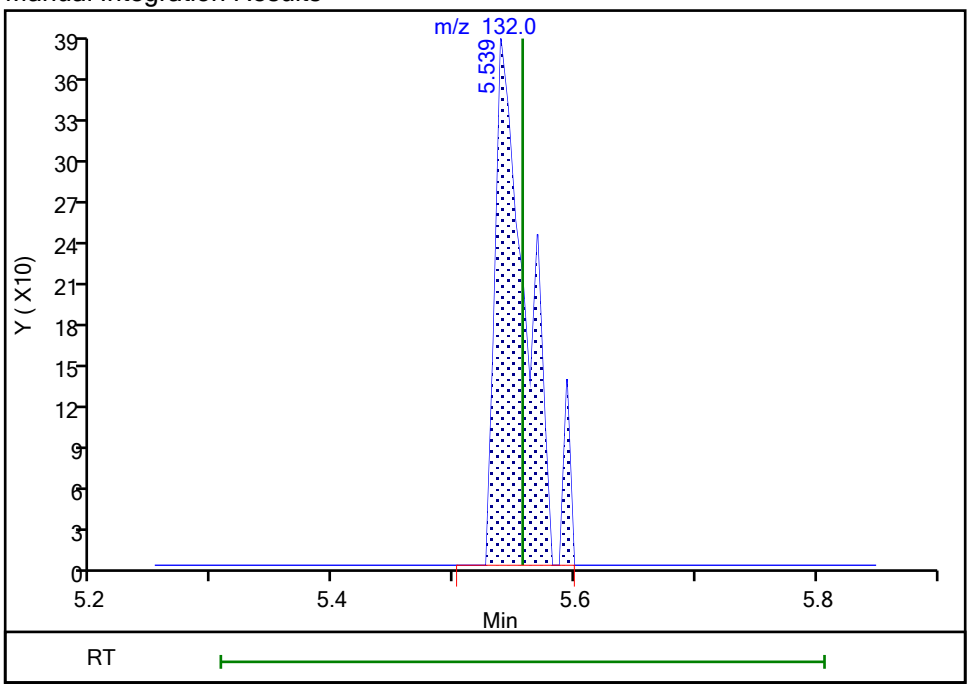
Processing Integration Results

RT: 5.54
Area: 535
Amount: 0.300336
Amount Units: ug/l



Manual Integration Results

RT: 5.54
Area: 710
Amount: 0.294707
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:34:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

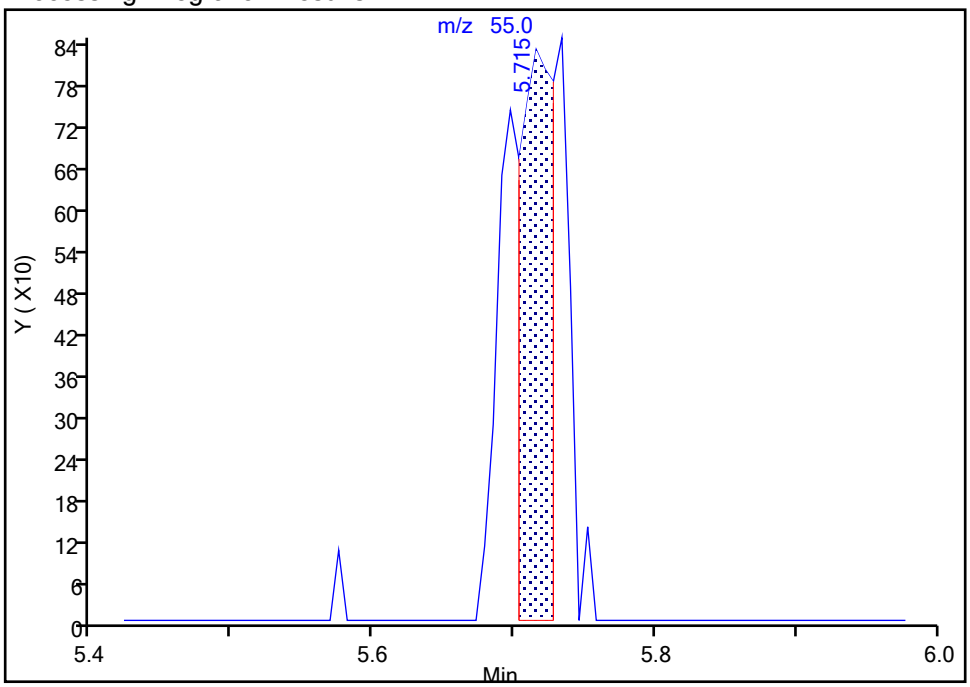
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

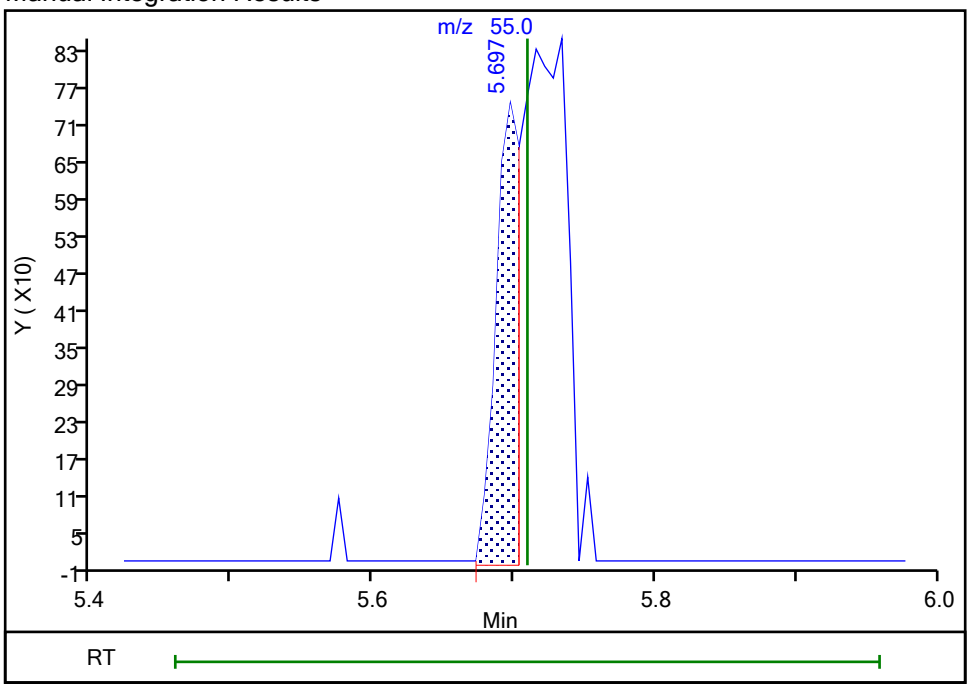
Processing Integration Results

RT: 5.72
Area: 1405
Amount: 0.309876
Amount Units: ug/l



Manual Integration Results

RT: 5.70
Area: 913
Amount: 0.287713
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:46:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

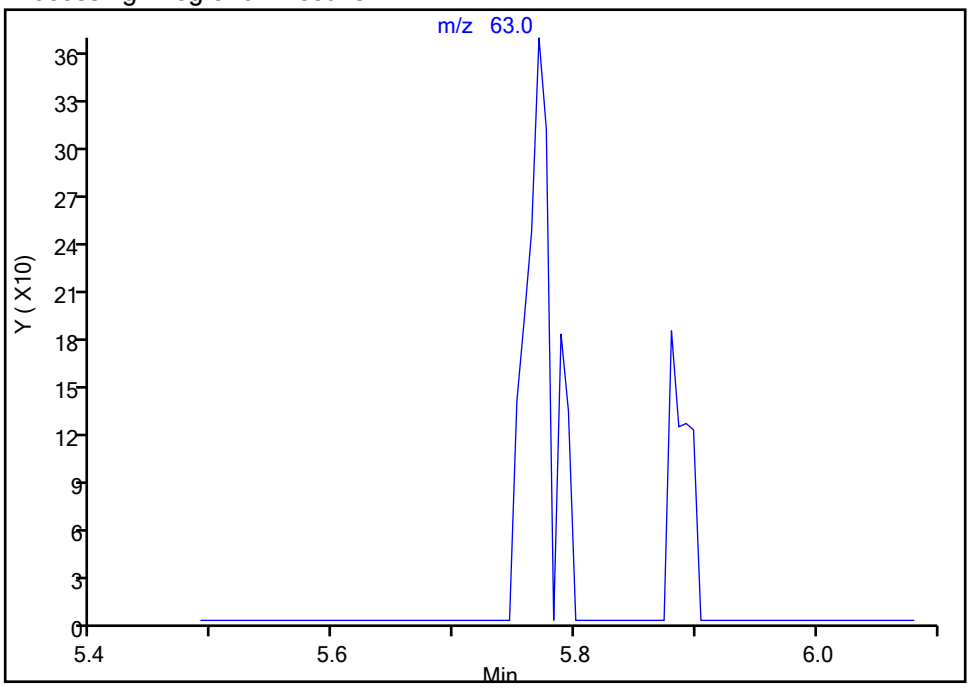
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

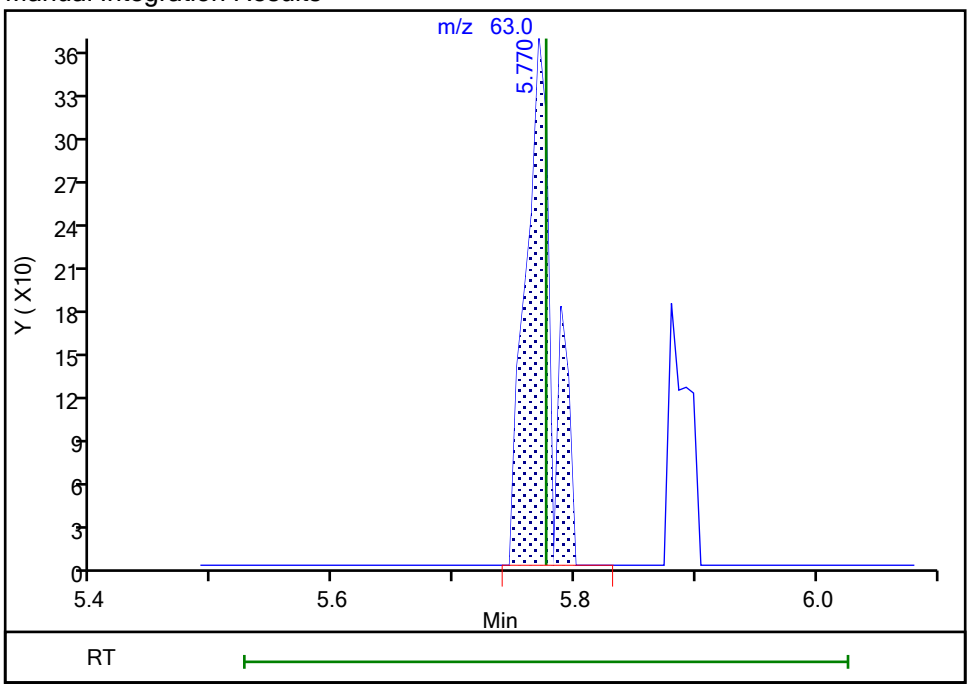
Not Detected
Expected RT: 5.78

Processing Integration Results



Manual Integration Results

RT: 5.77
Area: 567
Amount: 0.235335
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:34:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

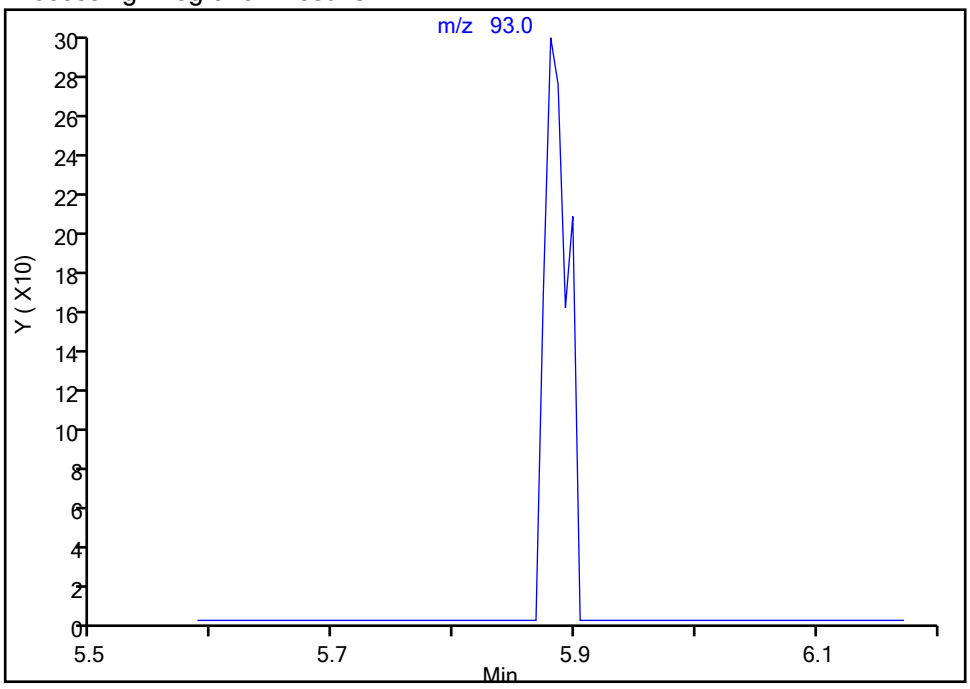
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

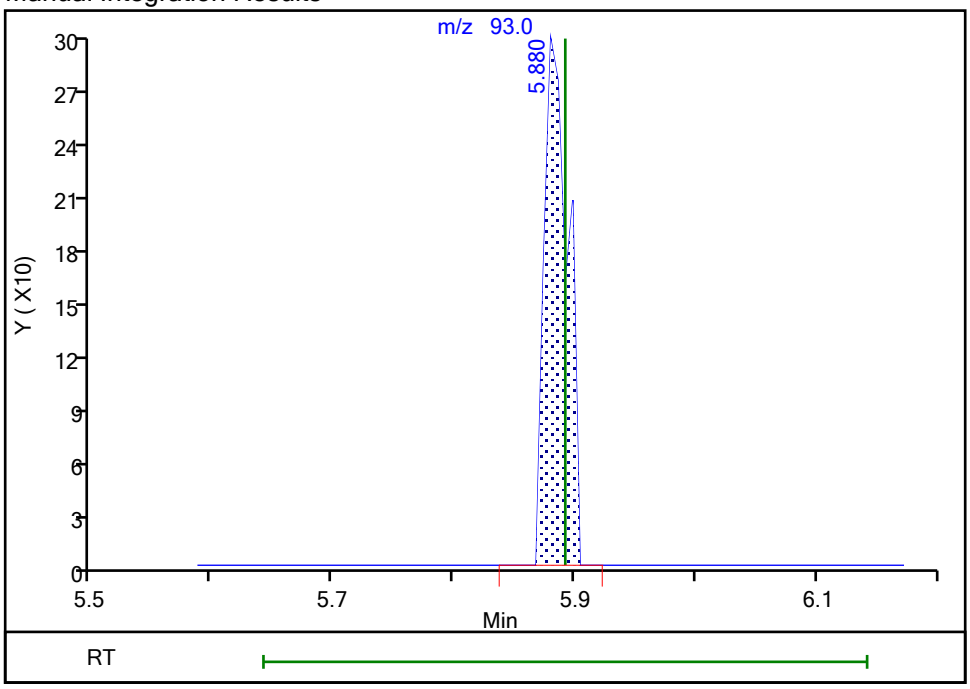
Not Detected
Expected RT: 5.89

Processing Integration Results



Manual Integration Results

RT: 5.88
Area: 407
Amount: 0.404557
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

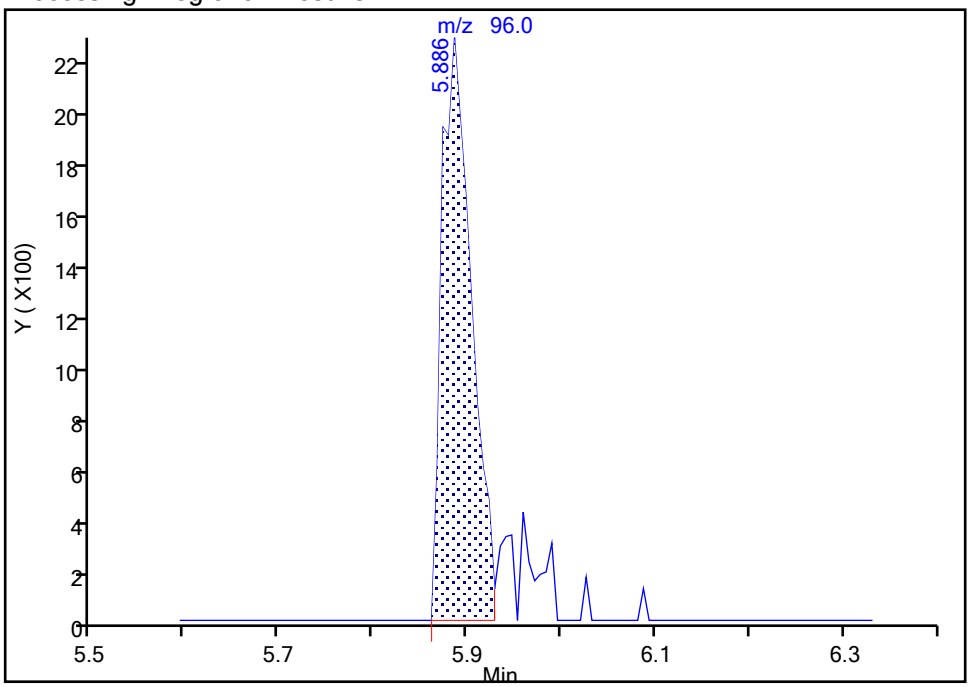
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

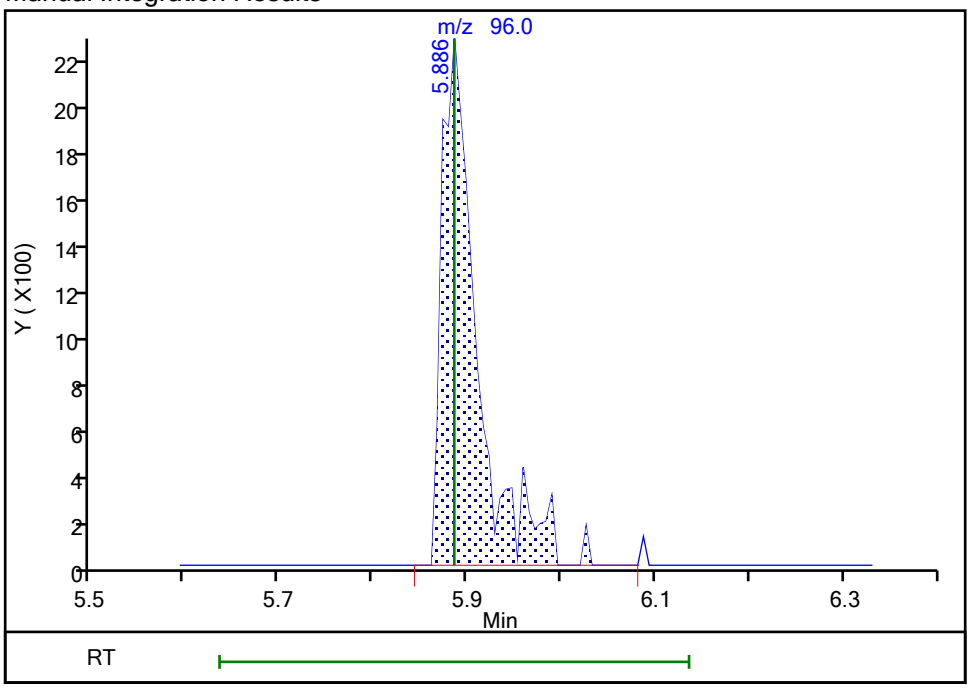
Processing Integration Results

RT: 5.89
Area: 4921
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5860
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:28:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

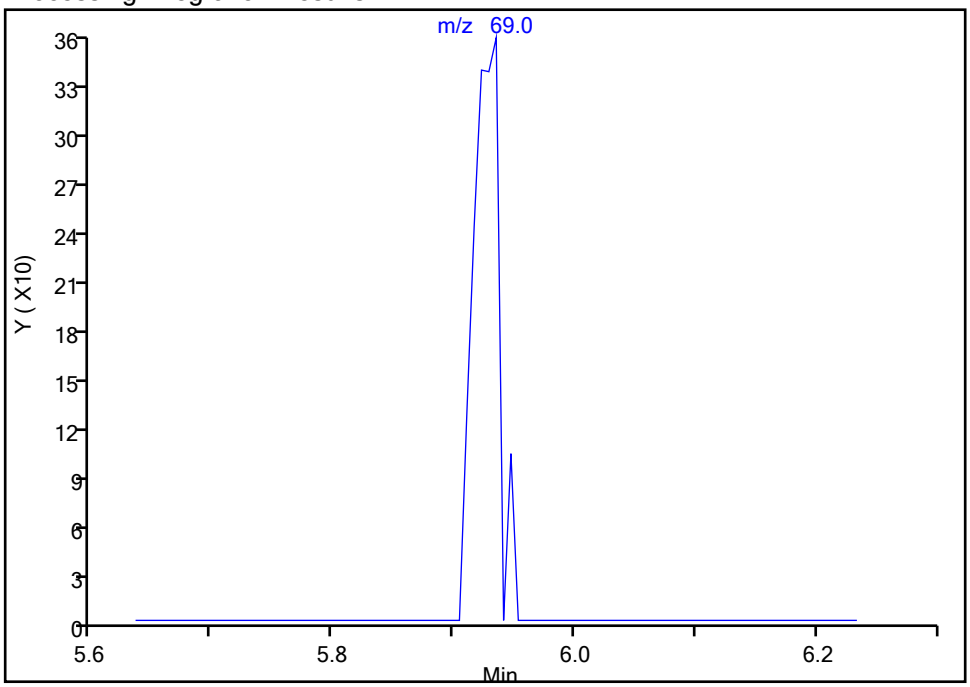
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

57 Methyl methacrylate, CAS: 80-62-6

Signal: 1

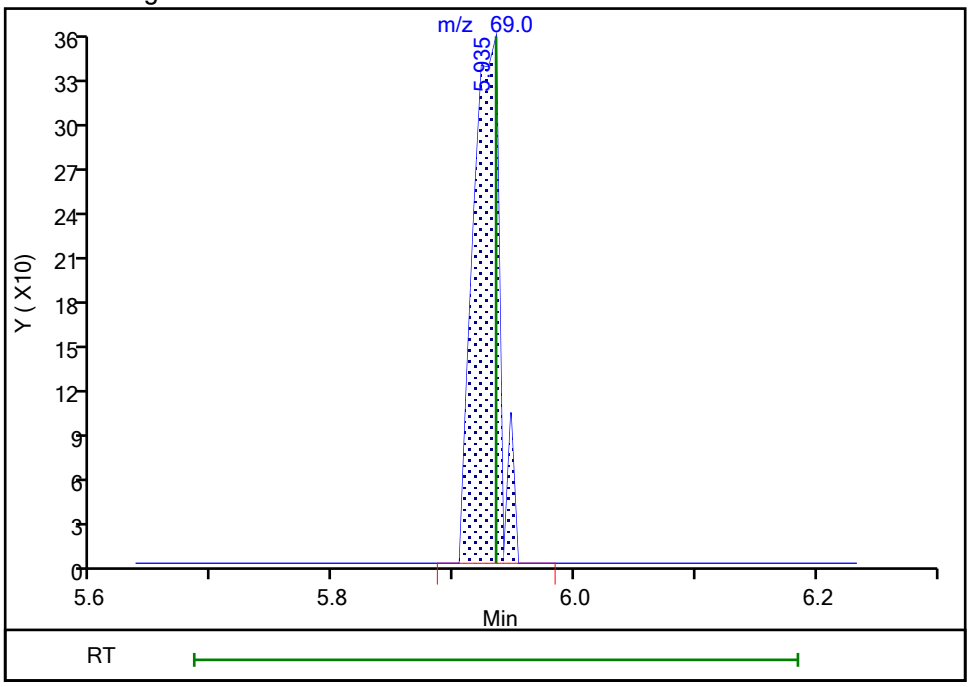
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 553
Amount: 0.390311
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

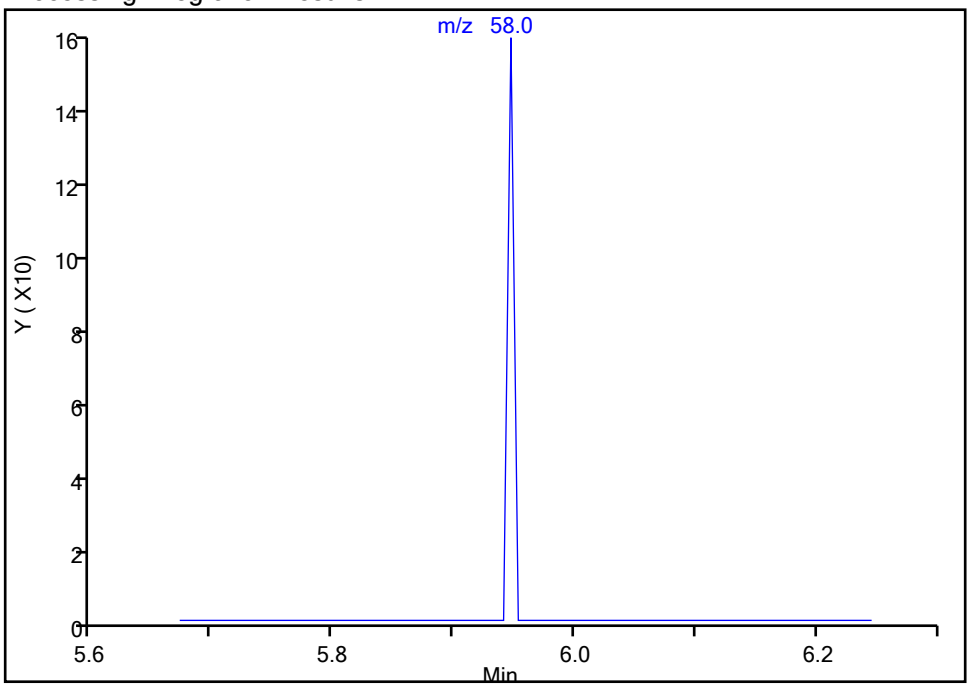
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

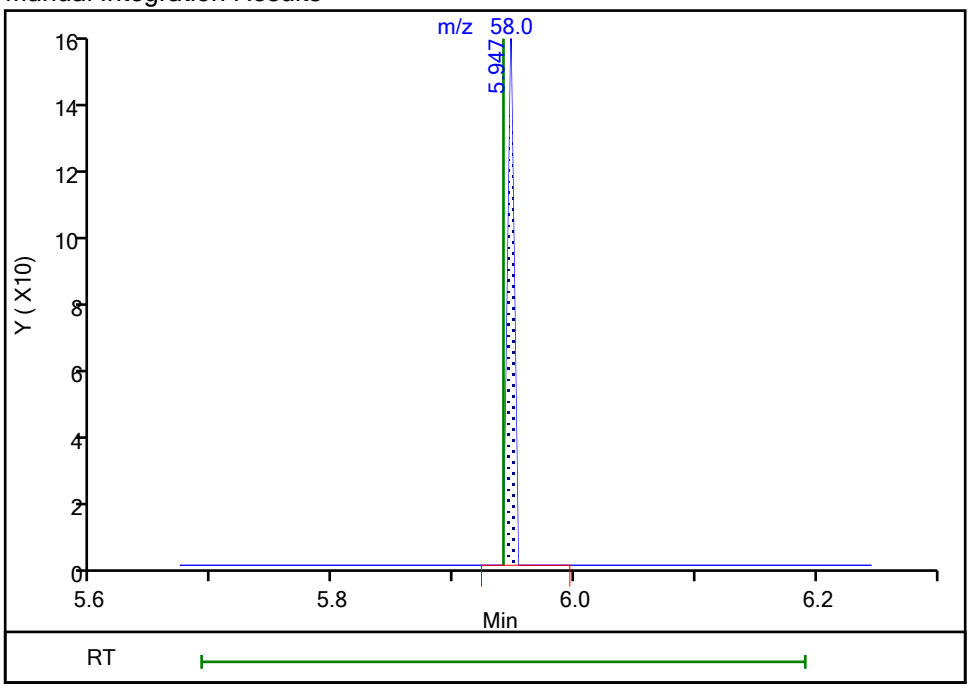
Not Detected
Expected RT: 5.94

Processing Integration Results



Manual Integration Results

RT: 5.95
Area: 57
Amount: 1.790049
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

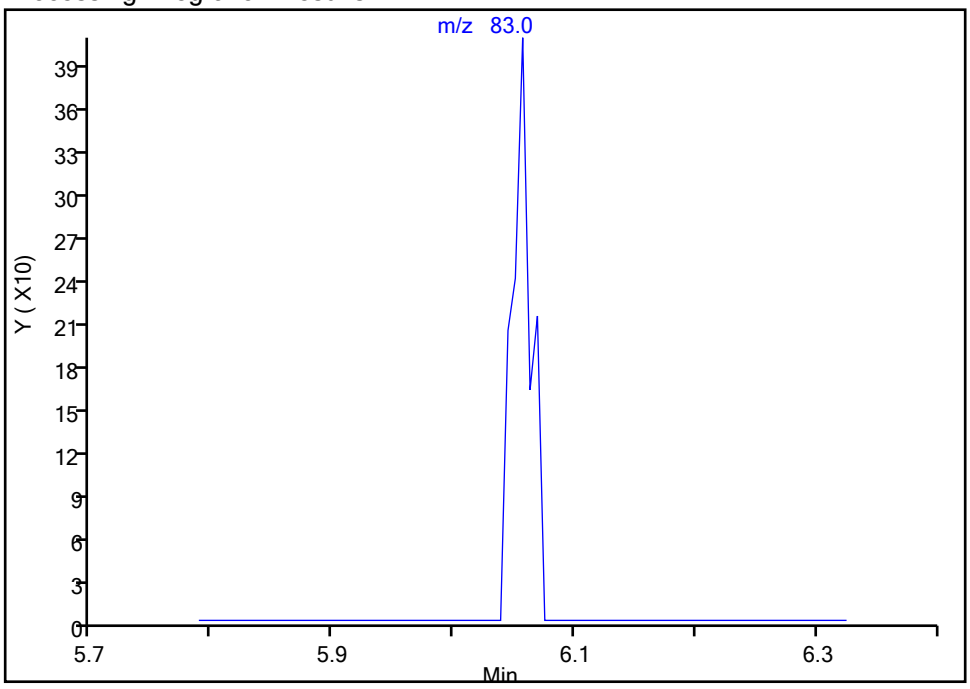
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

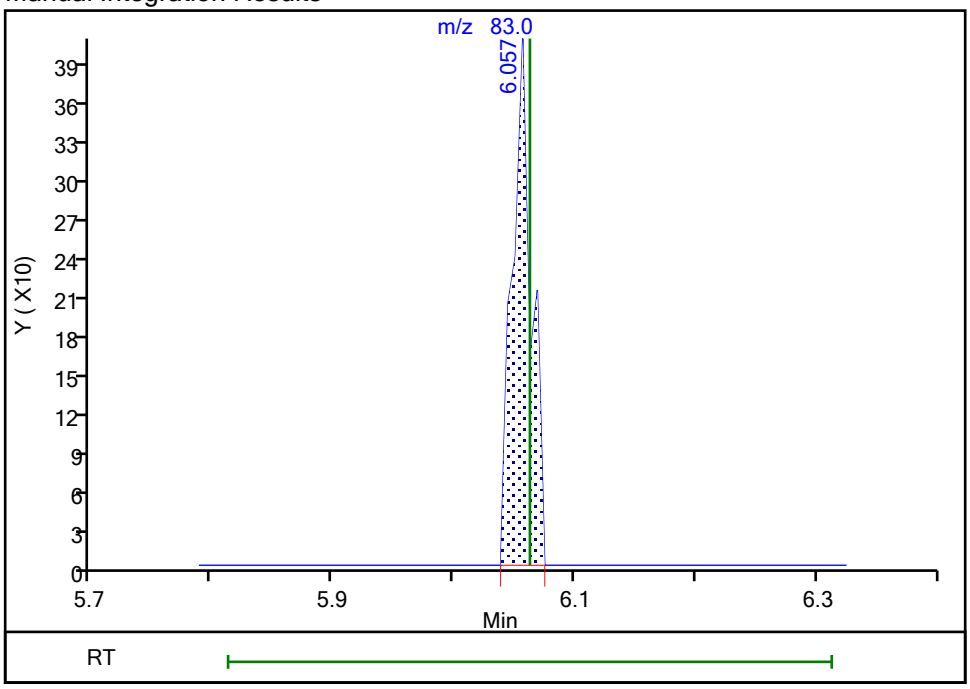
Not Detected
Expected RT: 6.06

Processing Integration Results



Manual Integration Results

RT: 6.06
Area: 442
Amount: 0.282705
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:15
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

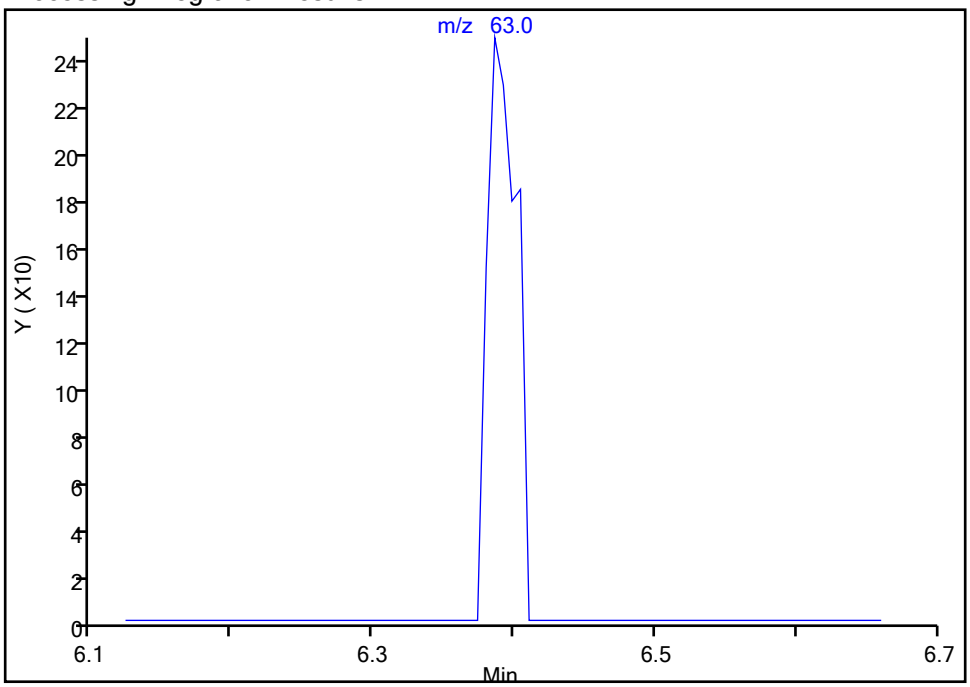
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

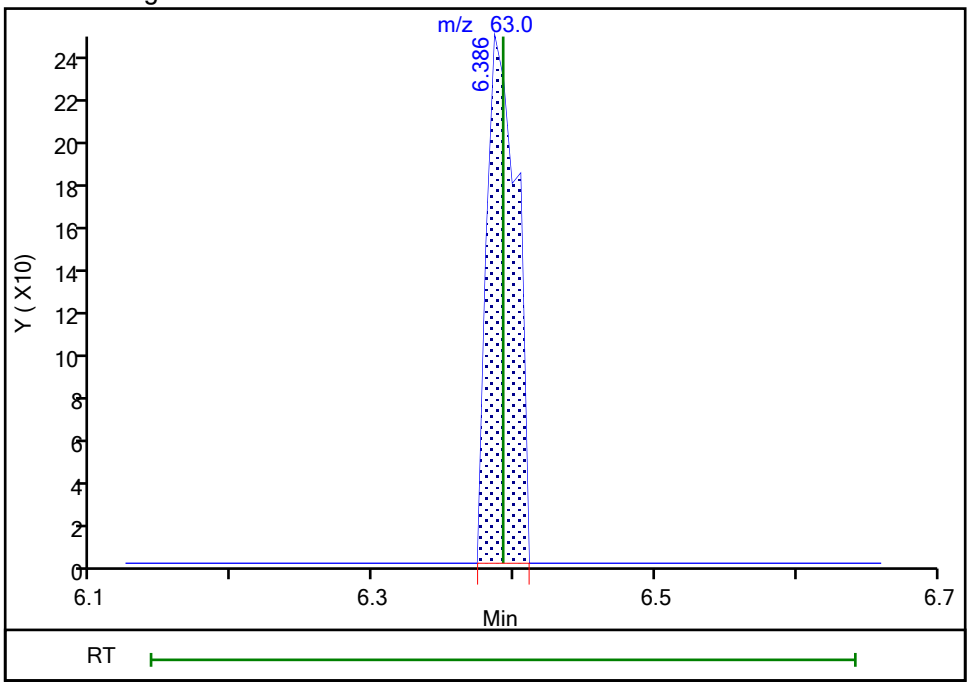
Not Detected
Expected RT: 6.39

Processing Integration Results



Manual Integration Results

RT: 6.39
Area: 359
Amount: 0.237464
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:23
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

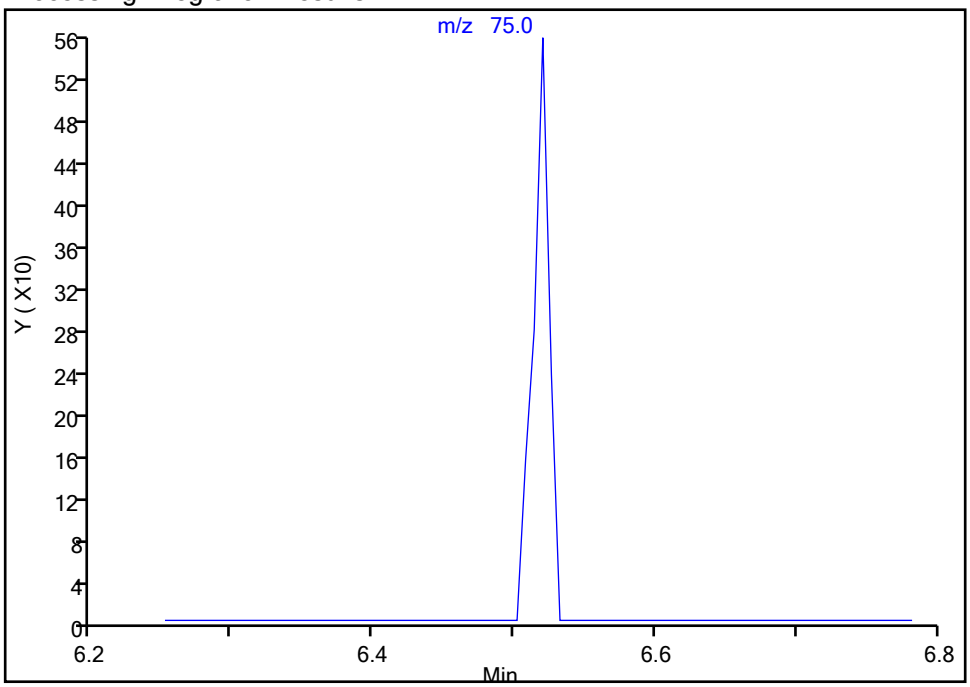
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

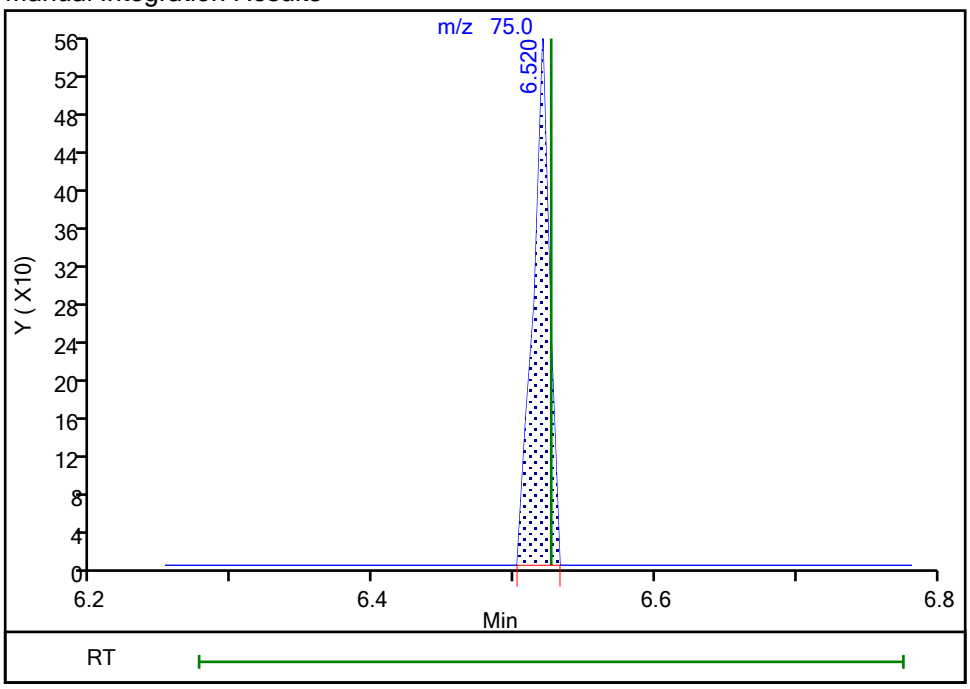
Not Detected
Expected RT: 6.53

Processing Integration Results



Manual Integration Results

RT: 6.52
Area: 447
Amount: 0.320297
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:31
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

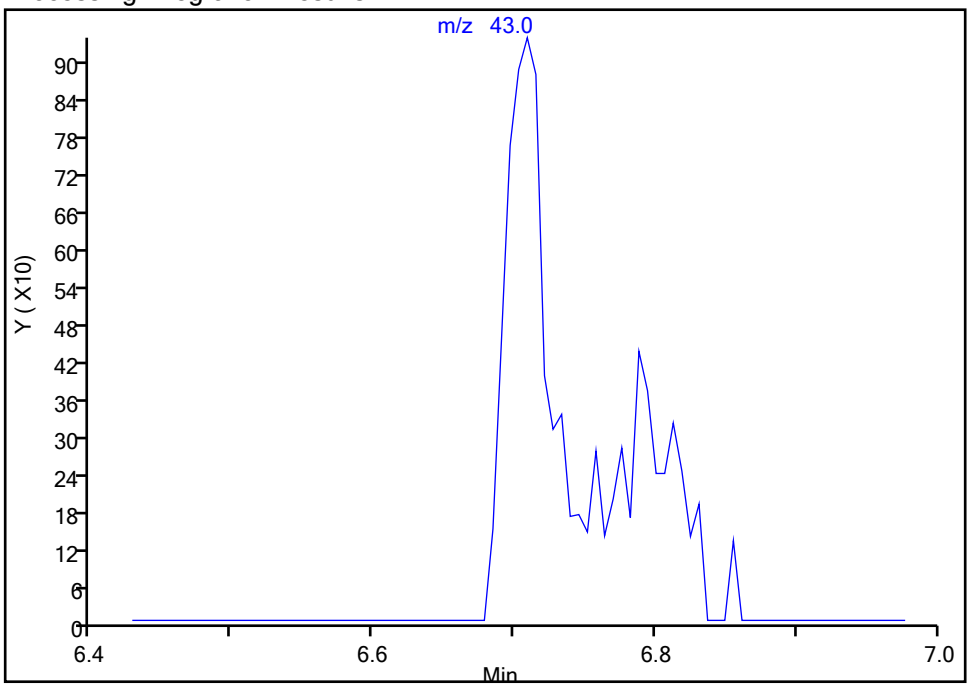
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

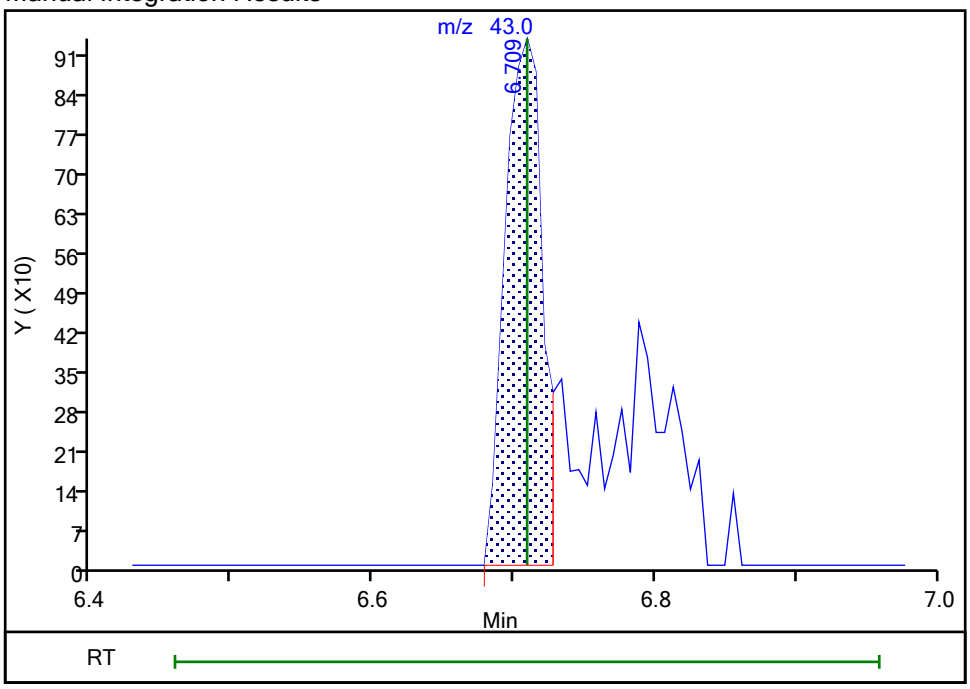
Not Detected
Expected RT: 6.71

Processing Integration Results



Manual Integration Results

RT: 6.71
Area: 1741
Amount: 0.423405
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:36
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

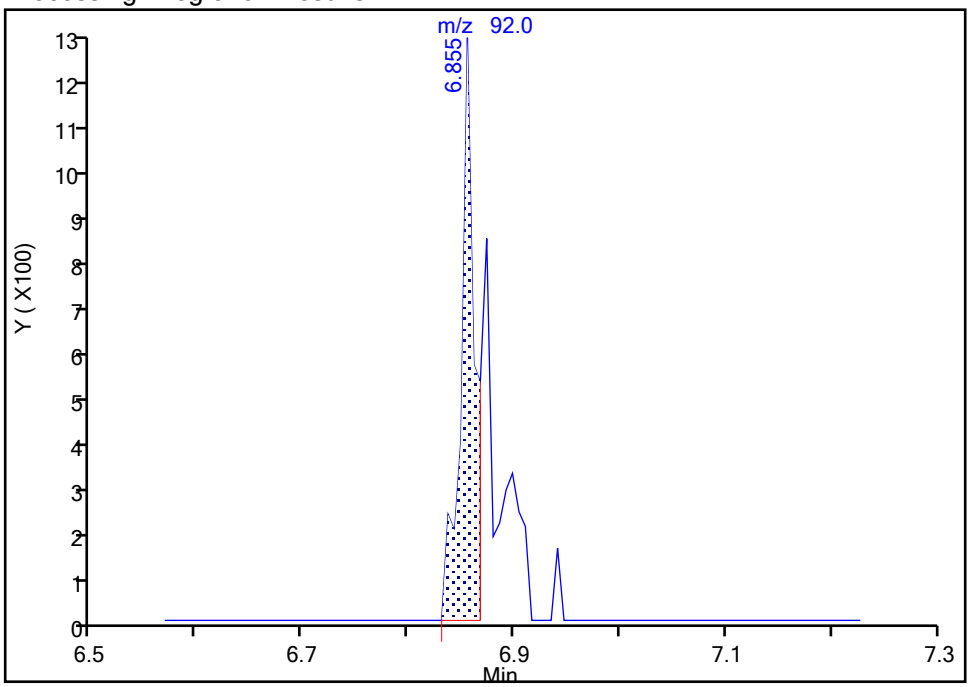
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 1

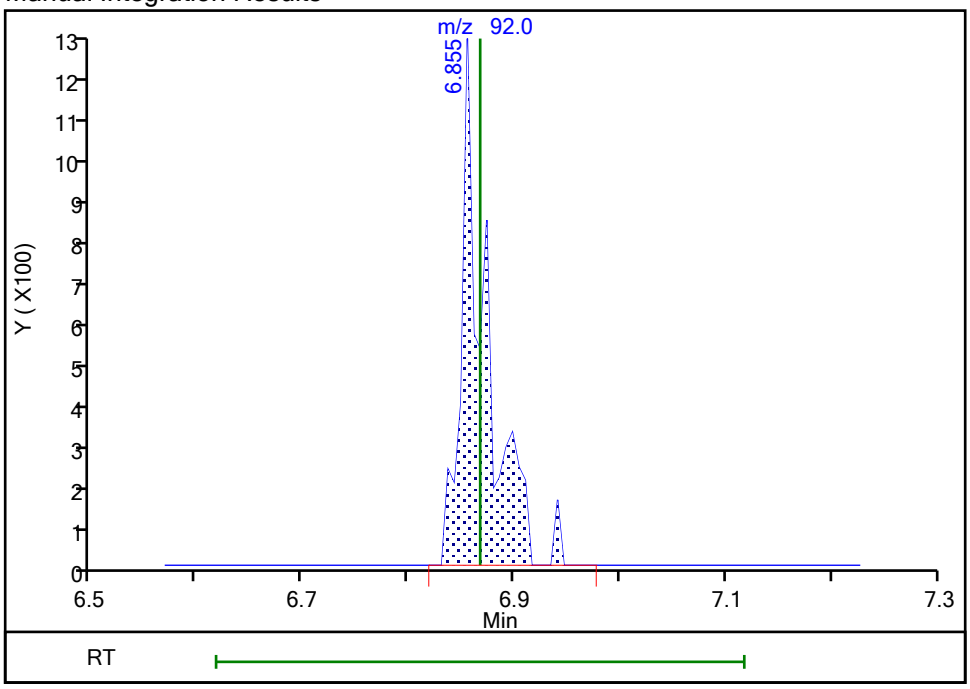
Processing Integration Results

RT: 6.86
Area: 1109
Amount: 0.269237
Amount Units: ug/l



Manual Integration Results

RT: 6.86
Area: 1961
Amount: 0.382573
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

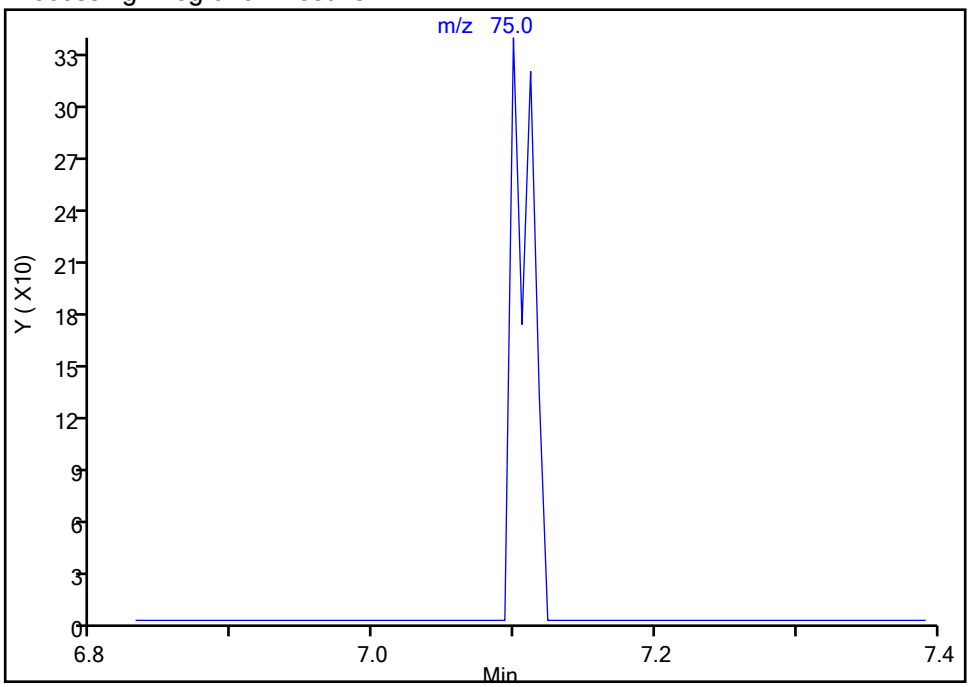
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

63 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

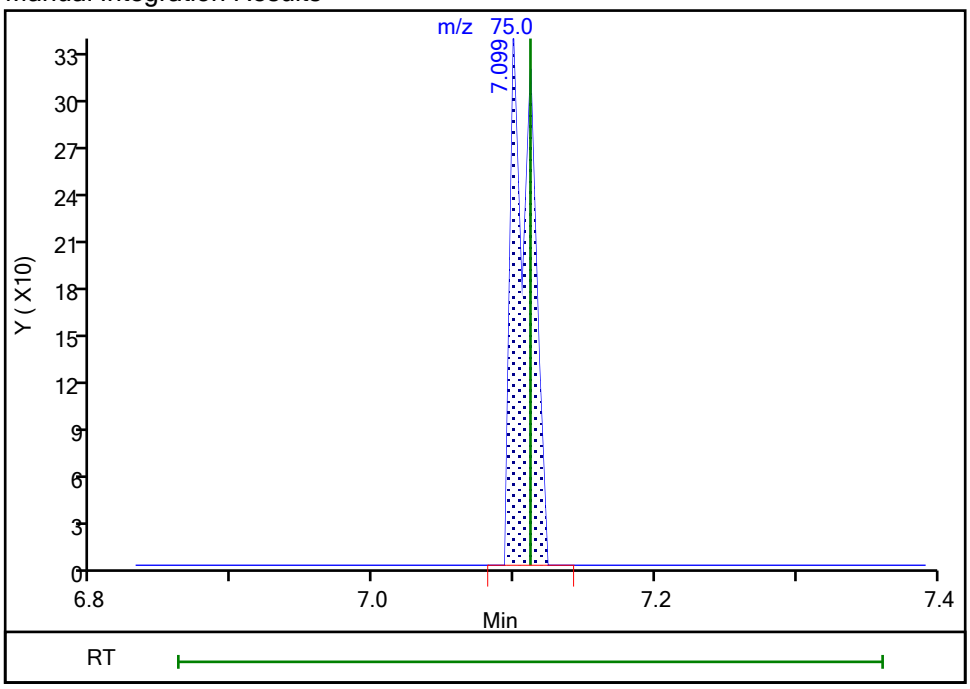
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 344
Amount: 0.315631
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

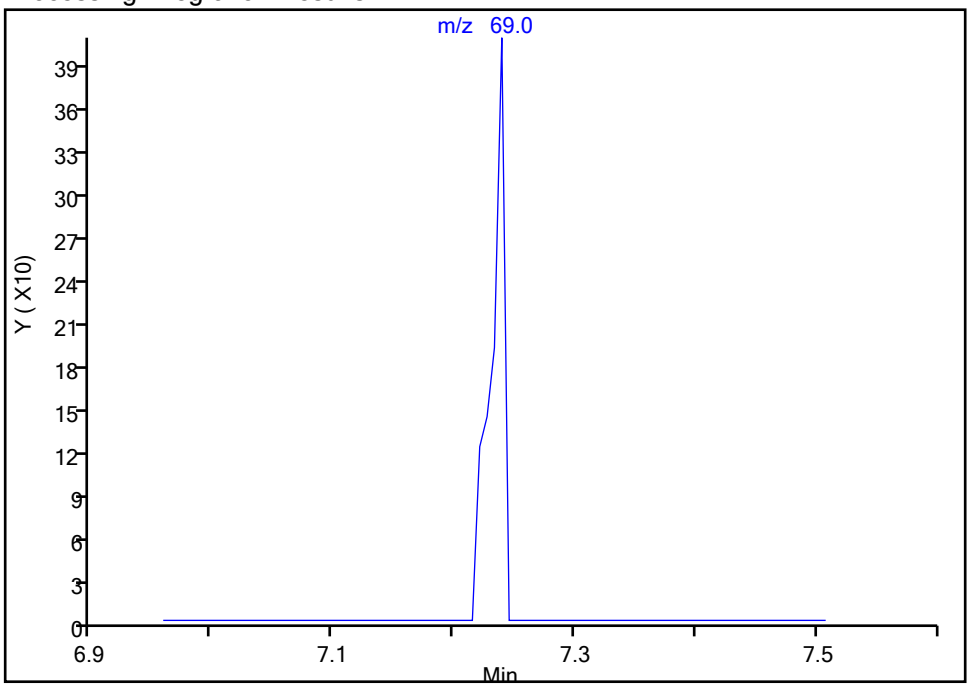
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

64 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

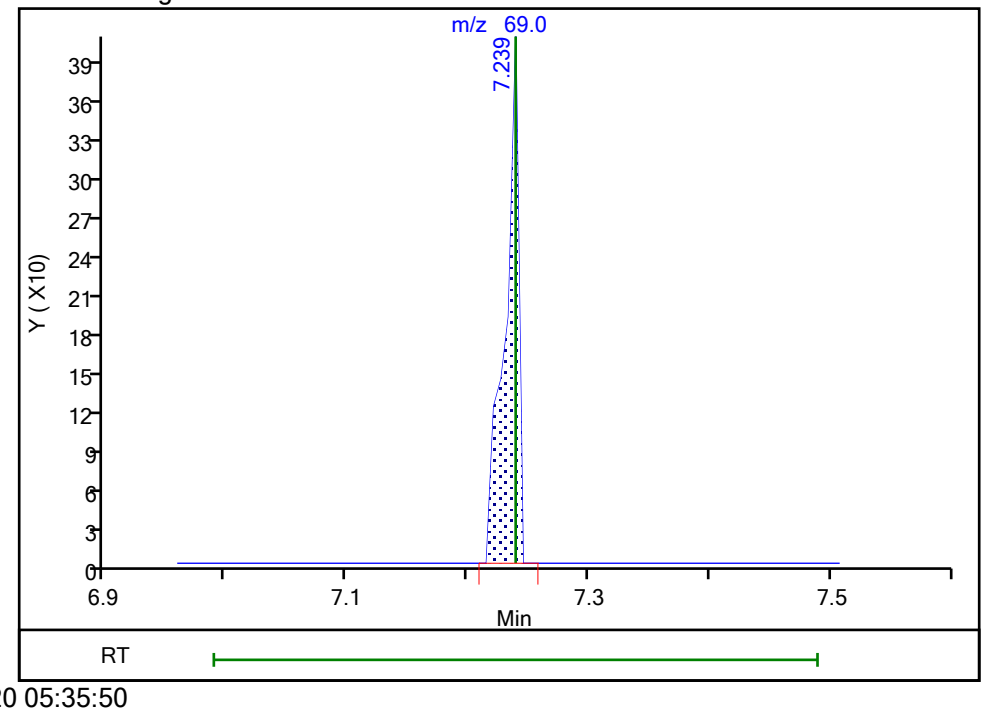
Not Detected
Expected RT: 7.24

Processing Integration Results



Manual Integration Results

RT: 7.24
Area: 314
Amount: 1.241564
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

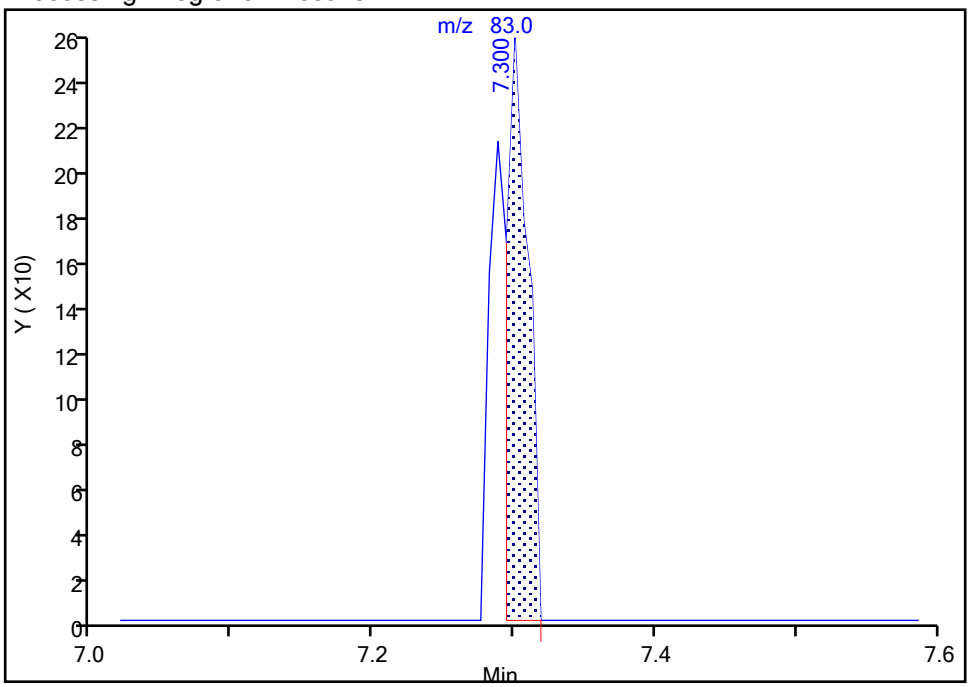
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

65 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

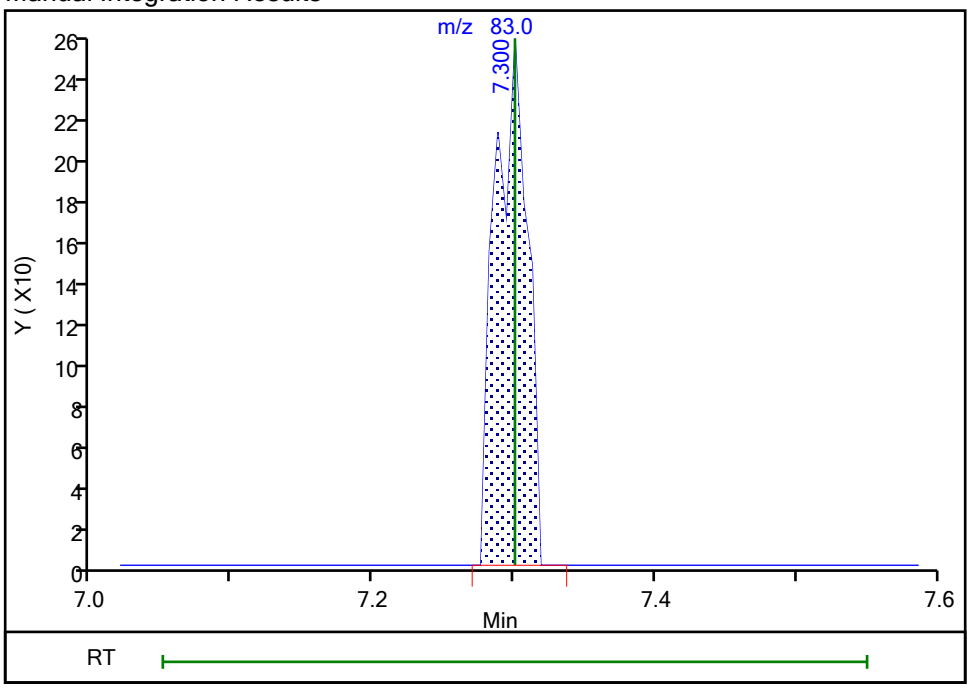
Processing Integration Results

RT: 7.30
Area: 269
Amount: 0.251906
Amount Units: ug/l



Manual Integration Results

RT: 7.30
Area: 400
Amount: 0.309831
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:35:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

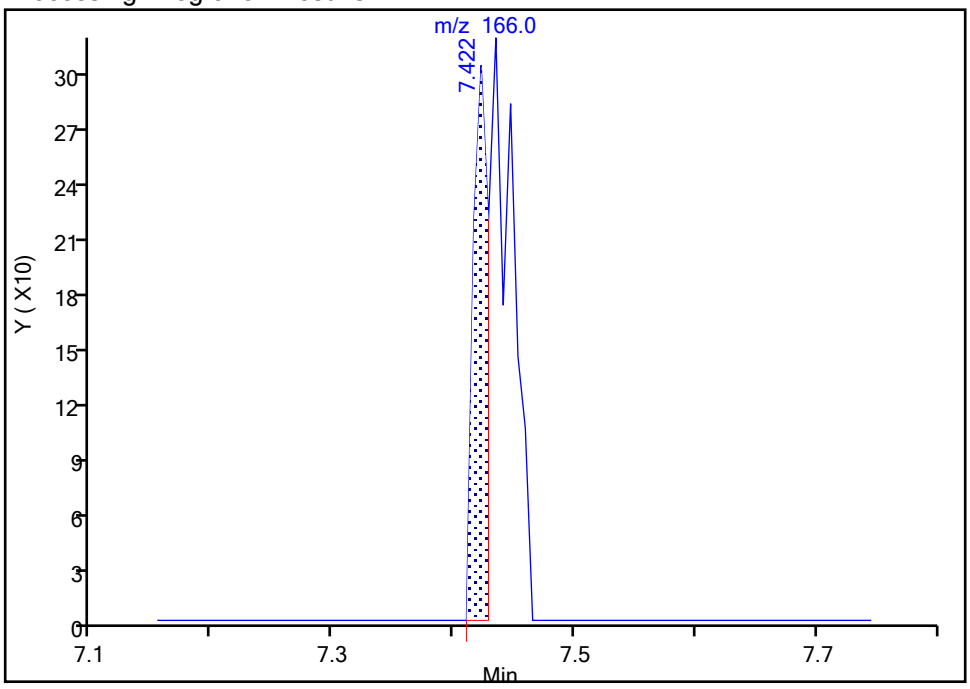
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

66 Tetrachloroethene, CAS: 127-18-4

Signal: 3

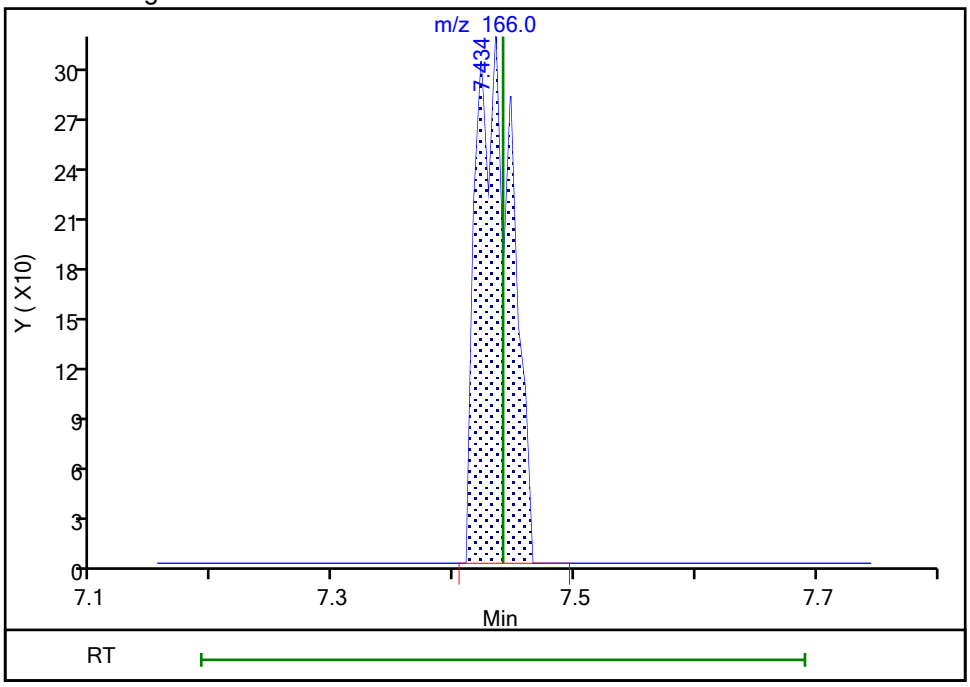
Processing Integration Results

RT: 7.42
Area: 270
Amount: 0.172508
Amount Units: ug/l



Manual Integration Results

RT: 7.43
Area: 644
Amount: 0.333120
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

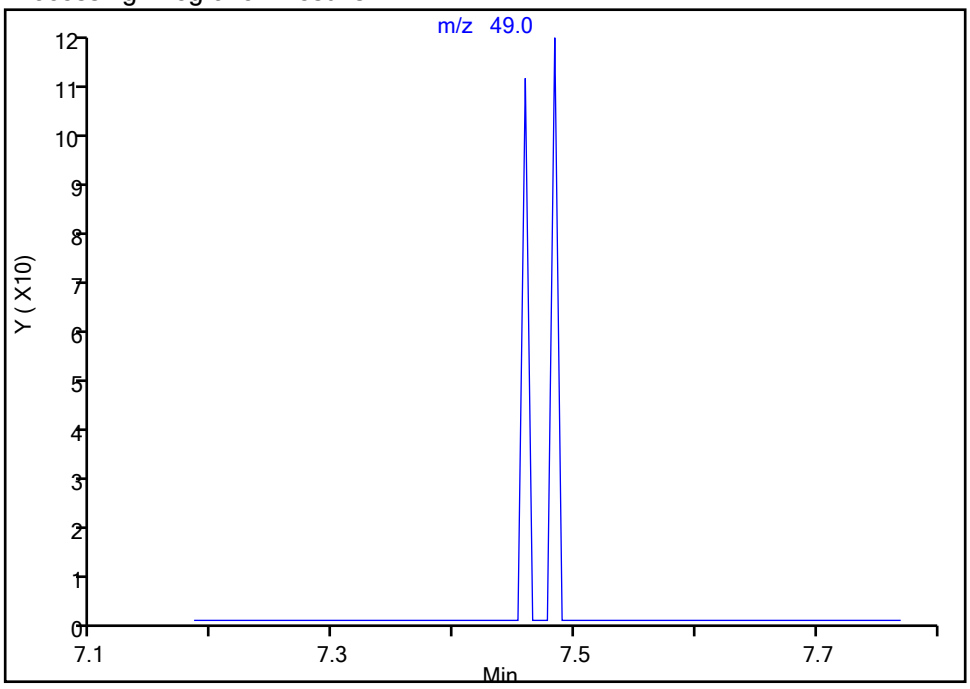
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

67 1,3-Dichloropropane, CAS: 142-28-9

Signal: 3

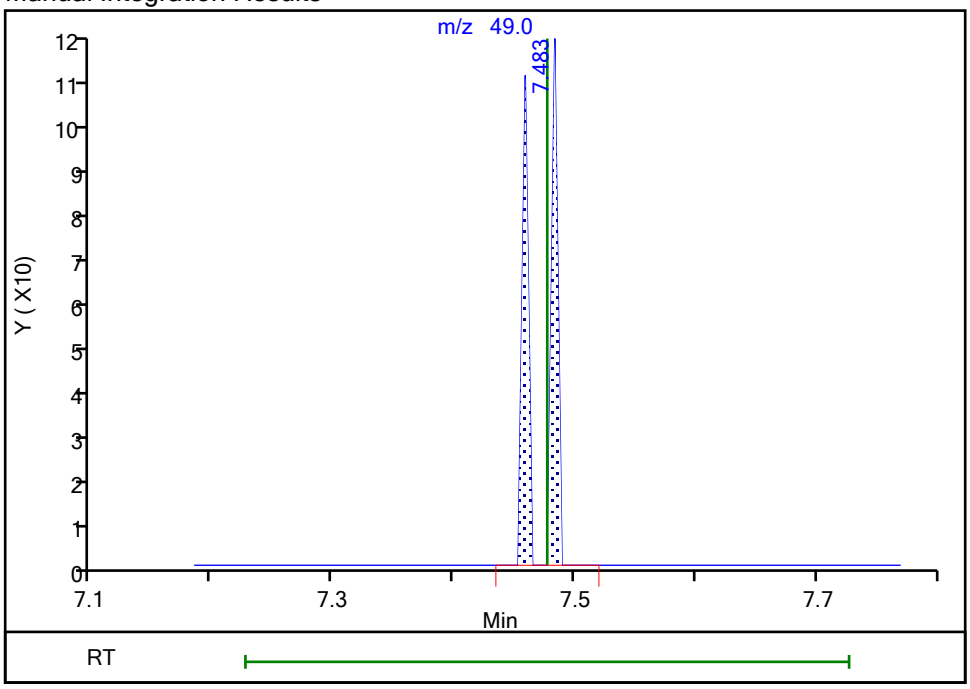
Not Detected
Expected RT: 7.48

Processing Integration Results



Manual Integration Results

RT: 7.48
Area: 81
Amount: 0.127392
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

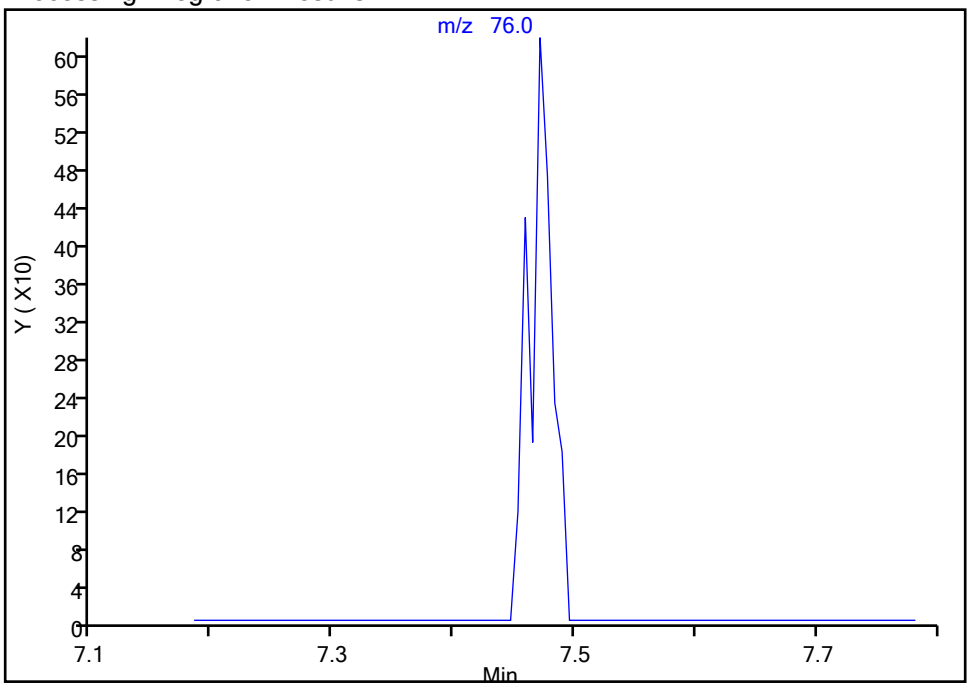
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

67 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

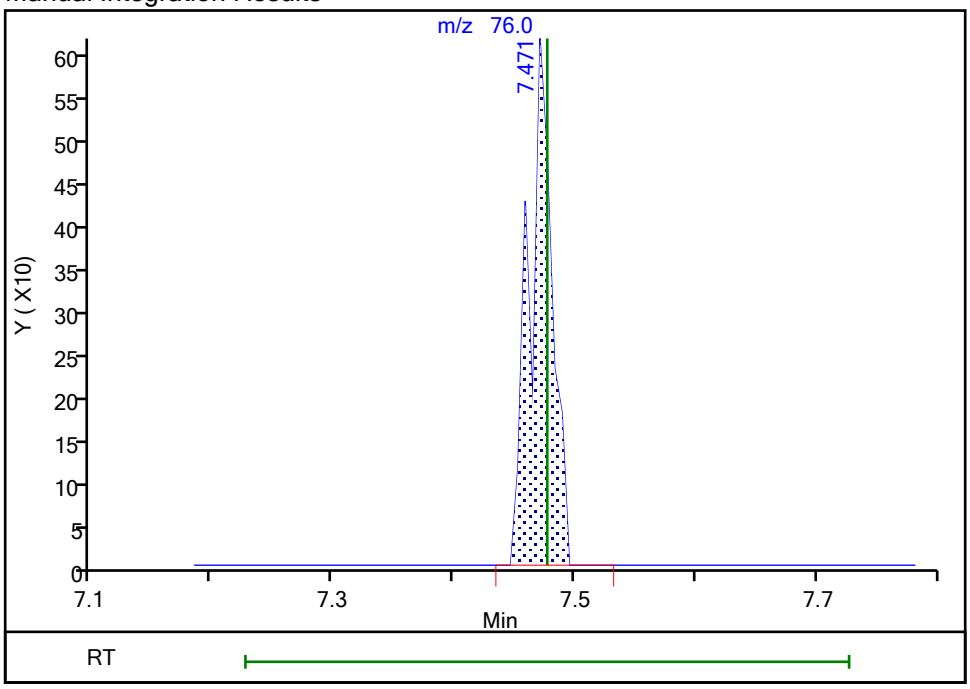
Not Detected
Expected RT: 7.48

Processing Integration Results



Manual Integration Results

RT: 7.47
Area: 814
Amount: 0.127392
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

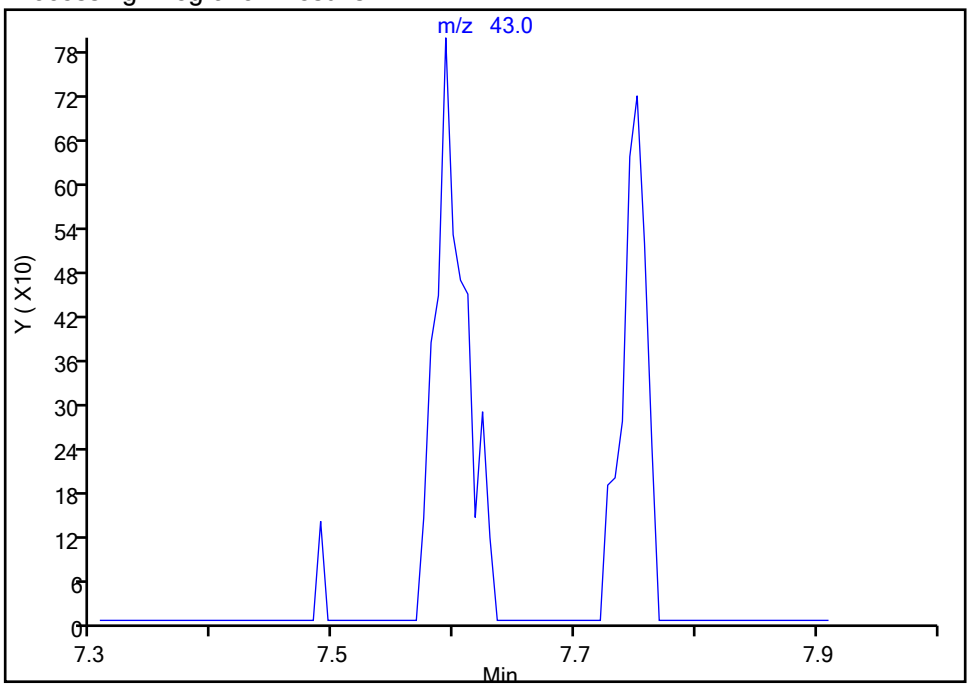
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

68 2-Hexanone, CAS: 591-78-6

Signal: 1

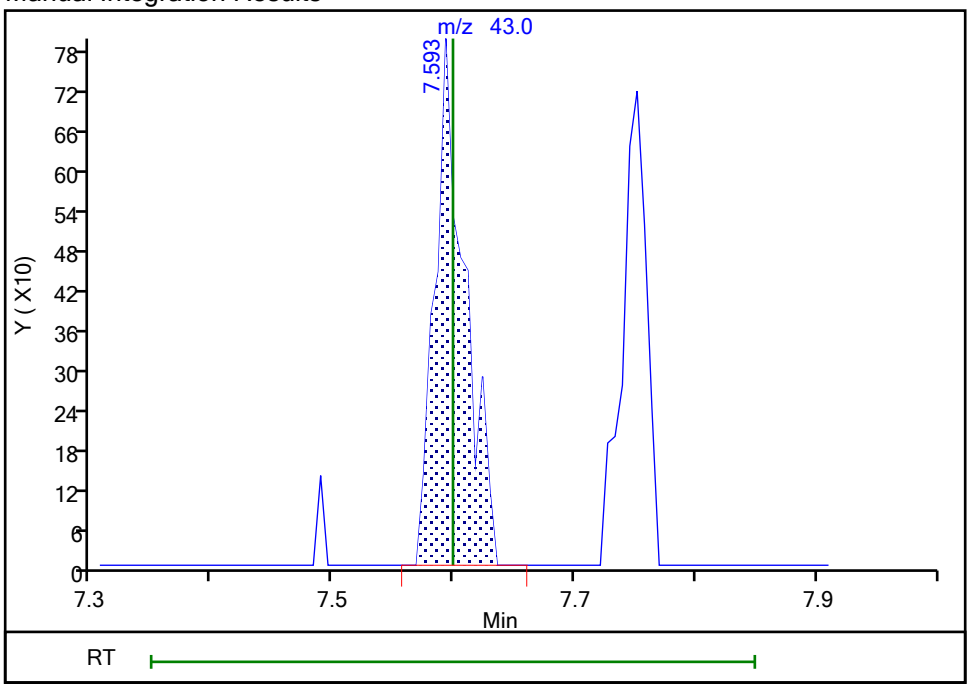
Not Detected
Expected RT: 7.60

Processing Integration Results



Manual Integration Results

RT: 7.59
Area: 1361
Amount: 0.489224
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

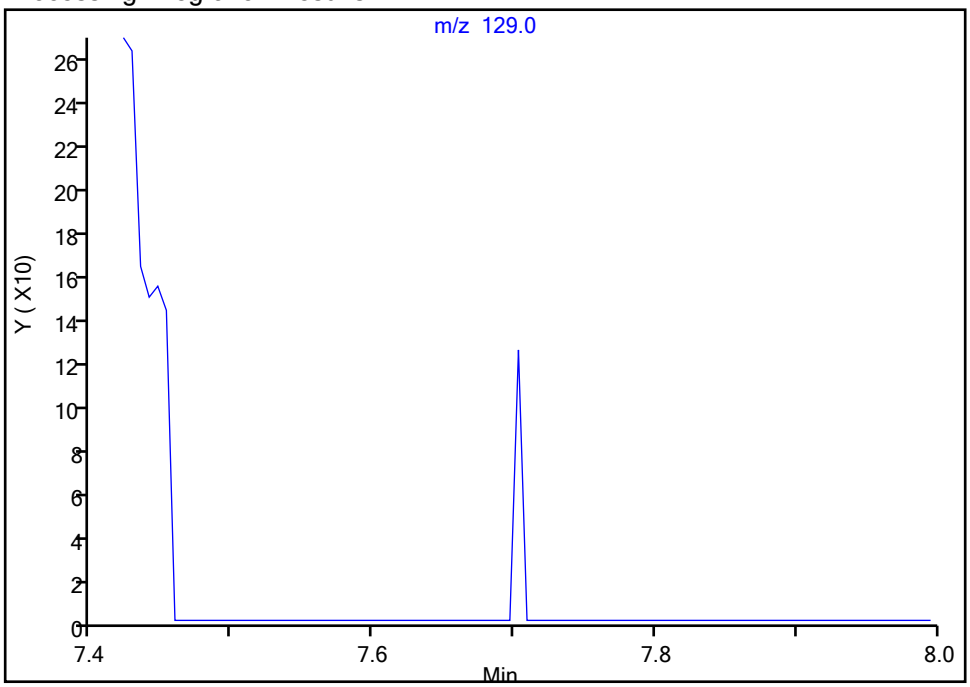
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

69 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

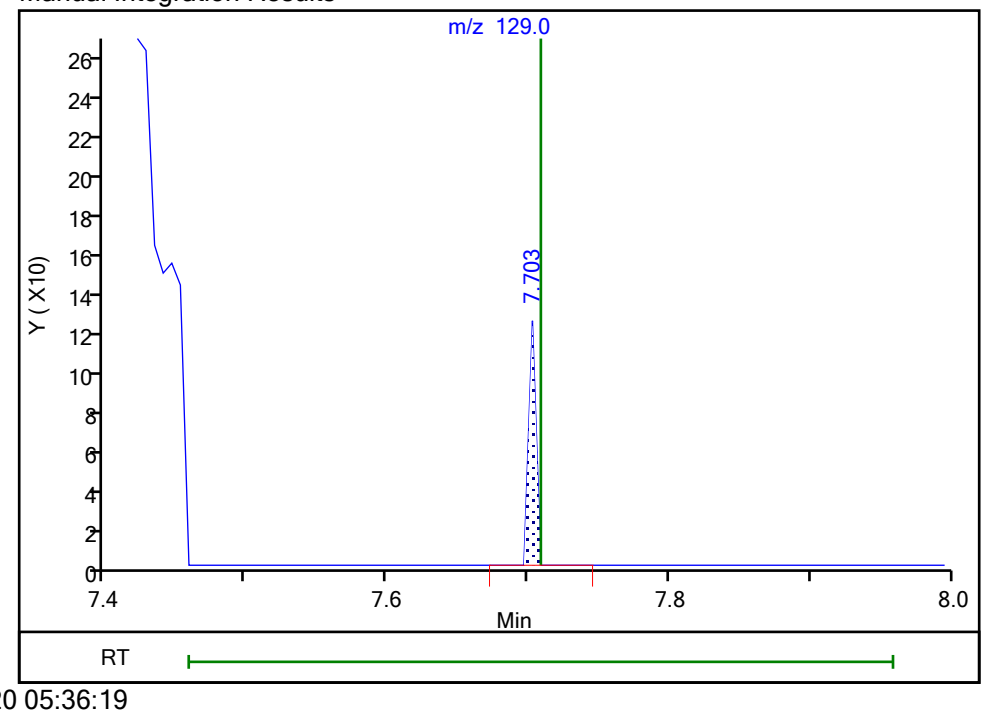
Not Detected
Expected RT: 7.71

Processing Integration Results



Manual Integration Results

RT: 7.70
Area: 45
Amount: 0.049701
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

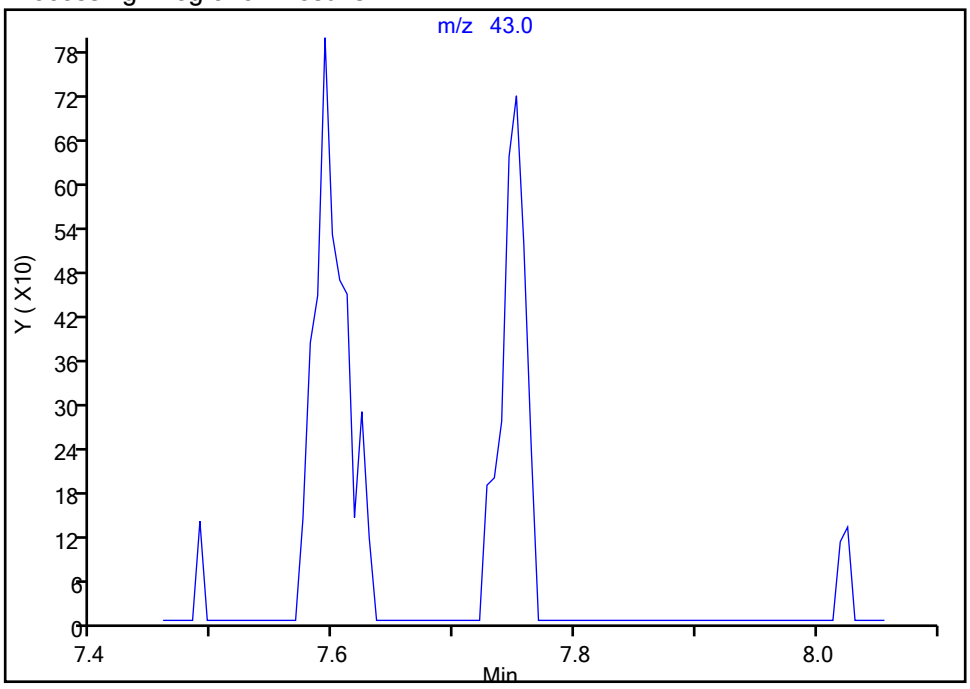
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

109 n-Butyl acetate, CAS: 123-86-4

Signal: 1

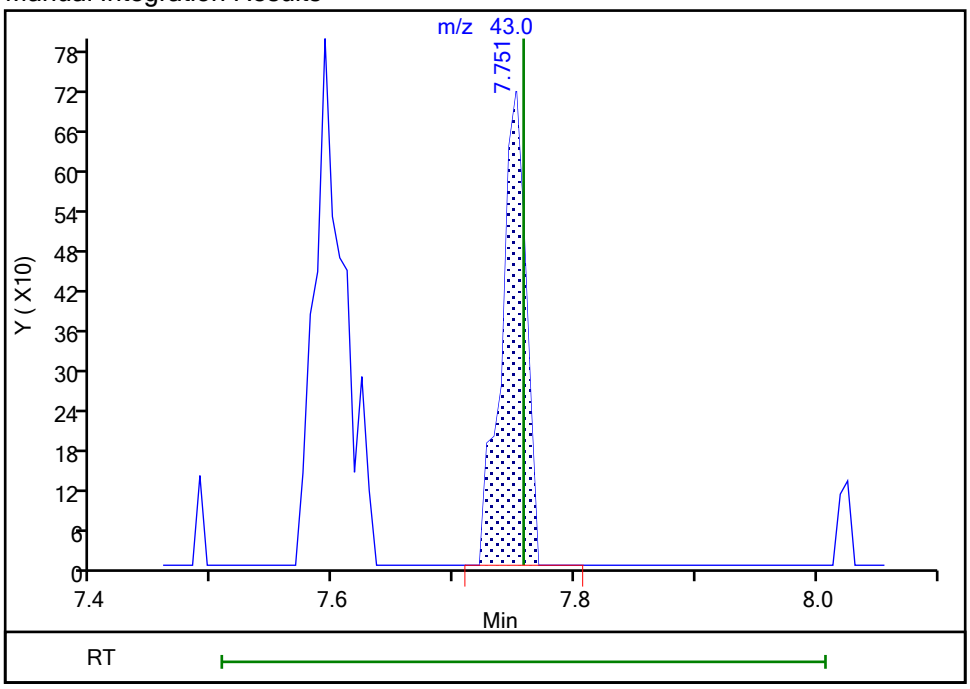
Not Detected
Expected RT: 7.76

Processing Integration Results



Manual Integration Results

RT: 7.75
Area: 1005
Amount: 2.211125
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

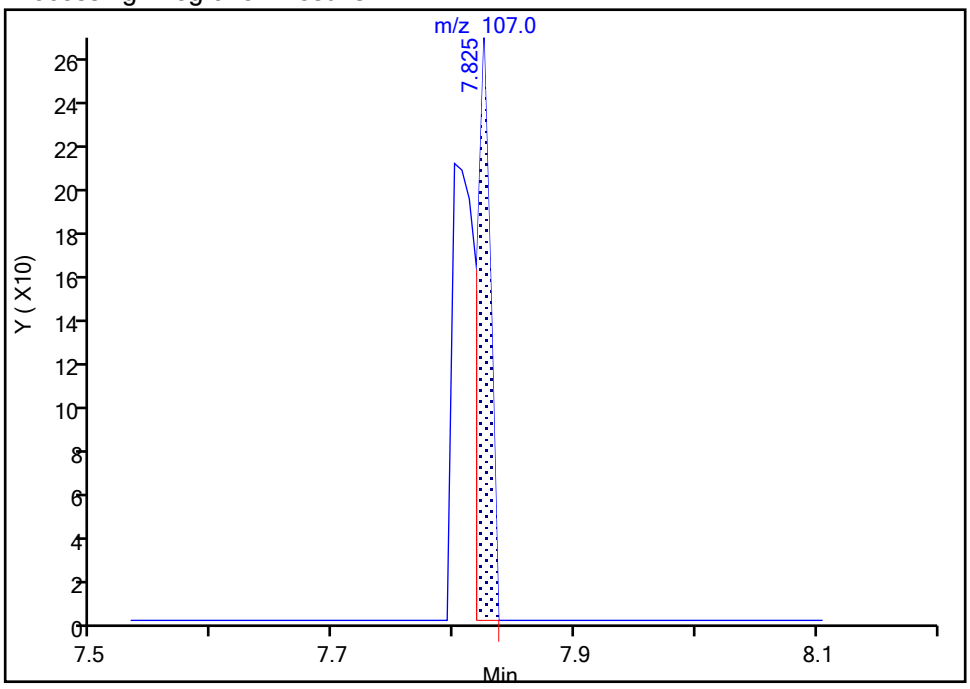
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

70 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

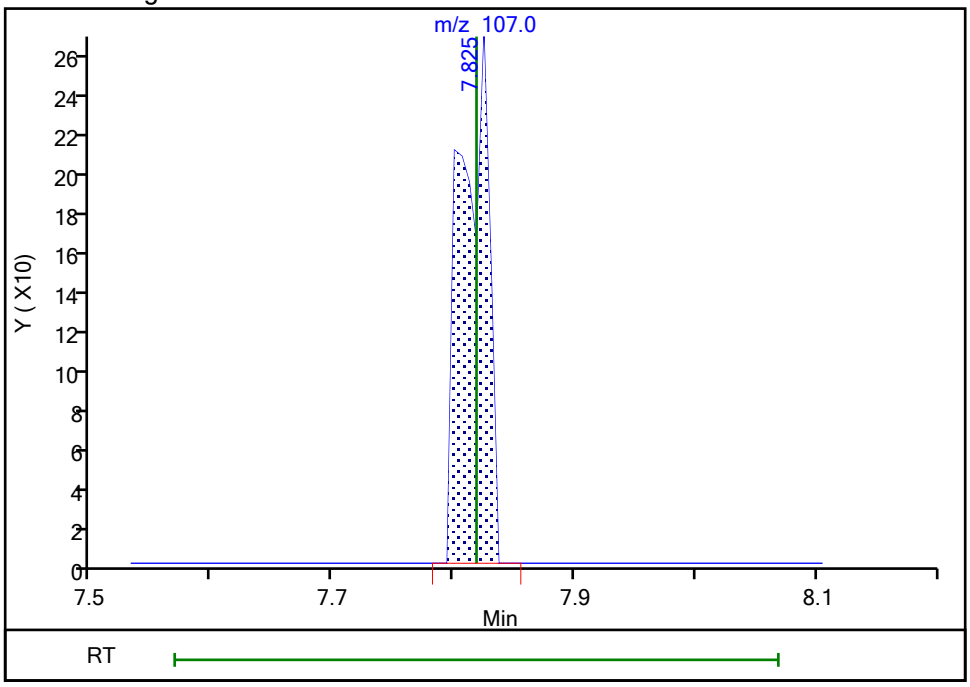
Processing Integration Results

RT: 7.82
Area: 207
Amount: 0.185117
Amount Units: ug/l



Manual Integration Results

RT: 7.82
Area: 427
Amount: 0.354393
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

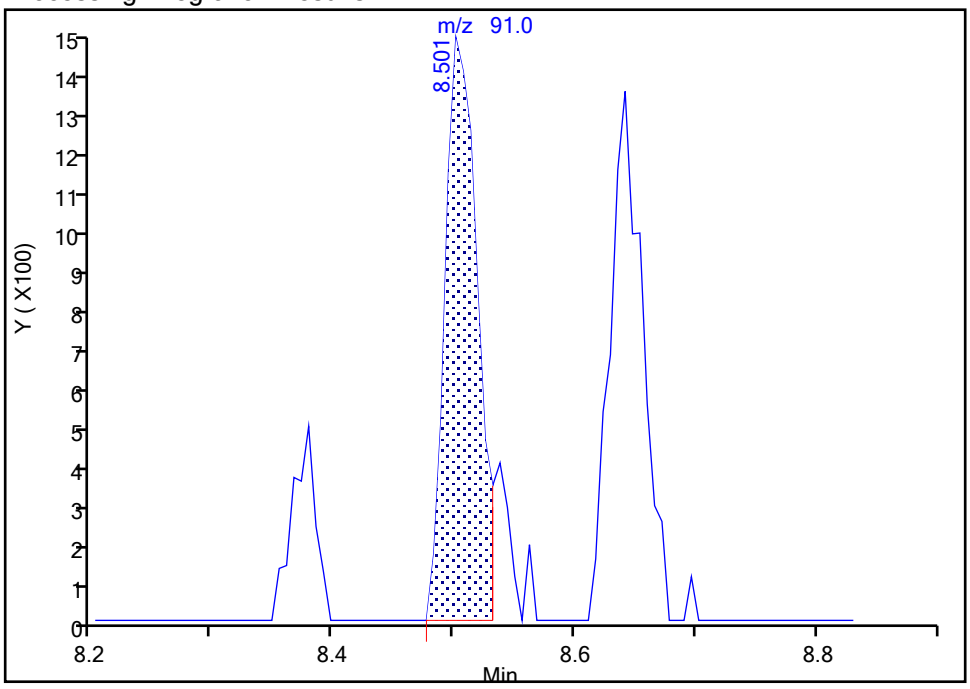
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

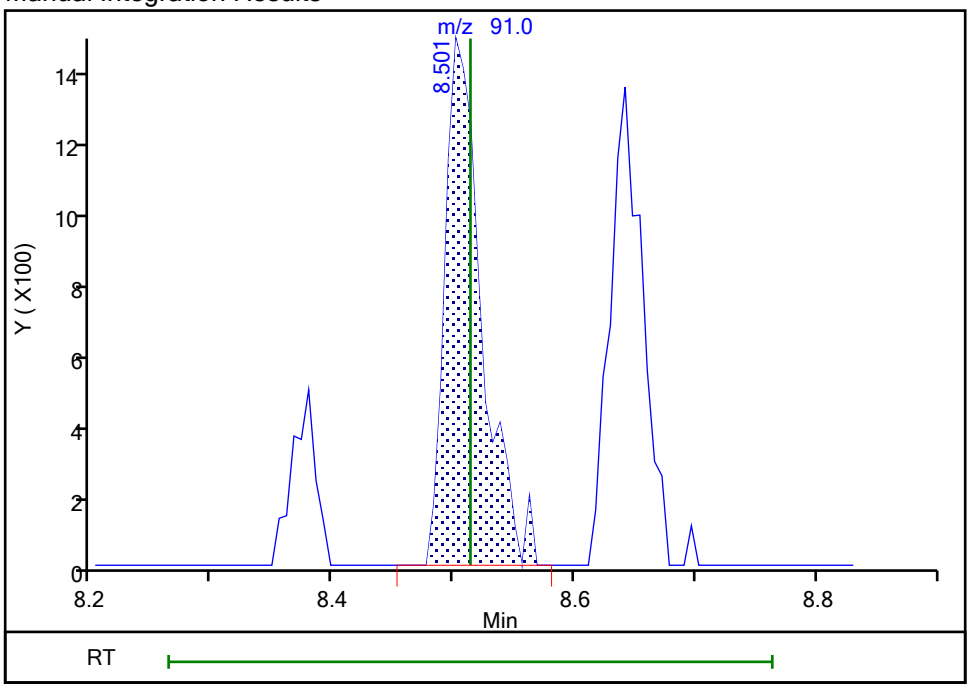
Processing Integration Results

RT: 8.50
Area: 2627
Amount: 0.358363
Amount Units: ug/l



Manual Integration Results

RT: 8.50
Area: 2970
Amount: 0.350095
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

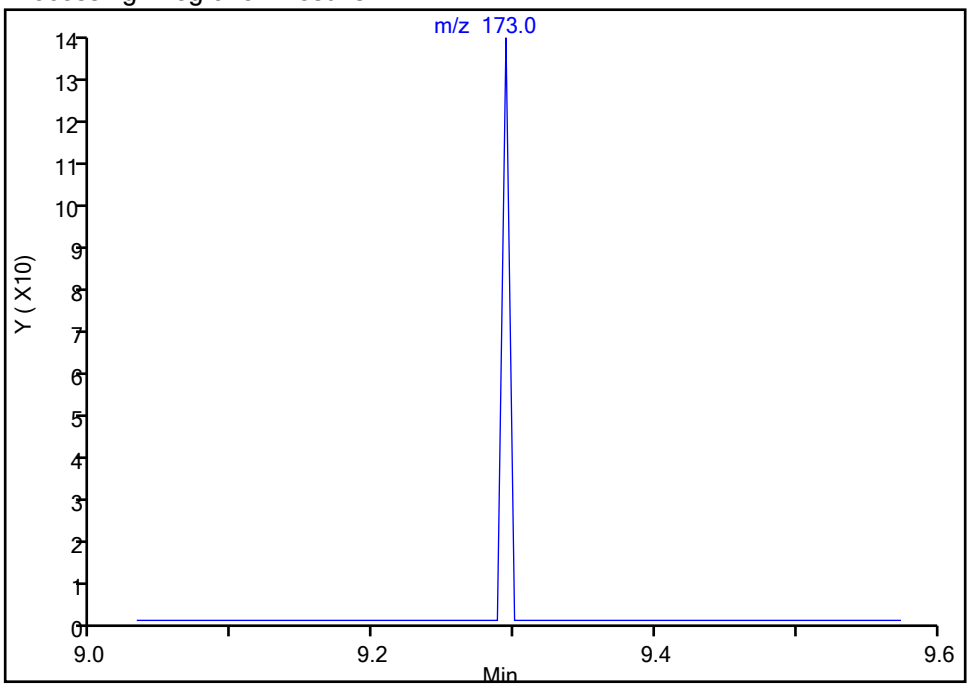
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

77 Bromoform, CAS: 75-25-2

Signal: 1

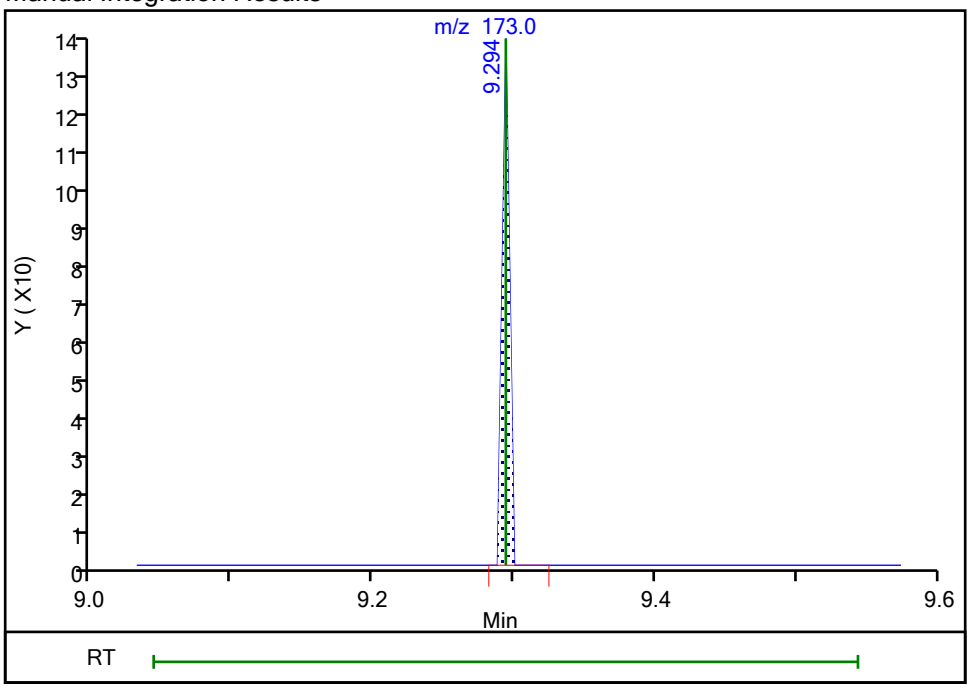
Not Detected
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29
Area: 49
Amount: 0.096377
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

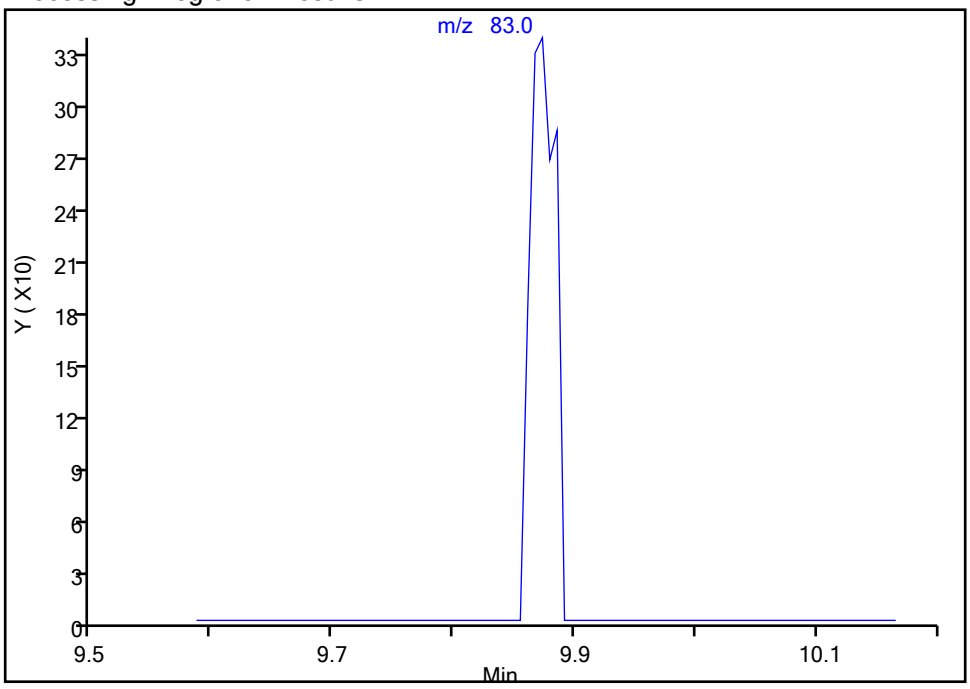
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

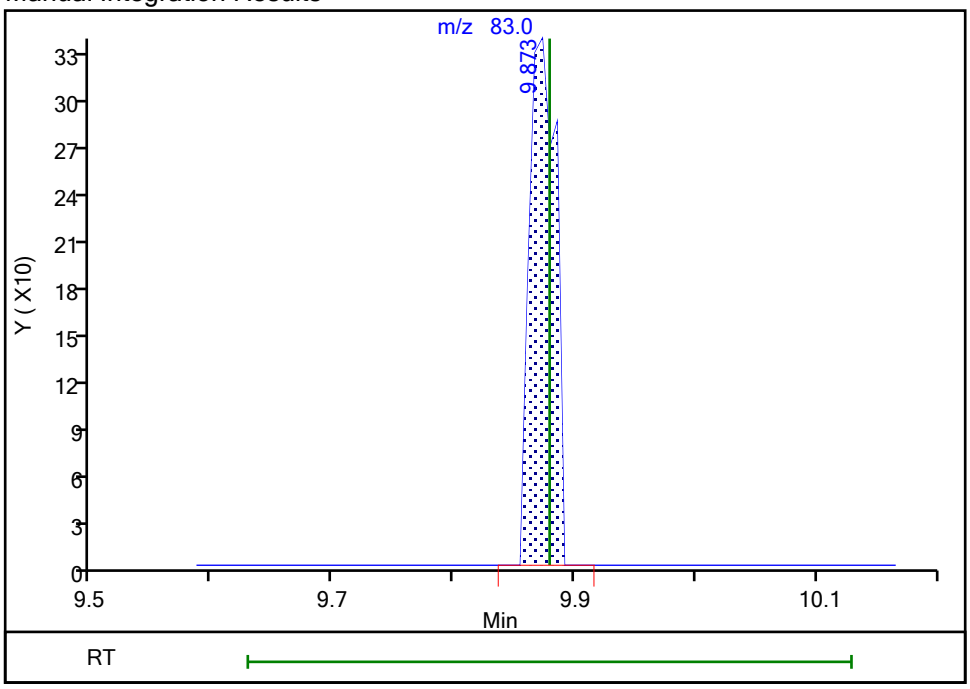
Not Detected
Expected RT: 9.88

Processing Integration Results



Manual Integration Results

RT: 9.87
Area: 513
Amount: 0.247742
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:36:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

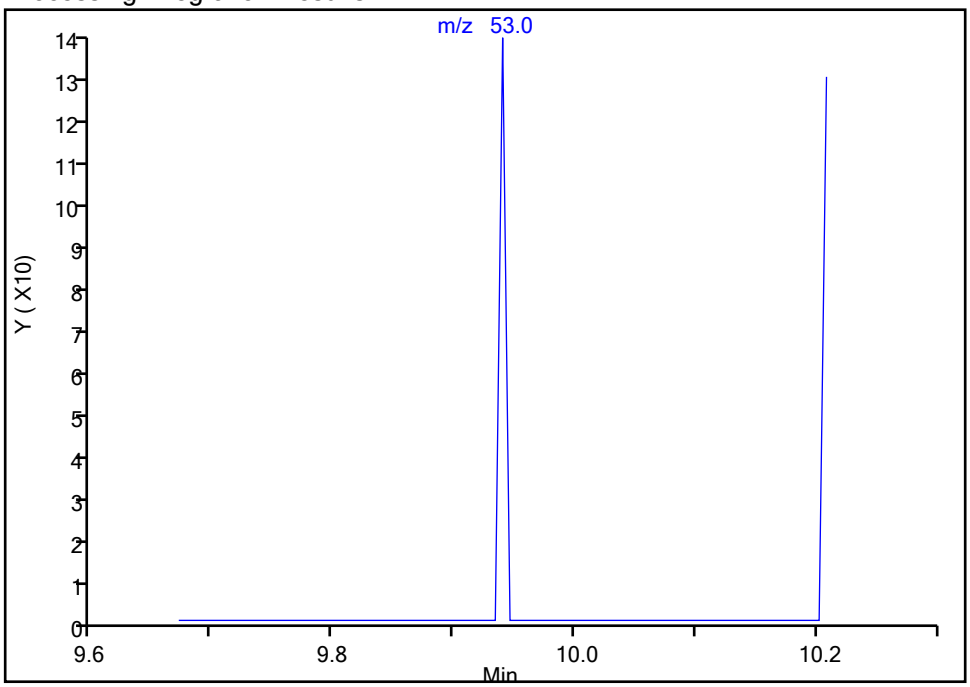
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

82 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

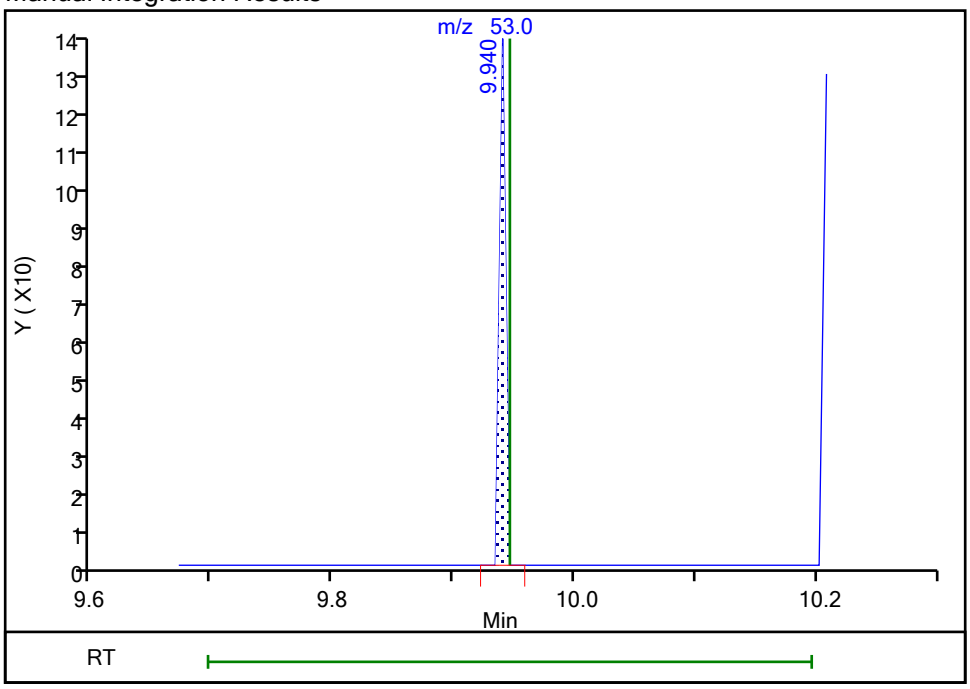
Not Detected
Expected RT: 9.95

Processing Integration Results



RT: 9.94
Area: 49
Amount: 0.119050
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 09-Nov-2020 05:36:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

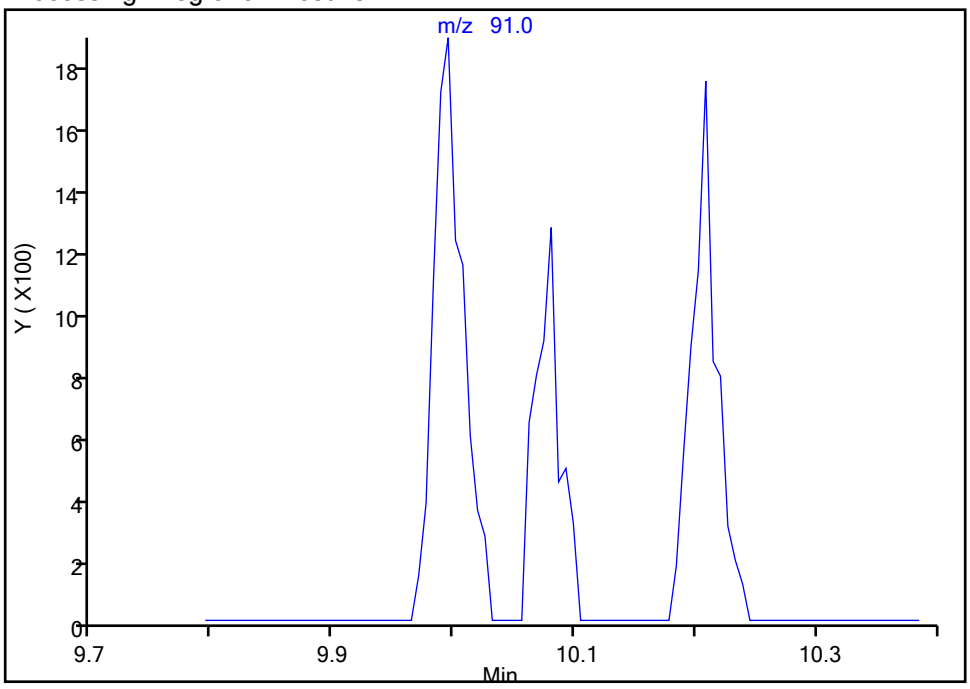
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

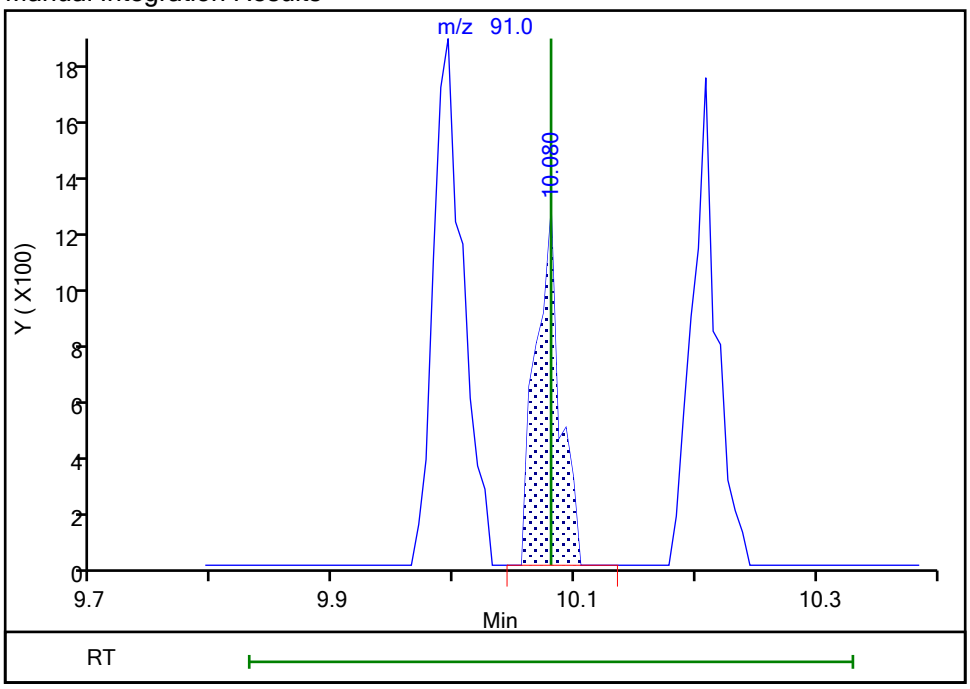
Not Detected
Expected RT: 10.08

Processing Integration Results



Manual Integration Results

RT: 10.08
Area: 1791
Amount: 0.299542
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:48:35
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

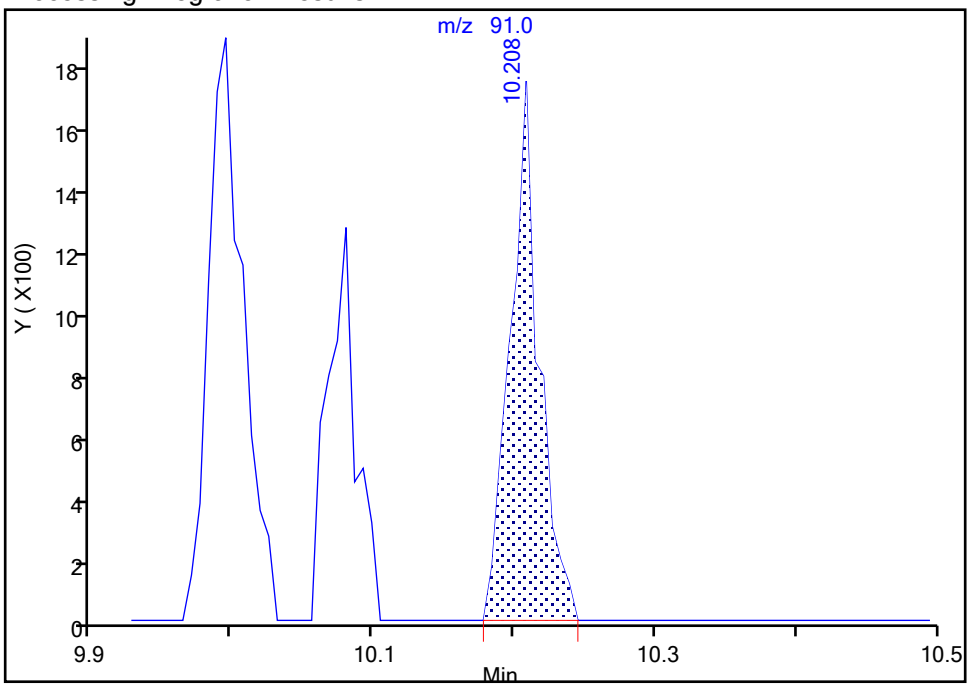
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

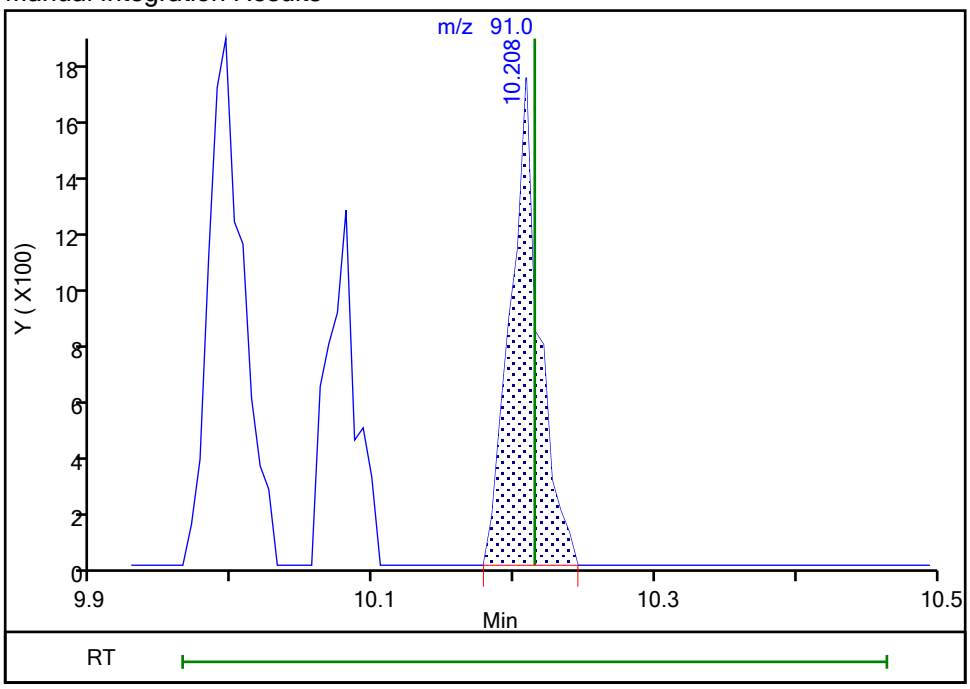
Processing Integration Results

RT: 10.21
Area: 2480
Amount: 0.450752
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 2480
Amount: 0.356574
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:48:42
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

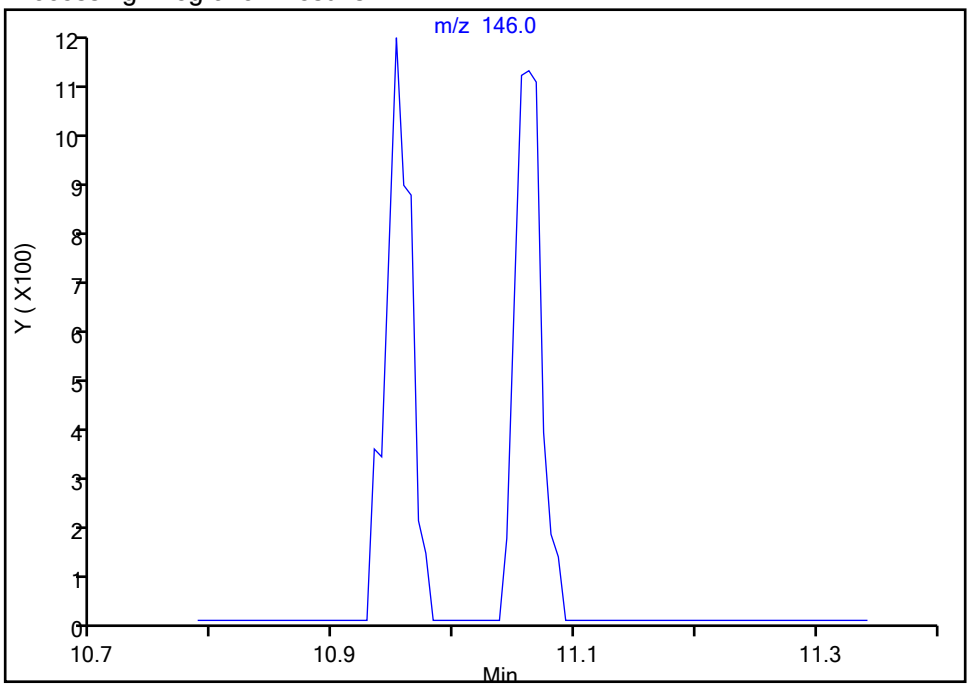
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

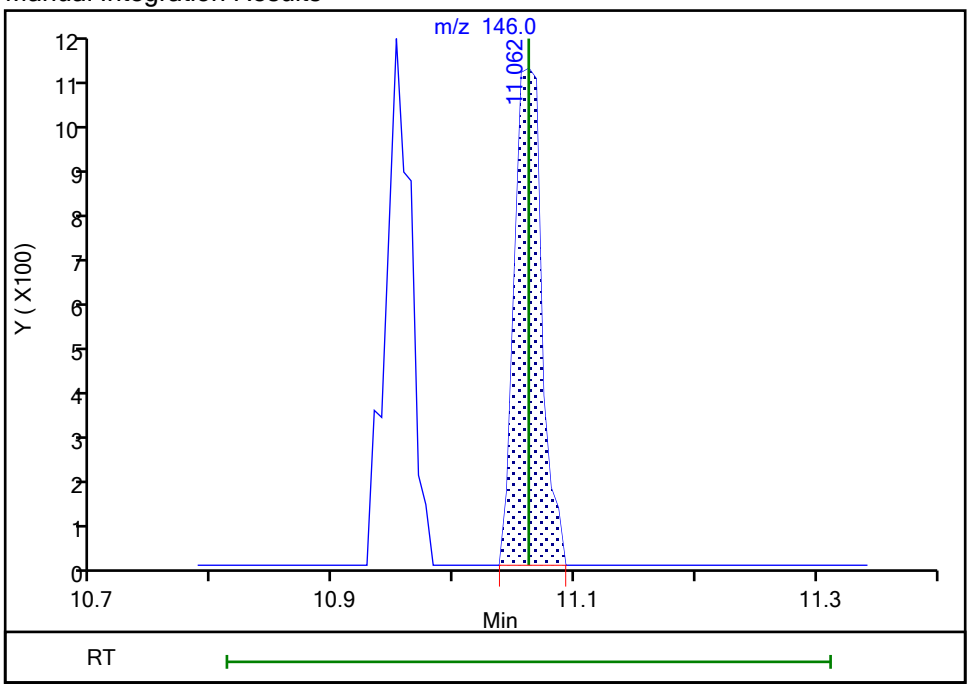
Not Detected
Expected RT: 11.06

Processing Integration Results



Manual Integration Results

RT: 11.06
Area: 1679
Amount: 0.359703
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:37:22
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

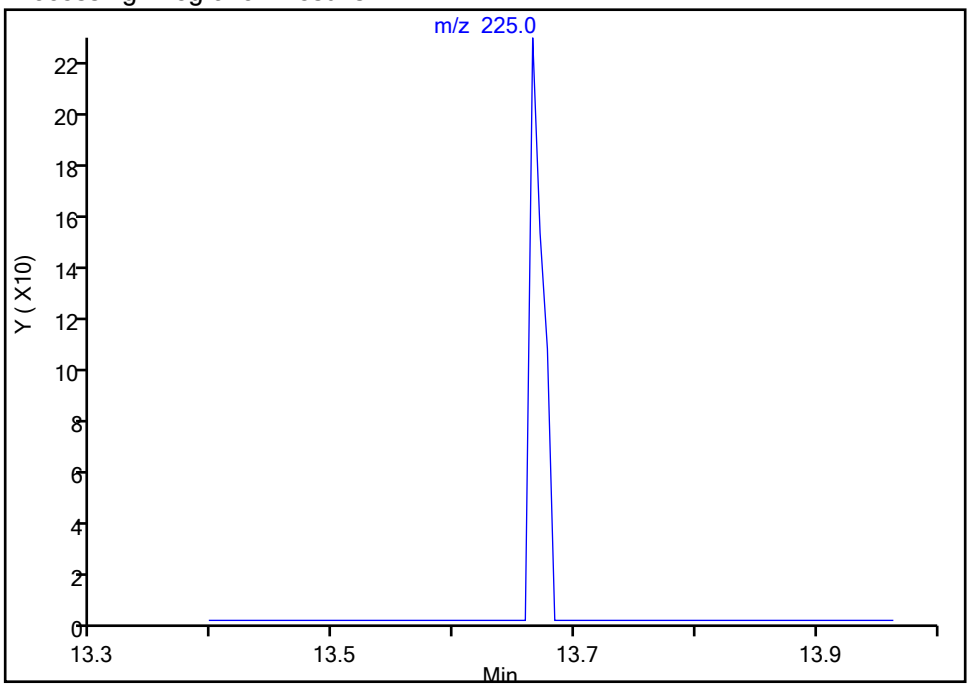
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3726.D
Injection Date: 09-Nov-2020 03:30:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

97 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

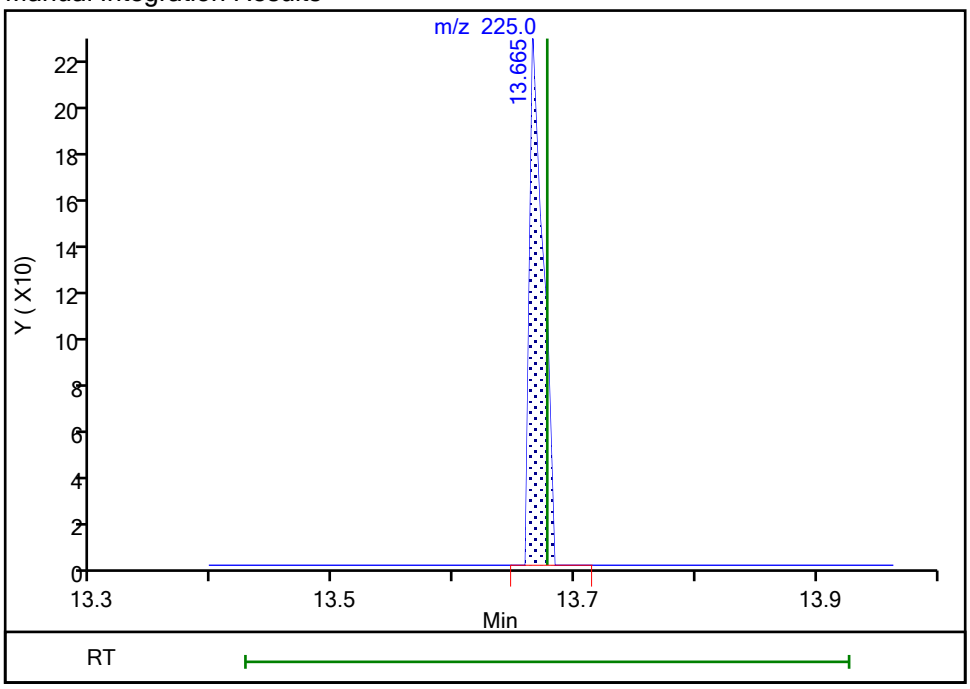
Not Detected
Expected RT: 13.68

Processing Integration Results



Manual Integration Results

RT: 13.66
Area: 172
Amount: 0.177720
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:37:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 10-Nov-2020 04:11:49 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Nov-2020 03:52:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:11:47 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 05:27:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.972	0.006	0	50477	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	80270	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.886	0.006	85	6004	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.337	0.001	90	66380	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	96	37058	50.0	50.0	
17 Ethanol	45	2.161	2.167	-0.006	98	4848	40.0	64.6	M
18 Ethyl ether	59	2.222	2.228	-0.006	88	1927	1.00	0.9252	M
19 Acrolein	56	2.338	2.338	0.000	97	3991	4.76	4.70	M
20 1,1-Dichloroethene	96	2.411	2.411	0.000	94	1178	1.00	1.05	
21 112TCTFE	101	2.429	2.429	0.000	81	1272	1.00	0.8691	
22 Acetone	43	2.490	2.490	0.000	99	6576	2.00	3.57	
23 Iodomethane	142	2.539	2.539	0.000	94	1576	1.00	-4.81	
24 Carbon disulfide	76	2.588	2.588	0.000	98	4448	1.00	0.8930	M
105 Isopropyl alcohol	45	2.673	2.673	0.000	95	5558	10.0	17.4	Ma
118 Acetonitrile	40	2.740	2.746	-0.006	96	6244	10.0	11.6	
25 3-Chloro-1-propene	76	2.765	2.758	0.007	82	866	1.00	1.10	M
26 Methyl acetate	43	2.807	2.807	0.000	99	7645	2.00	1.93	
27 Methylene Chloride	84	2.868	2.874	-0.006	86	2299	1.00	1.14	M
35 2-Methyl-2-propanol	59	3.063	3.057	0.006	94	4511	10.0	16.1	
30 Acrylonitrile	53	3.124	3.130	-0.006	95	23238	10.0	11.7	M
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	36	1725	1.00	0.8410	M
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	88	5107	1.00	1.18	
31 Hexane	57	3.405	3.405	0.000	88	2392	1.00	1.07	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	91	3996	1.00	0.8623	M
34 2-Chloro-1,3-butadiene	53	3.612	3.618	-0.006	52	3974	1.00	0.8141	
33 Vinyl acetate	86	3.606	3.618	-0.012	96	513	2.00	8.77	
36 Isopropyl ether	87	3.636	3.642	-0.006	87	1221	1.00	1.34	
37 Tert-butyl ethyl ether	59	3.984	3.978	0.006	93	10148	1.00	1.26	
38 2,2-Dichloropropane	77	4.081	4.075	0.006	73	2859	1.00	1.10	
39 cis-1,2-Dichloroethene	96	4.081	4.087	-0.006	87	2142	1.00	0.8563	
40 2-Butanone (MEK)	43	4.136	4.130	0.006	96	5886	2.00	2.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.185	-0.006	100	10567	10.0	11.7	
104 Ethyl acetate	43	4.203	4.203	0.000	98	8702	2.00	1.80	
42 Chlorobromomethane	128	4.307	4.313	-0.006	34	984	1.00	0.9119	
43 Methacrylonitrile	67	4.319	4.331	-0.012	96	12295	10.0	10.8	M
44 Tetrahydrofuran	71	4.380	4.374	0.006	88	691	2.00	2.50	M
45 Chloroform	83	4.398	4.404	-0.006	94	4022	1.00	1.10	M
46 1,1,1-Trichloroethane	97	4.551	4.557	-0.006	50	3385	1.00	1.06	
47 Cyclohexane	56	4.600	4.606	-0.006	93	6579	1.00	1.09	M
48 Carbon tetrachloride	117	4.709	4.709	0.000	93	2034	1.00	0.9825	
49 1,1-Dichloropropene	75	4.722	4.721	0.001	75	2689	1.00	0.9626	M
108 Isobutyl alcohol	43	4.917	4.917	0.000	90	5690	25.0	30.5	
50 Benzene	78	4.917	4.917	0.000	88	8419	1.00	1.01	M
51 1,2-Dichloroethane	62	4.941	4.941	0.000	93	3377	1.00	1.03	
116 n-Butanol	56	5.002	5.008	-0.006	47	4307	25.0	27.0	a
52 Tert-amyl methyl ether	73	5.063	5.057	0.006	84	6407	1.00	1.42	
53 n-Heptane	43	5.203	5.209	-0.006	39	2395	1.00	2.39	
54 Trichloroethene	132	5.557	5.557	0.000	93	2337	1.00	0.9403	M
117 Ethyl acrylate	55	5.703	5.709	-0.006	94	5085	1.00	1.55	a
114 Methylcyclohexane	83	5.734	5.740	-0.006	86	2897	1.00	1.04	
55 1,2-Dichloropropane	63	5.782	5.776	0.006	84	2771	1.00	1.11	M
56 Dibromomethane	93	5.886	5.892	-0.006	42	1231	1.00	1.19	
57 Methyl methacrylate	69	5.941	5.935	0.006	86	2737	2.00	1.87	
115 1,4-Dioxane	58	5.941	5.941	0.000	30	781	20.0	23.9	
58 Dichlorobromomethane	83	6.063	6.063	0.000	91	1564	1.00	0.9697	
106 2-Nitropropane	43	6.301	6.307	-0.007	81	1590	2.00	8.92	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	81	1591	1.00	1.02	M
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	85	1796	1.00	1.25	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	98	11569	2.00	2.73	M
62 Toluene	92	6.867	6.867	0.000	97	5727	1.00	1.08	M
63 trans-1,3-Dichloropropene	75	7.105	7.111	-0.006	85	1436	1.00	1.28	
64 Ethyl methacrylate	69	7.233	7.239	-0.006	83	1750	1.00	1.83	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	90	1509	1.00	1.13	
66 Tetrachloroethene	166	7.434	7.440	-0.006	82	1755	1.00	0.8800	
67 1,3-Dichloropropane	76	7.471	7.477	-0.006	87	2836	1.00	0.9862	
68 2-Hexanone	43	7.605	7.599	0.006	99	7080	2.00	2.47	
69 Chlorodibromomethane	129	7.703	7.709	-0.006	89	720	1.00	0.7708	a
109 n-Butyl acetate	43	7.751	7.757	-0.006	94	5246	1.00	2.83	
70 Ethylene Dibromide	107	7.819	7.818	0.000	97	1515	1.00	1.22	
71 Chlorobenzene	112	8.367	8.373	-0.006	86	6914	1.00	1.11	M
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	88	2382	1.00	1.15	
73 Ethylbenzene	91	8.507	8.513	-0.006	97	8763	1.00	1.02	
74 m-Xylene & p-Xylene	106	8.648	8.648	0.000	95	3733	1.00	1.10	
75 o-Xylene	106	9.087	9.093	-0.006	98	3573	1.00	1.11	
76 Styrene	104	9.105	9.111	-0.006	86	5751	1.00	1.04	
77 Bromoform	173	9.294	9.294	0.000	0	497	1.00	0.9636	
78 Isopropylbenzene	105	9.519	9.525	-0.006	97	8847	1.00	1.16	
79 Bromobenzene	156	9.836	9.842	-0.006	86	2874	1.00	1.26	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.879	-0.006	91	2727	1.00	1.30	
81 1,2,3-Trichloropropane	75	9.910	9.909	0.001	90	2833	1.00	0.7421	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	1	752	1.00	1.80	
83 N-Propylbenzene	91	9.995	10.001	-0.006	97	9416	1.00	1.11	
84 2-Chlorotoluene	91	10.080	10.080	0.000	95	6661	1.00	1.10	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.208	10.214	-0.006	92	8053	1.00	1.14	a
86 1,3,5-Trimethylbenzene	105	10.214	10.220	-0.006	86	7876	1.00	1.10	
87 tert-Butylbenzene	119	10.586	10.592	-0.006	94	9295	1.00	0.9794	
88 1,2,4-Trimethylbenzene	105	10.647	10.653	-0.006	97	8450	1.00	1.29	
89 sec-Butylbenzene	105	10.848	10.854	-0.006	95	9263	1.00	1.21	
90 1,3-Dichlorobenzene	146	10.952	10.958	-0.006	96	6317	1.00	1.06	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	53	8320	1.00	0.9424	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	91	6313	1.00	1.32	a
110 1,2,3-Trimethylbenzene	105	11.135	11.141	-0.006	97	9562	1.00	1.01	
113 Benzyl chloride	126	11.232	11.238	-0.006	94	399	1.00	1.08	
93 1,2-Dichlorobenzene	146	11.495	11.501	-0.006	96	5555	1.00	1.29	
94 n-Butylbenzene	91	11.519	11.525	-0.006	97	6846	1.00	1.27	
95 1,2-Dibromo-3-Chloropropane	75	12.440	12.433	0.007	1	396	1.00	1.44	
112 1,3,5-Trichlorobenzene	180	12.696	12.696	0.000	95	3713	1.00	1.01	
96 1,2,4-Trichlorobenzene	180	13.439	13.439	0.000	94	3230	1.00	1.46	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	82	1038	1.00	1.05	
98 Naphthalene	128	13.726	13.726	0.000	96	9449	1.00	1.32	
99 1,2,3-Trichlorobenzene	180	14.031	14.025	0.006	92	3232	1.00	1.61	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		2.00	1.70	
S 100 Xylenes, Total	1				0		2.00	2.21	
S 102 1,3-Dichloropropene, Total	1				0		2.00	2.52	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

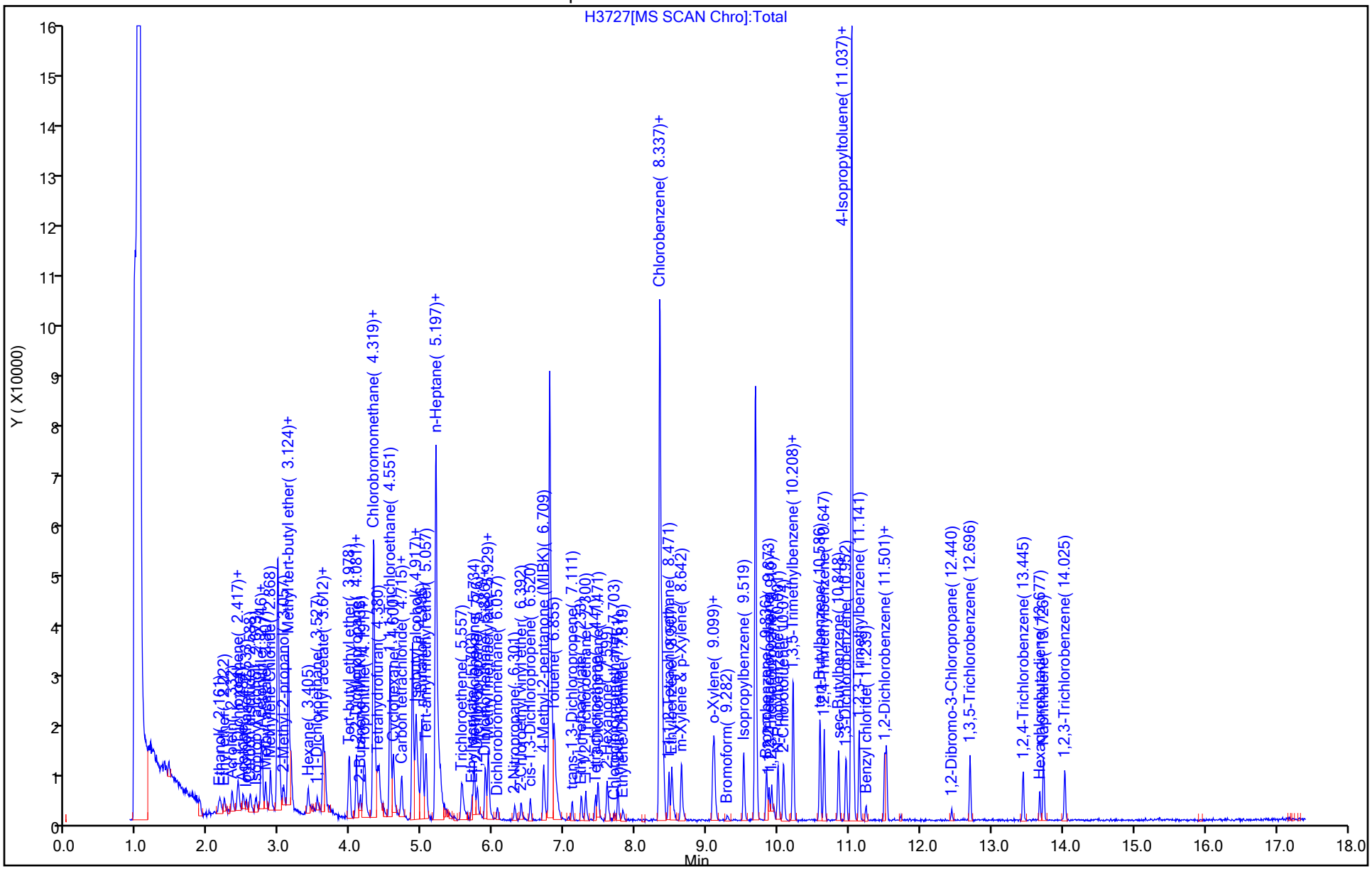
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	1.00	Units: uL

Report Date: 10-Nov-2020 04:11:50 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D

Injection Date:	09-Nov-2020 03:52:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

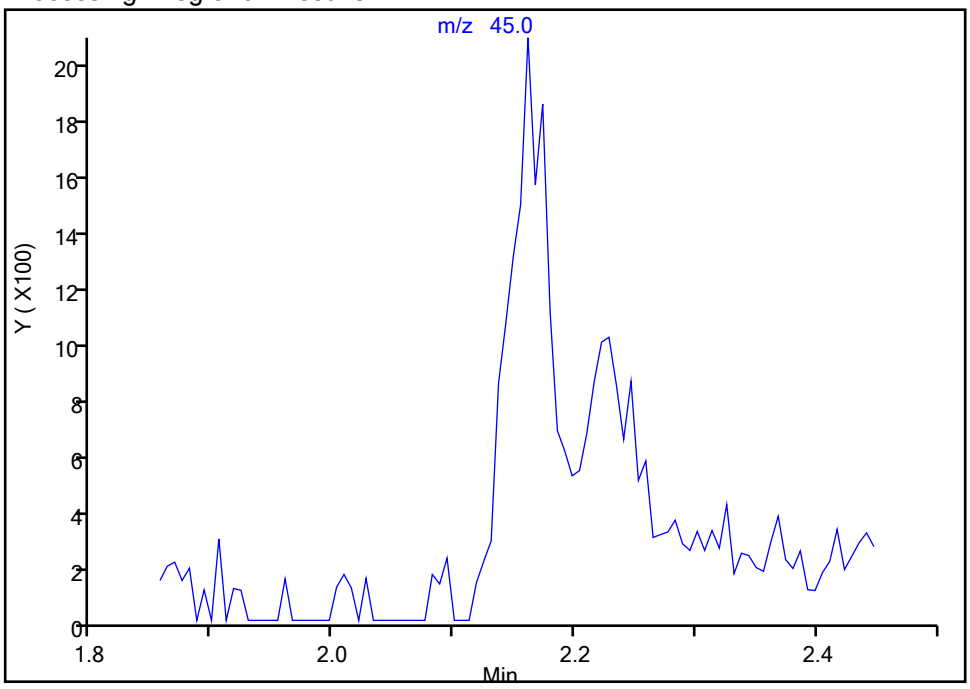
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

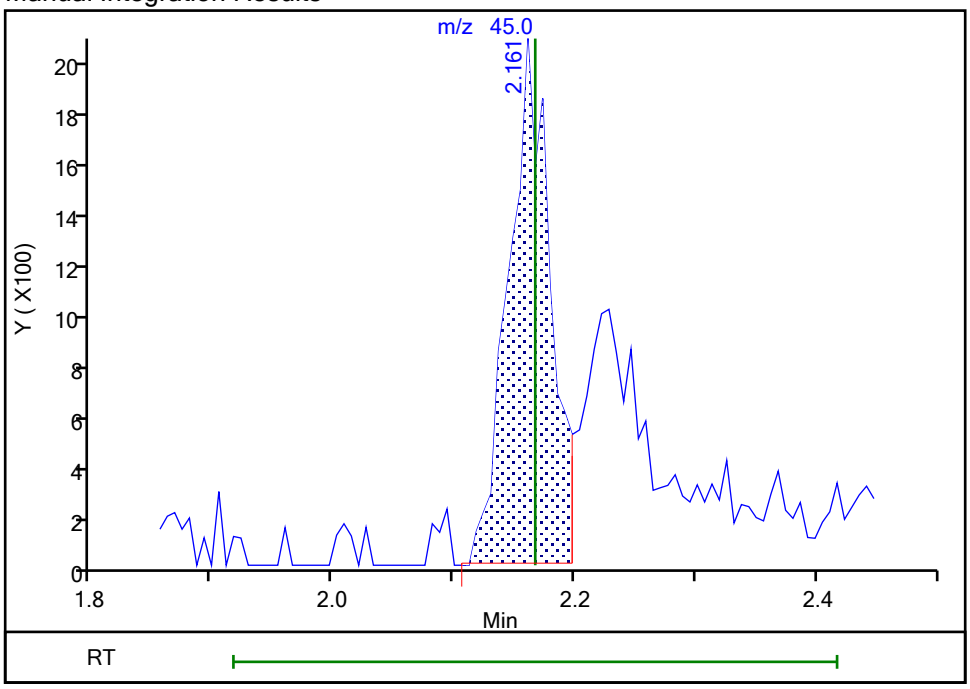
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 2.16
Area: 4848
Amount: 64.556477
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:41:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

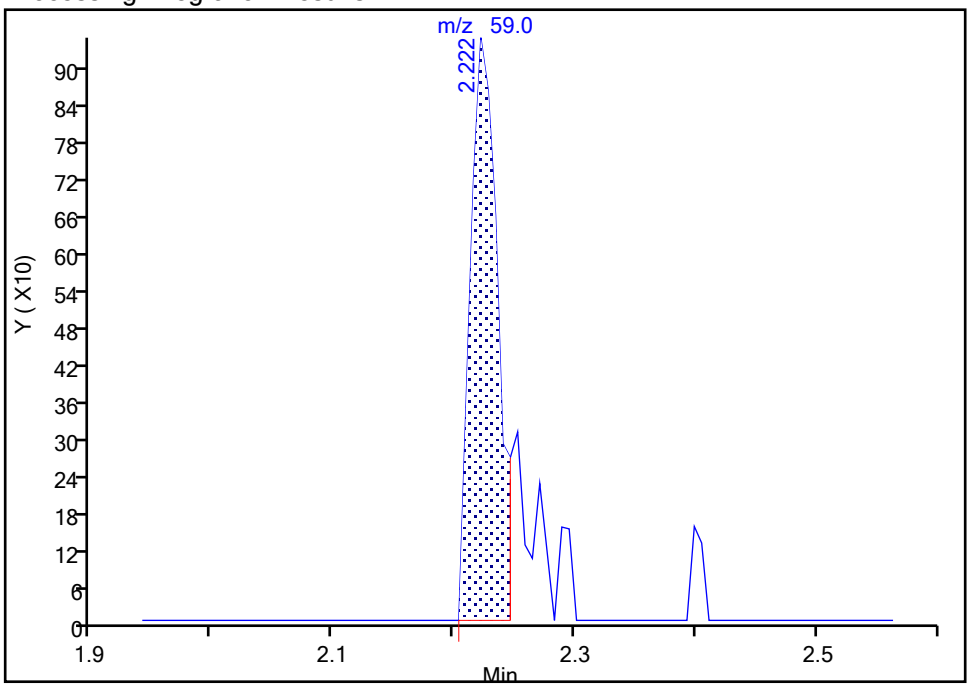
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

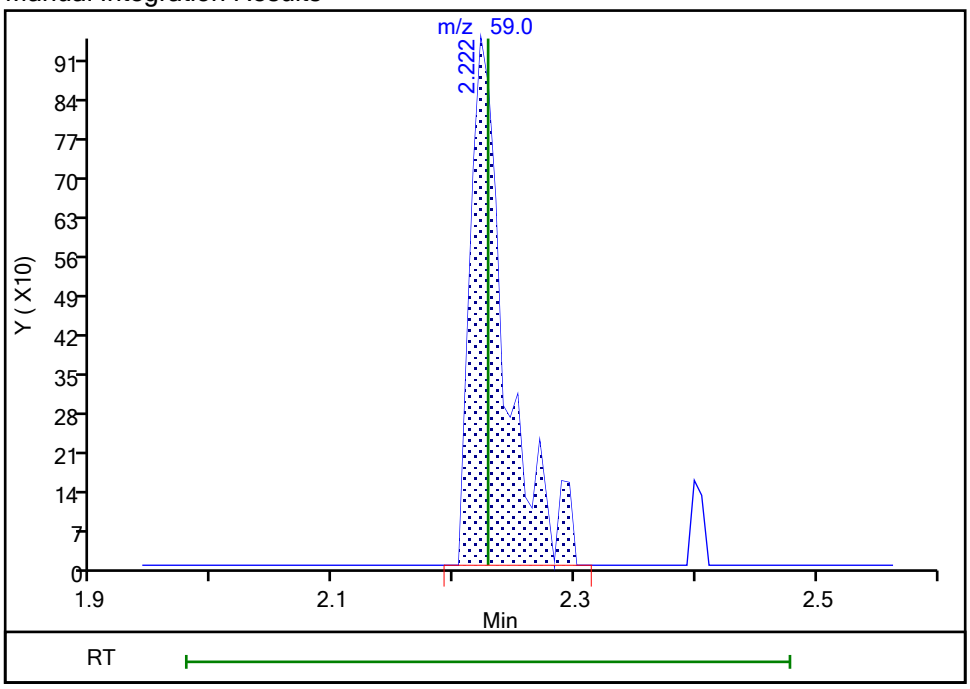
Processing Integration Results

RT: 2.22
Area: 1500
Amount: 1.055483
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 1927
Amount: 0.925183
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:41:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

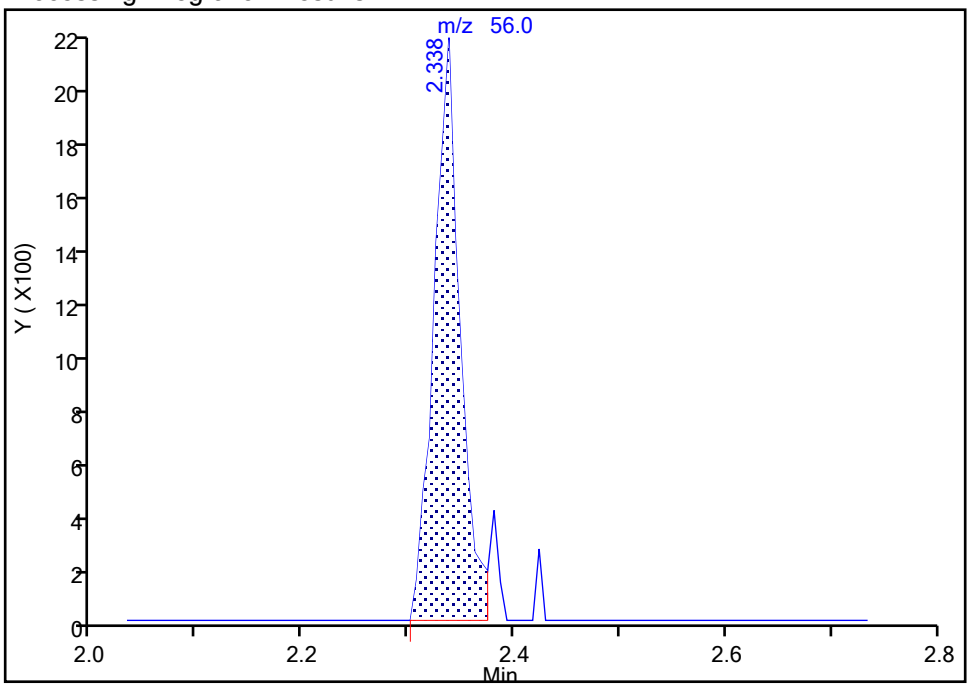
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

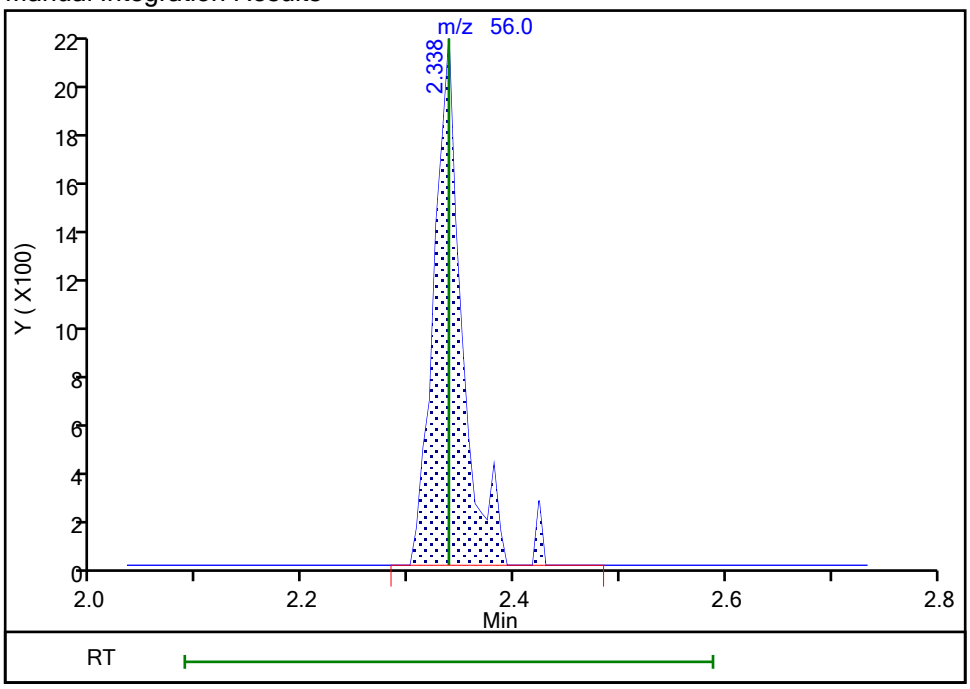
Processing Integration Results

RT: 2.34
Area: 3696
Amount: 6.164972
Amount Units: ug/l



Manual Integration Results

RT: 2.34
Area: 3991
Amount: 4.699736
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:41:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

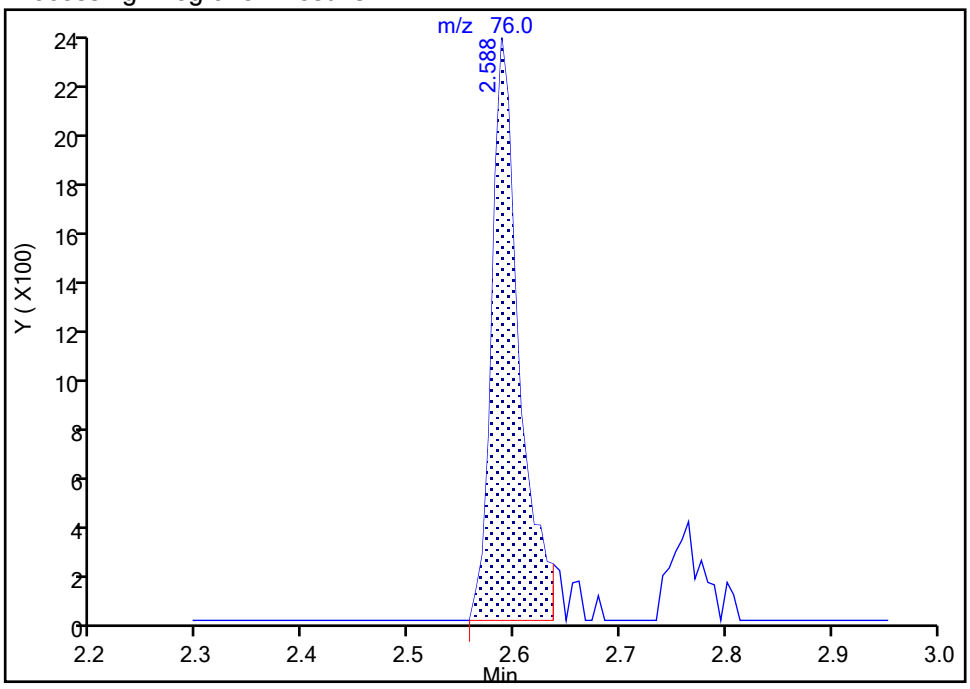
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

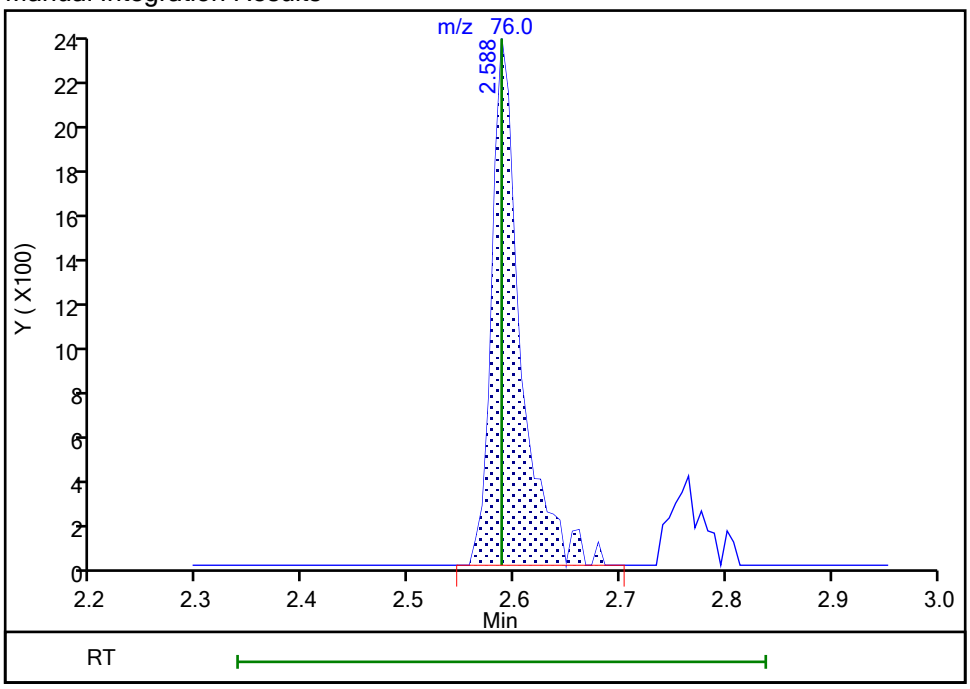
Processing Integration Results

RT: 2.59
Area: 4224
Amount: 1.100040
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 4448
Amount: 0.892970
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:41:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

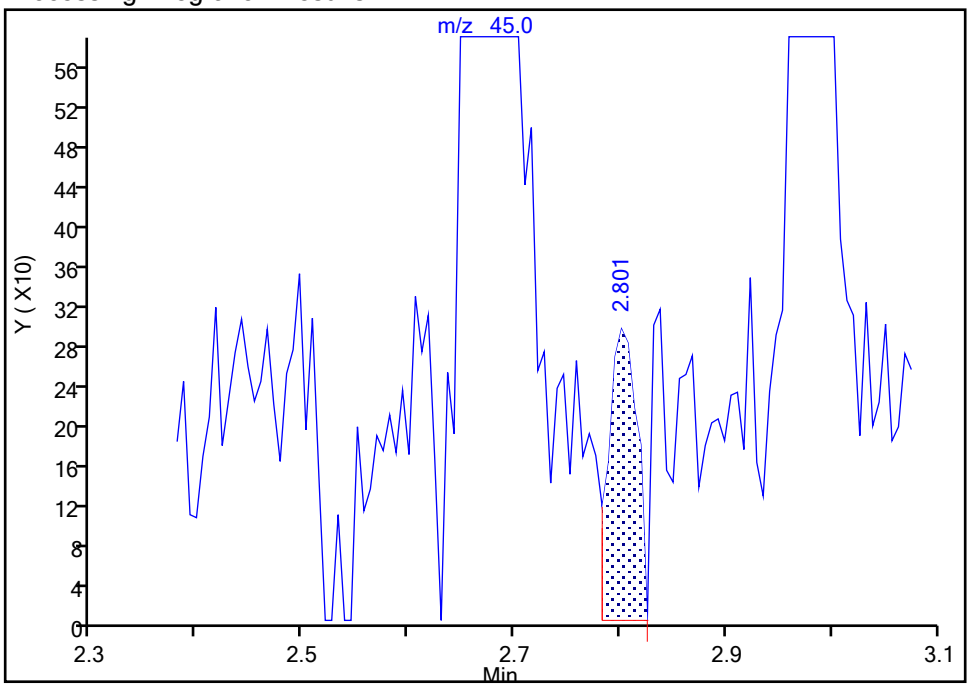
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

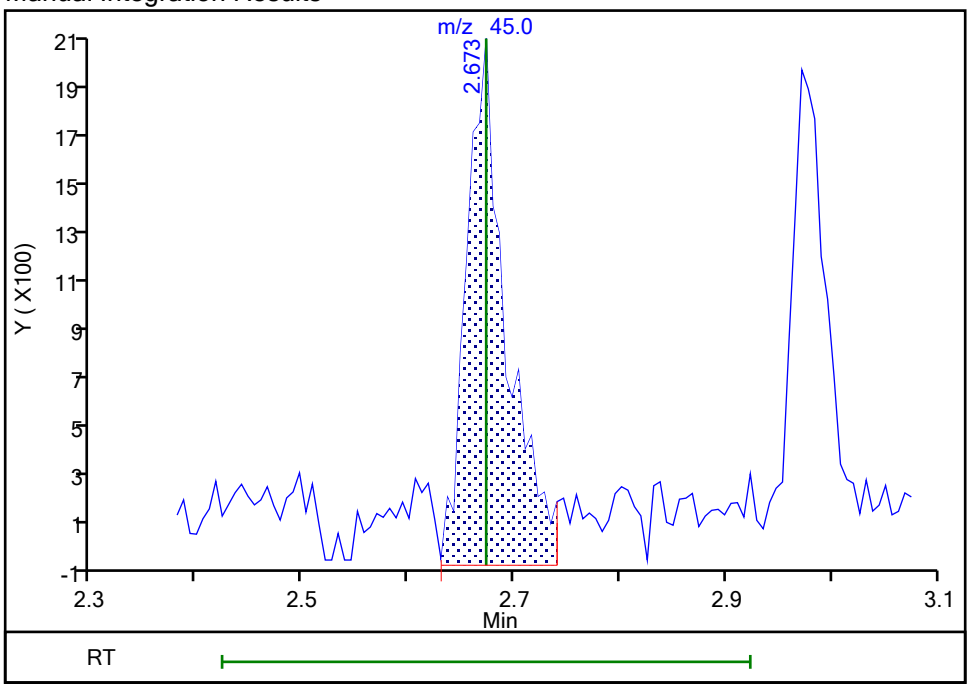
Processing Integration Results

RT: 2.80
Area: 553
Amount: 3.362754
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 5558
Amount: 17.375638
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:40:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

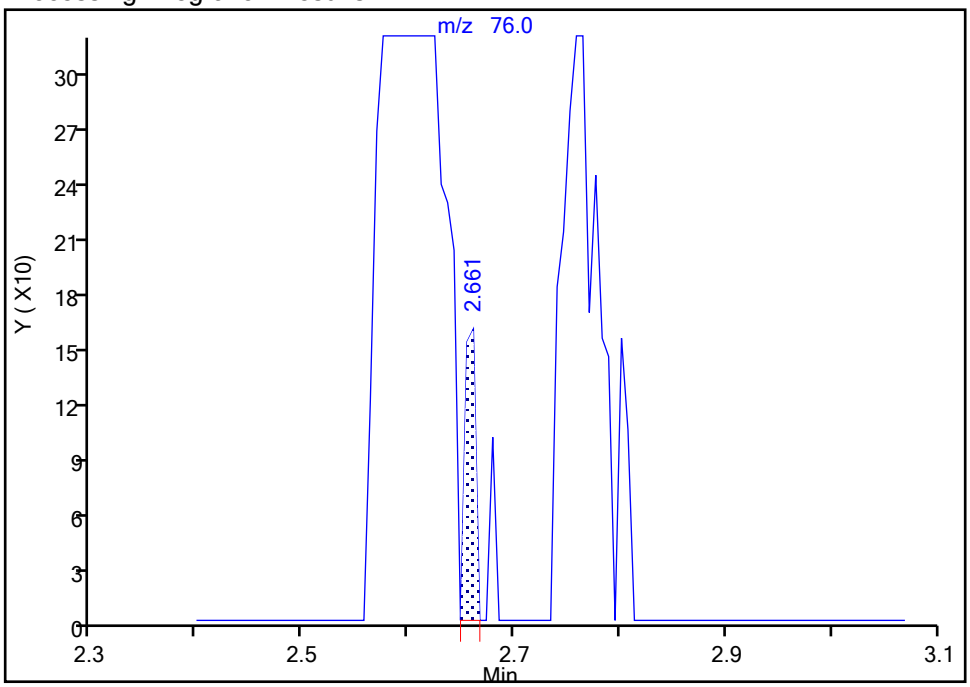
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

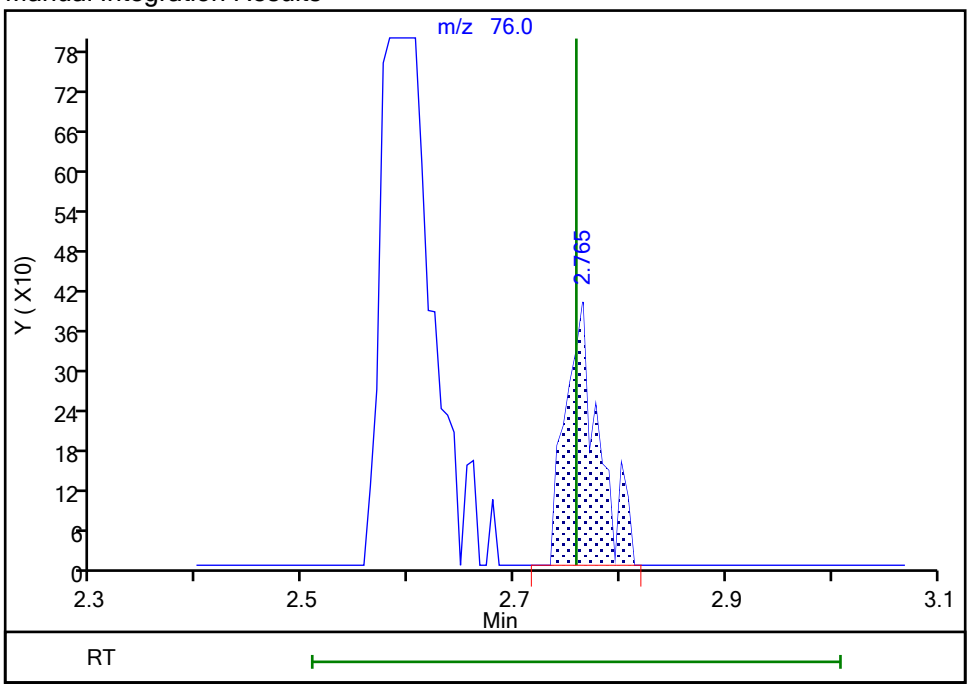
Processing Integration Results

RT: 2.66
Area: 114
Amount: 0.270477
Amount Units: ug/l



Manual Integration Results

RT: 2.76
Area: 866
Amount: 1.099243
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:40:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

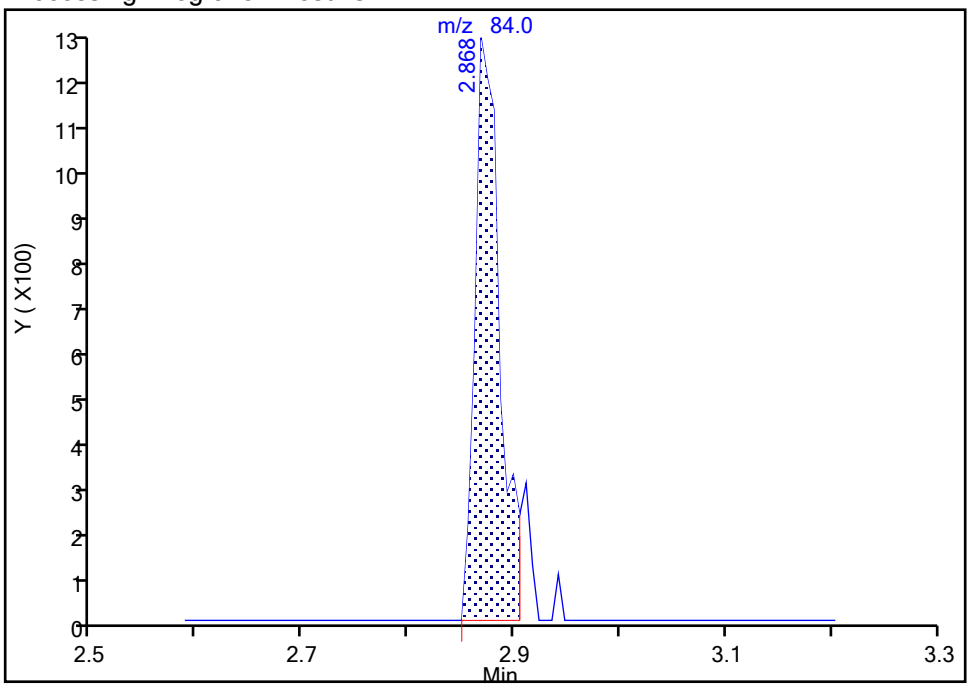
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

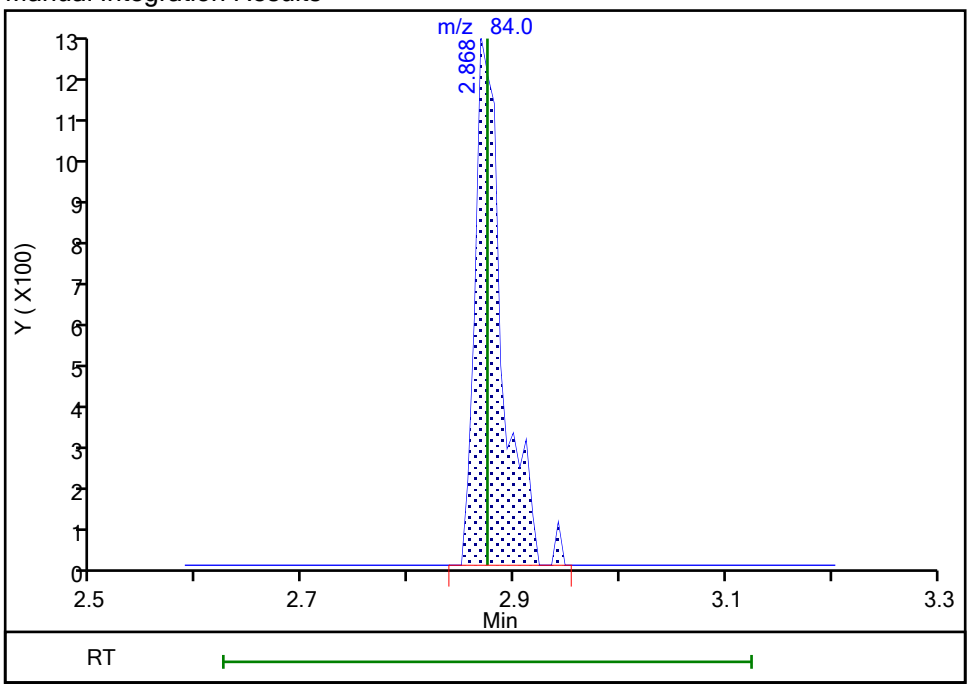
Processing Integration Results

RT: 2.87
Area: 2107
Amount: 1.289432
Amount Units: ug/l



Manual Integration Results

RT: 2.87
Area: 2299
Amount: 1.140487
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:40:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

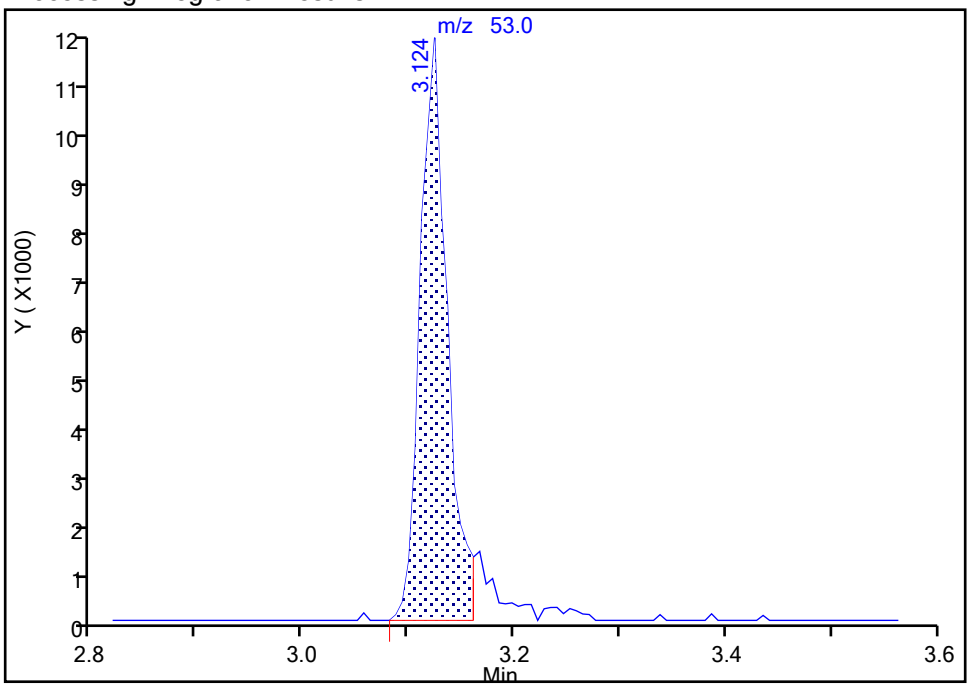
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

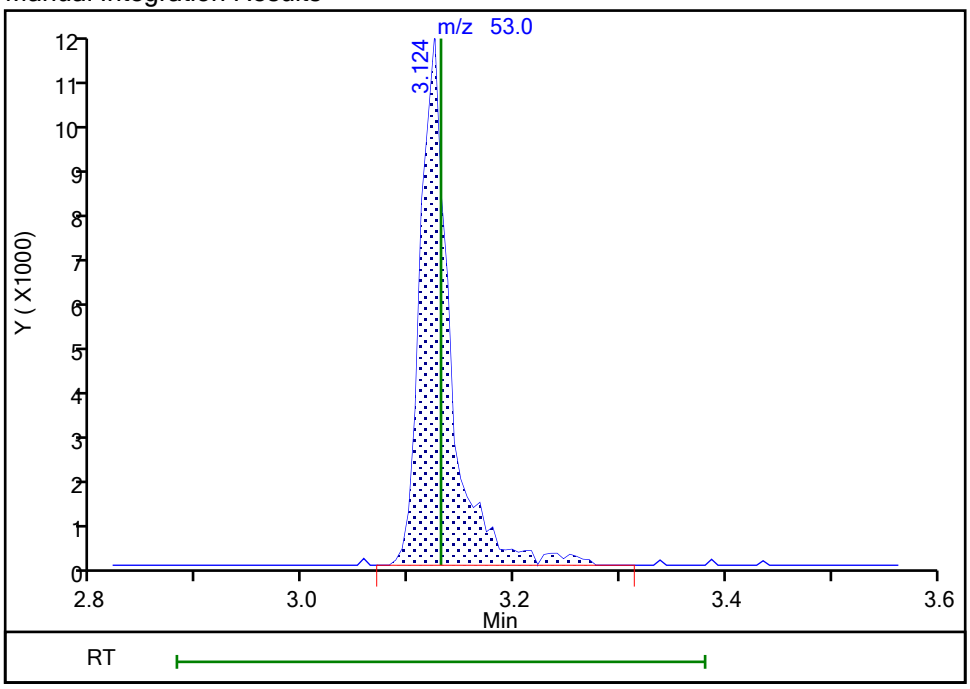
Processing Integration Results

RT: 3.12
Area: 20863
Amount: 11.751707
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 23238
Amount: 11.707050
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:40:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

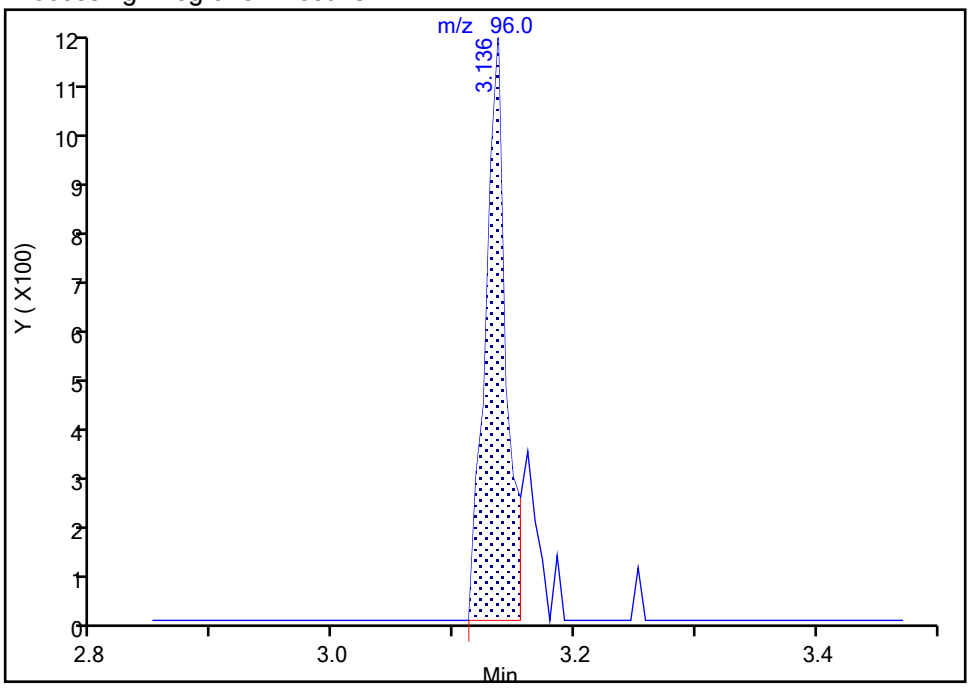
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

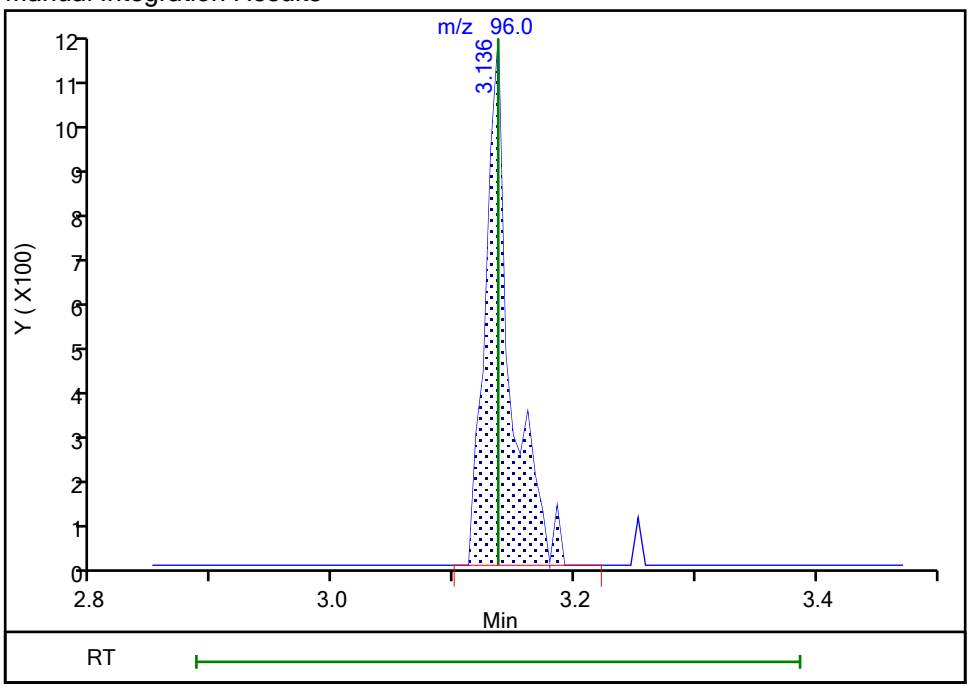
Processing Integration Results

RT: 3.14
Area: 1430
Amount: 1.032542
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 1725
Amount: 0.840966
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:40:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

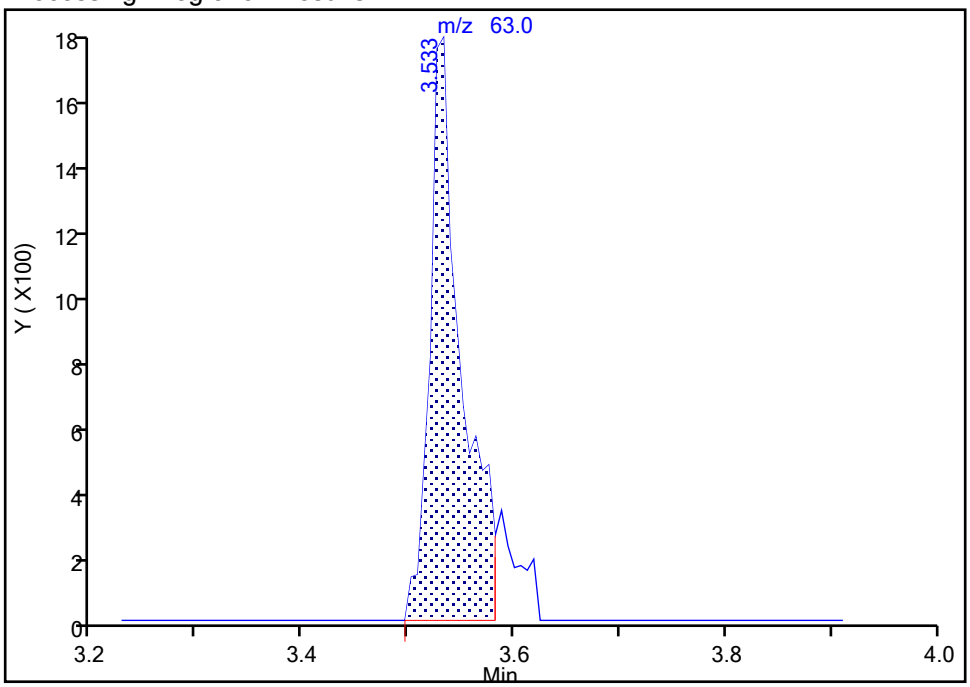
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

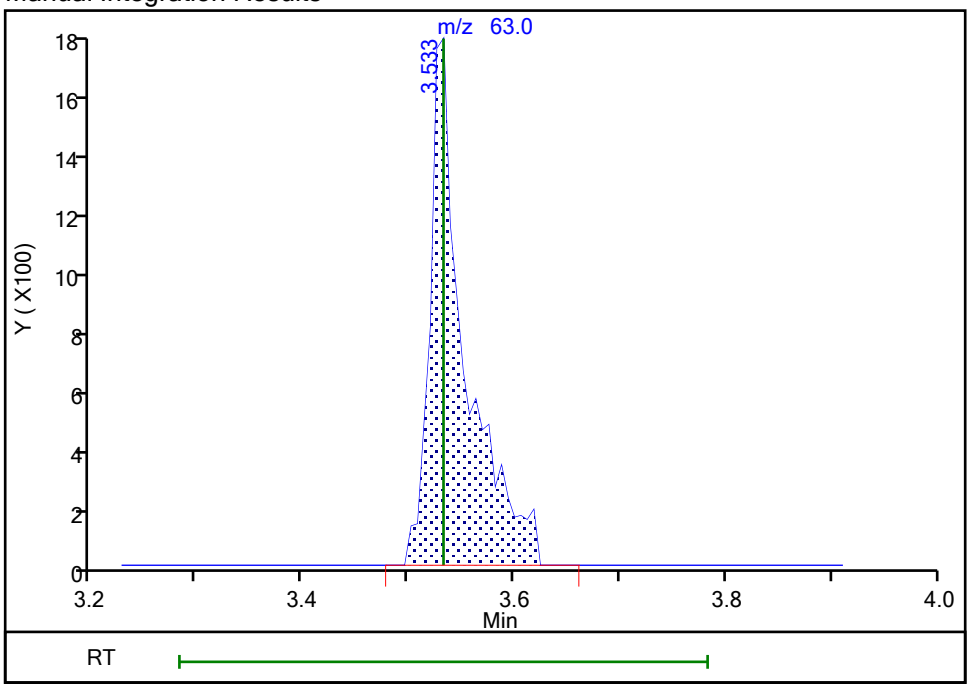
Processing Integration Results

RT: 3.53
Area: 3560
Amount: 1.112880
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 3996
Amount: 0.862270
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:40:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

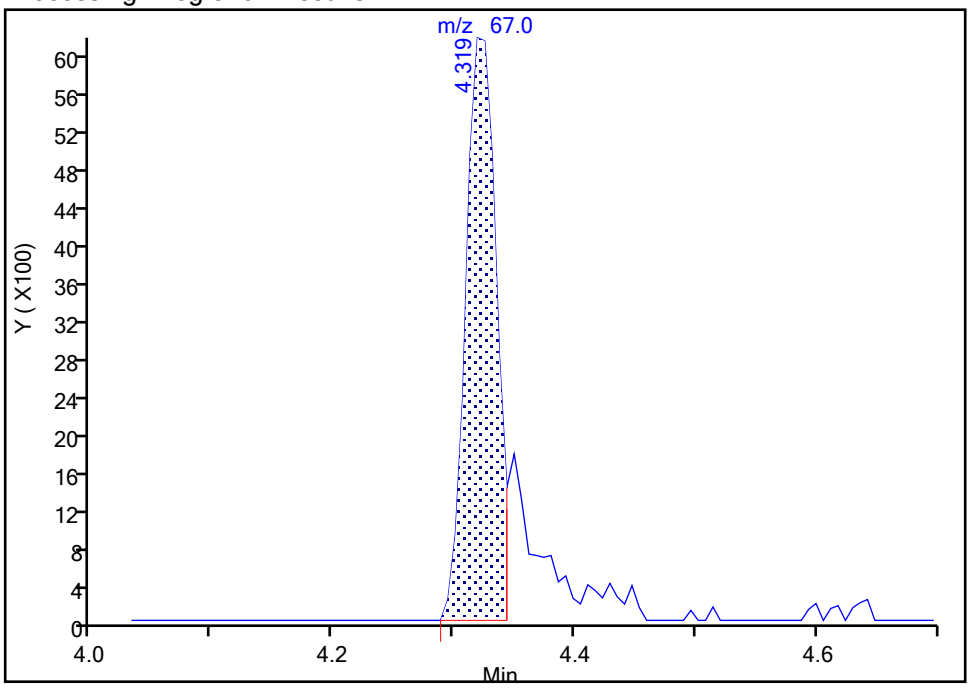
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

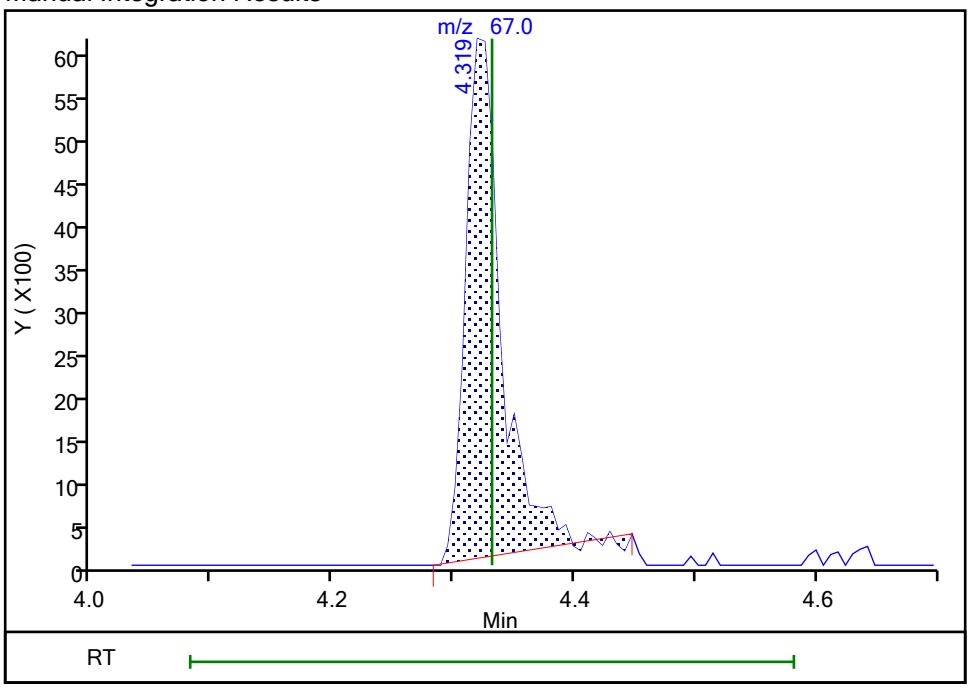
Processing Integration Results

RT: 4.32
Area: 10835
Amount: 12.366691
Amount Units: ug/l



Manual Integration Results

RT: 4.32
Area: 12295
Amount: 10.773178
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

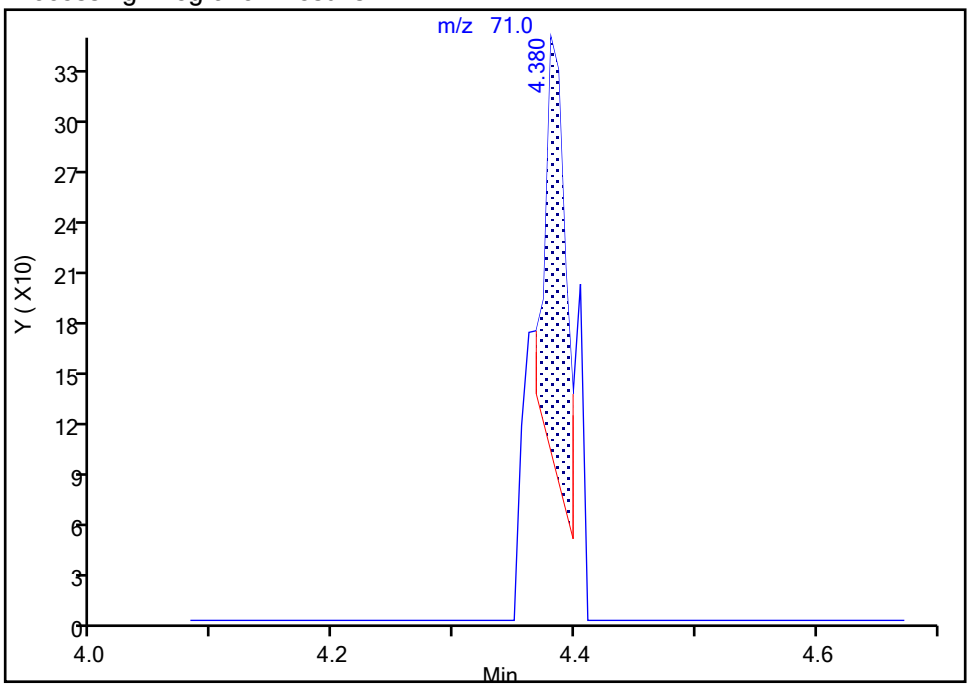
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

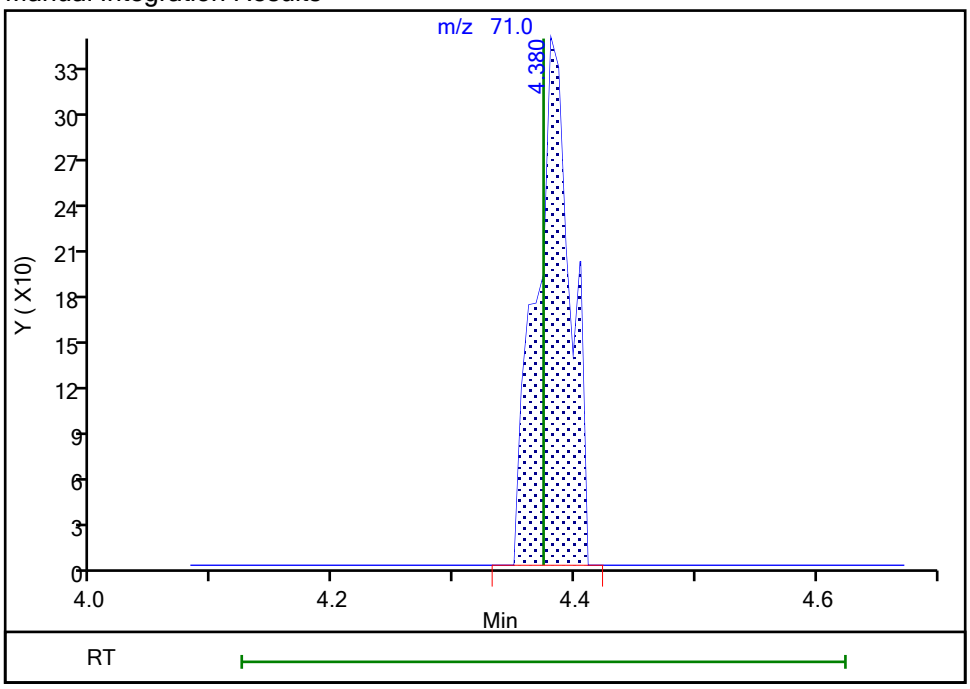
Processing Integration Results

RT: 4.38
Area: 308
Amount: 1.813161
Amount Units: ug/l



Manual Integration Results

RT: 4.38
Area: 691
Amount: 2.495331
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

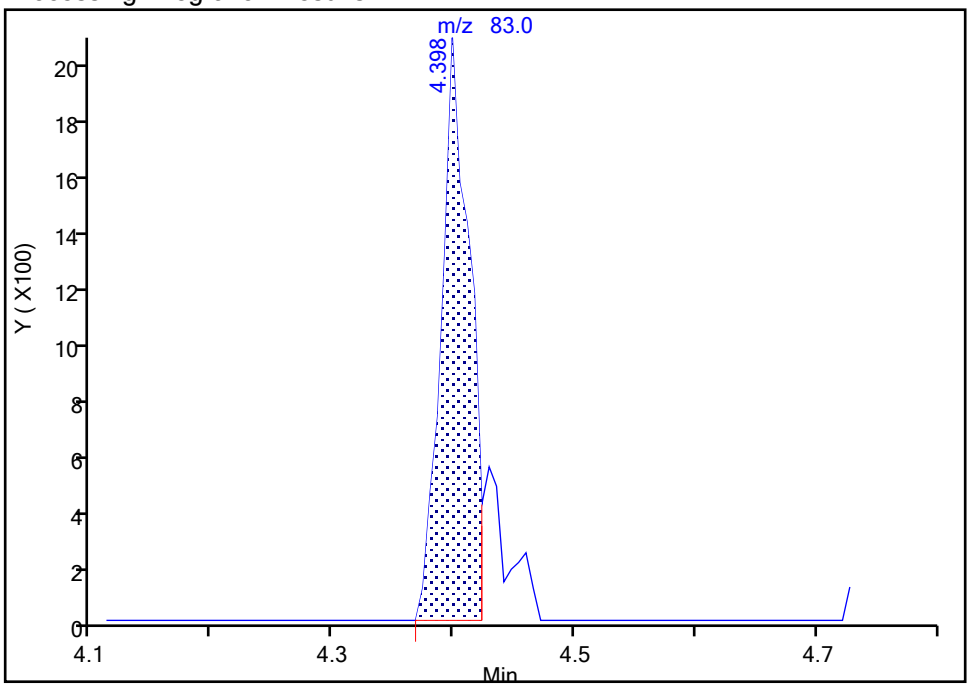
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

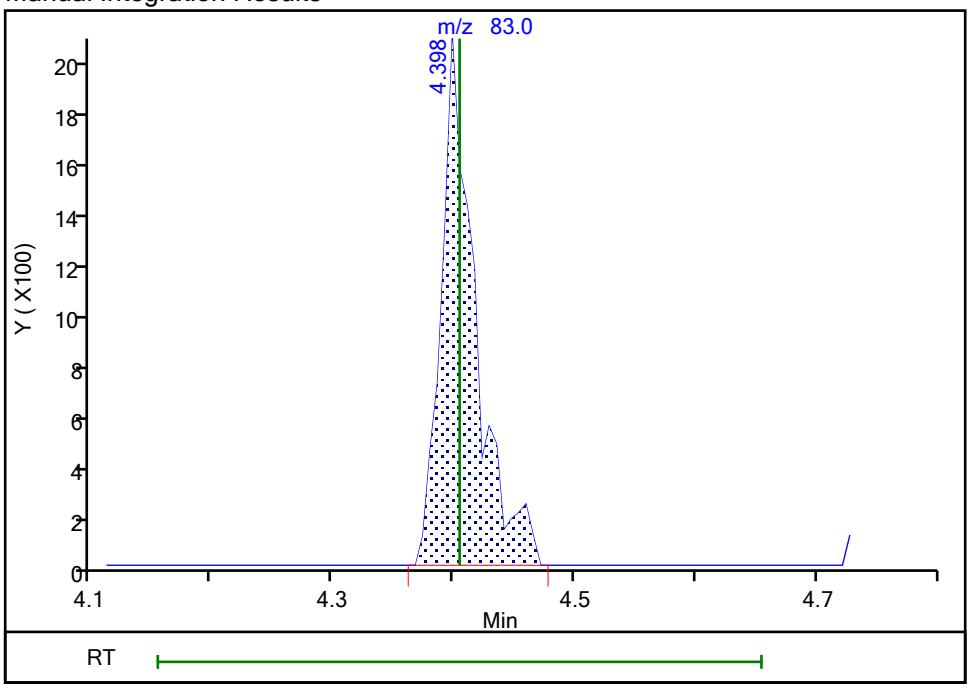
Processing Integration Results

RT: 4.40
Area: 3336
Amount: 1.045342
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 4022
Amount: 1.099291
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

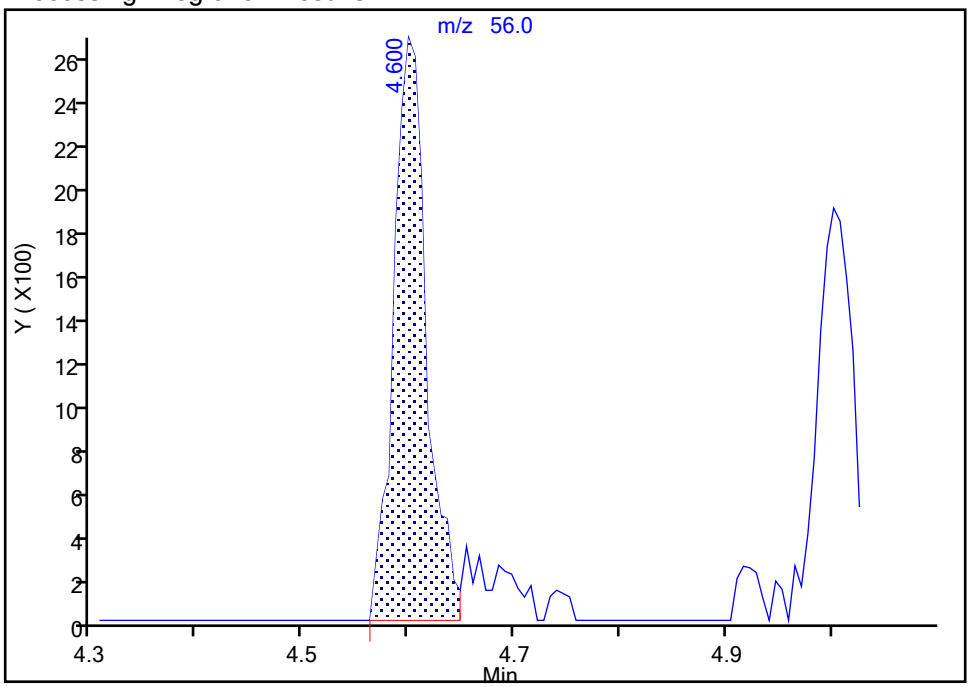
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

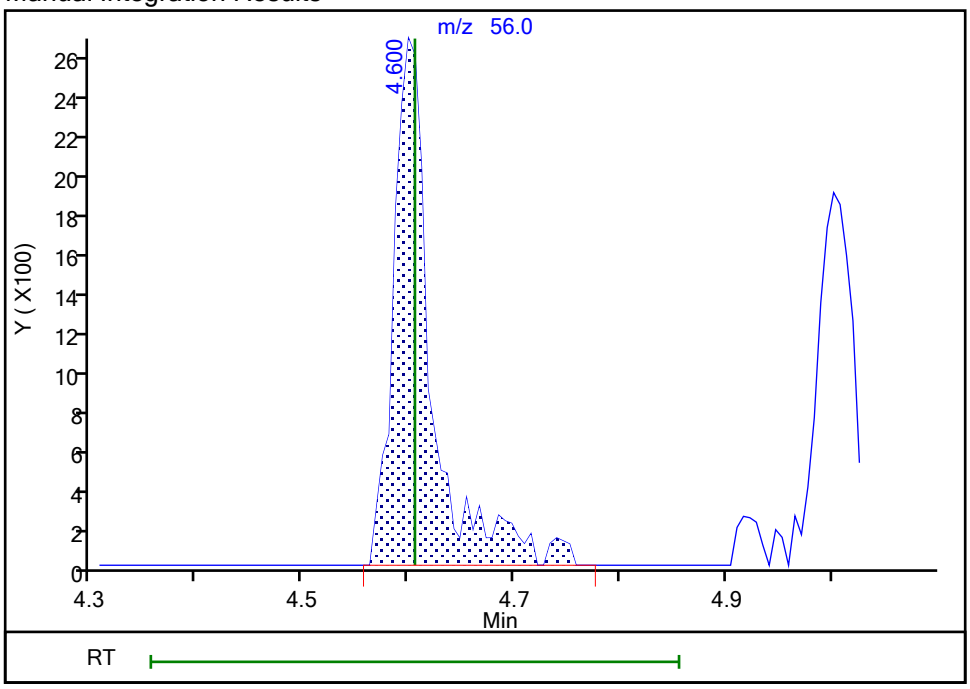
Processing Integration Results

RT: 4.60
Area: 5628
Amount: 1.225558
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 6579
Amount: 1.089211
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

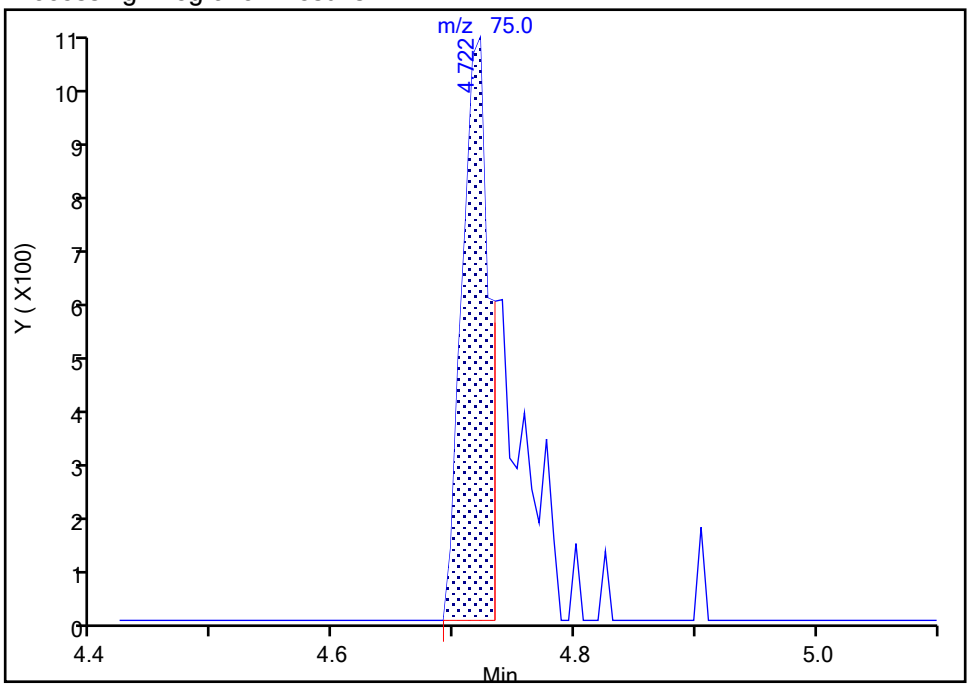
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

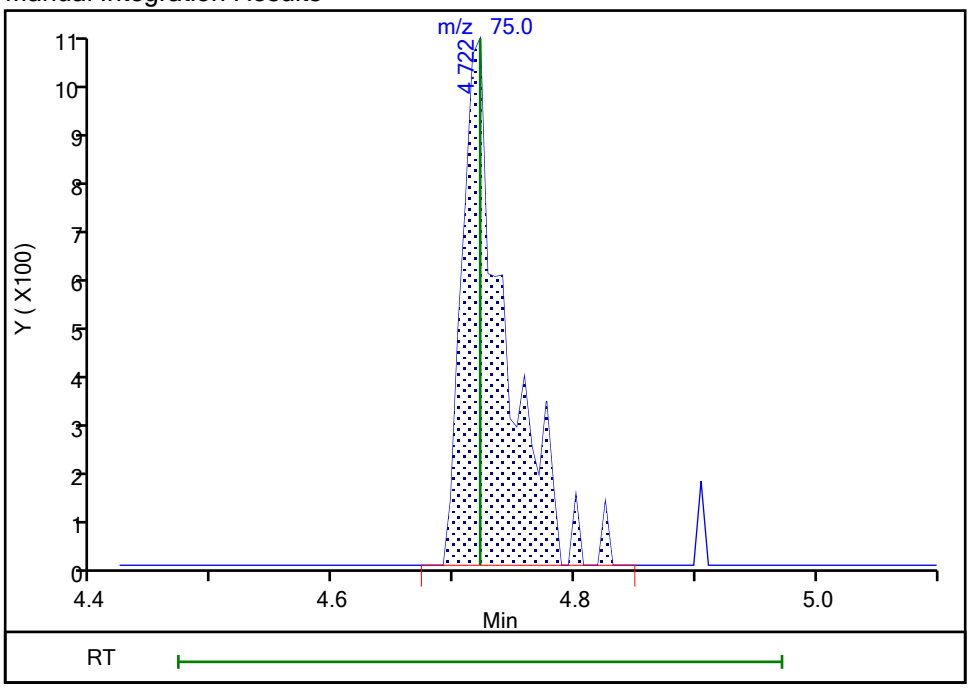
Processing Integration Results

RT: 4.72
Area: 1695
Amount: 0.964111
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 2689
Amount: 0.962572
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

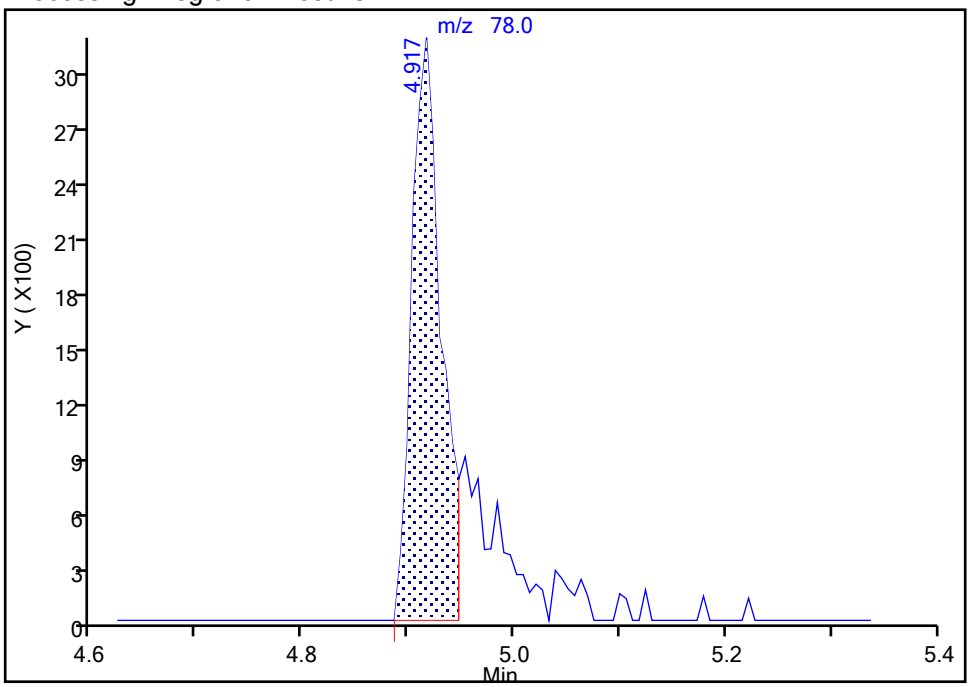
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

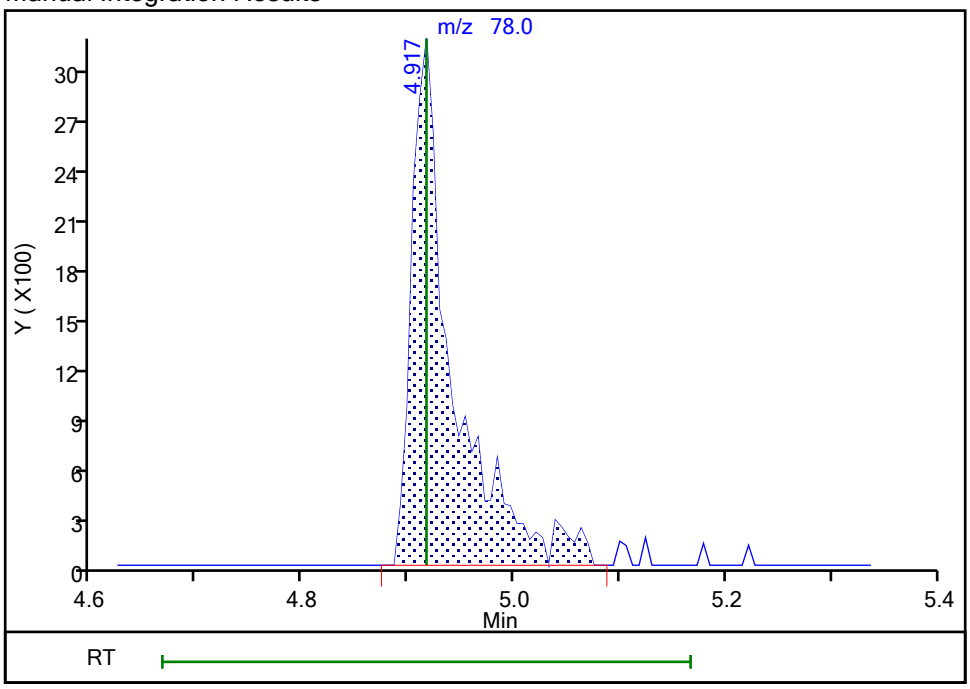
Processing Integration Results

RT: 4.92
Area: 6037
Amount: 1.005766
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 8419
Amount: 1.011723
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

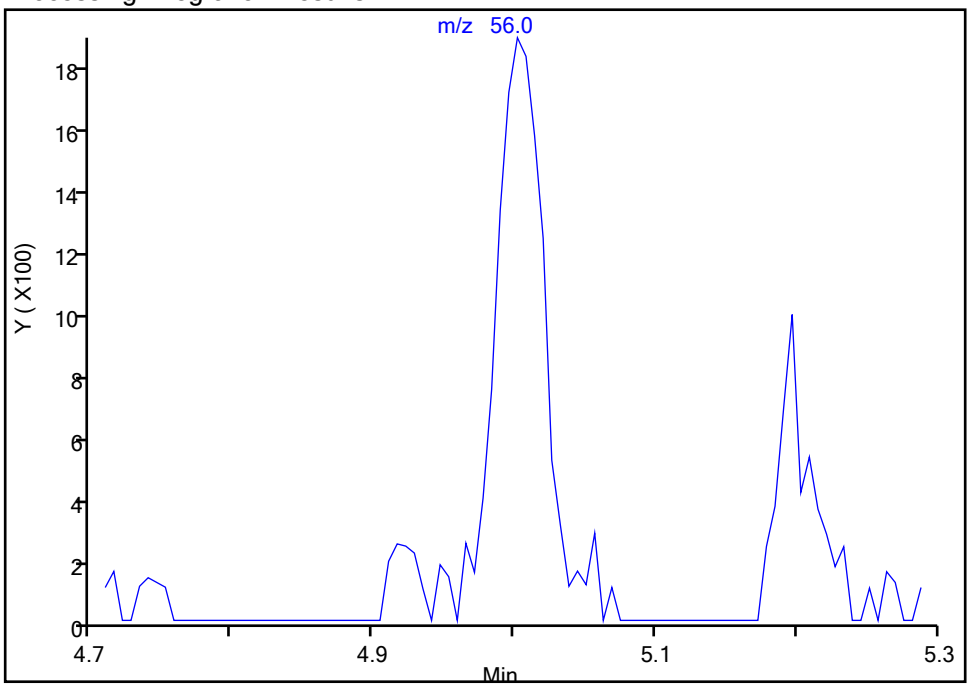
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

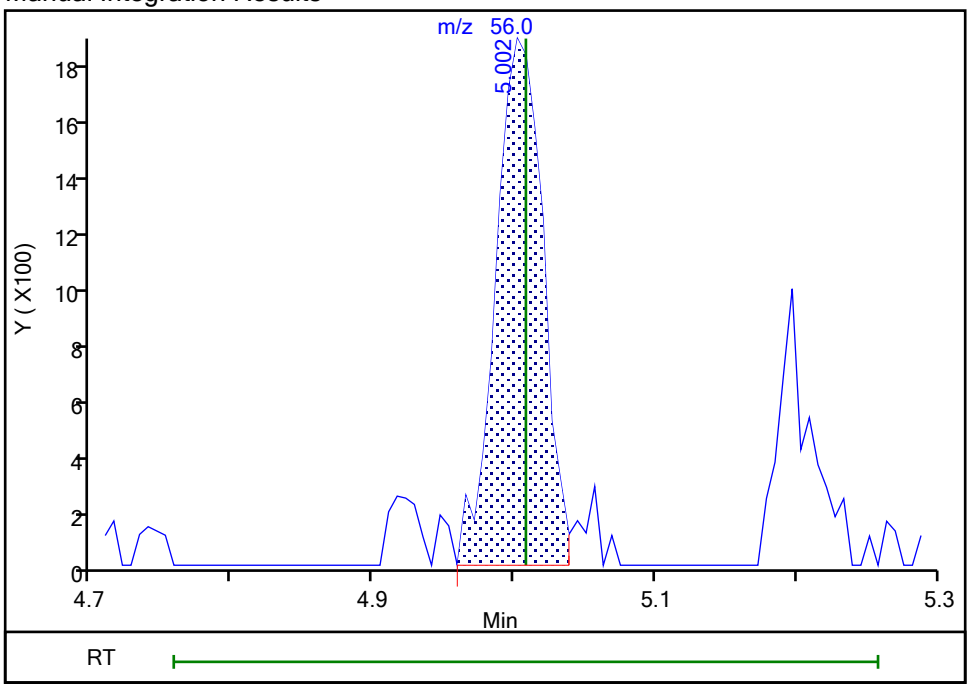
Not Detected
Expected RT: 5.01

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 4307
Amount: 26.977349
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:22
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

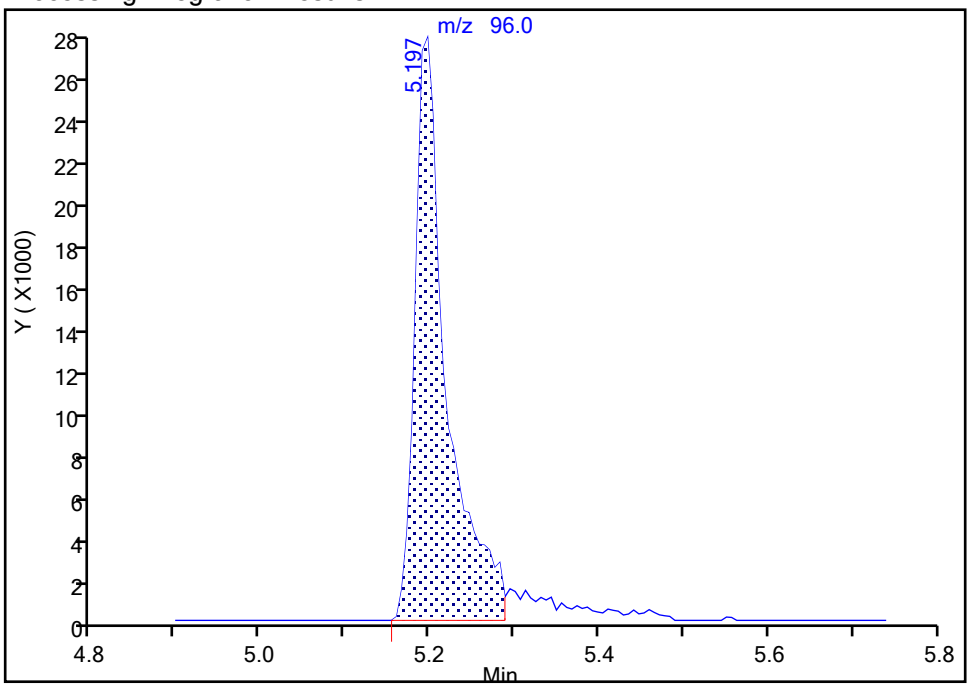
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

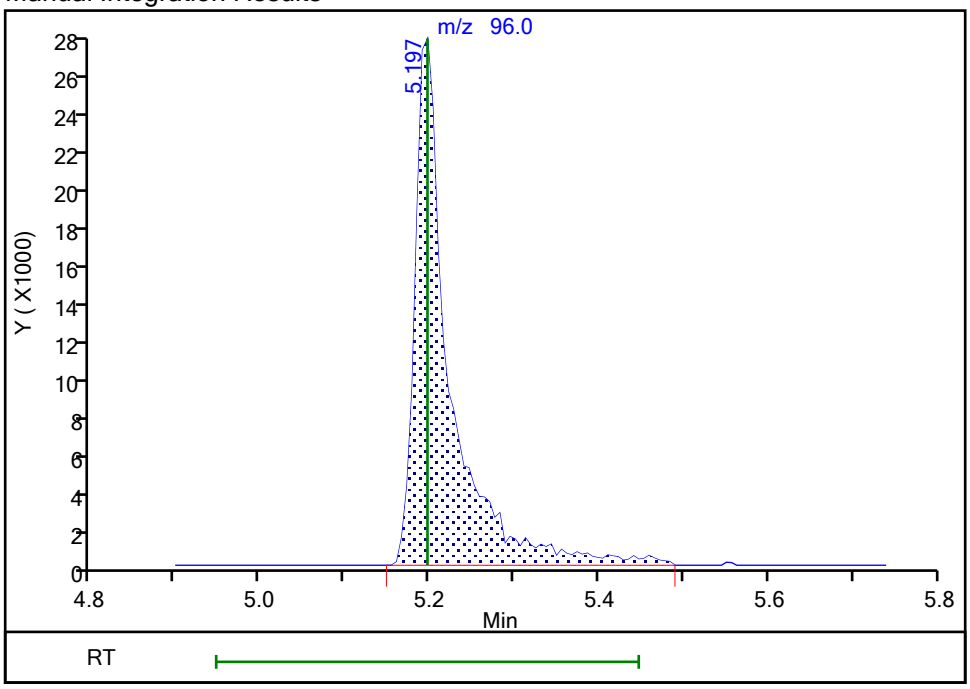
Processing Integration Results

RT: 5.20
Area: 72642
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 80270
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:41:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

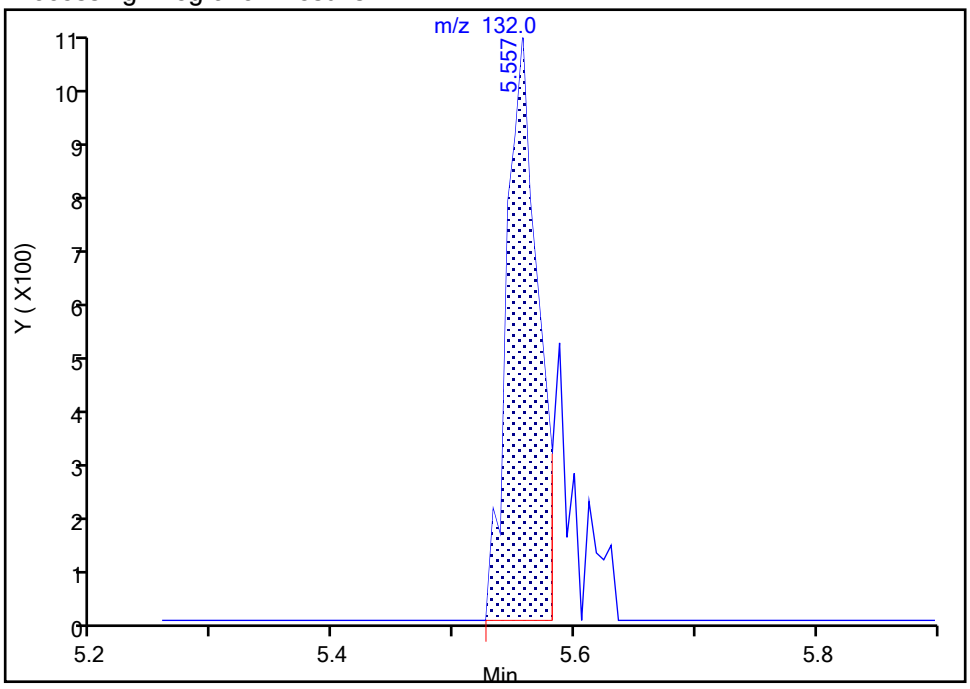
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

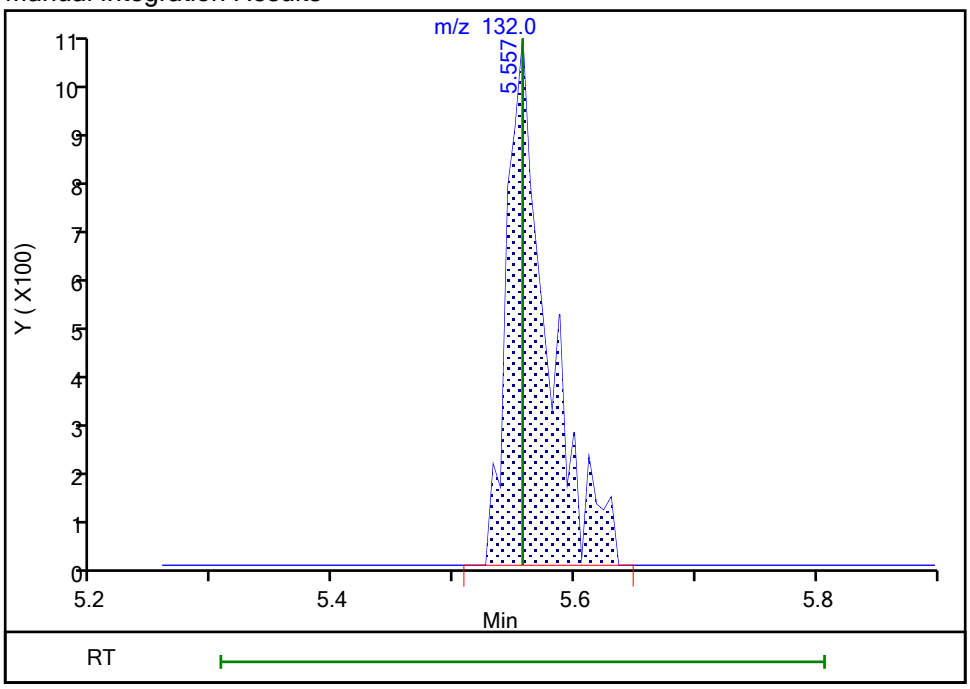
Processing Integration Results

RT: 5.56
Area: 1811
Amount: 1.047804
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 2337
Amount: 0.940315
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

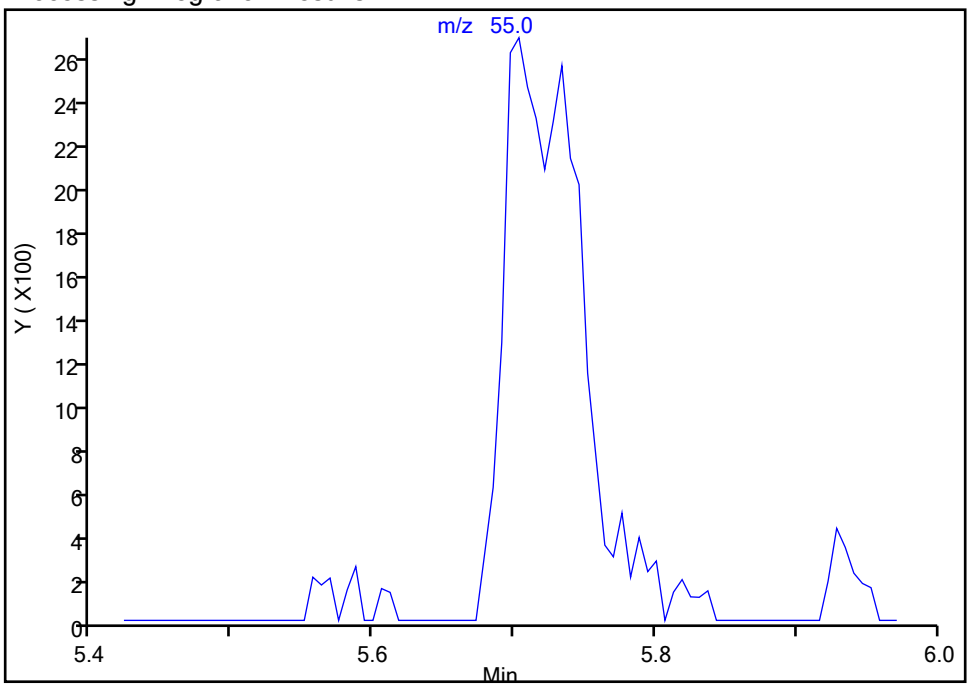
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

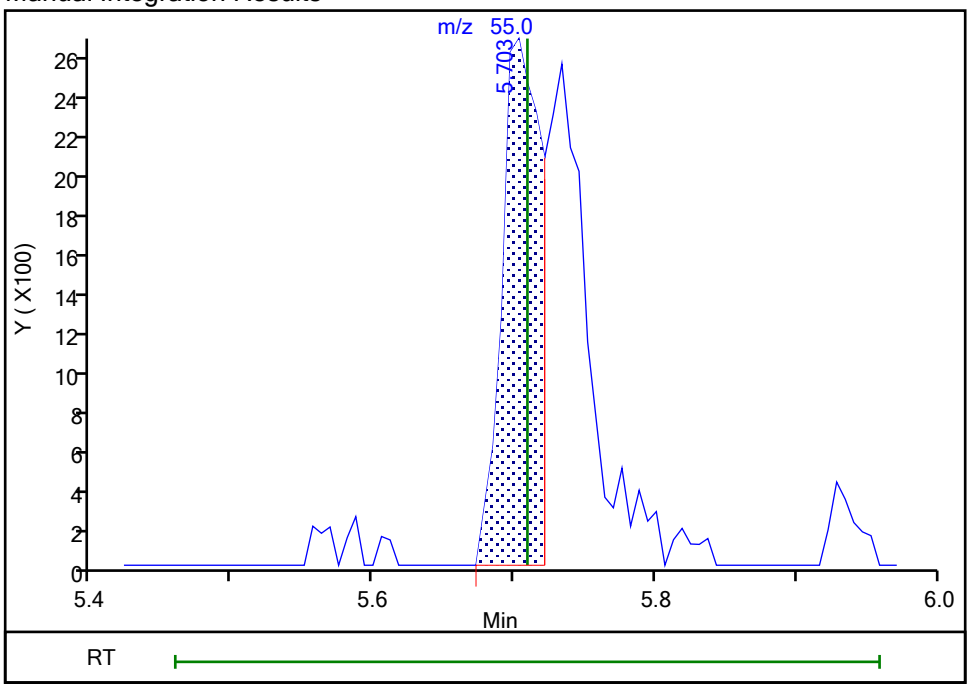
Not Detected
Expected RT: 5.71

Processing Integration Results



Manual Integration Results

RT: 5.70
Area: 5085
Amount: 1.553325
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:09
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

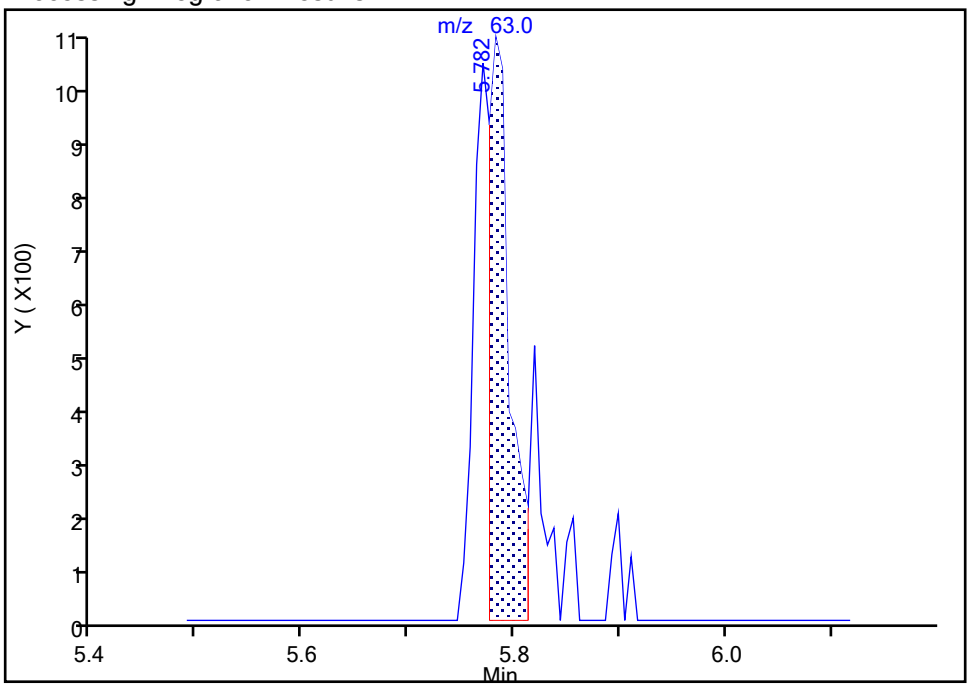
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

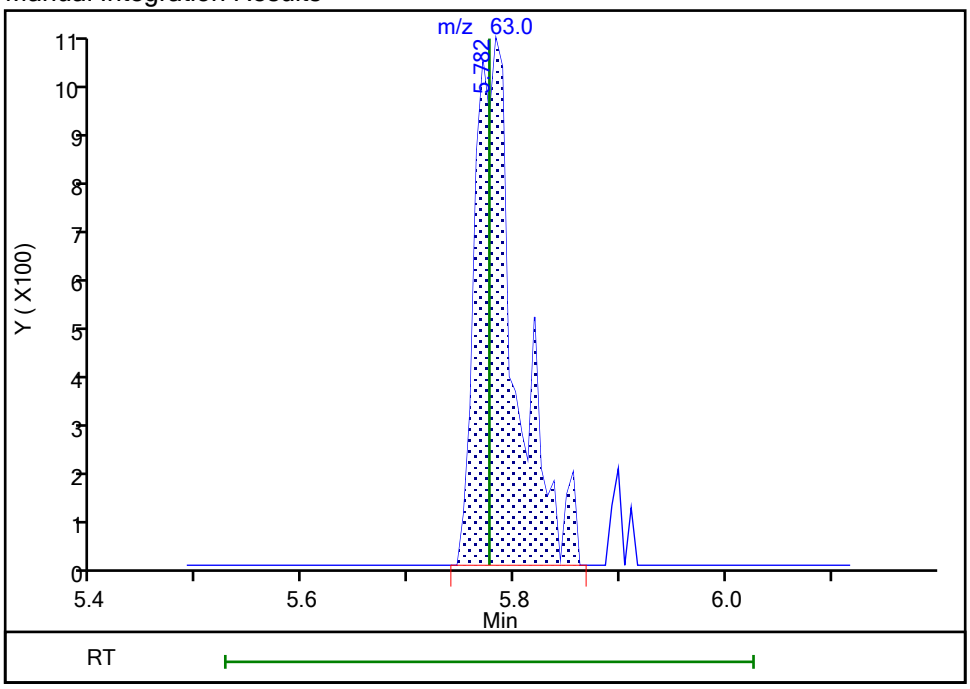
Processing Integration Results

RT: 5.78
Area: 1488
Amount: 0.931303
Amount Units: ug/l



Manual Integration Results

RT: 5.78
Area: 2771
Amount: 1.114867
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:39:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

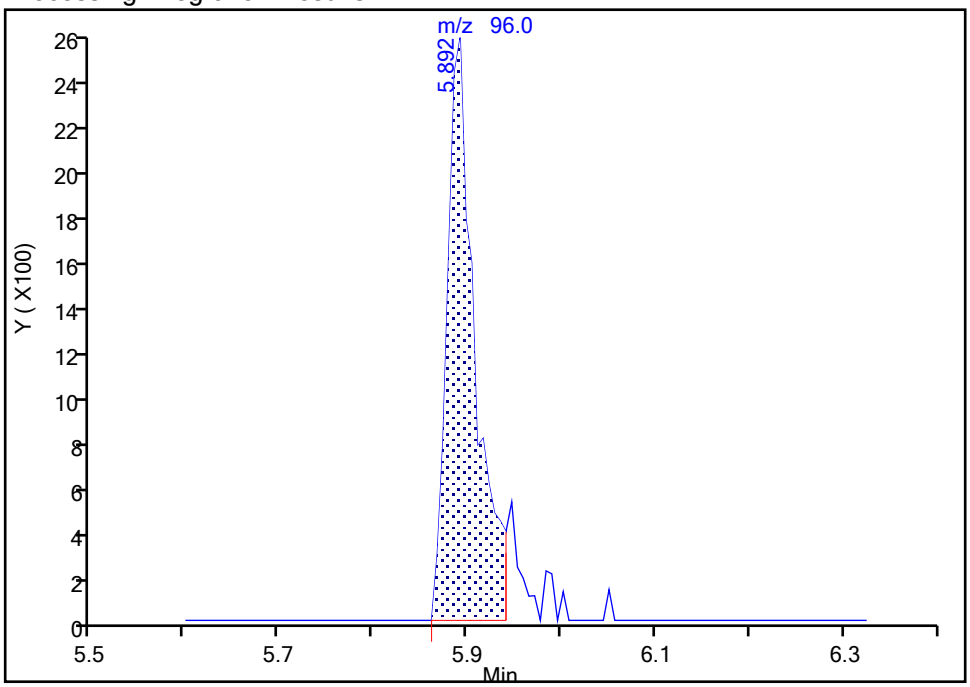
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

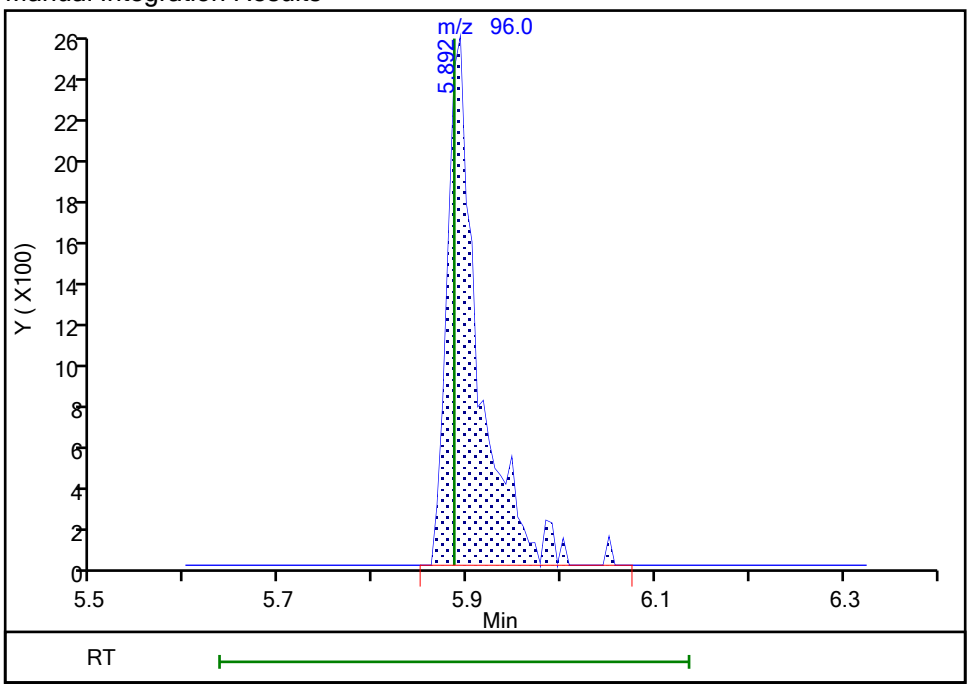
Processing Integration Results

RT: 5.89
Area: 5327
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 6004
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:41:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

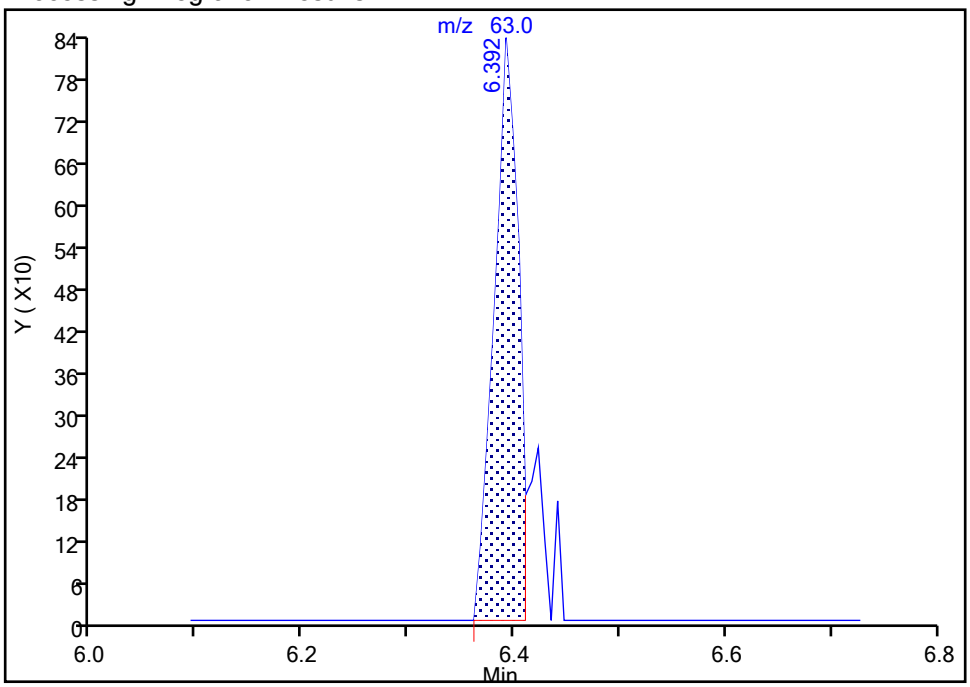
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

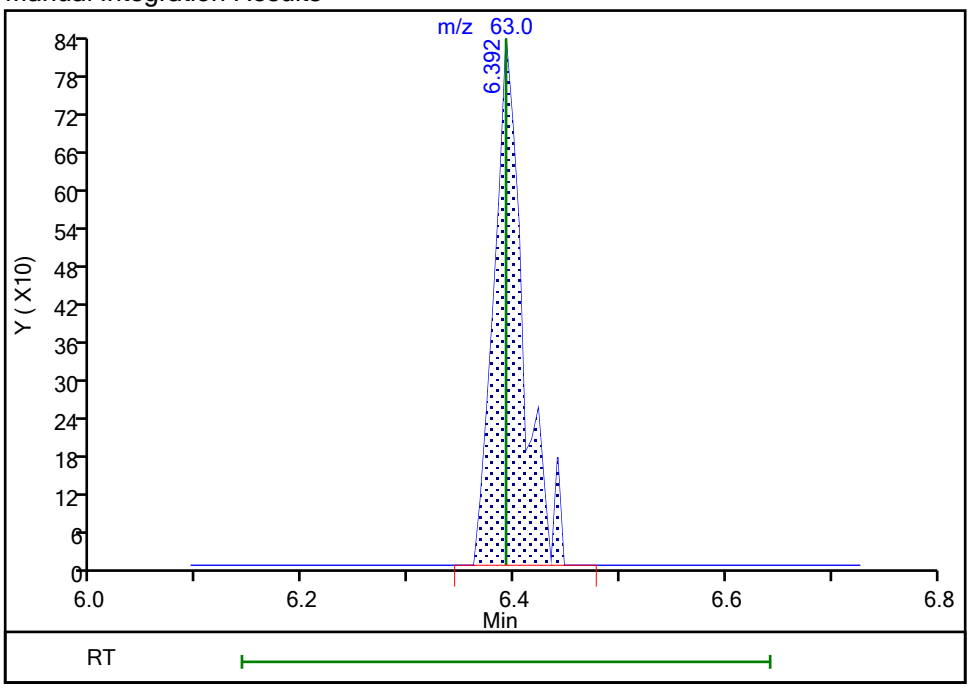
Processing Integration Results

RT: 6.39
Area: 1323
Amount: 1.272413
Amount Units: ug/l



Manual Integration Results

RT: 6.39
Area: 1591
Amount: 1.020131
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:38:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

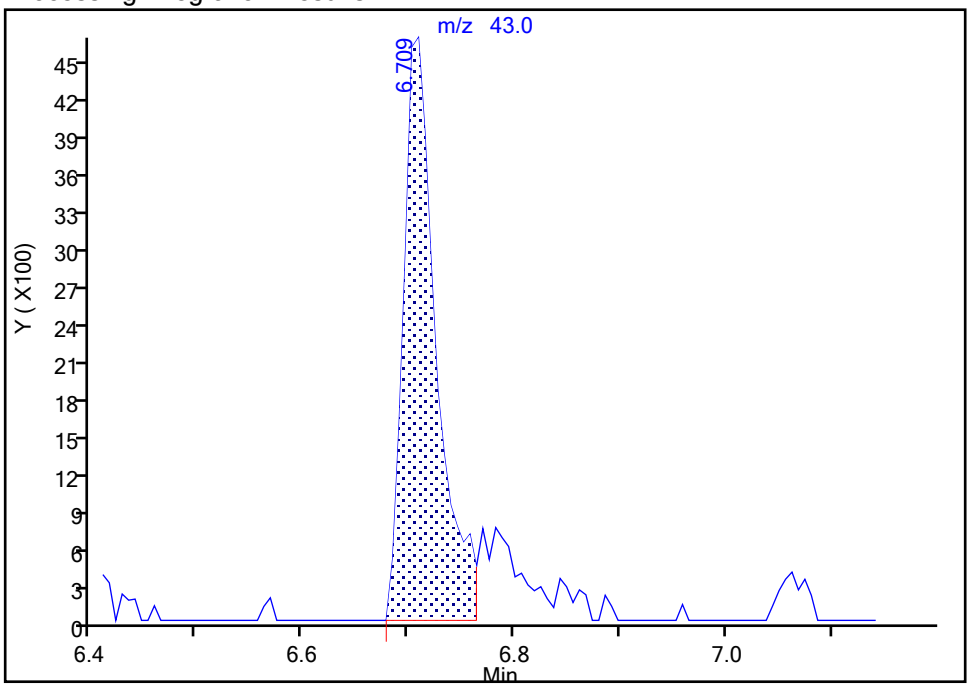
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

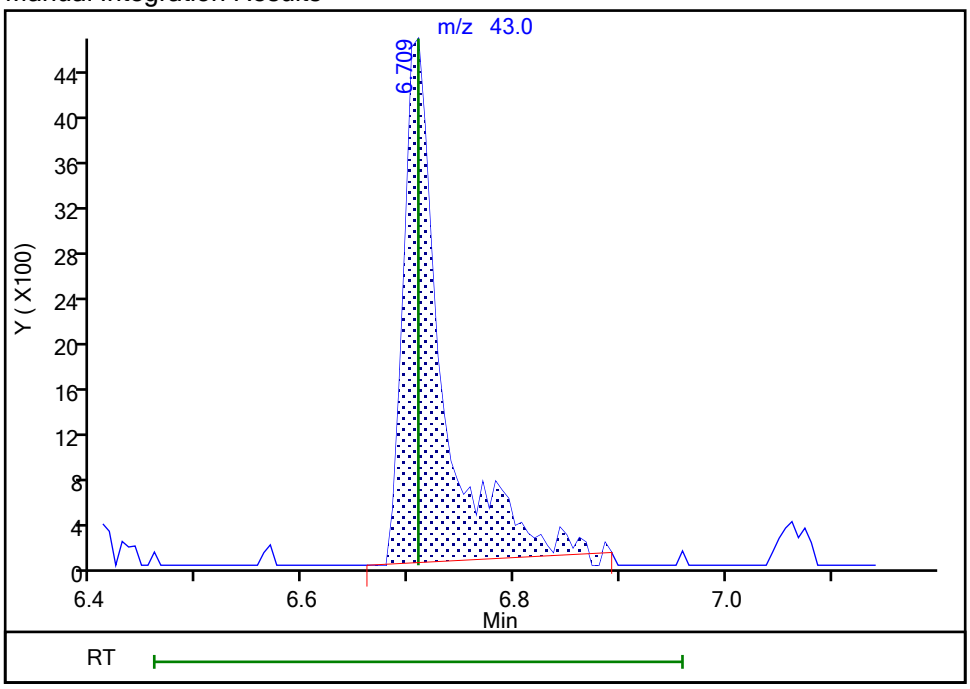
Processing Integration Results

RT: 6.71
Area: 10005
Amount: 2.961109
Amount Units: ug/l



Manual Integration Results

RT: 6.71
Area: 11569
Amount: 2.727312
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:38:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

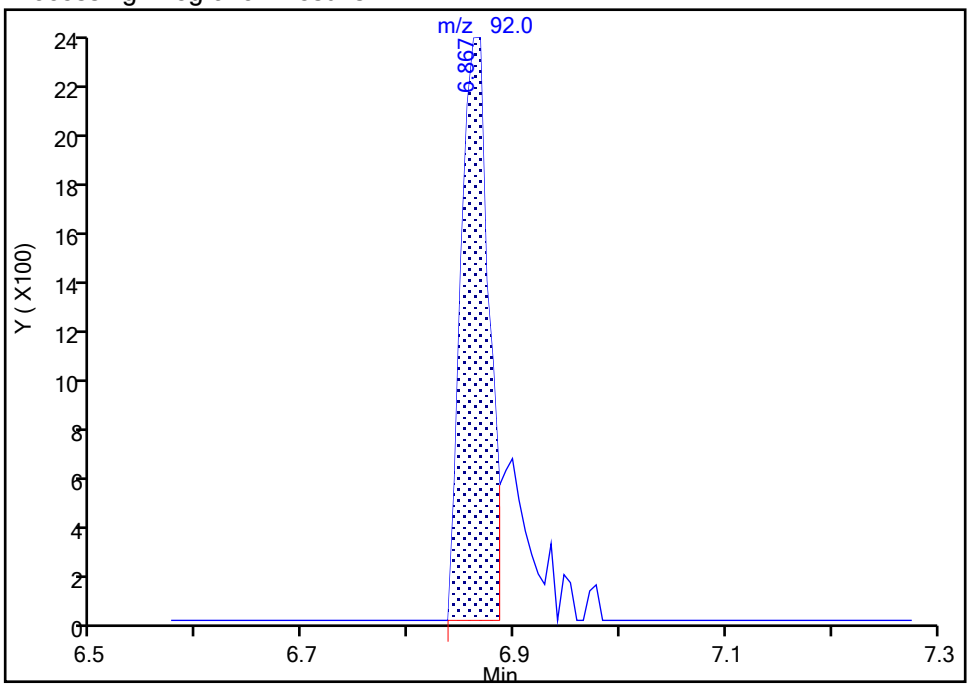
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 1

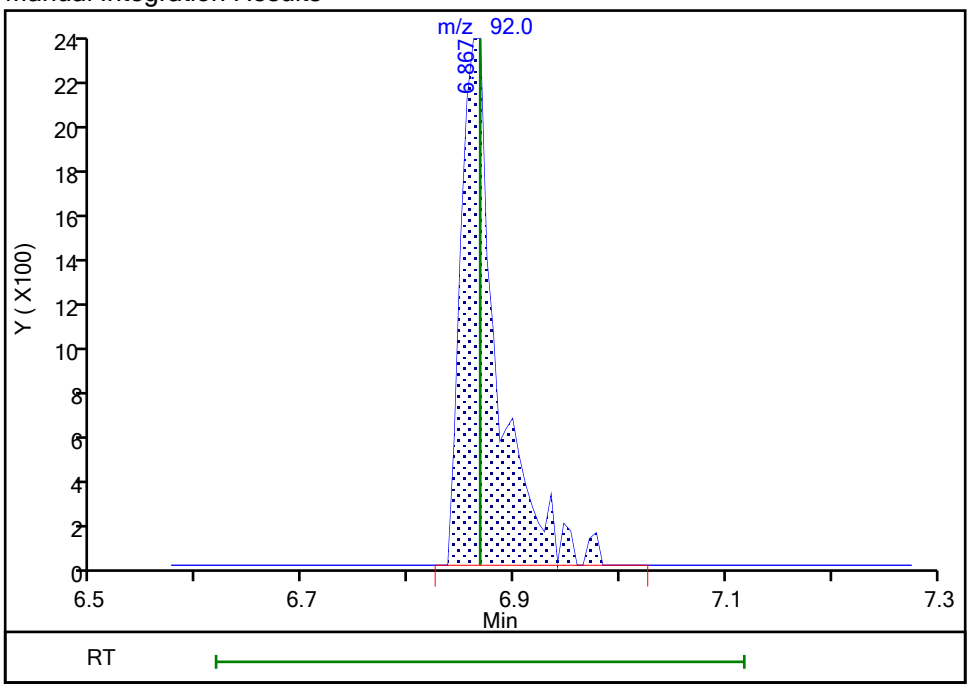
Processing Integration Results

RT: 6.87
Area: 4382
Amount: 1.052446
Amount Units: ug/l



Manual Integration Results

RT: 6.87
Area: 5727
Amount: 1.083044
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:38:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

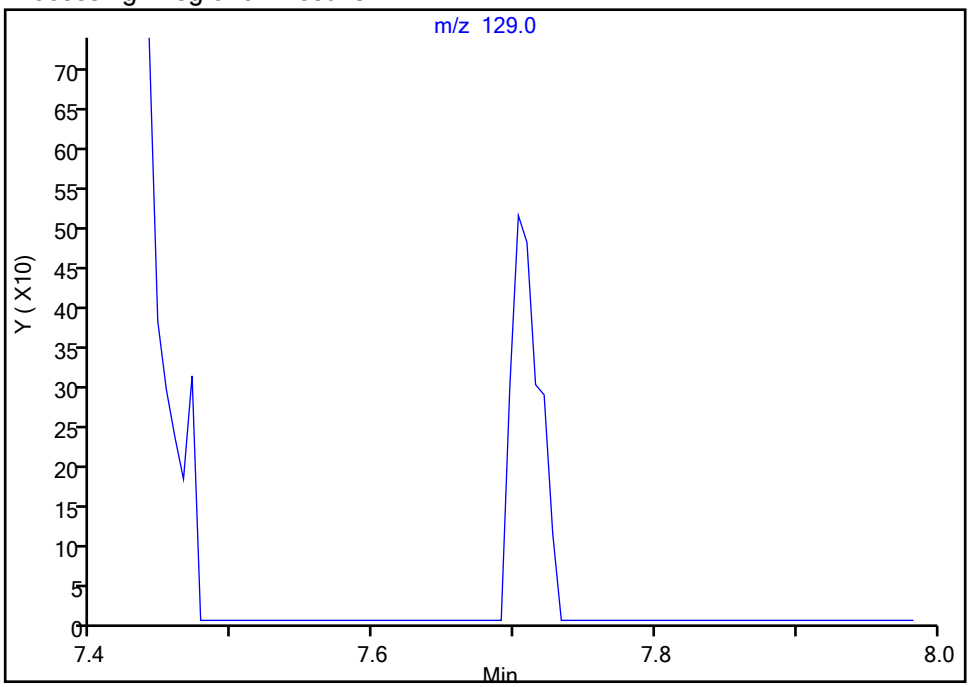
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

69 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

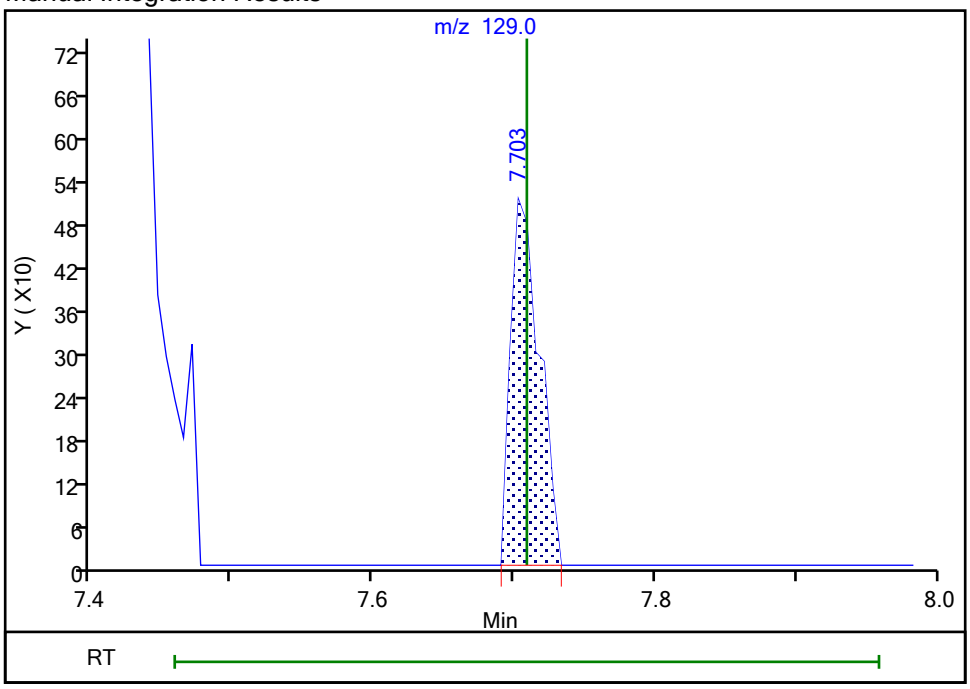
Not Detected
Expected RT: 7.71

Processing Integration Results



Manual Integration Results

RT: 7.70
Area: 720
Amount: 0.770848
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:38:35
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

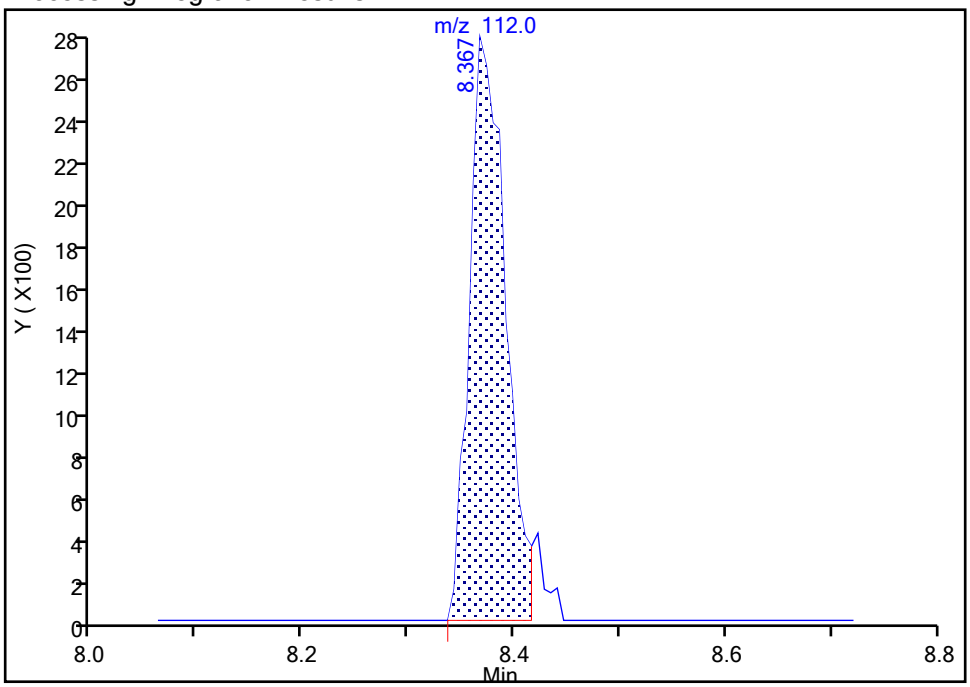
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

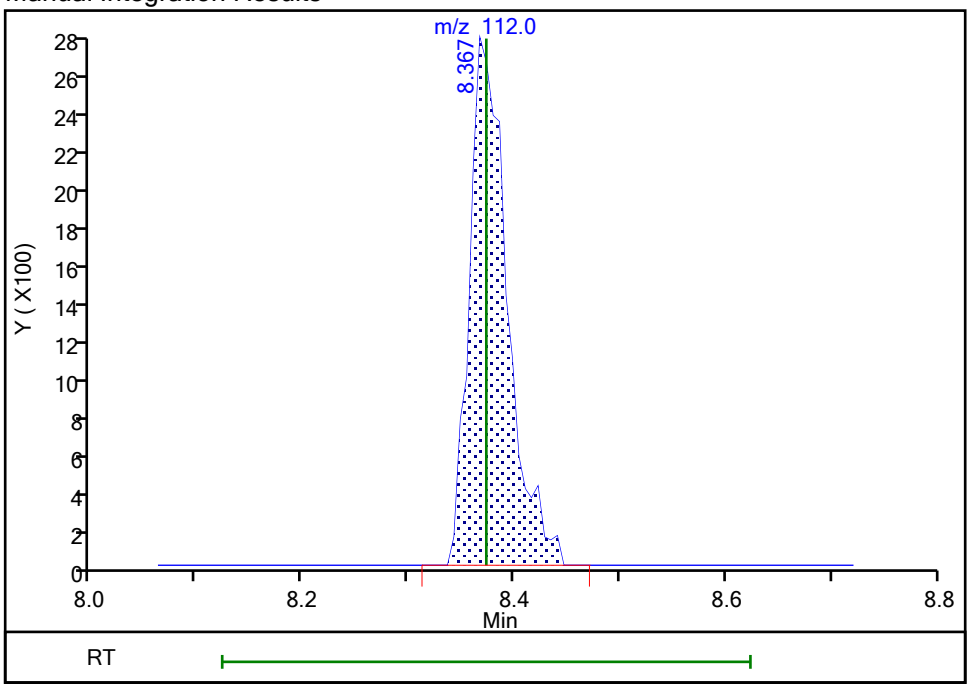
Processing Integration Results

RT: 8.37
Area: 6602
Amount: 1.242714
Amount Units: ug/l



Manual Integration Results

RT: 8.37
Area: 6914
Amount: 1.110641
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:38:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

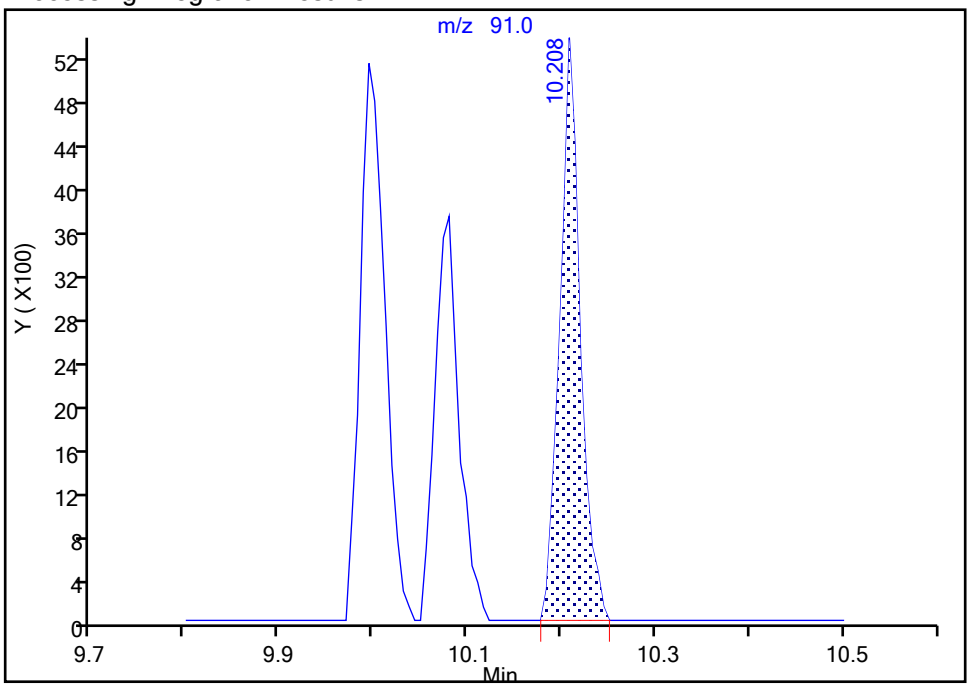
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

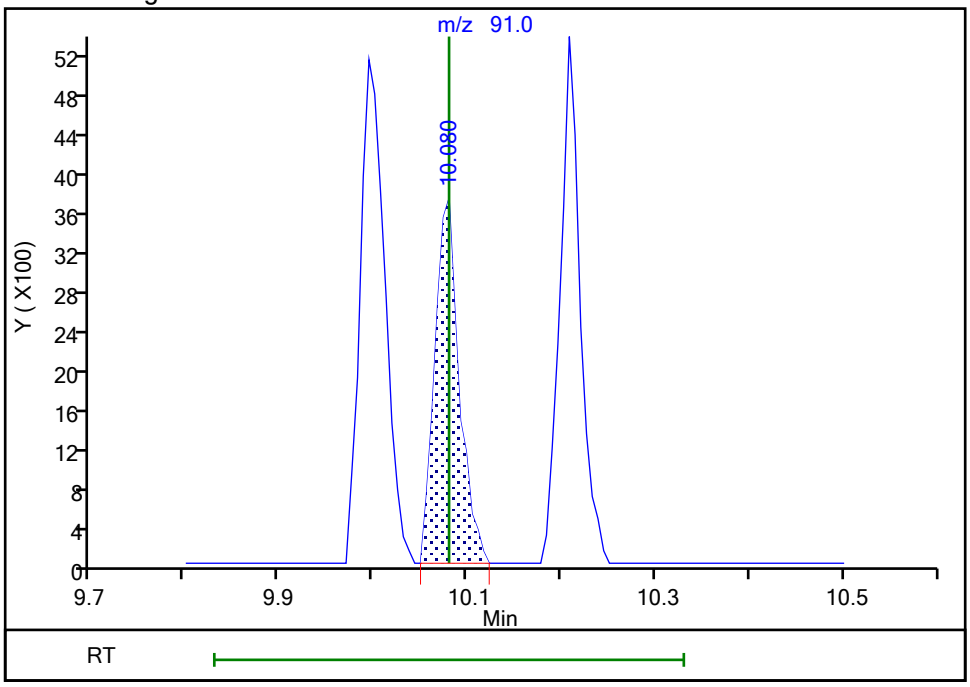
Processing Integration Results

RT: 10.21
Area: 8053
Amount: 1.315398
Amount Units: ug/l



Manual Integration Results

RT: 10.08
Area: 6661
Amount: 1.098200
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:49:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

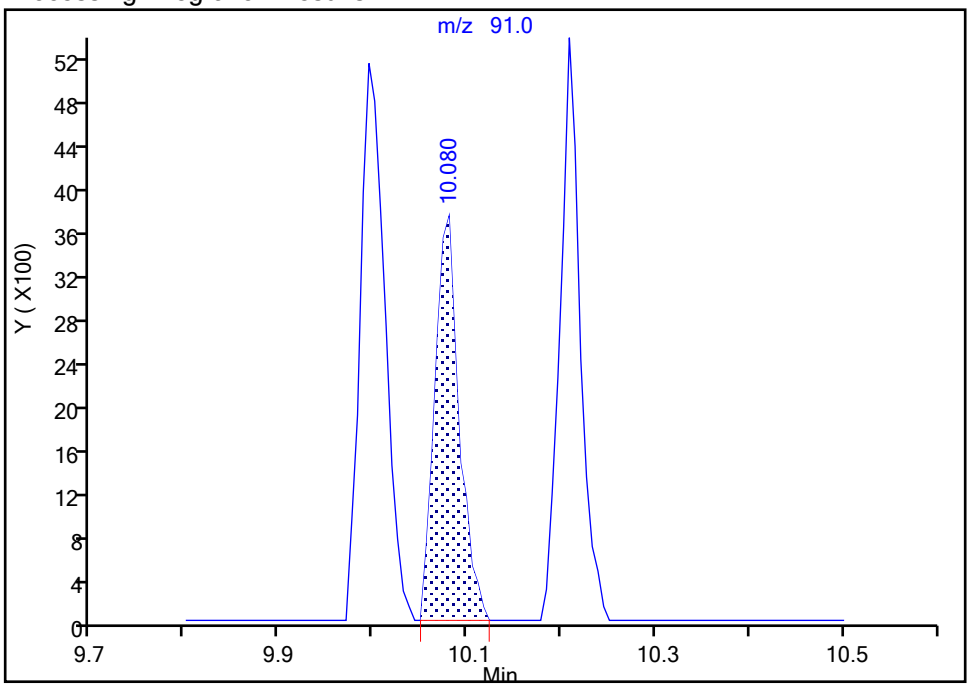
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

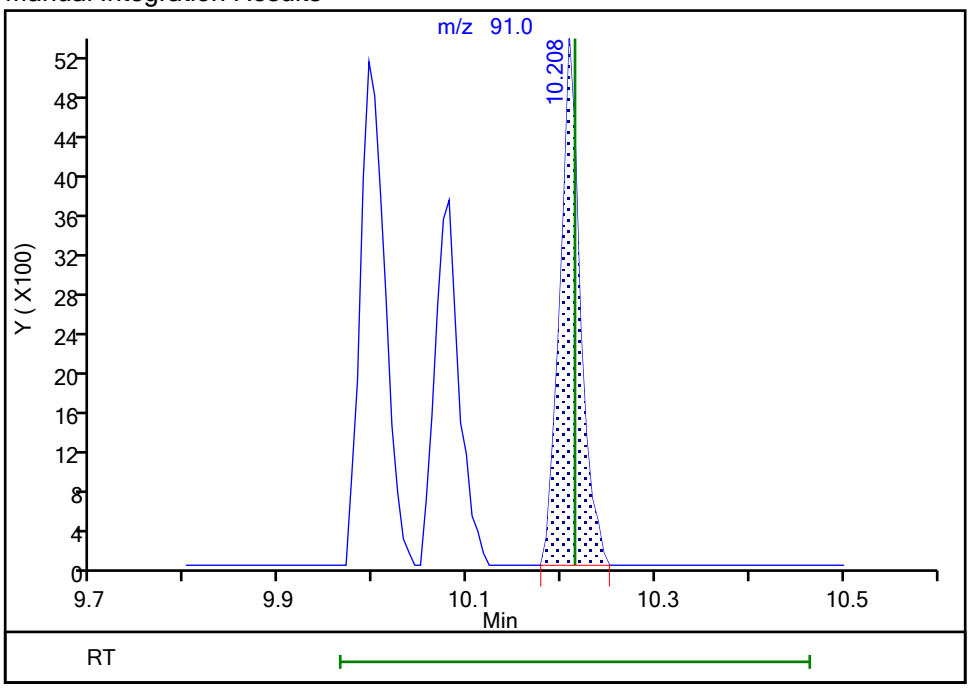
Processing Integration Results

RT: 10.08
Area: 6661
Amount: 0.957528
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 8053
Amount: 1.141394
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:49:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

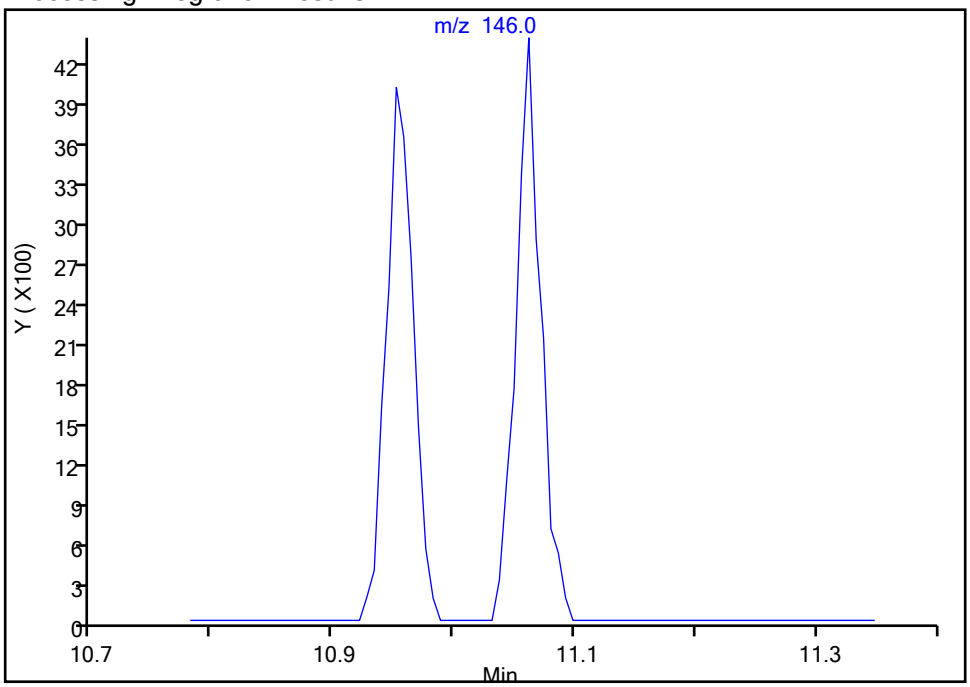
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3727.D
Injection Date: 09-Nov-2020 03:52:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

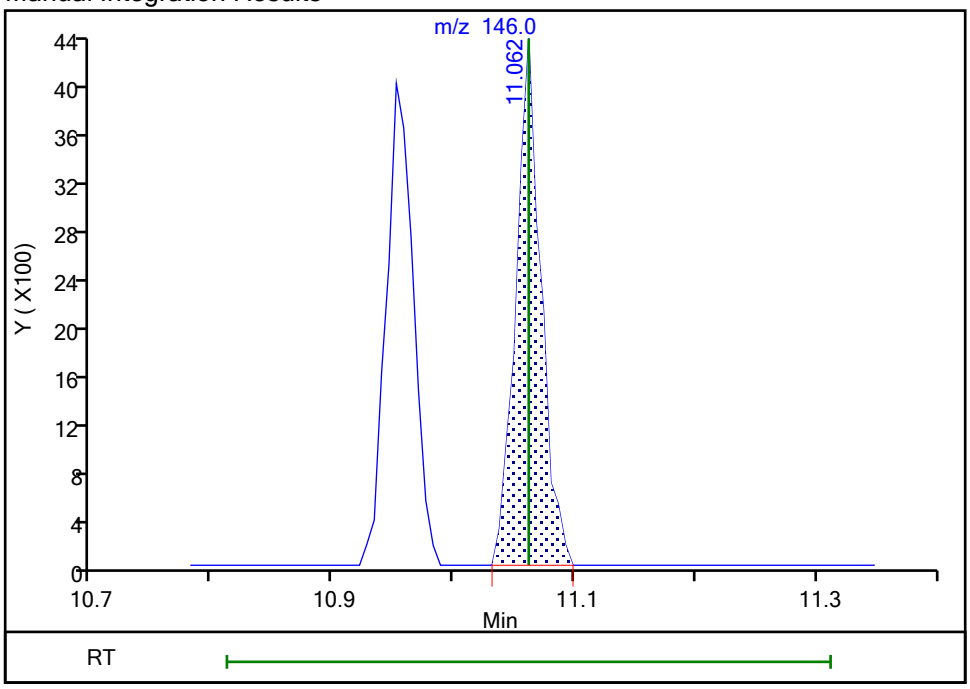
Not Detected
Expected RT: 11.06

Processing Integration Results



Manual Integration Results

RT: 11.06
Area: 6313
Amount: 1.318861
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:38:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 10-Nov-2020 04:12:02 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Nov-2020 04:14:30 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:11:59 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 05:45:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.972	0.000	0	51027	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	76821	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.886	0.006	90	6023	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.337	0.001	91	62354	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	96	35750	50.0	50.0	
17 Ethanol	45	2.155	2.167	-0.012	95	6651	80.0	92.5	a
18 Ethyl ether	59	2.222	2.228	-0.006	82	3973	2.00	1.99	M
19 Acrolein	56	2.332	2.338	-0.006	99	5523	9.53	6.80	M
20 1,1-Dichloroethene	96	2.411	2.411	0.000	84	2493	2.00	1.81	M
21 112TCTFE	101	2.429	2.429	0.000	70	2679	2.00	1.91	M
22 Acetone	43	2.490	2.490	0.000	97	9739	4.00	5.53	M
23 Iodomethane	142	2.533	2.539	-0.006	97	3460	2.00	-3.00	
24 Carbon disulfide	76	2.588	2.588	0.000	96	9163	2.00	1.92	M
105 Isopropyl alcohol	45	2.667	2.673	-0.006	95	5603	20.0	18.3	a
118 Acetonitrile	40	2.740	2.746	-0.006	93	9641	20.0	18.6	a
25 3-Chloro-1-propene	76	2.758	2.758	0.000	82	1259	2.00	1.67	a
26 Methyl acetate	43	2.807	2.807	0.000	99	13509	4.00	3.56	
27 Methylene Chloride	84	2.874	2.874	0.000	85	3407	2.00	1.77	
35 2-Methyl-2-propanol	59	3.051	3.057	-0.006	95	6544	20.0	24.4	
30 Acrylonitrile	53	3.118	3.130	-0.012	98	39496	20.0	19.5	
28 trans-1,2-Dichloroethene	96	3.130	3.136	-0.006	34	4062	2.00	2.07	M
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	88	8786	2.00	2.12	
31 Hexane	57	3.399	3.405	-0.006	91	4126	2.00	1.93	
32 1,1-Dichloroethane	63	3.527	3.533	-0.006	95	8166	2.00	1.84	M
34 2-Chloro-1,3-butadiene	53	3.612	3.618	-0.006	51	8869	2.00	1.90	M
33 Vinyl acetate	86	3.606	3.618	-0.012	97	1190	4.00	10.1	
36 Isopropyl ether	87	3.642	3.642	0.000	86	1433	2.00	1.65	M
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	94	15443	2.00	2.00	
38 2,2-Dichloropropane	77	4.075	4.075	0.000	76	5370	2.00	2.15	
39 cis-1,2-Dichloroethene	96	4.081	4.087	-0.006	90	3806	2.00	1.59	M
40 2-Butanone (MEK)	43	4.130	4.130	0.000	94	7555	4.00	3.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.185	-0.006	100	16458	20.0	19.0	
104 Ethyl acetate	43	4.203	4.203	0.000	97	17872	4.00	3.85	M
42 Chlorobromomethane	128	4.307	4.313	-0.006	81	1885	2.00	1.83	
43 Methacrylonitrile	67	4.319	4.331	-0.012	95	17273	20.0	15.8	
44 Tetrahydrofuran	71	4.380	4.374	0.006	83	936	4.00	3.53	
45 Chloroform	83	4.398	4.404	-0.006	90	7290	2.00	2.08	M
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	63	5491	2.00	1.80	
47 Cyclohexane	56	4.593	4.606	-0.013	92	11368	2.00	1.97	M
48 Carbon tetrachloride	117	4.715	4.709	0.006	92	4036	2.00	2.04	
49 1,1-Dichloropropene	75	4.715	4.721	-0.006	81	4574	2.00	1.71	M
108 Isobutyl alcohol	43	4.923	4.917	0.006	78	7944	50.0	44.5	
50 Benzene	78	4.917	4.917	0.000	90	17071	2.00	2.14	M
51 1,2-Dichloroethane	62	4.941	4.941	0.000	90	6976	2.00	2.23	
116 n-Butanol	56	5.002	5.008	-0.006	45	7327	50.0	48.0	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	83	10278	2.00	2.38	
53 n-Heptane	43	5.209	5.209	0.000	41	4799	2.00	3.13	a
54 Trichloroethene	132	5.557	5.557	0.000	93	4799	2.00	2.02	M
117 Ethyl acrylate	55	5.709	5.709	0.000	87	6408	2.00	2.05	a
114 Methylcyclohexane	83	5.733	5.740	-0.007	89	4933	2.00	1.85	
55 1,2-Dichloropropane	63	5.776	5.776	0.000	93	5228	2.00	2.20	M
56 Dibromomethane	93	5.880	5.892	-0.012	51	1872	2.00	1.88	M
57 Methyl methacrylate	69	5.935	5.935	0.000	88	4439	4.00	3.17	M
115 1,4-Dioxane	58	5.935	5.941	-0.006	12	1571	40.0	48.0	M
58 Dichlorobromomethane	83	6.057	6.063	-0.006	92	2622	2.00	1.70	
106 2-Nitropropane	43	6.307	6.307	0.000	94	2751	4.00	9.88	
59 2-Chloroethyl vinyl ether	63	6.386	6.392	-0.006	77	2646	2.00	1.77	M
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	80	2894	2.00	2.10	
61 4-Methyl-2-pentanone (MIBK)	43	6.703	6.709	-0.006	96	17293	4.00	4.26	M
62 Toluene	92	6.861	6.867	-0.006	97	10330	2.00	2.04	M
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	89	2797	2.00	2.60	
64 Ethyl methacrylate	69	7.239	7.239	0.000	84	2315	2.00	2.11	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	89	2413	2.00	1.89	M
66 Tetrachloroethene	166	7.434	7.440	-0.006	95	3645	2.00	1.91	
67 1,3-Dichloropropane	76	7.471	7.477	-0.006	86	5054	2.00	2.04	
68 2-Hexanone	43	7.599	7.599	0.000	96	10208	4.00	3.72	
69 Chlorodibromomethane	129	7.709	7.709	0.000	88	1435	2.00	1.61	
109 n-Butyl acetate	43	7.751	7.757	-0.006	95	7317	2.00	3.19	
70 Ethylene Dibromide	107	7.825	7.818	0.007	98	2640	2.00	2.22	
71 Chlorobenzene	112	8.373	8.373	0.000	90	11654	2.00	1.99	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	89	3892	2.00	1.99	
73 Ethylbenzene	91	8.507	8.513	-0.006	98	16416	2.00	2.03	
74 m-Xylene & p-Xylene	106	8.641	8.648	-0.007	96	6517	2.00	2.04	
75 o-Xylene	106	9.086	9.093	-0.007	96	6258	2.00	2.07	
76 Styrene	104	9.105	9.111	-0.006	93	10000	2.00	1.92	
77 Bromoform	173	9.288	9.294	-0.006	4	619	2.00	1.28	
78 Isopropylbenzene	105	9.519	9.525	-0.006	96	14911	2.00	2.08	
79 Bromobenzene	156	9.842	9.842	0.000	94	4505	2.00	2.11	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.879	-0.006	92	3473	2.00	1.76	
81 1,2,3-Trichloropropane	75	9.916	9.909	0.007	88	4139	2.00	1.71	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	1	760	2.00	1.94	
83 N-Propylbenzene	91	10.001	10.001	0.000	98	16416	2.00	2.07	
84 2-Chlorotoluene	91	10.080	10.080	0.000	96	11686	2.00	2.05	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.208	10.214	-0.006	92	13933	2.00	2.10	a
86 1,3,5-Trimethylbenzene	105	10.214	10.220	-0.006	88	14975	2.00	2.23	
87 tert-Butylbenzene	119	10.586	10.592	-0.006	95	15345	2.00	1.72	
88 1,2,4-Trimethylbenzene	105	10.647	10.653	-0.006	97	13609	2.00	2.20	
89 sec-Butylbenzene	105	10.848	10.854	-0.006	95	16794	2.00	2.34	
90 1,3-Dichlorobenzene	146	10.952	10.958	-0.006	97	8365	2.00	1.71	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	60	14555	2.00	2.08	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	94	9095	2.00	1.97	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	15084	2.00	1.90	
113 Benzyl chloride	126	11.232	11.238	-0.006	97	458	2.00	1.28	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	8417	2.00	2.03	
94 n-Butylbenzene	91	11.519	11.525	-0.006	96	11235	2.00	2.16	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	68	635	2.00	2.39	
112 1,3,5-Trichlorobenzene	180	12.696	12.696	0.000	93	5893	2.00	1.91	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	91	4945	2.00	2.31	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	92	1982	2.00	2.07	
98 Naphthalene	128	13.726	13.726	0.000	97	13937	2.00	2.01	
99 1,2,3-Trichlorobenzene	180	14.031	14.025	0.006	90	4181	2.00	2.17	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		4.00	3.66	
S 100 Xylenes, Total	1				0		4.00	4.11	
S 102 1,3-Dichloropropene, Total	1				0		4.00	4.70	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	2.00	Units: uL

Report Date: 10-Nov-2020 04:12:02 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D

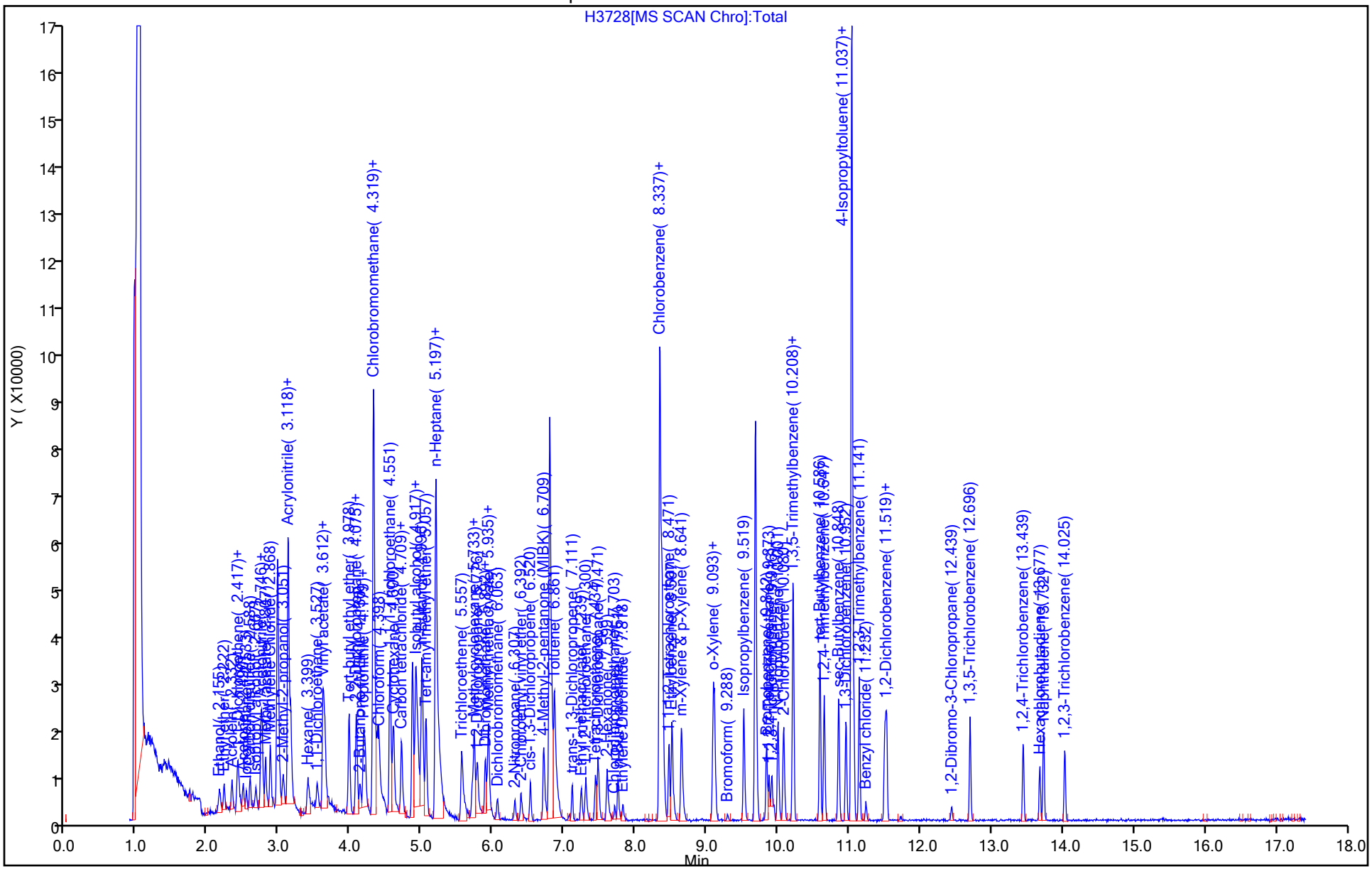
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes Operator ID:

Lims ID: std3 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

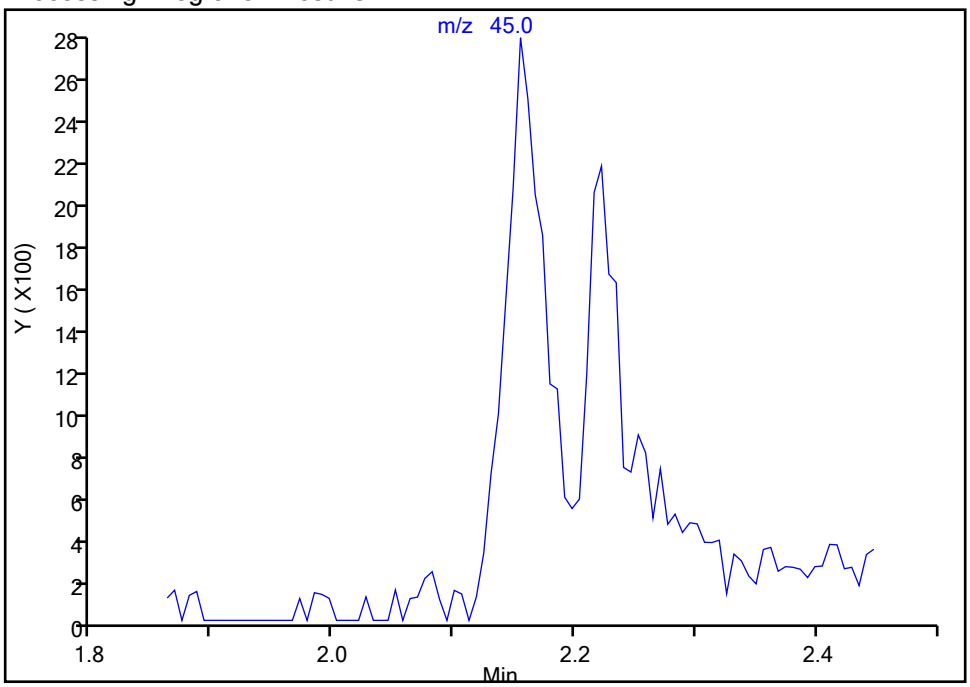
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

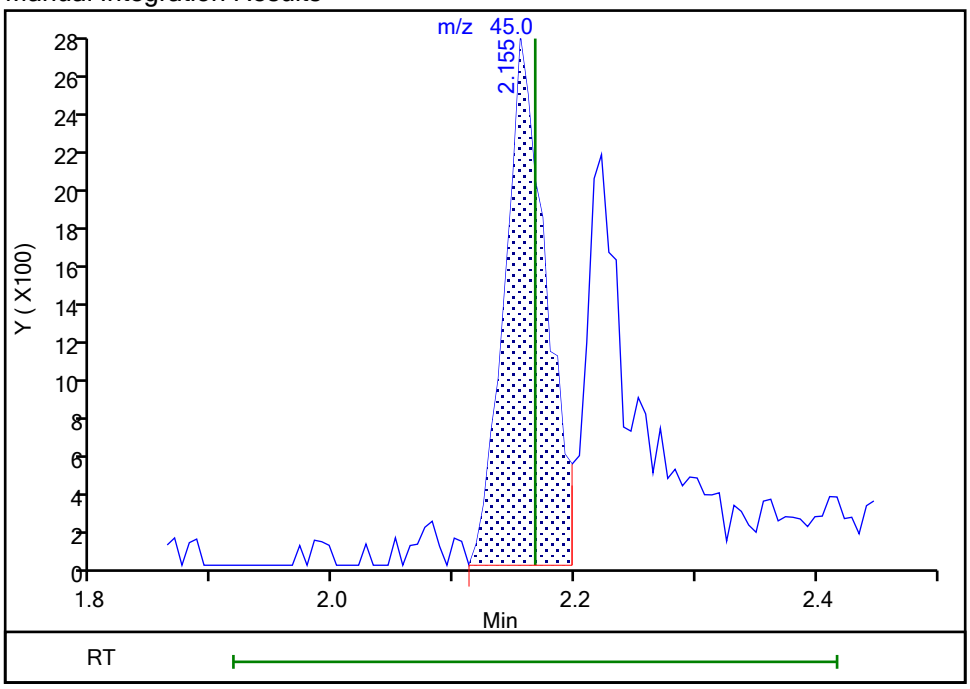
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 2.15
Area: 6651
Amount: 92.541698
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:03
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

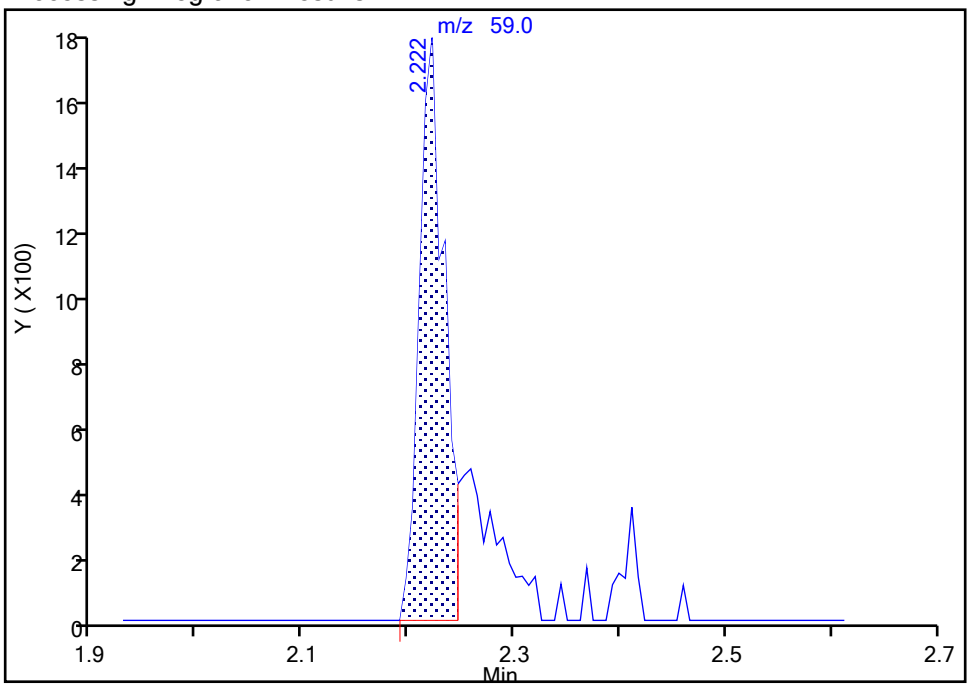
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

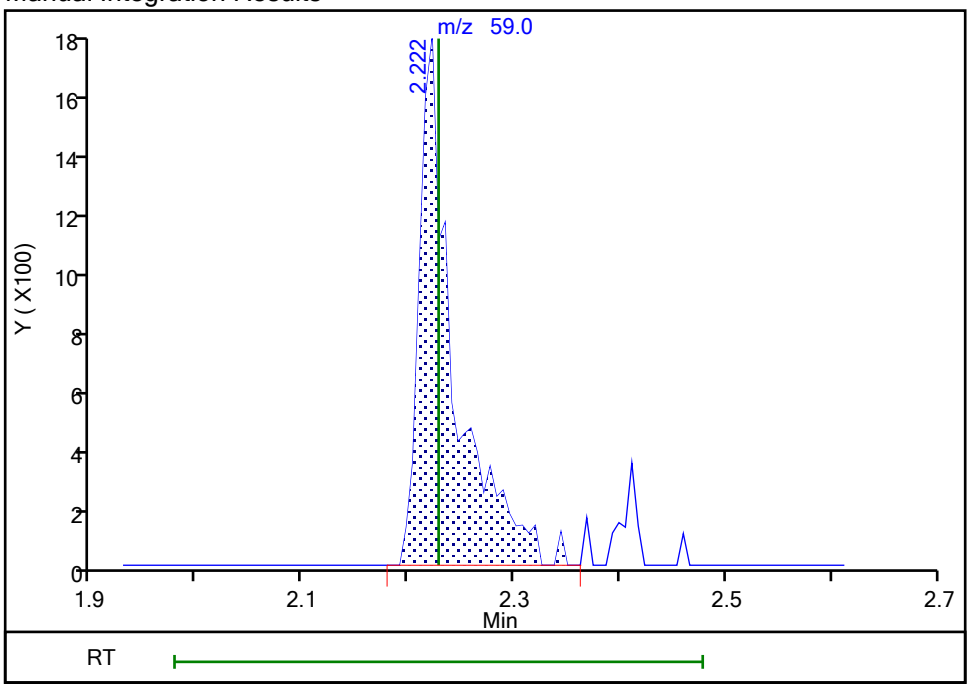
Processing Integration Results

RT: 2.22
Area: 2858
Amount: 1.851336
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 3973
Amount: 1.993140
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

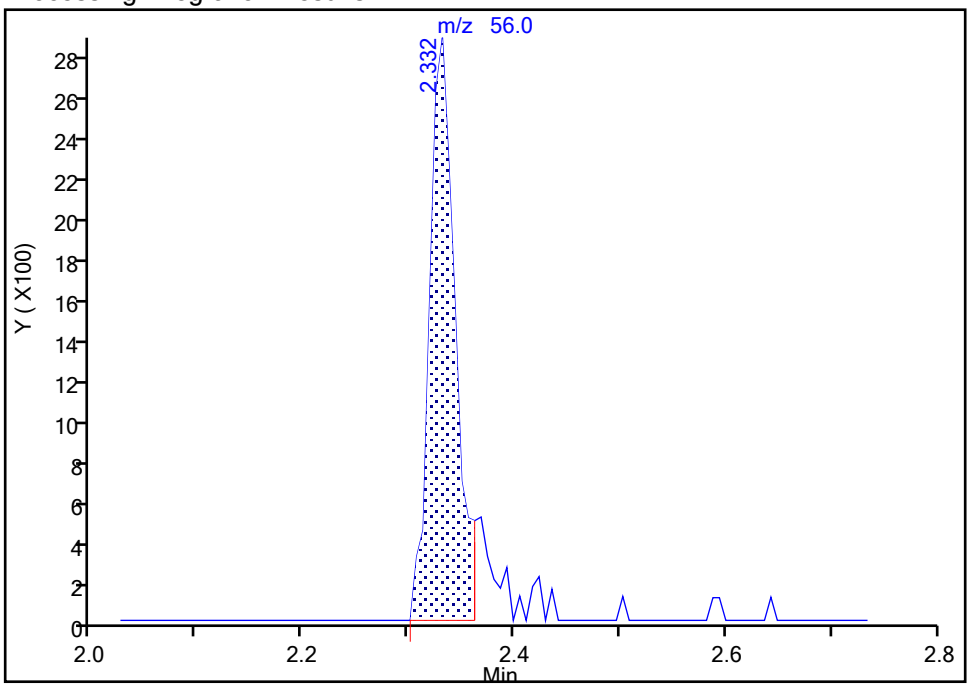
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

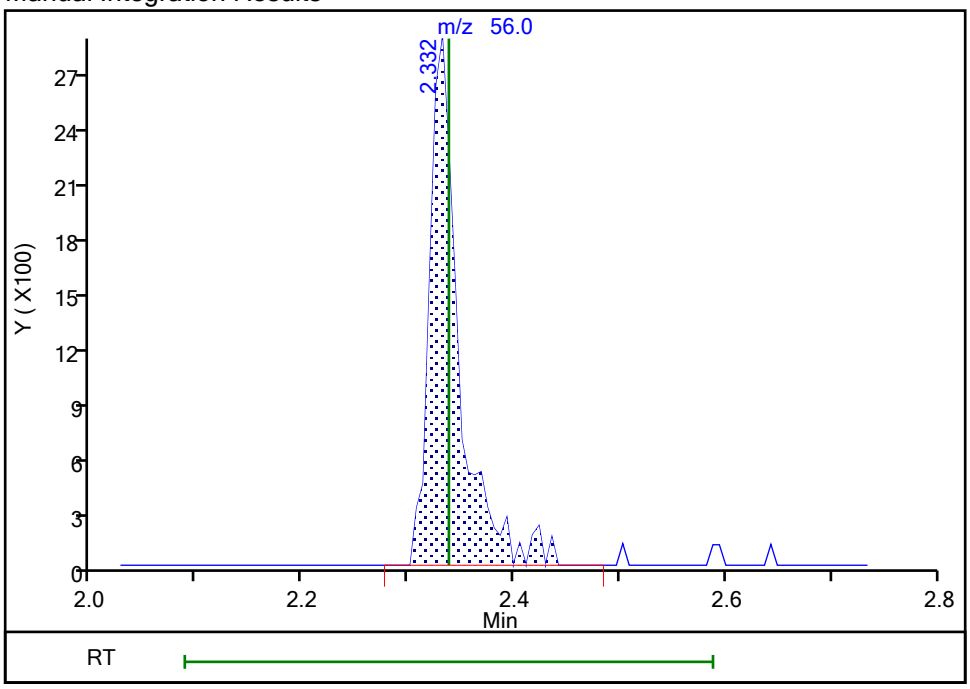
Processing Integration Results

RT: 2.33
Area: 4767
Amount: 7.608882
Amount Units: ug/l



Manual Integration Results

RT: 2.33
Area: 5523
Amount: 6.795792
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

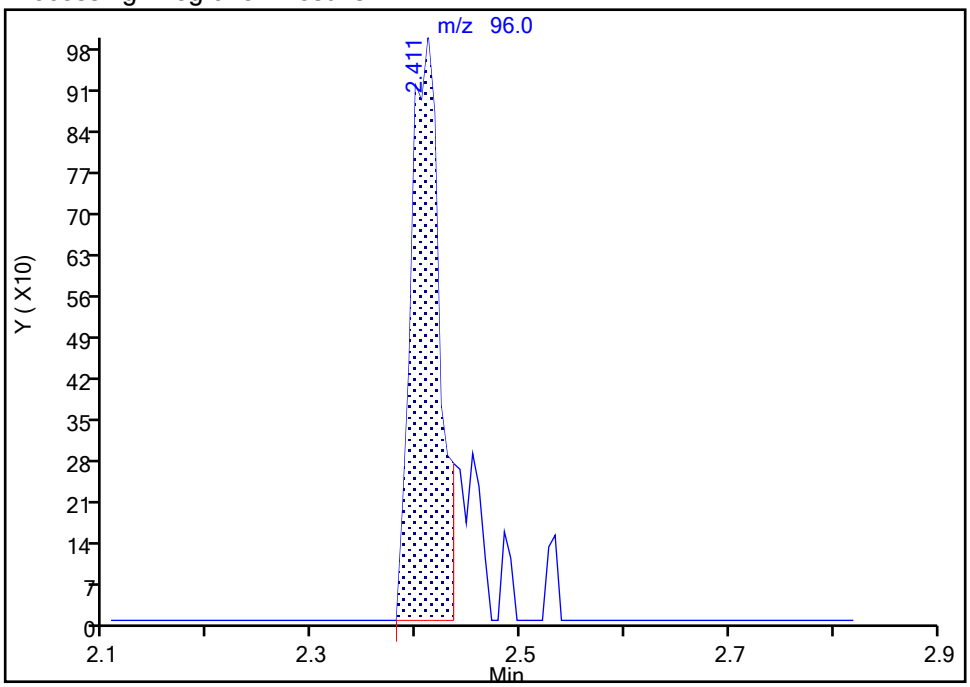
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

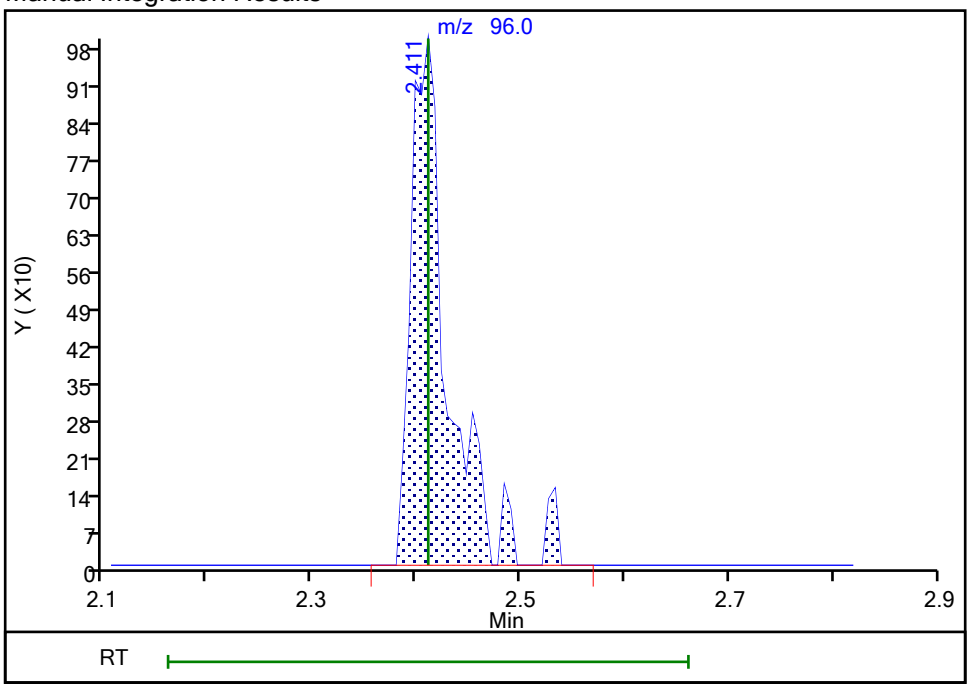
Processing Integration Results

RT: 2.41
Area: 1915
Amount: 1.968496
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 2493
Amount: 1.809104
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

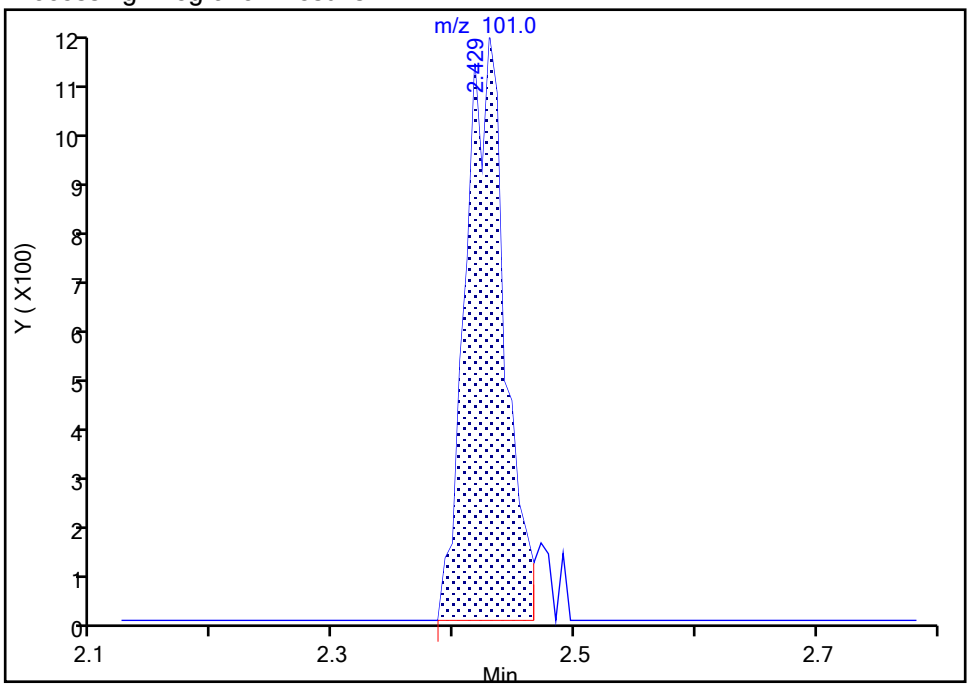
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

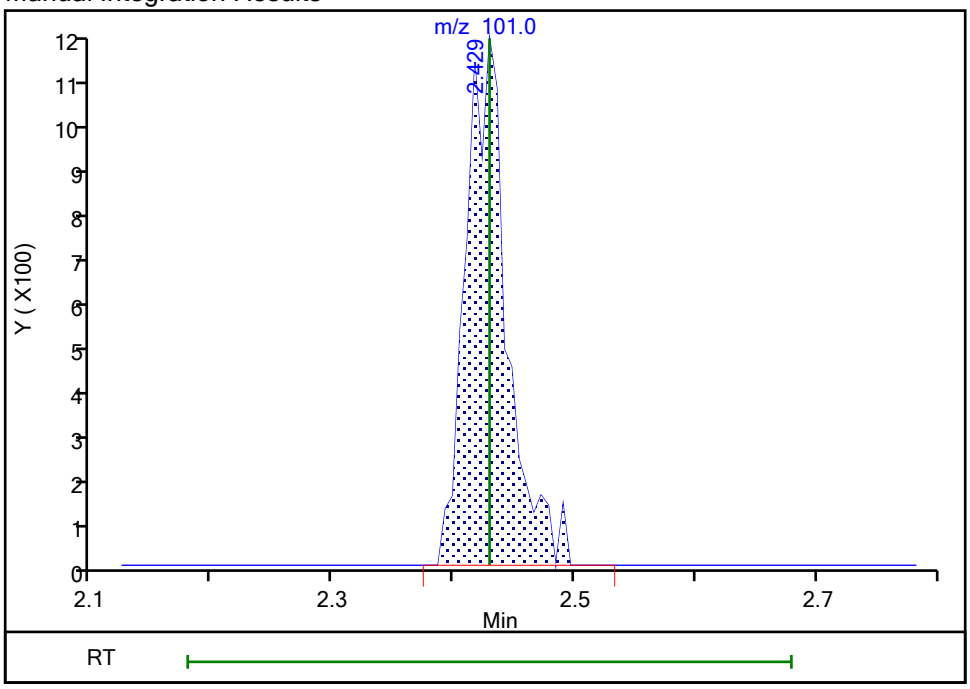
Processing Integration Results

RT: 2.43
Area: 2530
Amount: 2.165896
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 2679
Amount: 1.912596
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

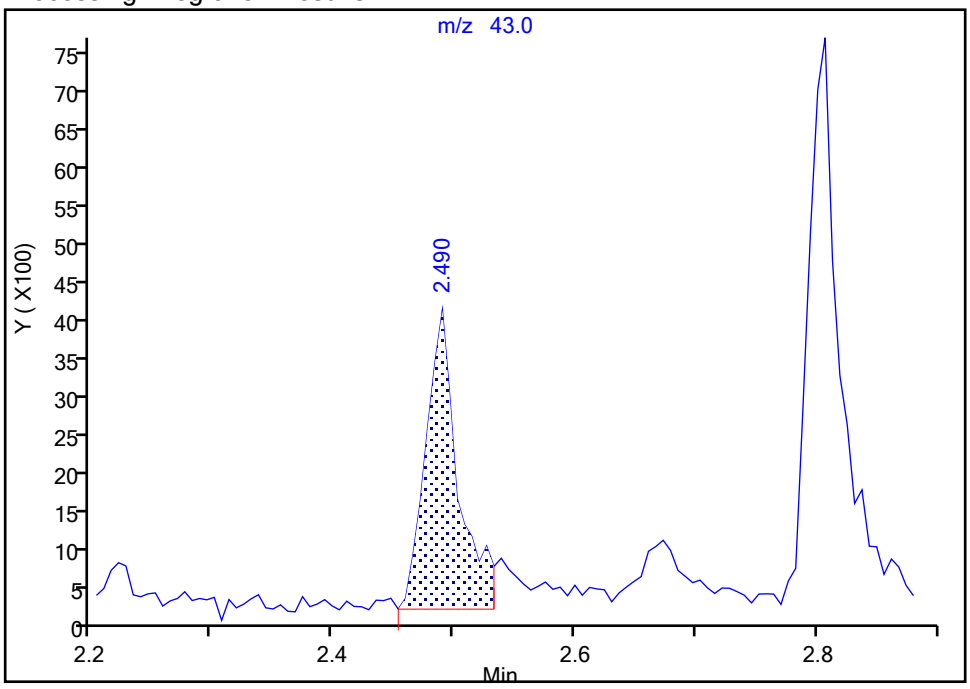
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

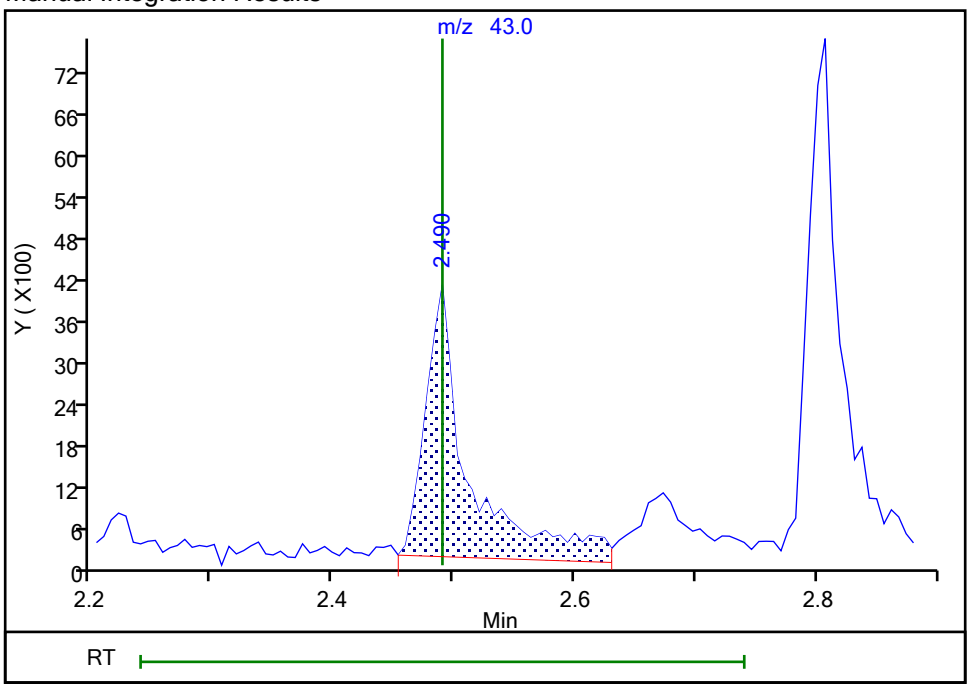
Processing Integration Results

RT: 2.49
Area: 7334
Amount: 3.707155
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 9739
Amount: 5.528890
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

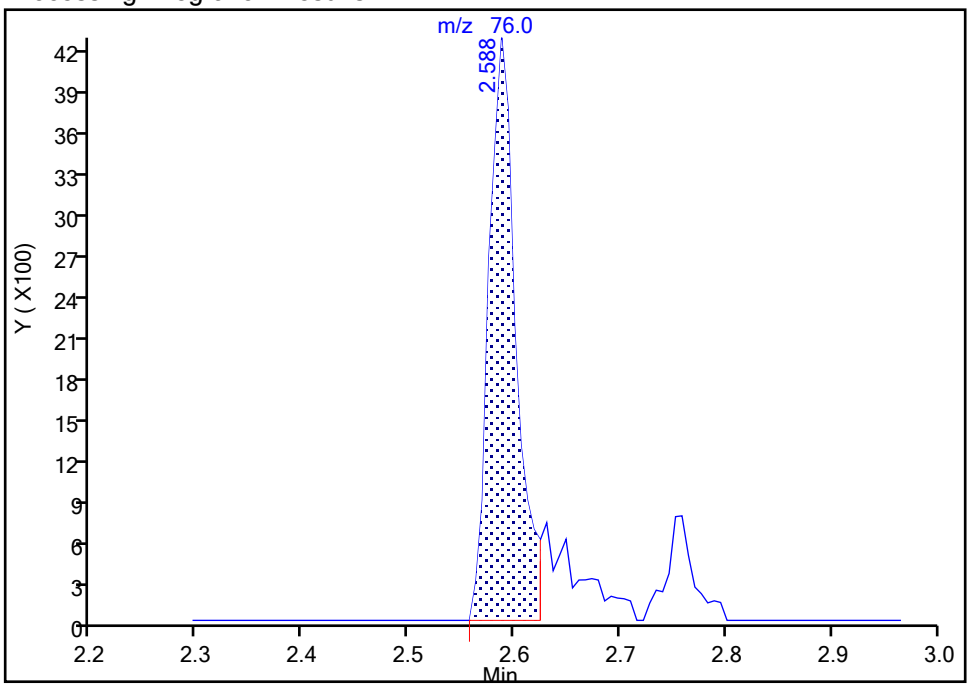
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

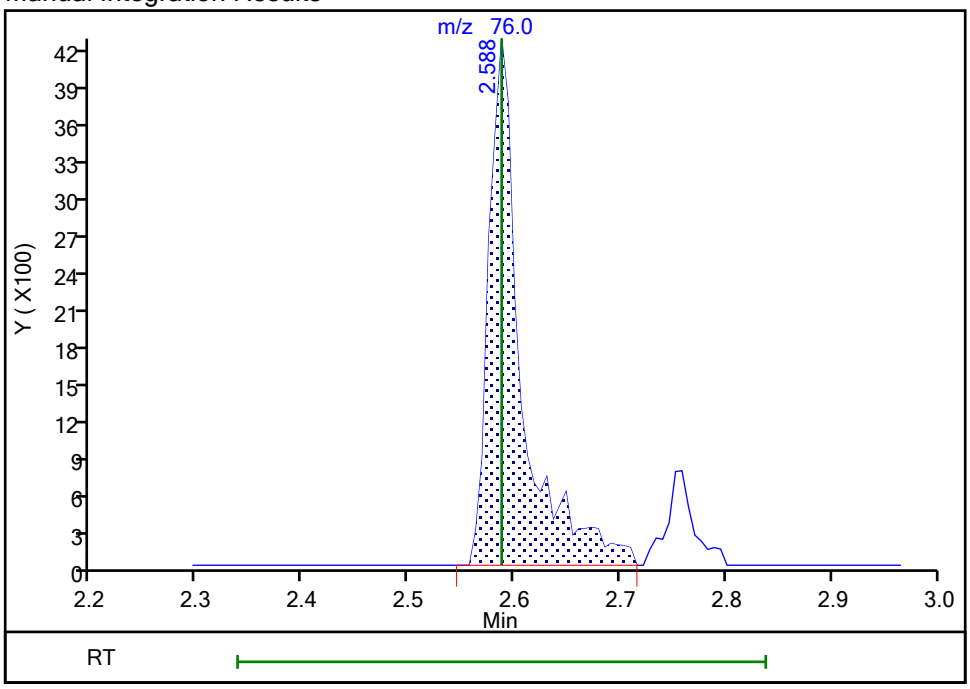
Processing Integration Results

RT: 2.59
Area: 7581
Amount: 1.899879
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 9163
Amount: 1.922131
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

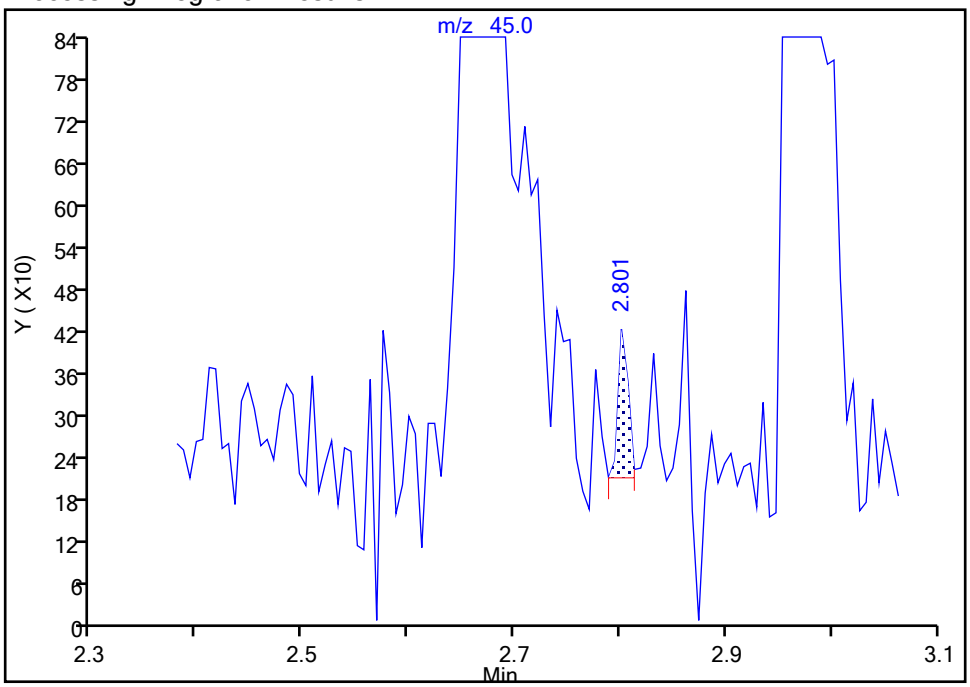
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

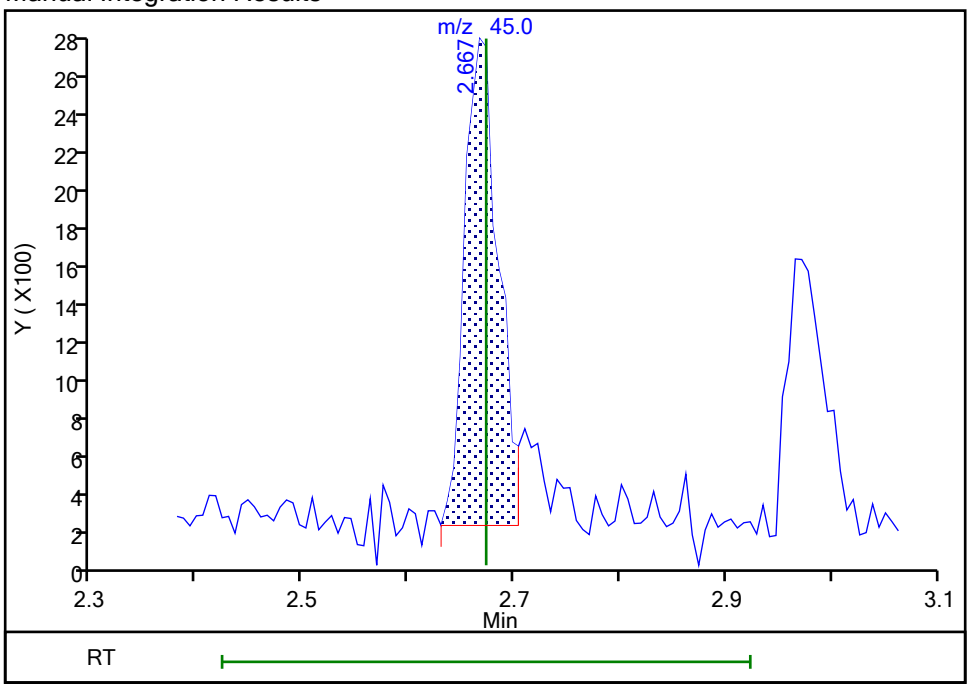
Processing Integration Results

RT: 2.80
Area: 142
Amount: 0.528779
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 5603
Amount: 18.302741
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:48
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

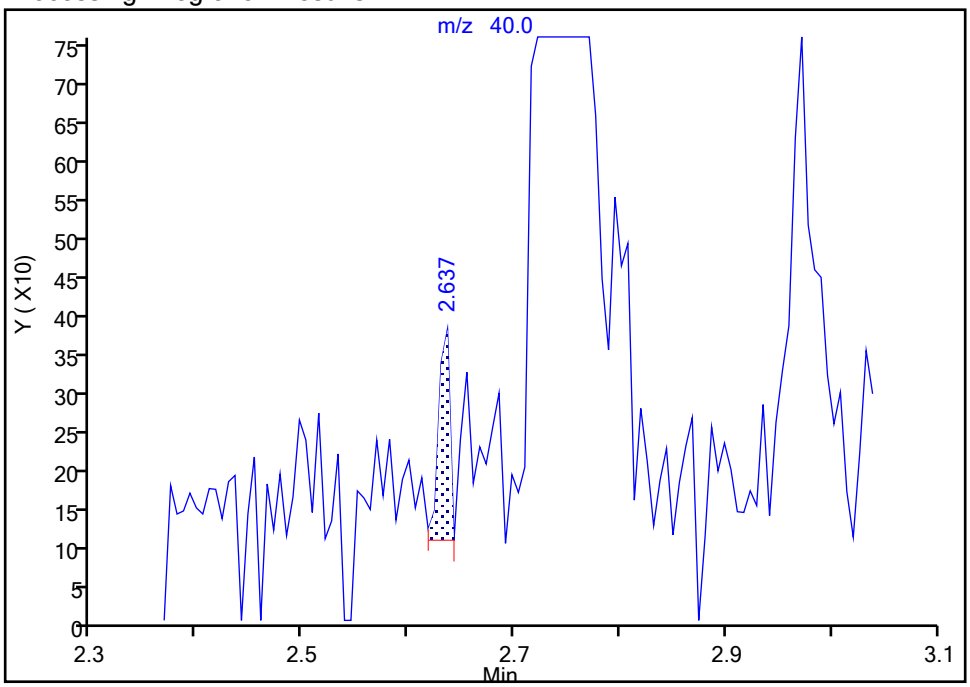
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

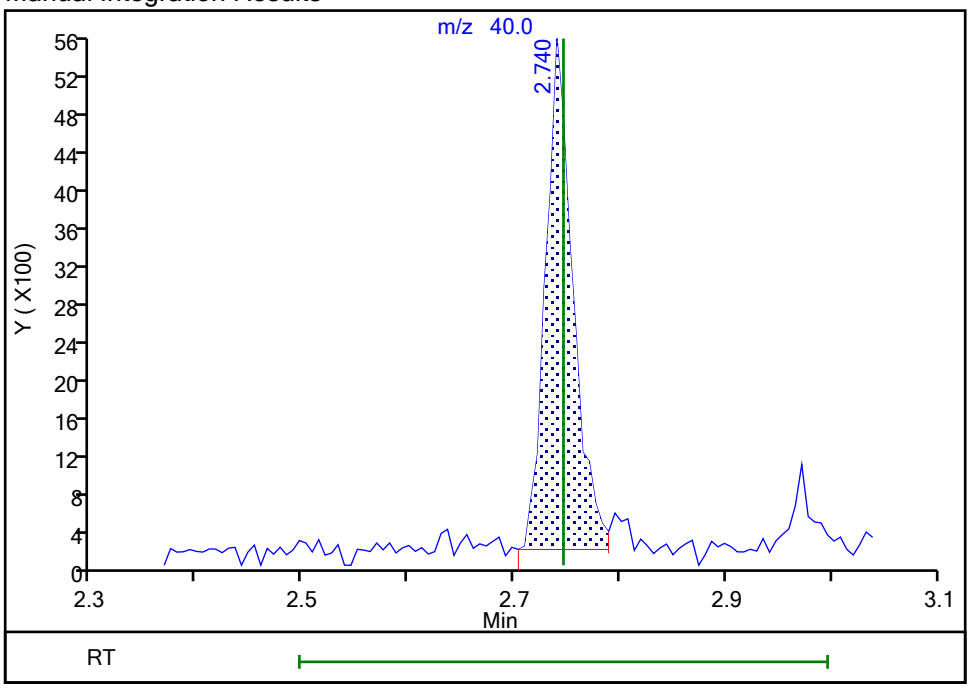
Processing Integration Results

RT: 2.64
Area: 204
Amount: 0.489024
Amount Units: ug/l



Manual Integration Results

RT: 2.74
Area: 9641
Amount: 18.647971
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:43:54
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

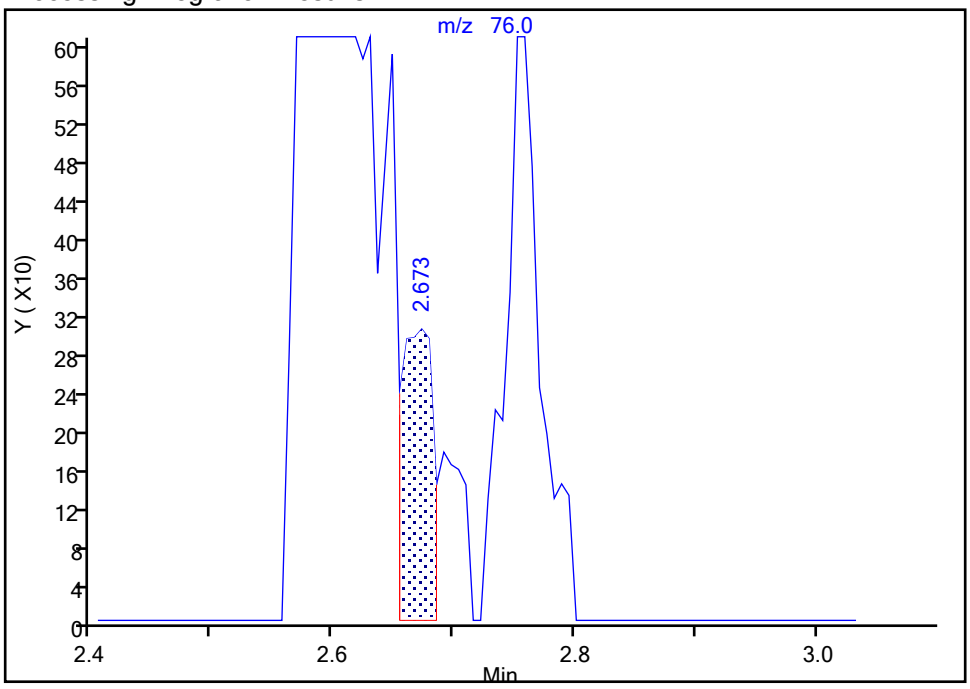
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

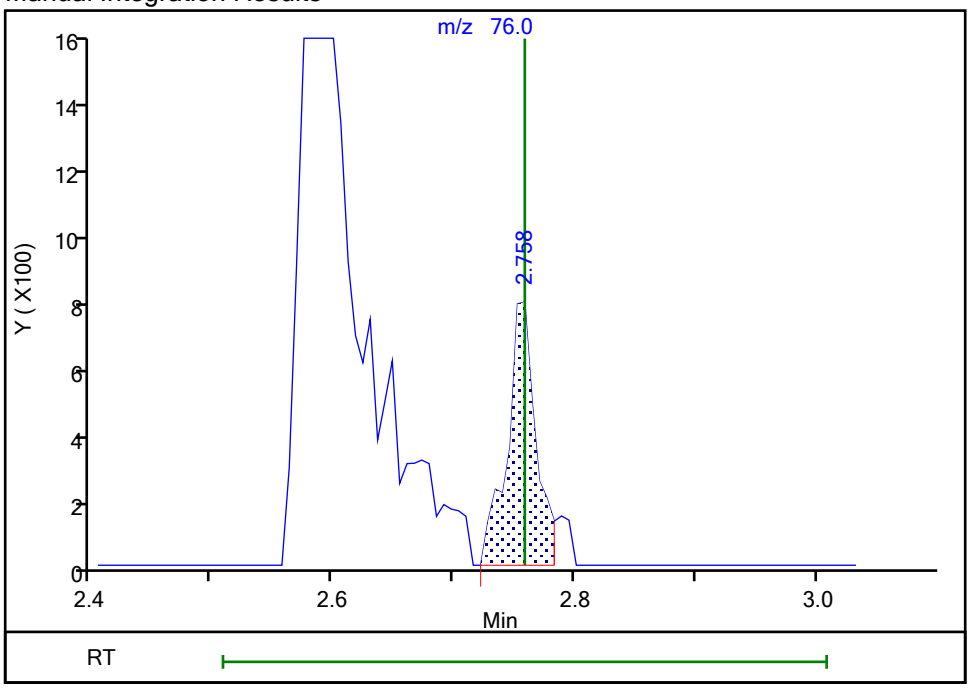
Processing Integration Results

RT: 2.67
Area: 571
Amount: 0.975694
Amount Units: ug/l



Manual Integration Results

RT: 2.76
Area: 1259
Amount: 1.669840
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:04
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

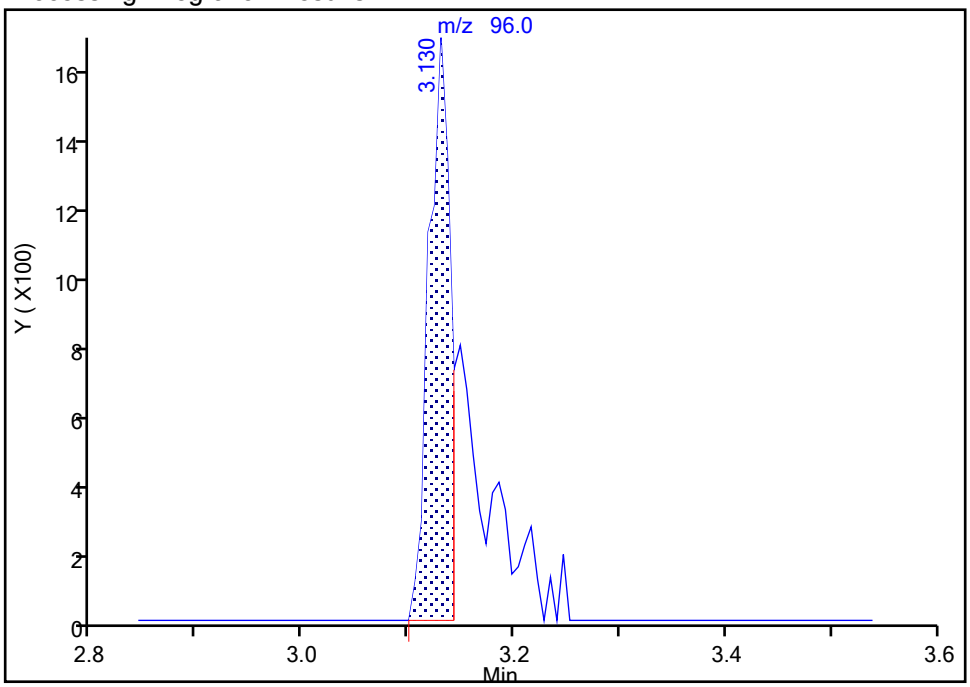
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

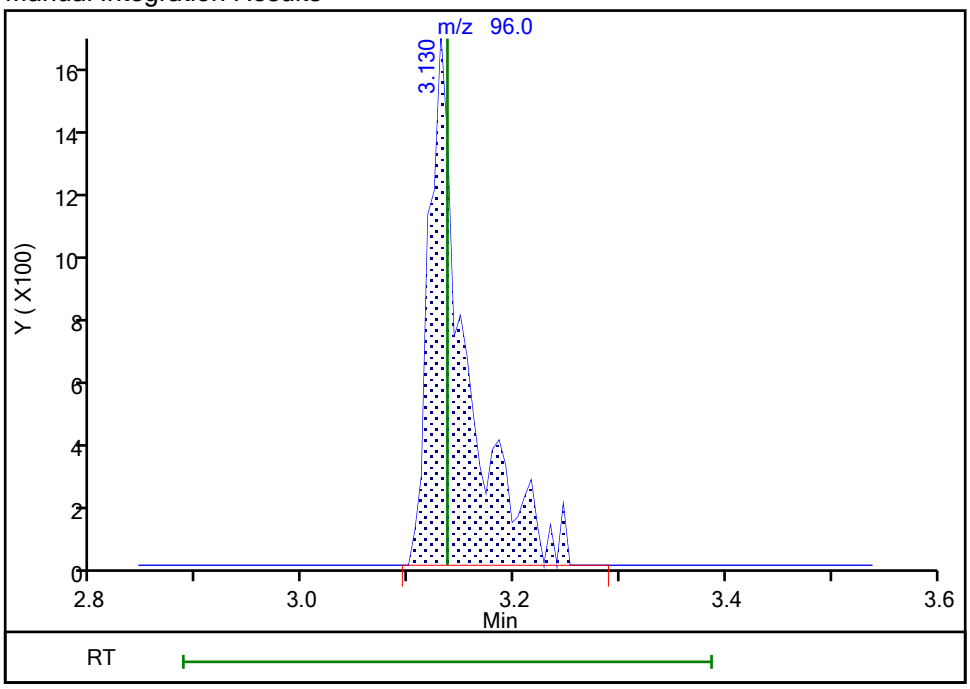
Processing Integration Results

RT: 3.13
Area: 2337
Amount: 1.575279
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 4062
Amount: 2.069200
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

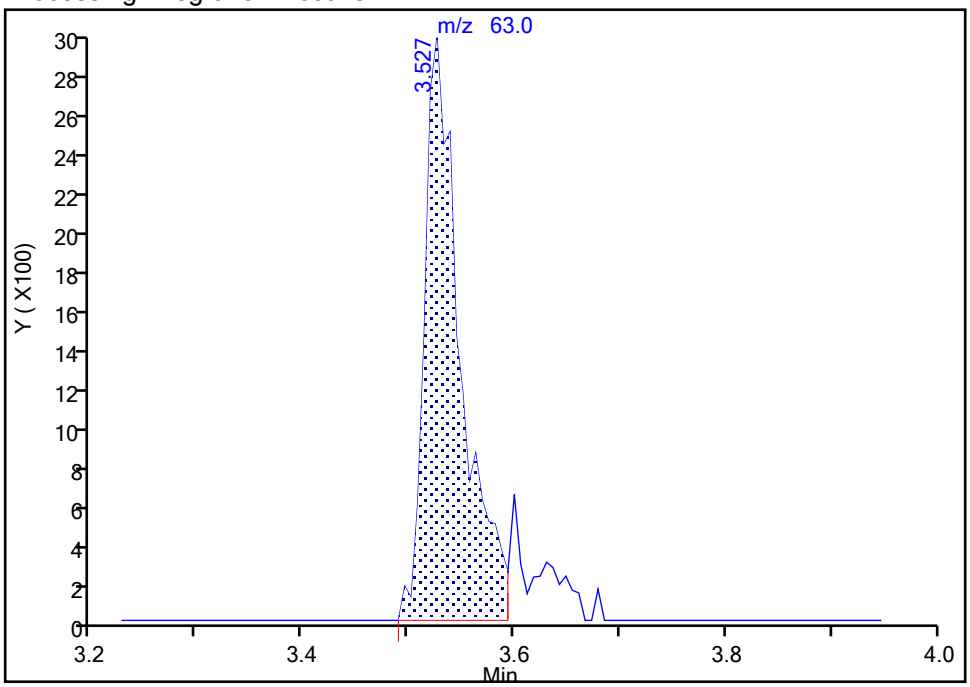
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

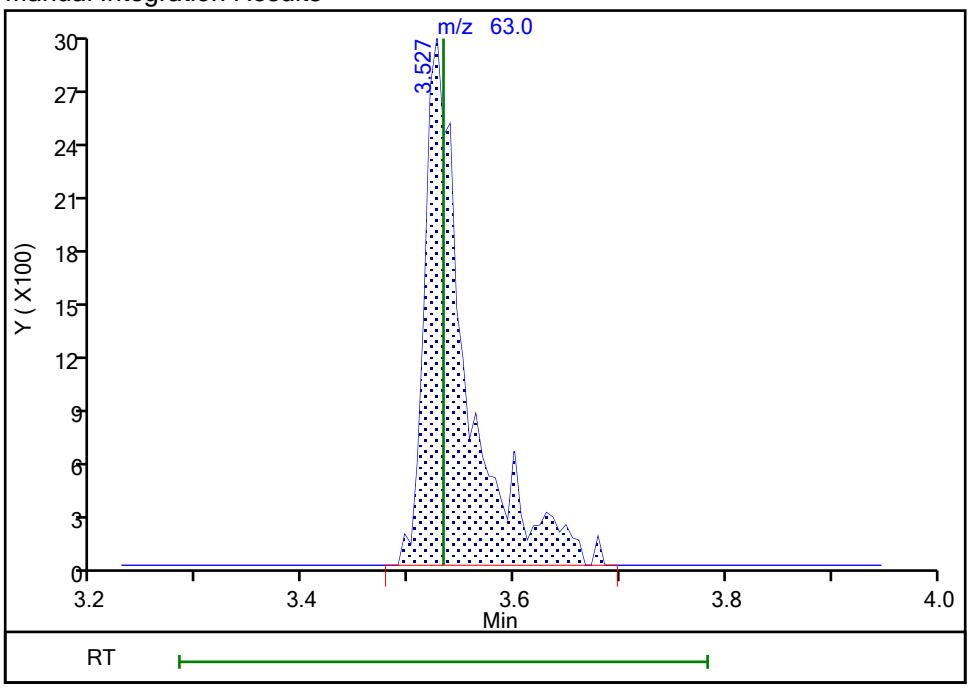
Processing Integration Results

RT: 3.53
Area: 7086
Amount: 2.103788
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 8166
Amount: 1.841197
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

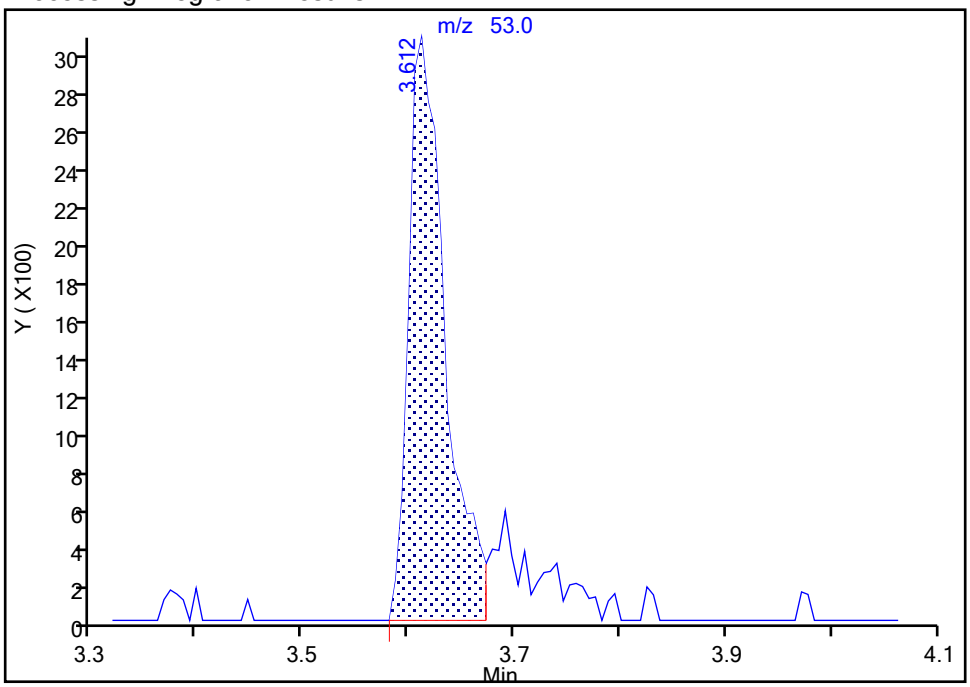
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

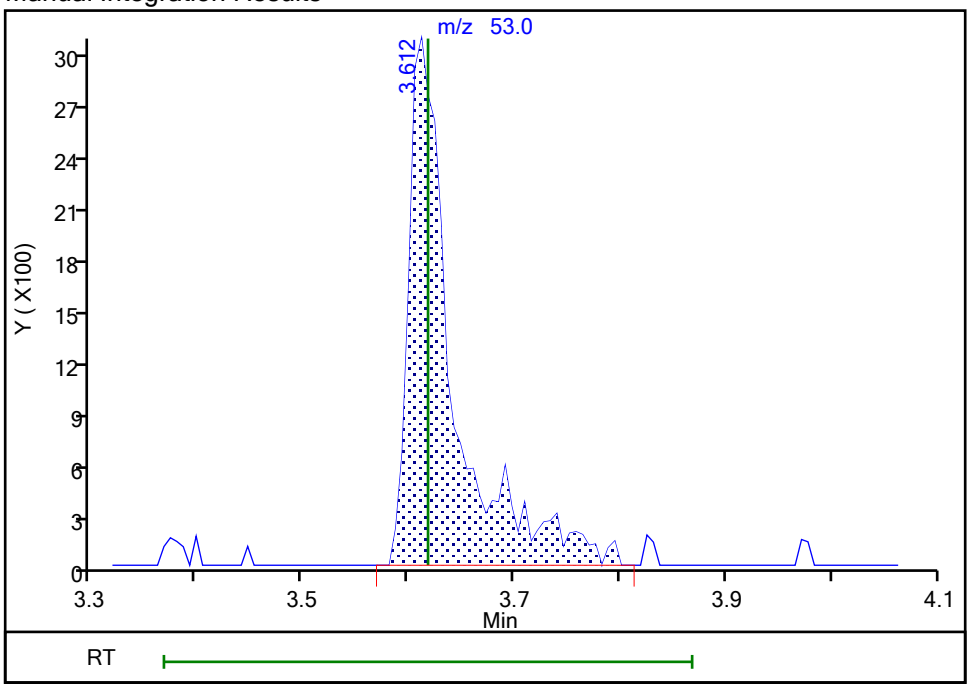
Processing Integration Results

RT: 3.61
Area: 7254
Amount: 2.098985
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 8869
Amount: 1.898371
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

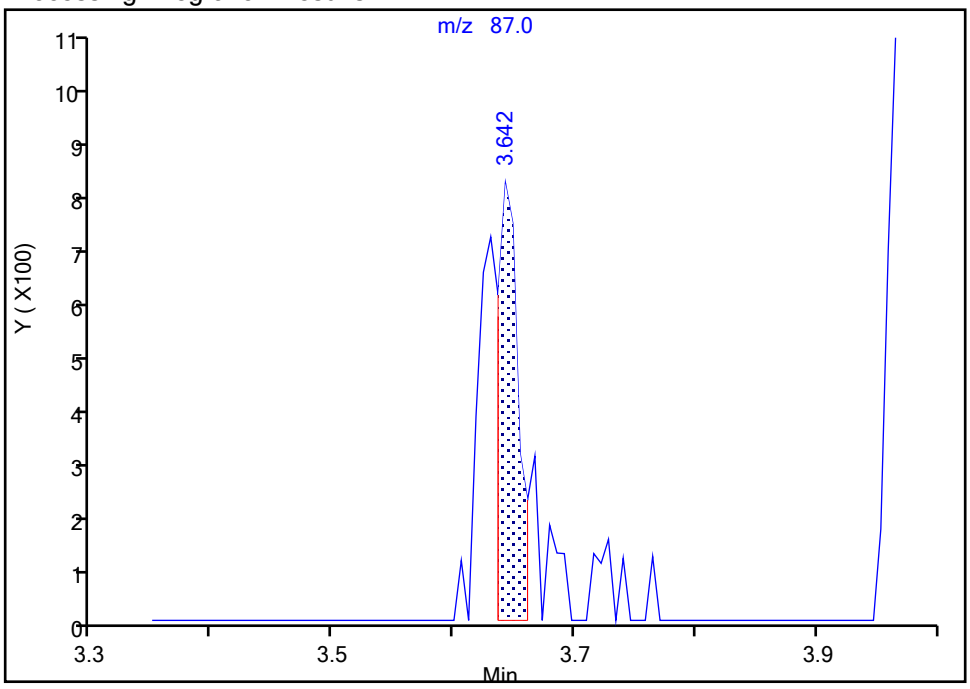
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

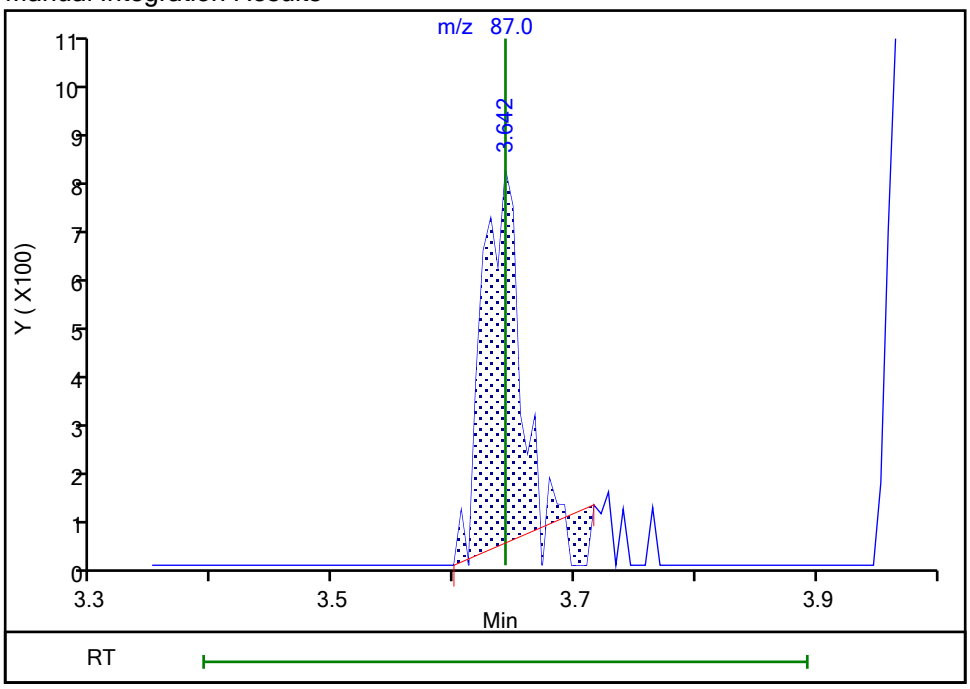
Processing Integration Results

RT: 3.64
Area: 928
Amount: 1.216370
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 1433
Amount: 1.645107
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

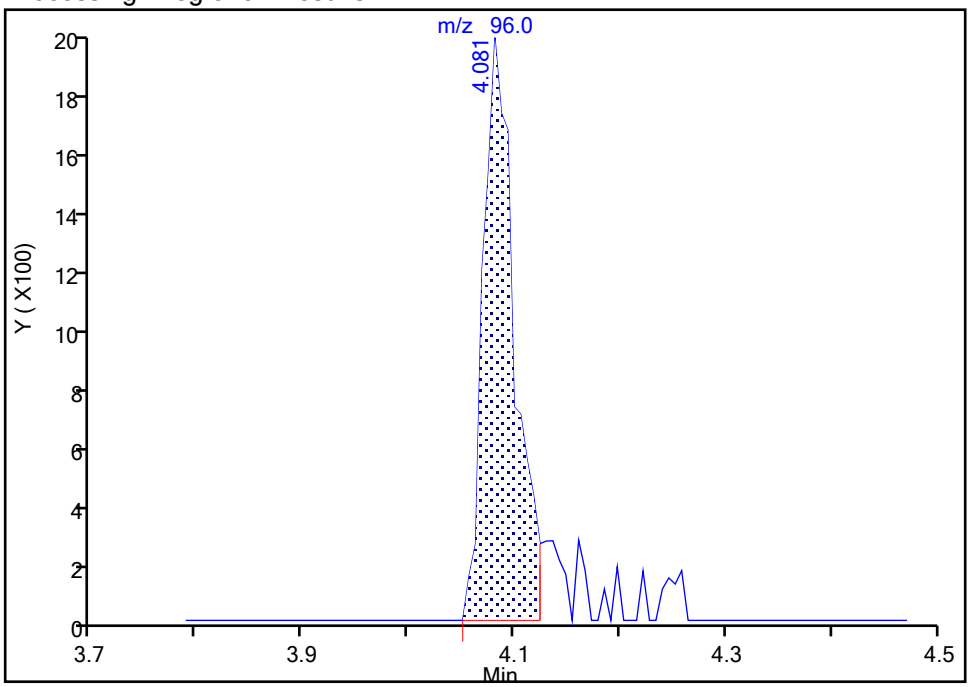
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

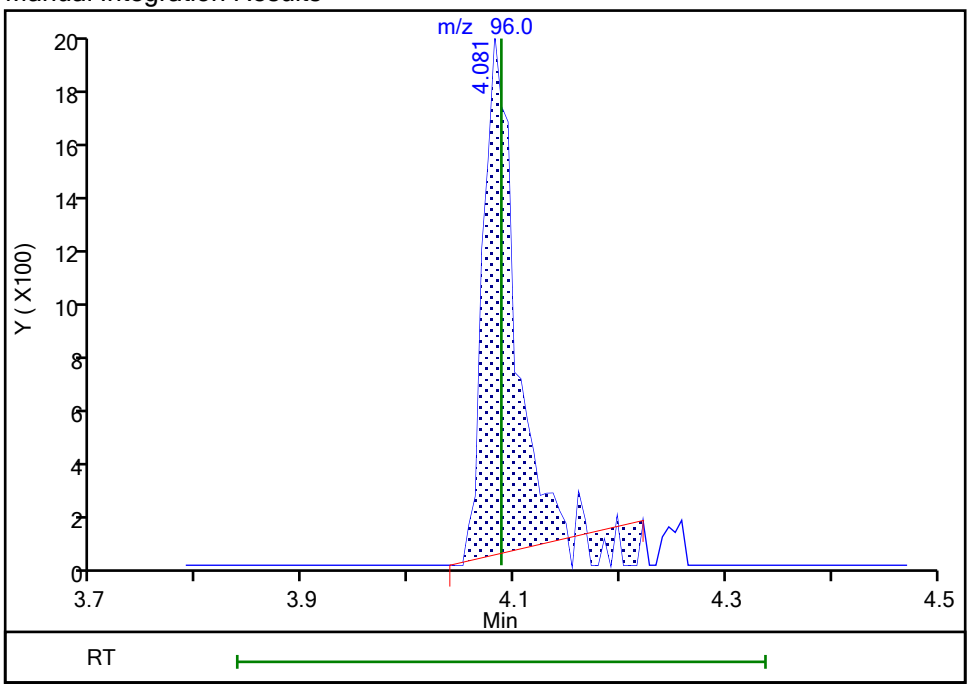
Processing Integration Results

RT: 4.08
Area: 4101
Amount: 2.151670
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 3806
Amount: 1.589768
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

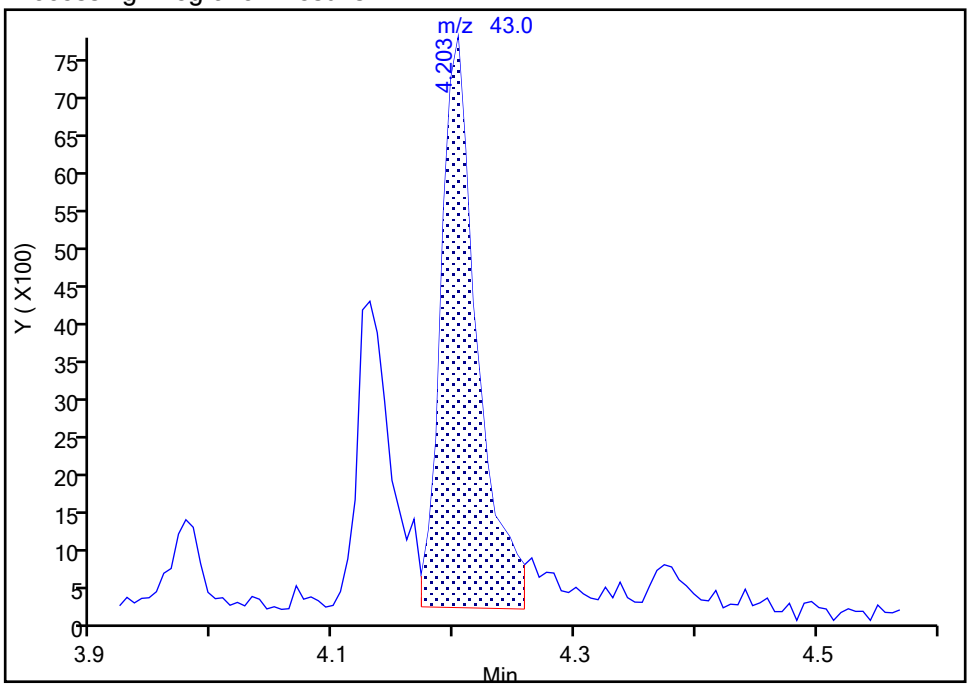
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

104 Ethyl acetate, CAS: 141-78-6

Signal: 1

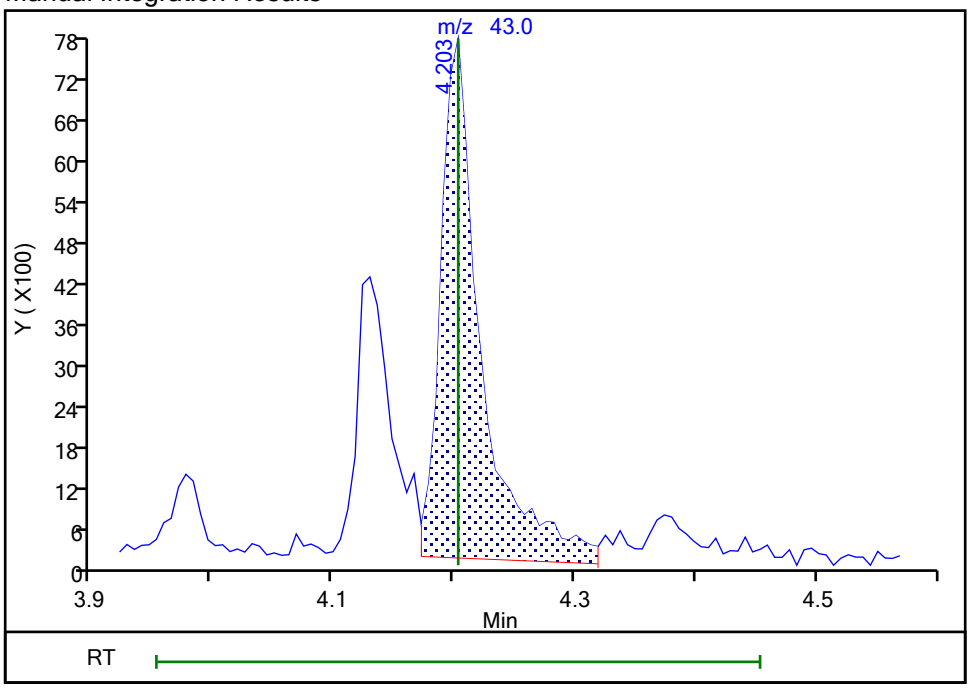
Processing Integration Results

RT: 4.20
Area: 15887
Amount: 4.412260
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 17872
Amount: 3.853827
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:44:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

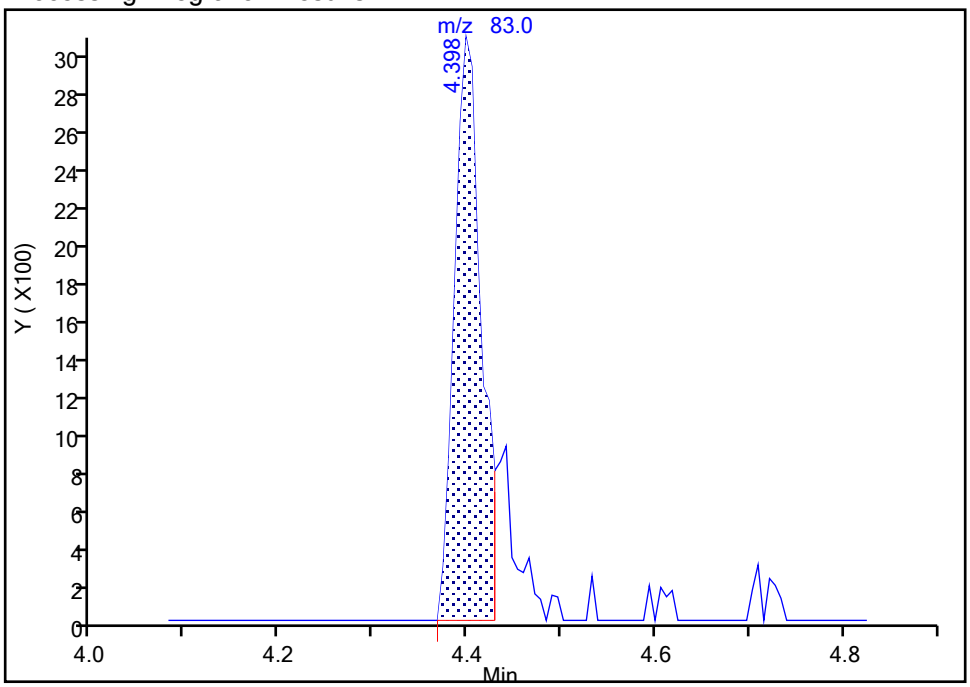
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

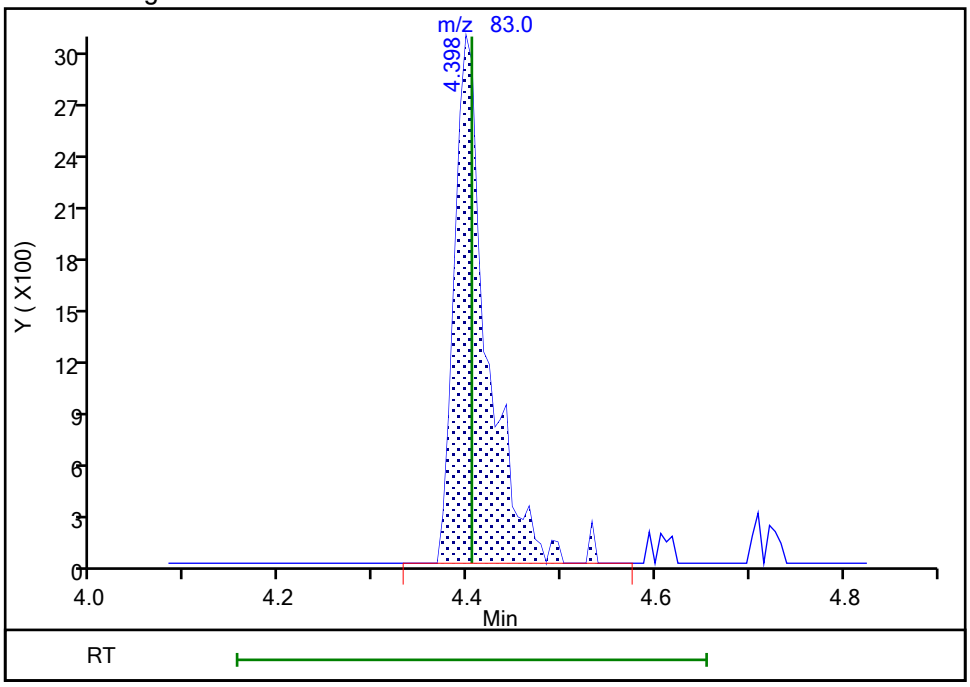
Processing Integration Results

RT: 4.40
Area: 5971
Amount: 1.747588
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 7290
Amount: 2.081956
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

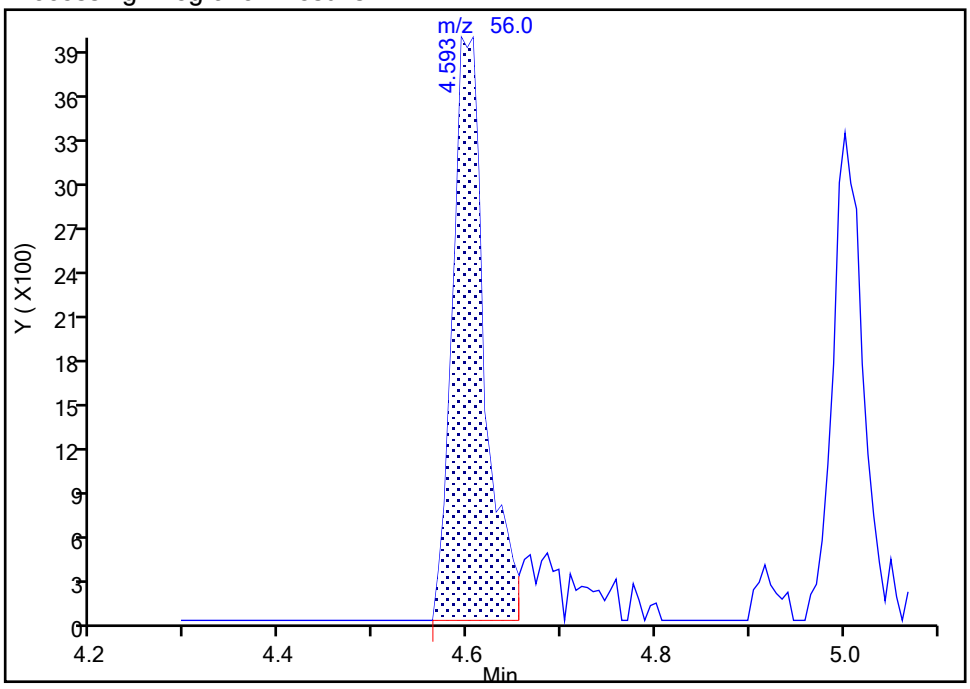
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

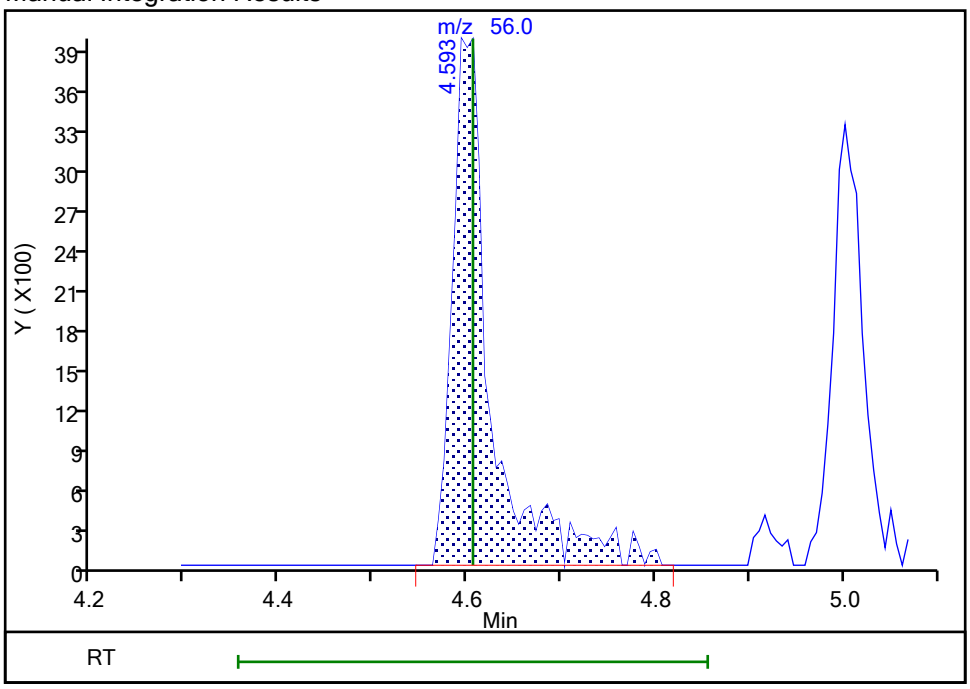
Processing Integration Results

RT: 4.59
Area: 9440
Amount: 1.930543
Amount Units: ug/l



Manual Integration Results

RT: 4.59
Area: 11368
Amount: 1.966571
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

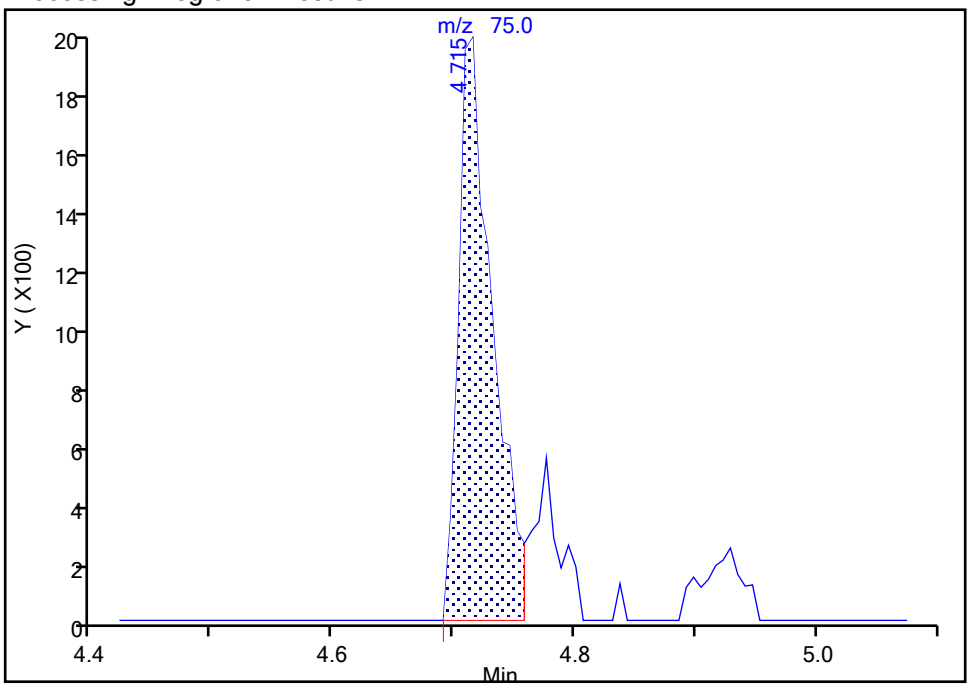
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

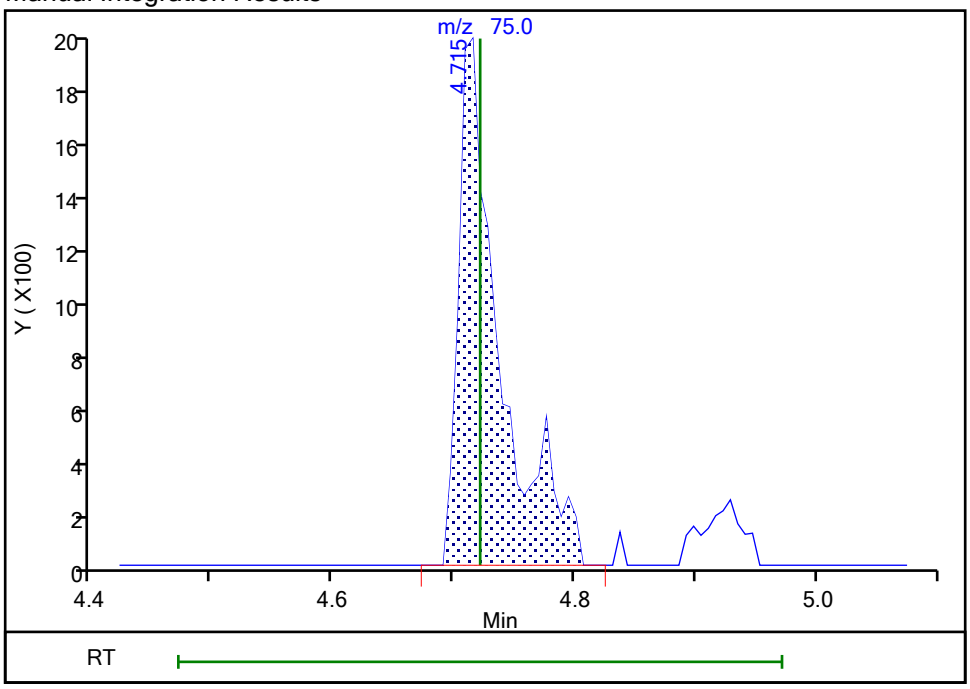
Processing Integration Results

RT: 4.72
Area: 3819
Amount: 1.908472
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 4574
Amount: 1.710850
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

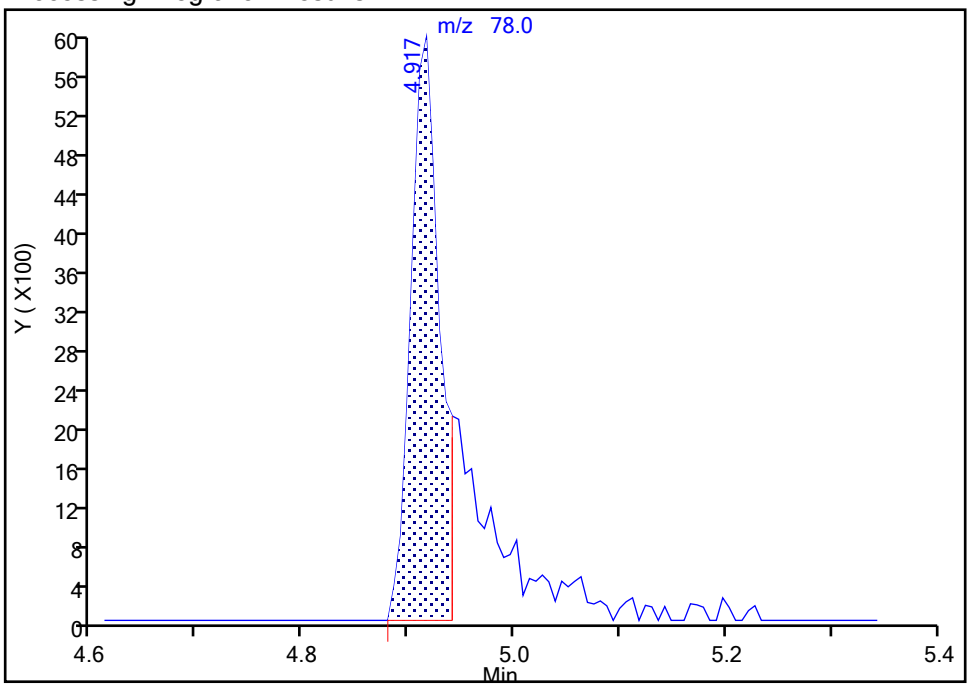
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

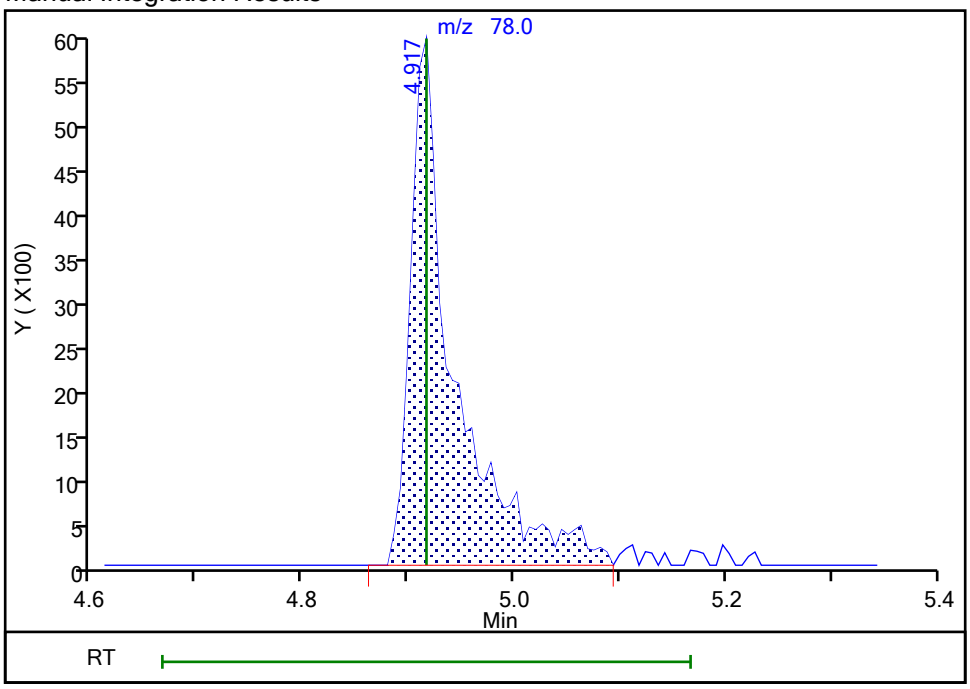
Processing Integration Results

RT: 4.92
Area: 11368
Amount: 1.712158
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 17071
Amount: 2.143550
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:22
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

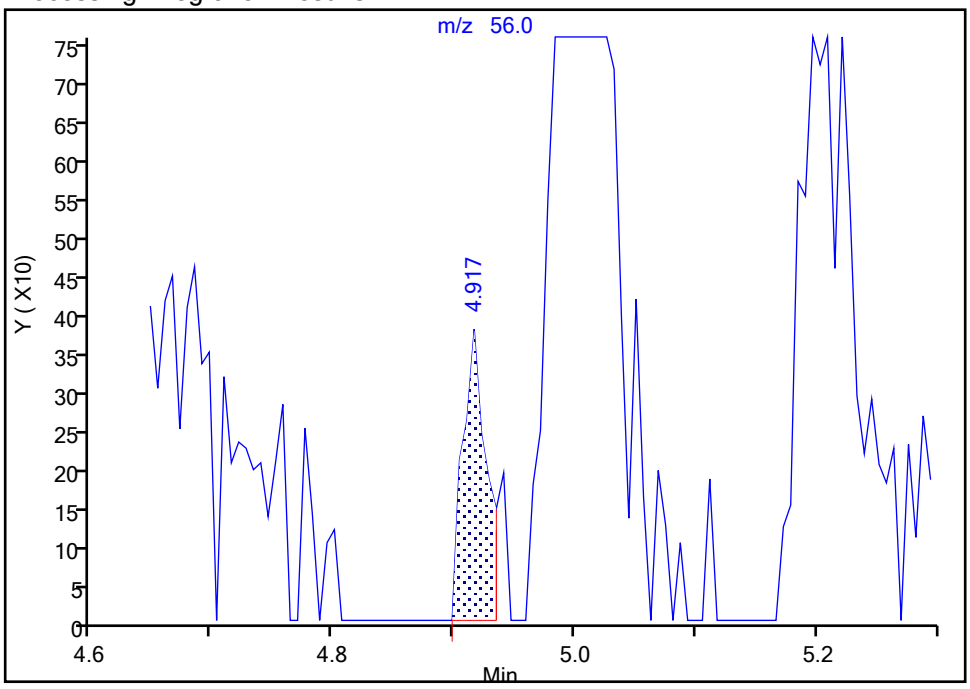
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

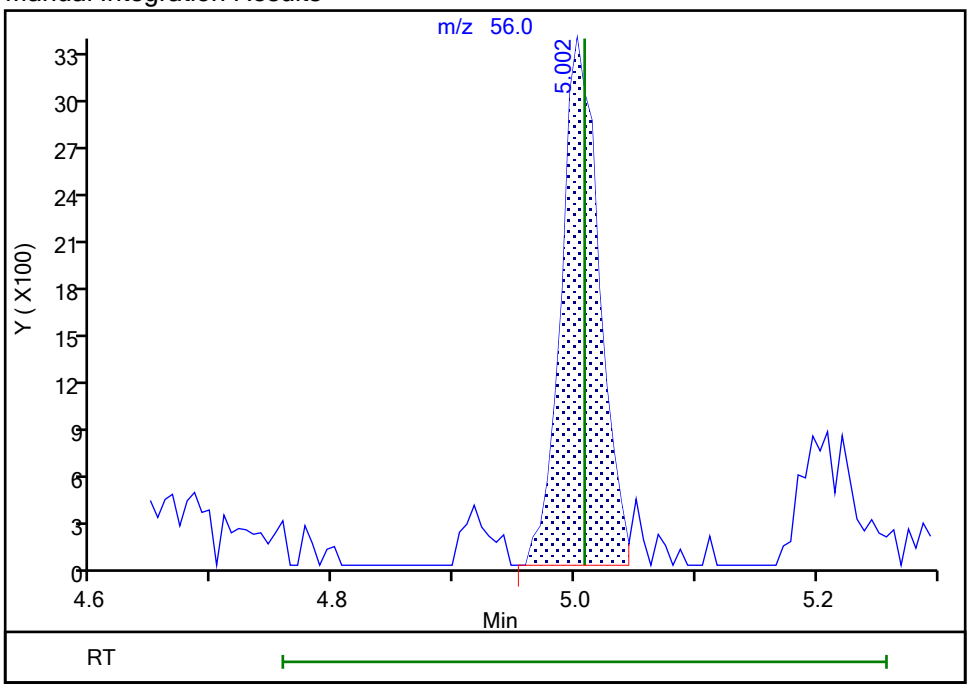
Processing Integration Results

RT: 4.92
Area: 519
Amount: 10.013397
Amount Units: ug/l



Manual Integration Results

RT: 5.00
Area: 7327
Amount: 47.953896
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:30
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

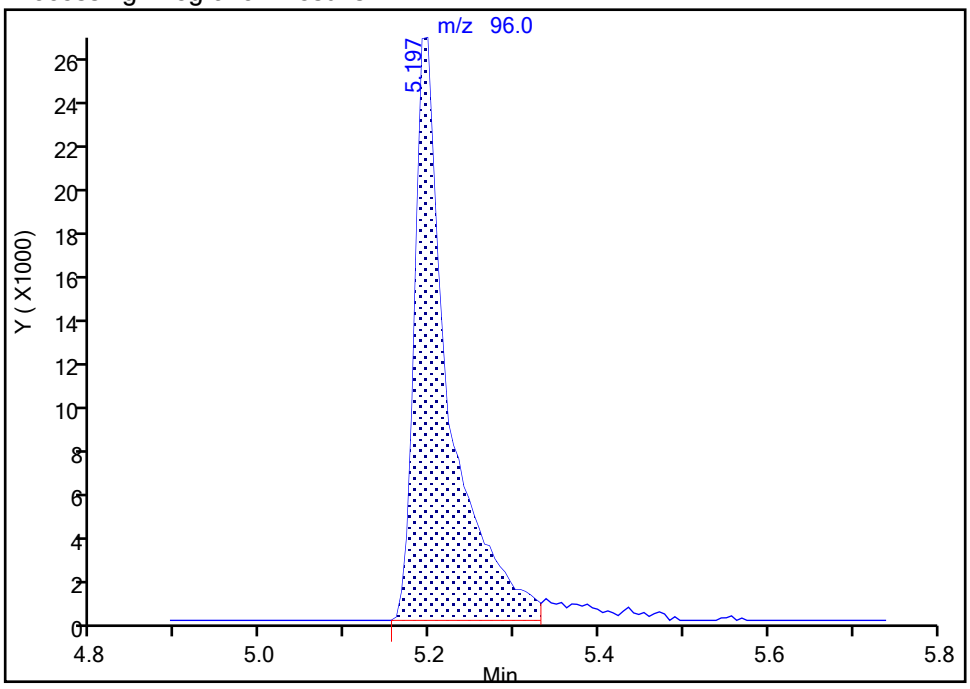
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

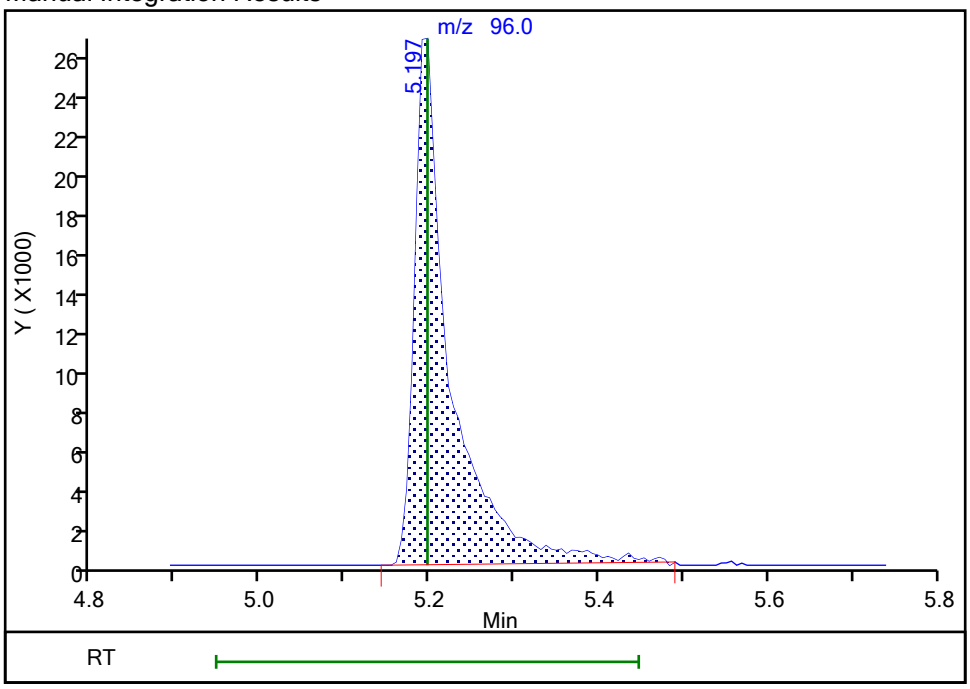
Processing Integration Results

RT: 5.20
Area: 74039
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 76821
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:42:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

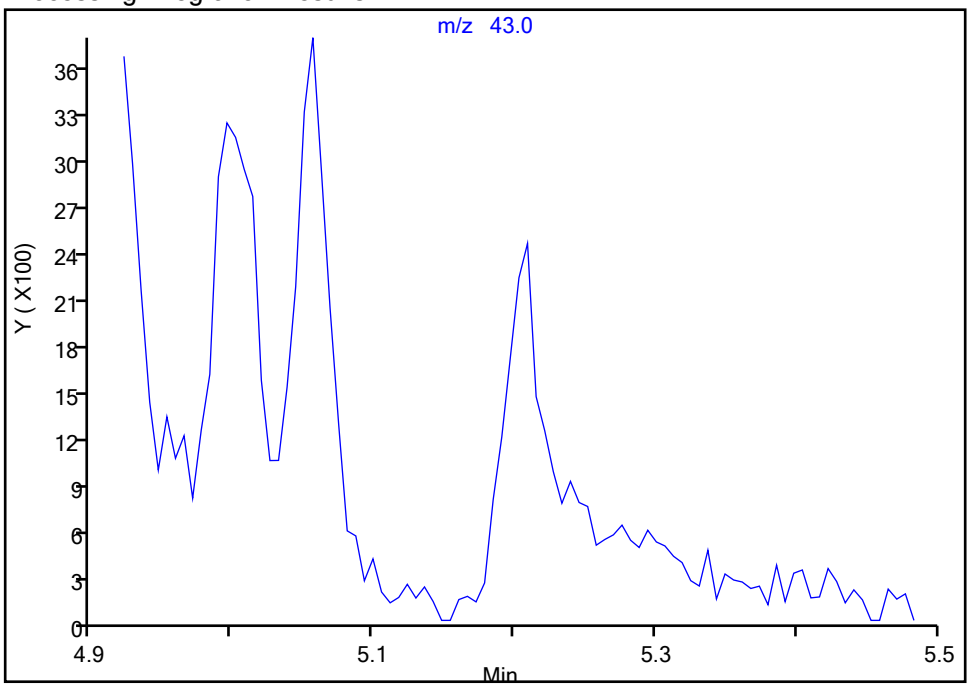
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

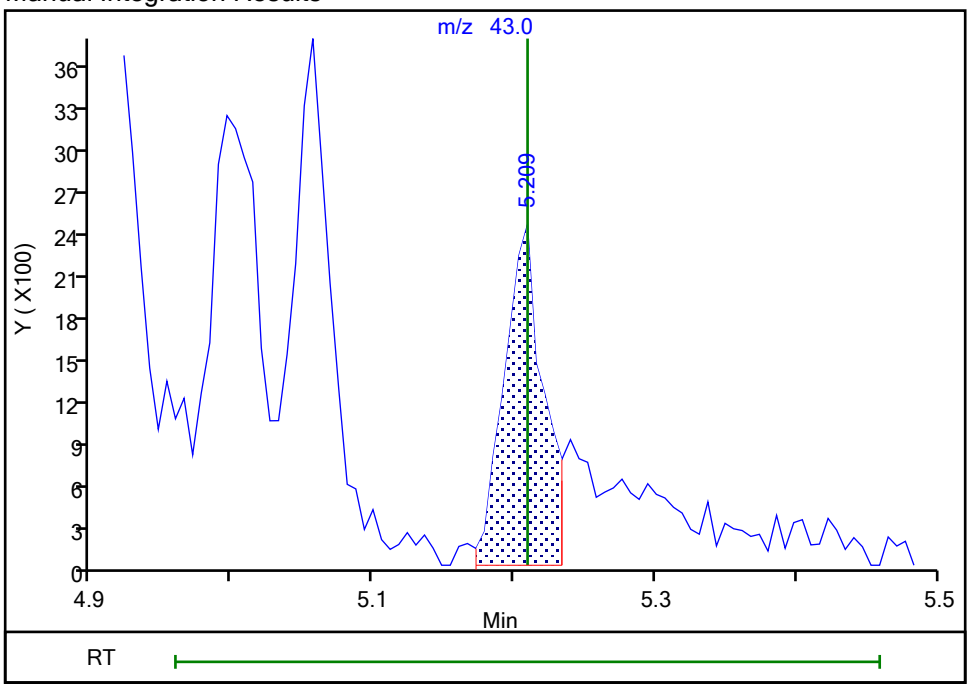
Not Detected
Expected RT: 5.21

Processing Integration Results



Manual Integration Results

RT: 5.21
Area: 4799
Amount: 3.132479
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:37
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

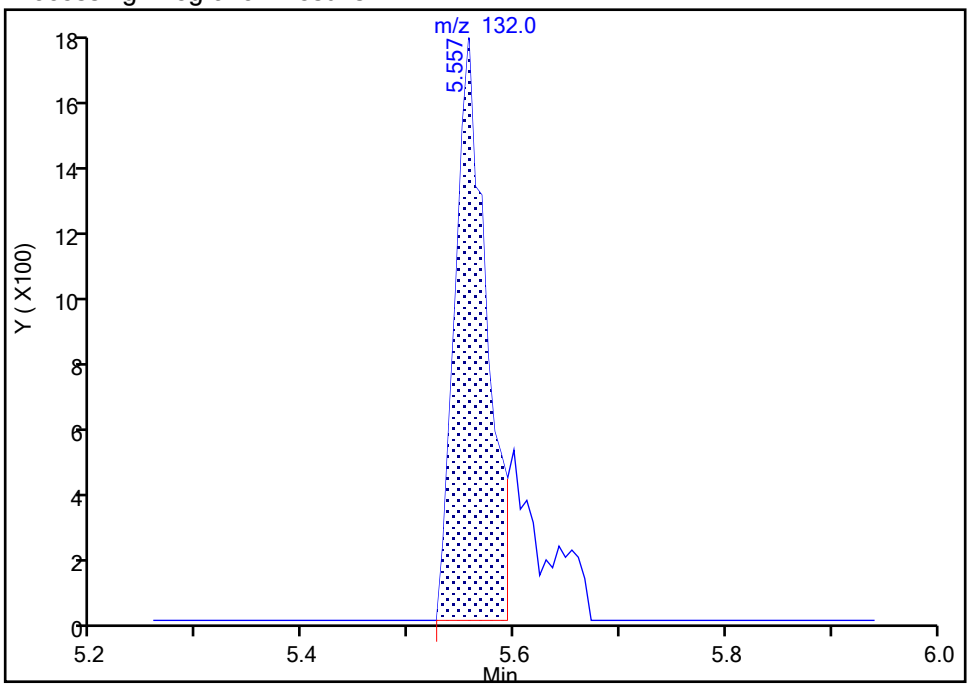
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

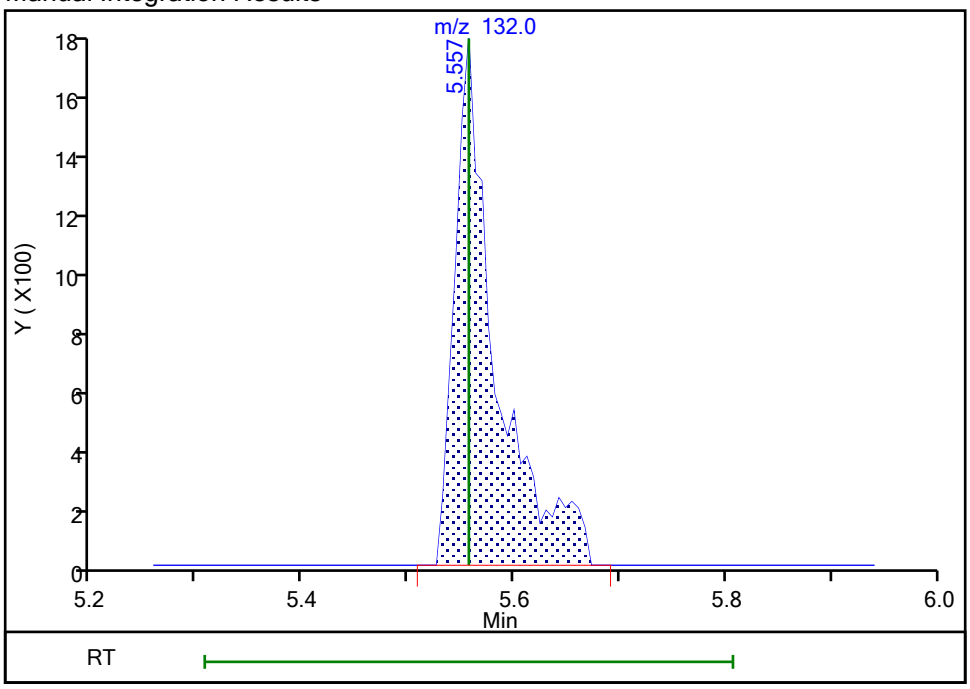
Processing Integration Results

RT: 5.56
Area: 3715
Amount: 1.978031
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 4799
Amount: 2.017616
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

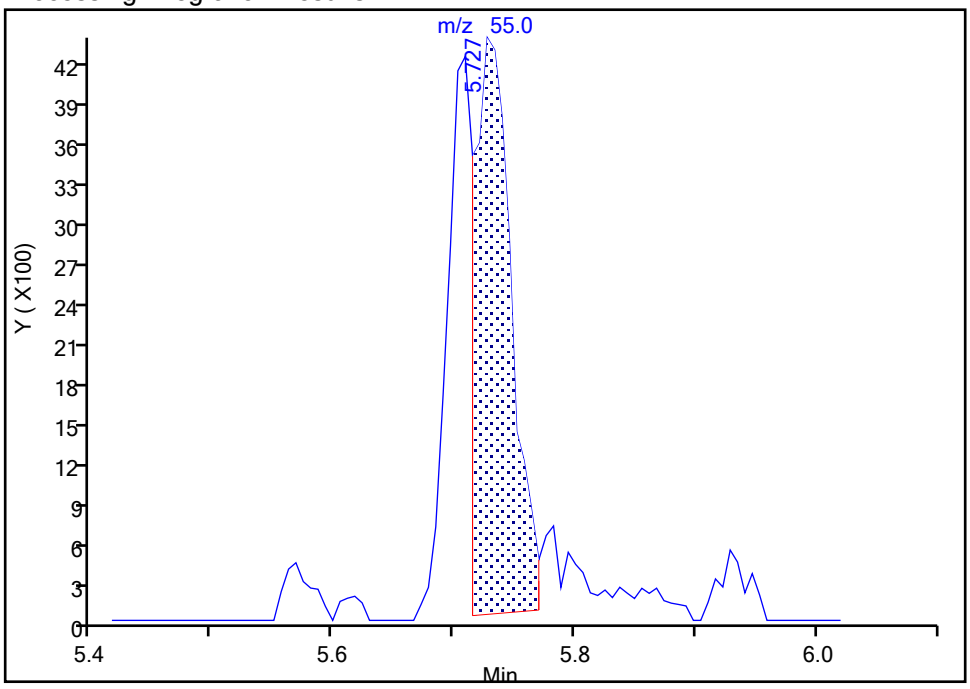
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

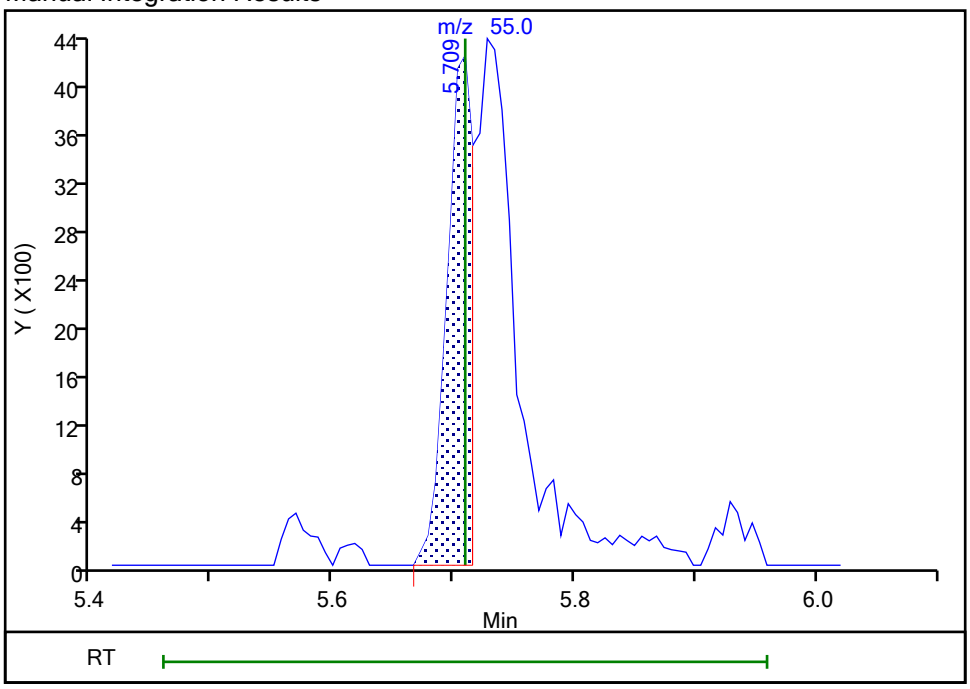
Processing Integration Results

RT: 5.73
Area: 9461
Amount: 1.978820
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 6408
Amount: 2.045348
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:45:50
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

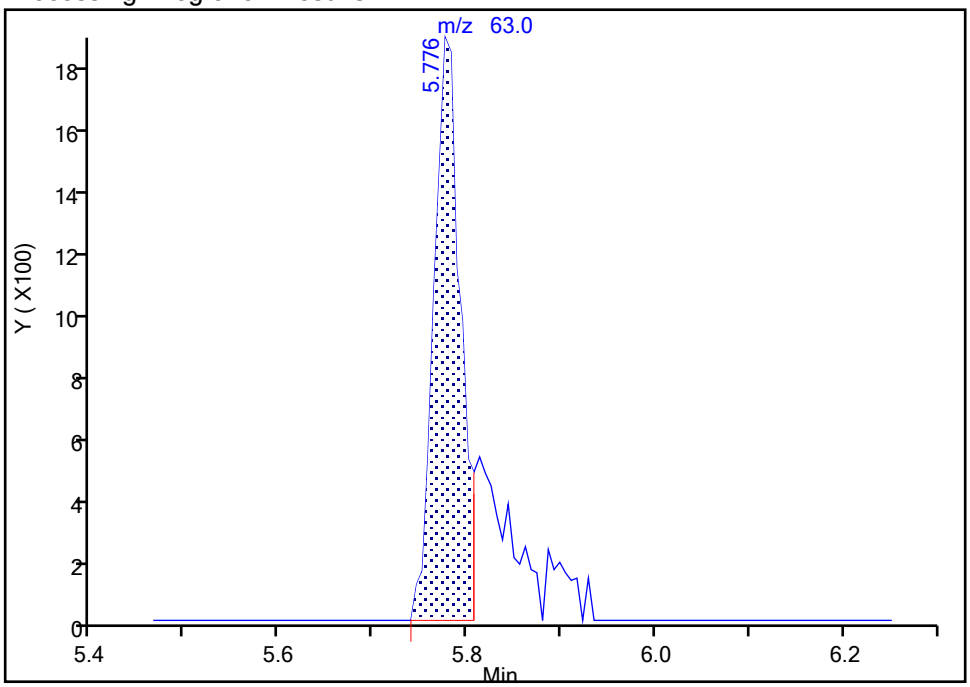
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

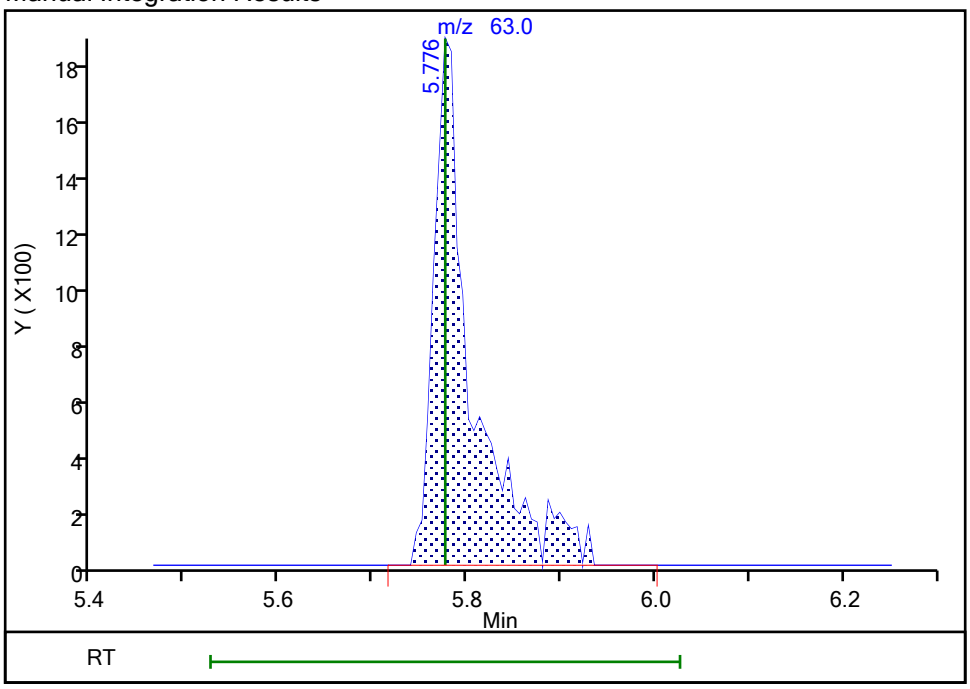
Processing Integration Results

RT: 5.78
Area: 3626
Amount: 1.916773
Amount Units: ug/l



Manual Integration Results

RT: 5.78
Area: 5228
Amount: 2.197836
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:46:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

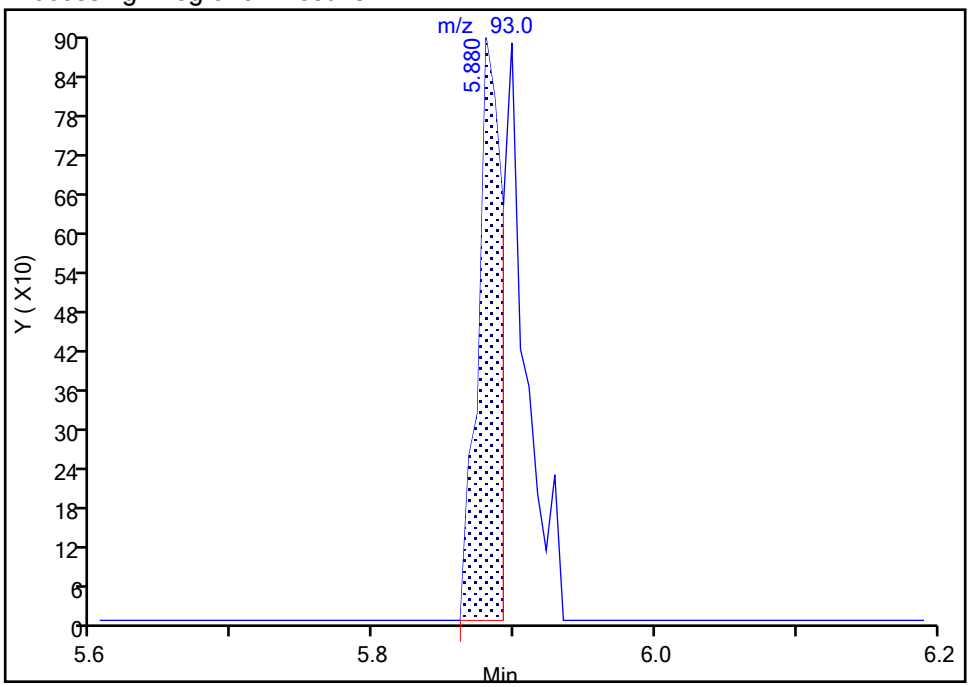
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

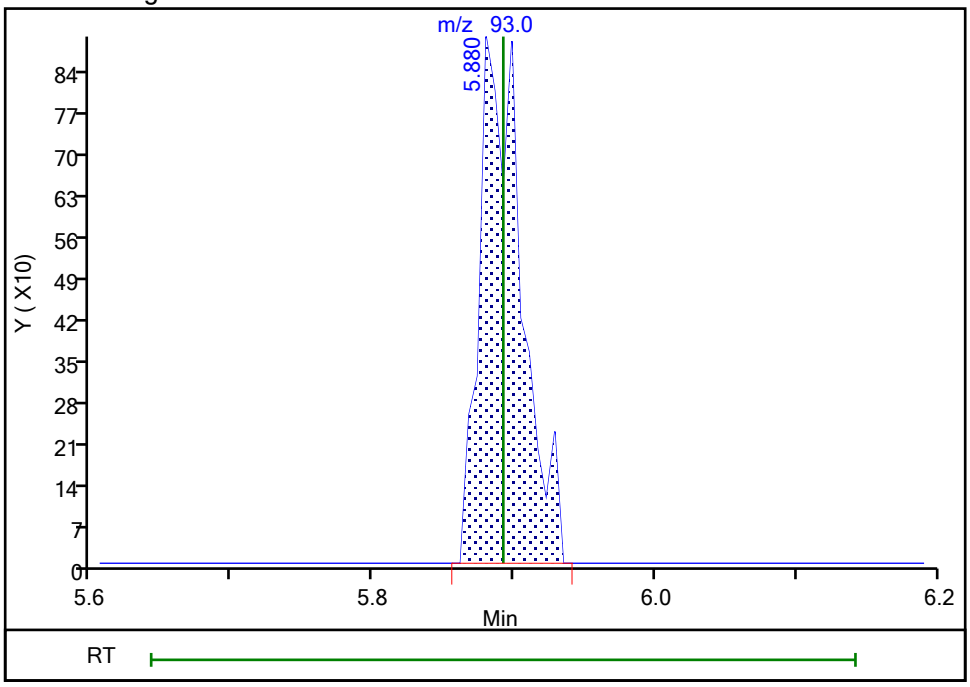
Processing Integration Results

RT: 5.88
Area: 1068
Amount: 1.188298
Amount Units: ug/l



Manual Integration Results

RT: 5.88
Area: 1872
Amount: 1.884721
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:46:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

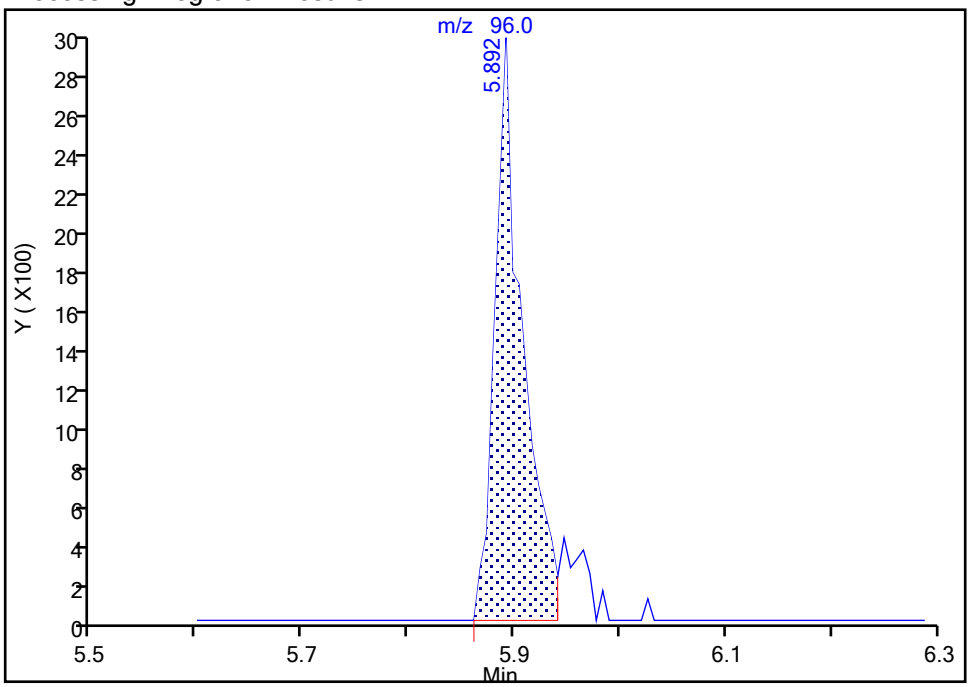
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

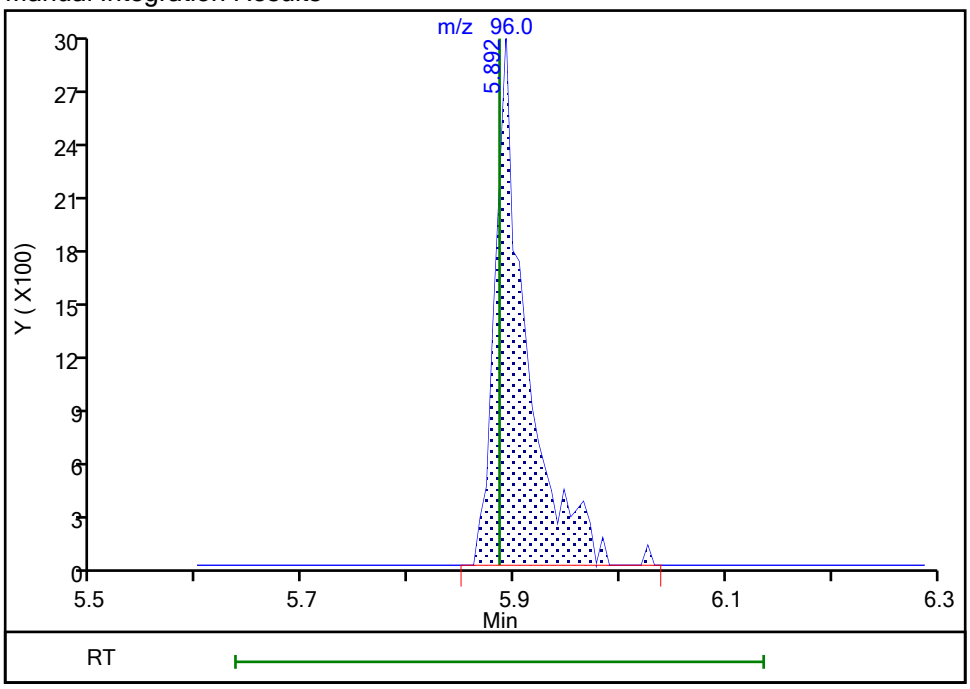
Processing Integration Results

RT: 5.89
Area: 5348
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 6023
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:42:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

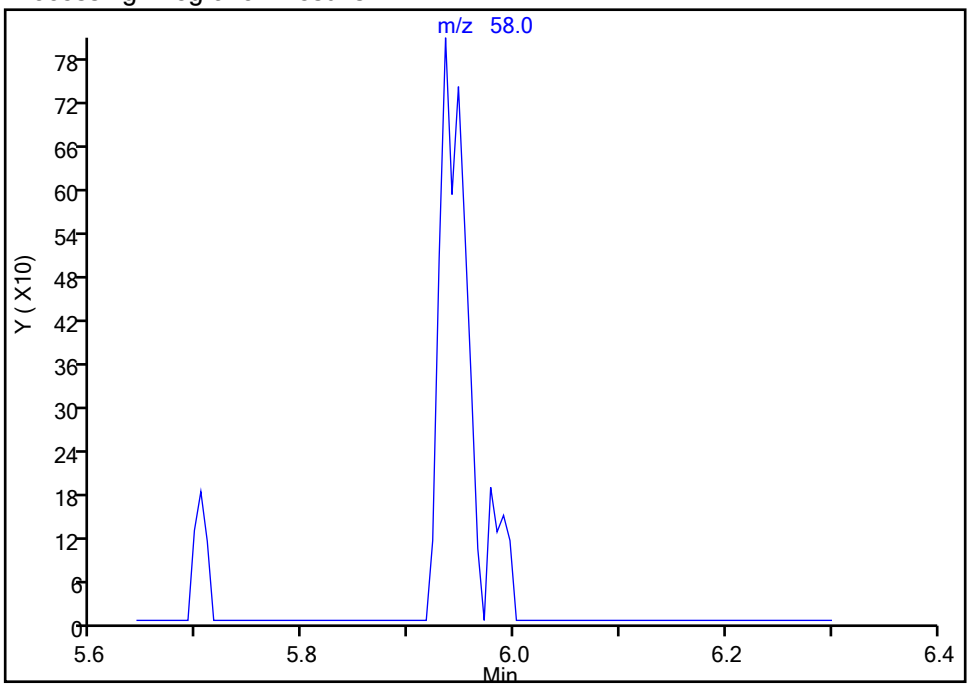
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

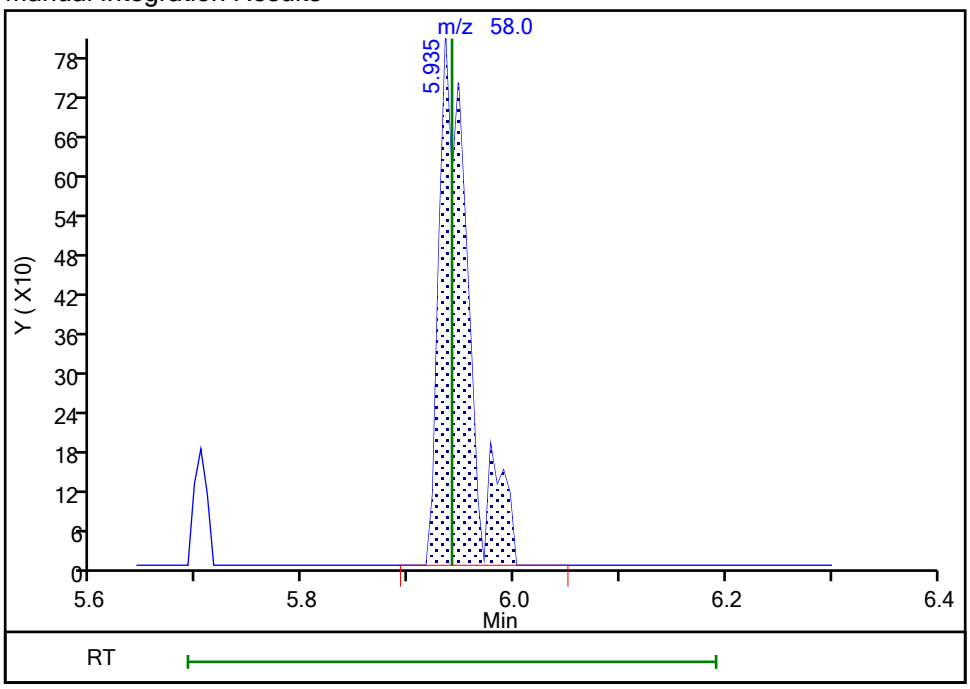
Not Detected
Expected RT: 5.94

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 1571
Amount: 48.001076
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:47:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

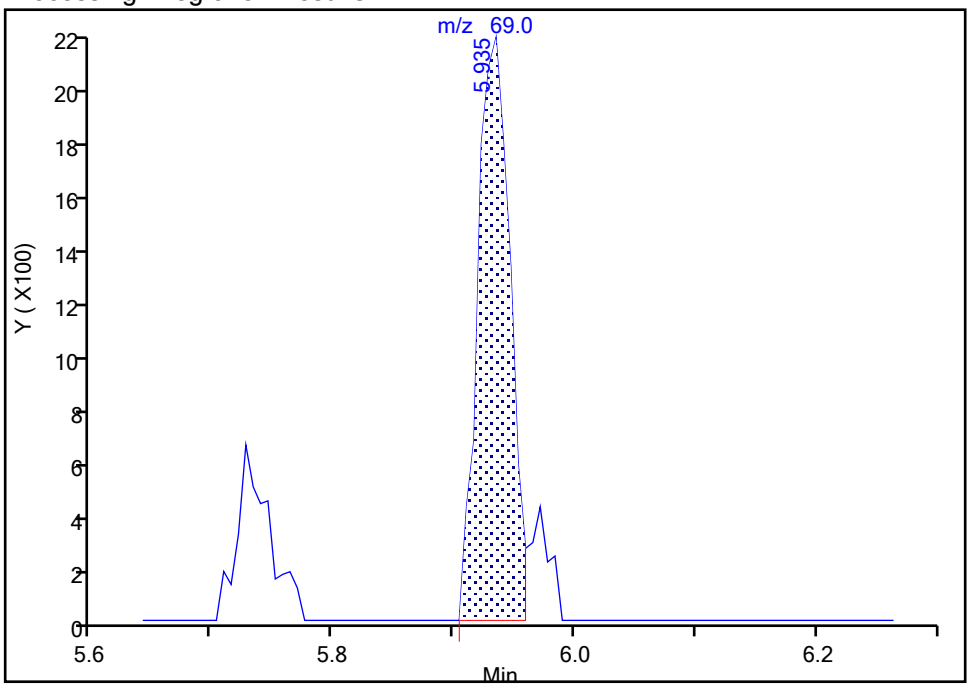
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

57 Methyl methacrylate, CAS: 80-62-6

Signal: 1

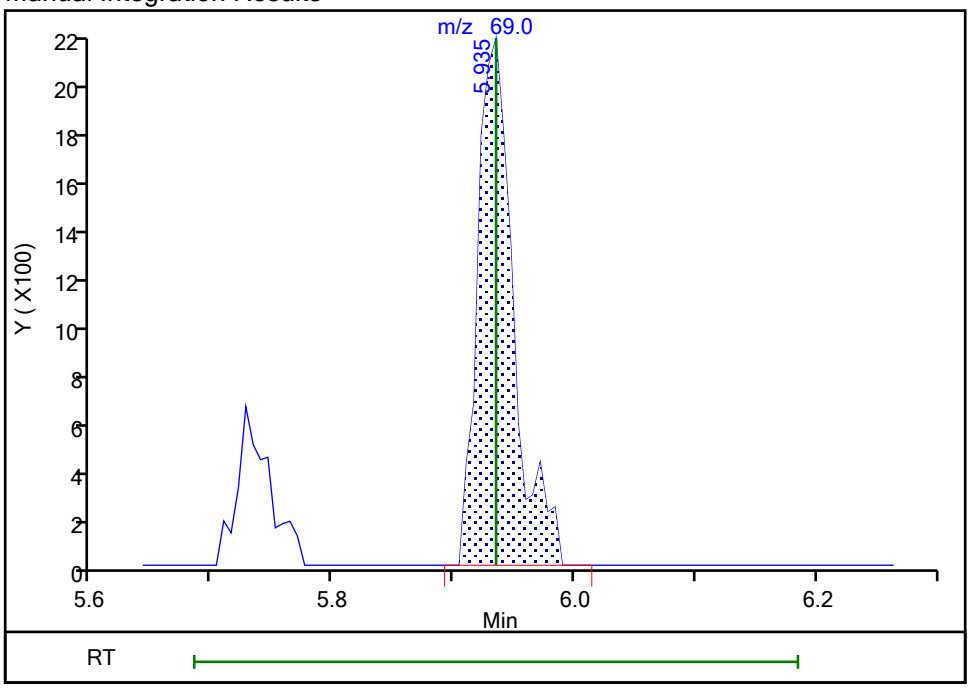
Processing Integration Results

RT: 5.93
Area: 4014
Amount: 3.857224
Amount Units: ug/l



Manual Integration Results

RT: 5.93
Area: 4439
Amount: 3.173407
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:46:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

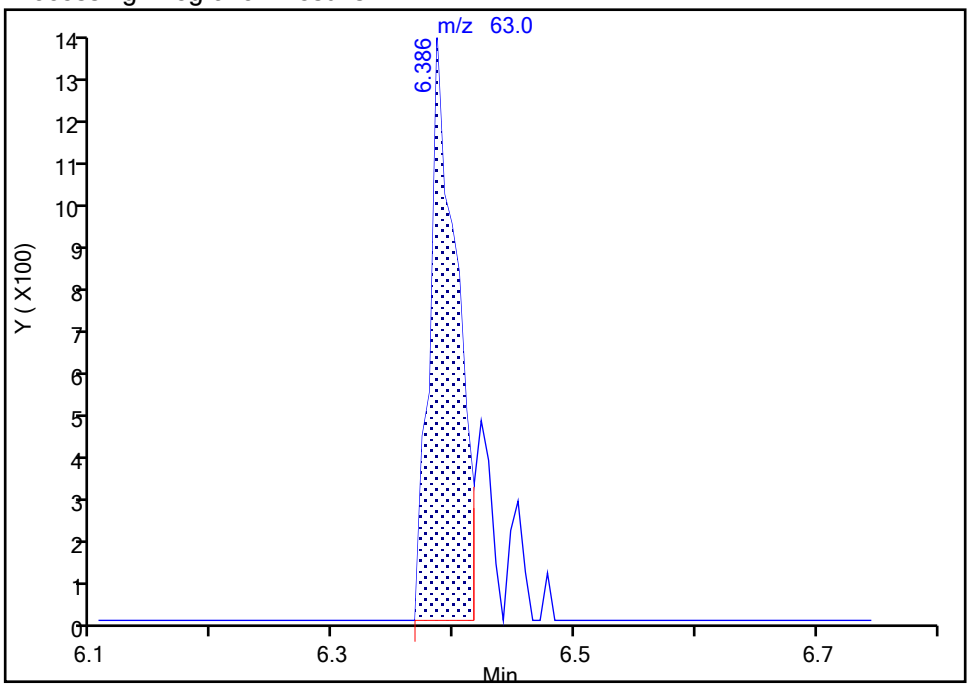
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

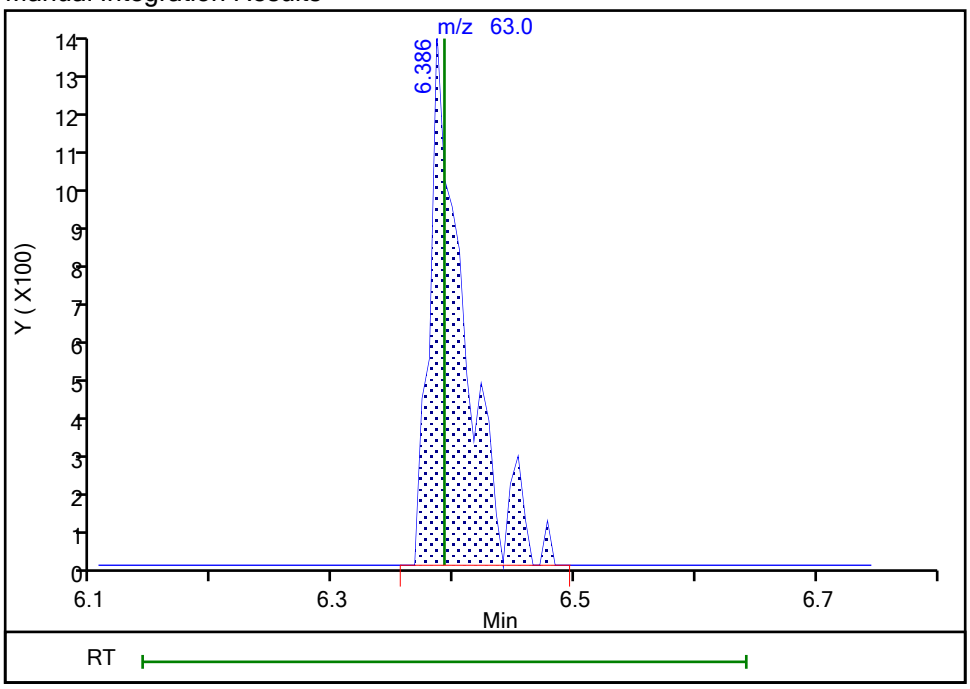
Processing Integration Results

RT: 6.39
Area: 2056
Amount: 1.841381
Amount Units: ug/l



Manual Integration Results

RT: 6.39
Area: 2646
Amount: 1.772756
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:47:08
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

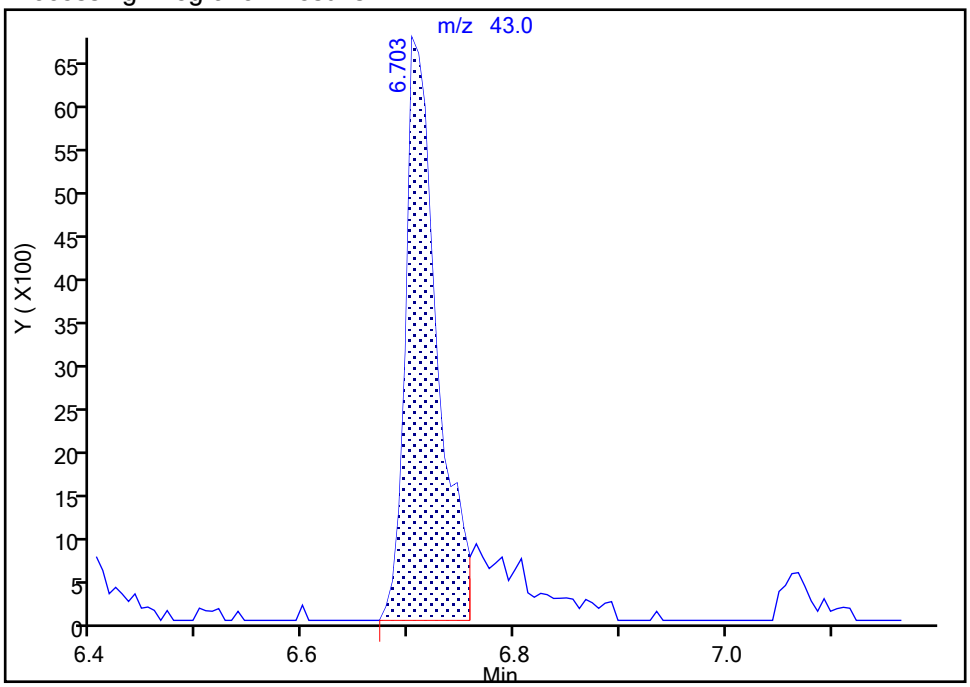
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

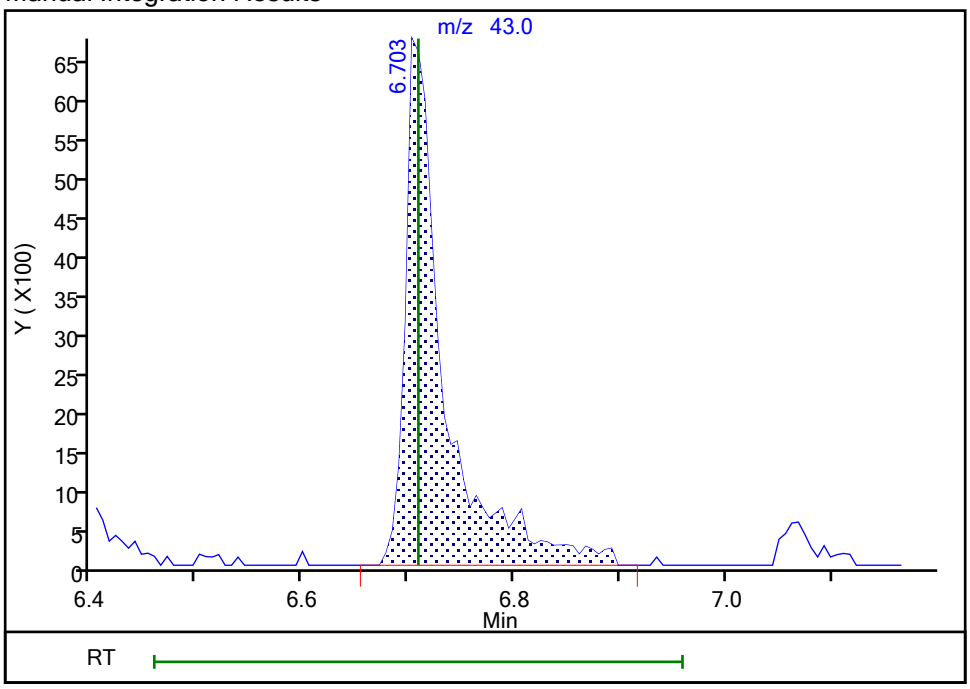
Processing Integration Results

RT: 6.70
Area: 14087
Amount: 3.917575
Amount Units: ug/l



Manual Integration Results

RT: 6.70
Area: 17293
Amount: 4.259736
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:47:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

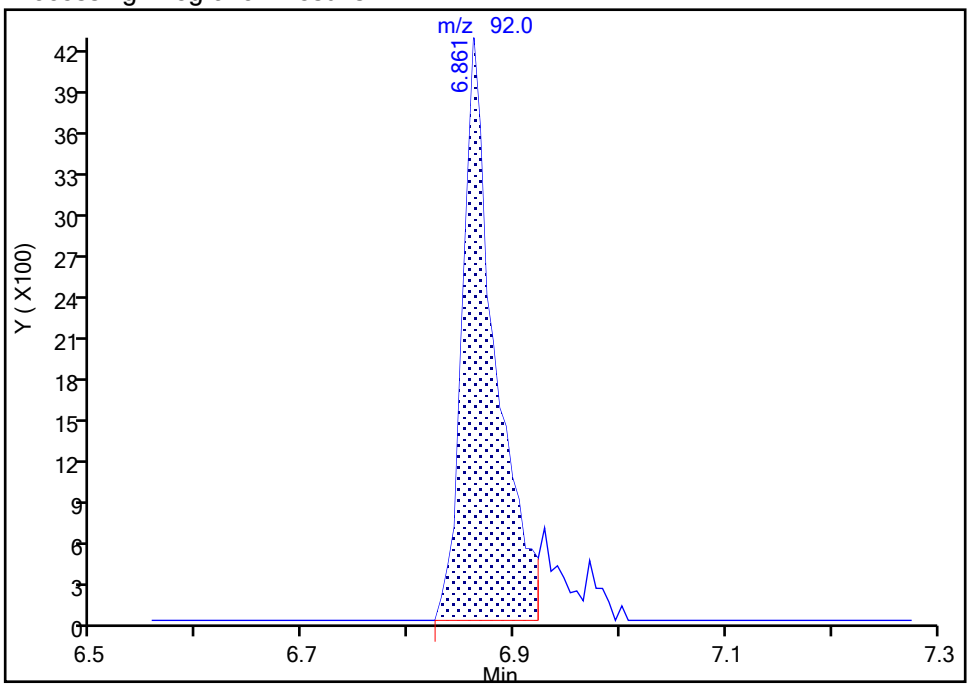
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 1

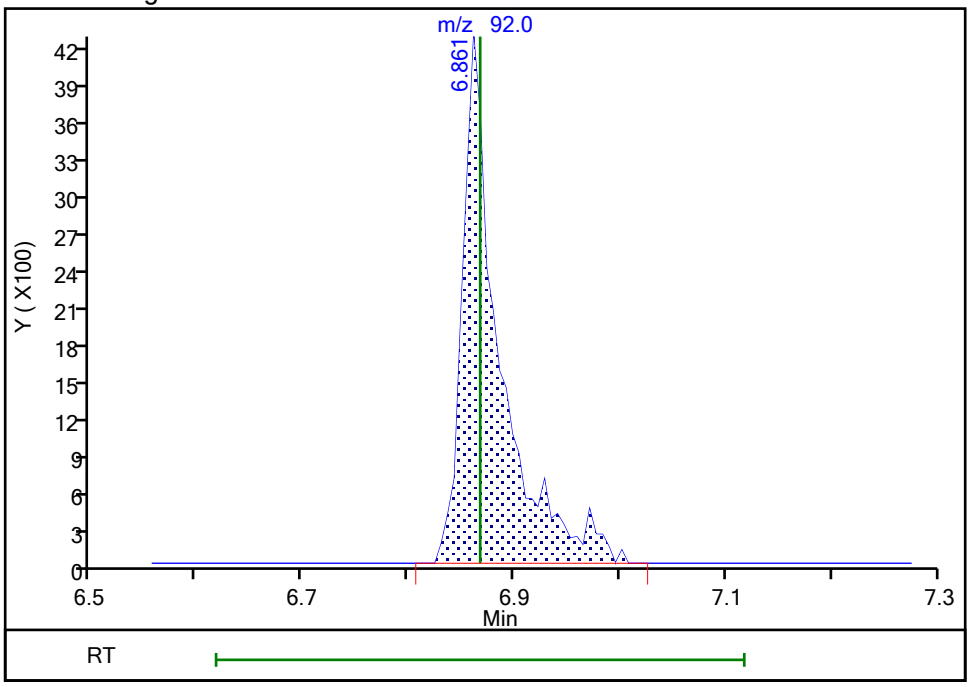
Processing Integration Results

RT: 6.86
Area: 9080
Amount: 2.000700
Amount Units: ug/l



Manual Integration Results

RT: 6.86
Area: 10330
Amount: 2.041232
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:47:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

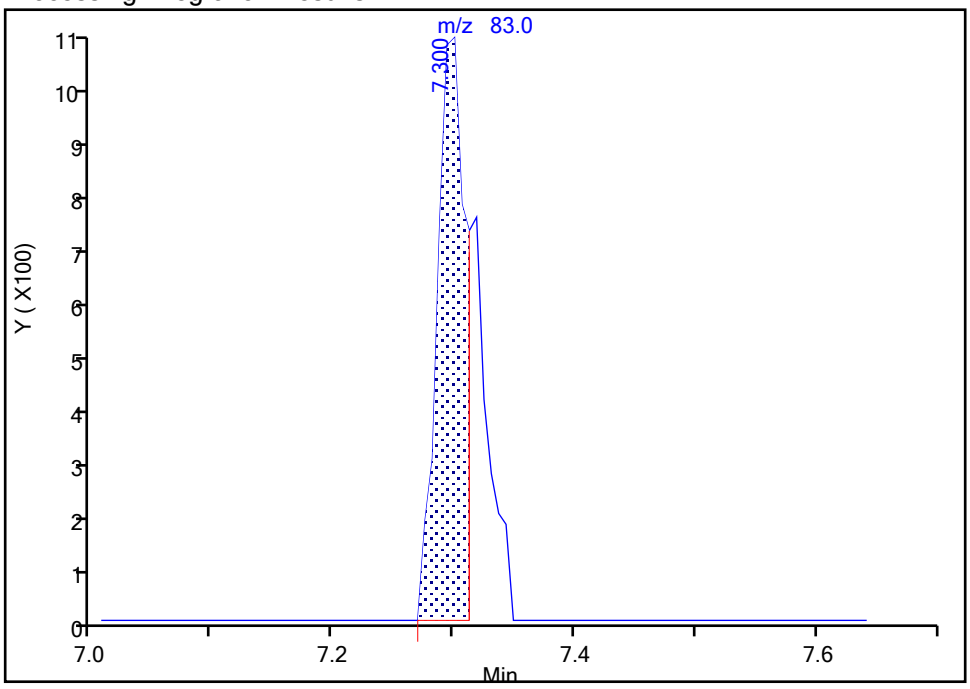
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

65 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

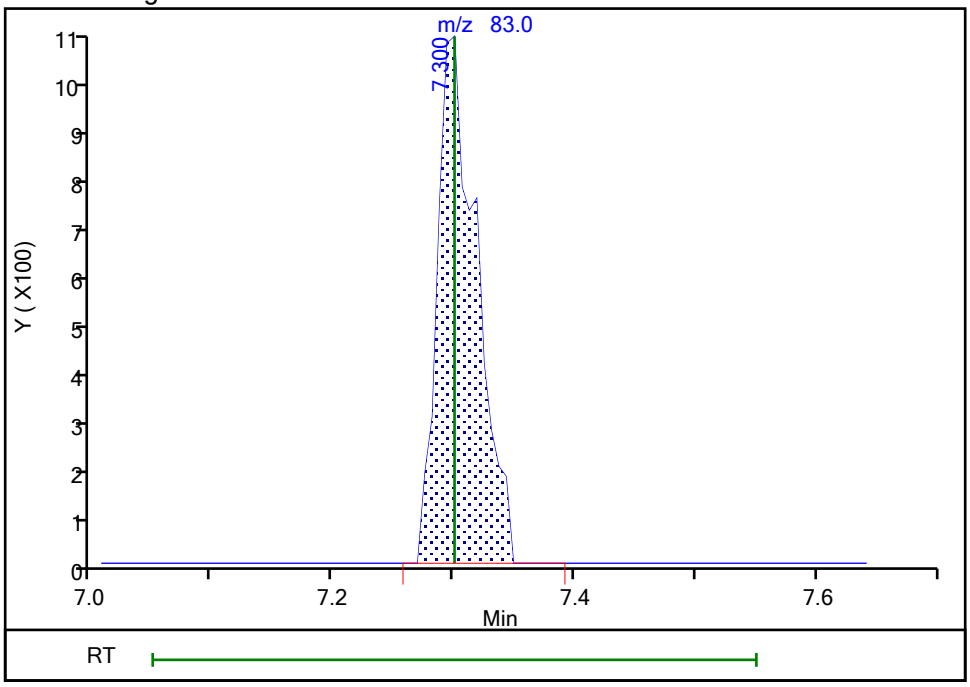
Processing Integration Results

RT: 7.30
Area: 1759
Amount: 1.645339
Amount Units: ug/l



Manual Integration Results

RT: 7.30
Area: 2413
Amount: 1.893120
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:47:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

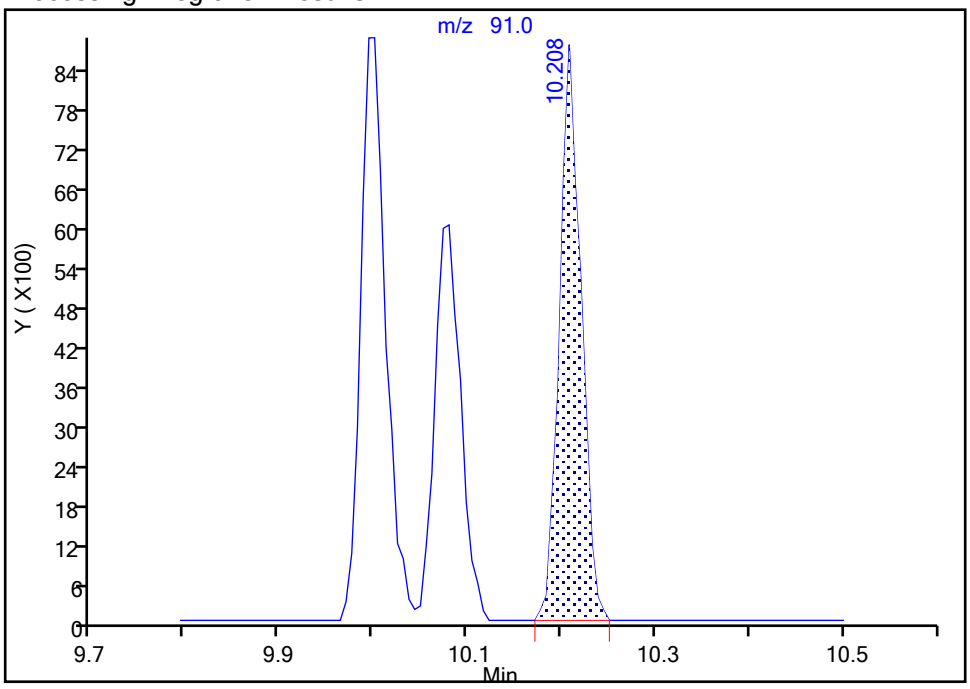
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

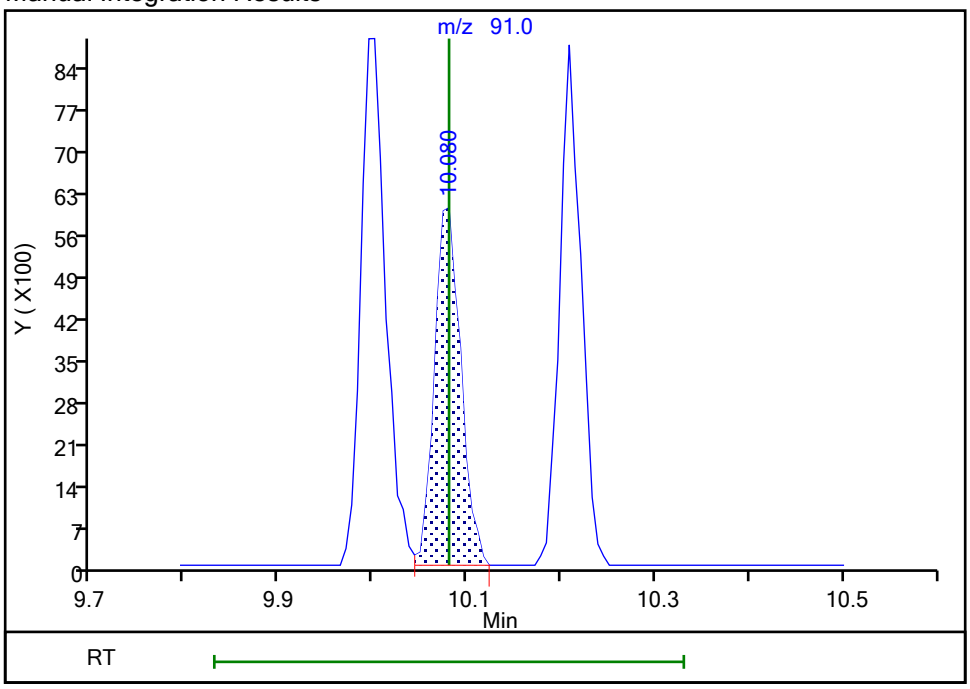
Processing Integration Results

RT: 10.21
Area: 13933
Amount: 2.235520
Amount Units: ug/l



Manual Integration Results

RT: 10.08
Area: 11686
Amount: 2.051072
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:48:06
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

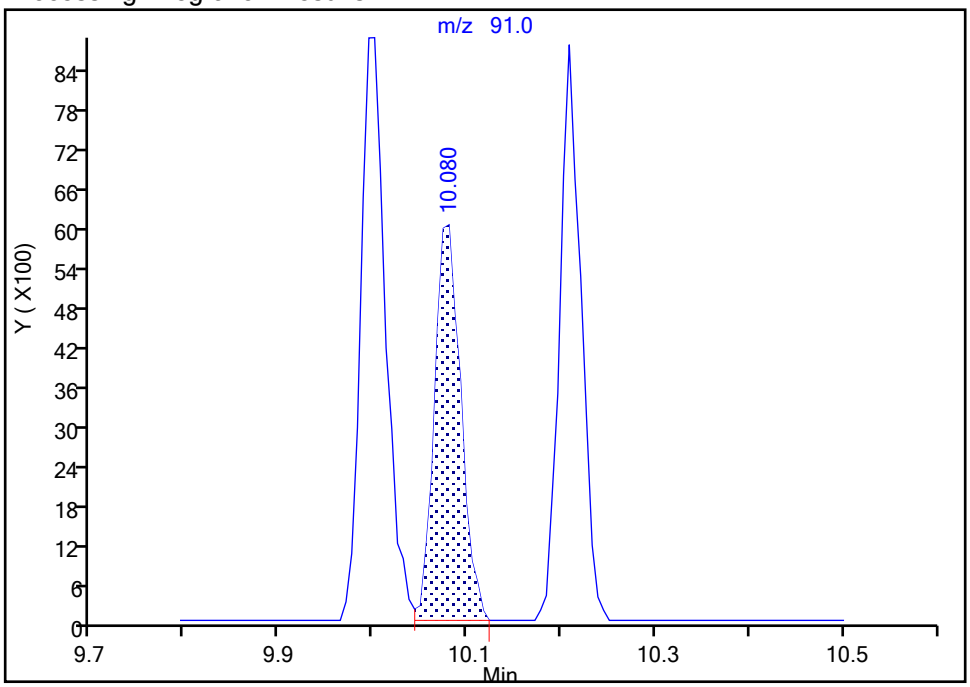
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3728.D
Injection Date: 09-Nov-2020 04:14:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

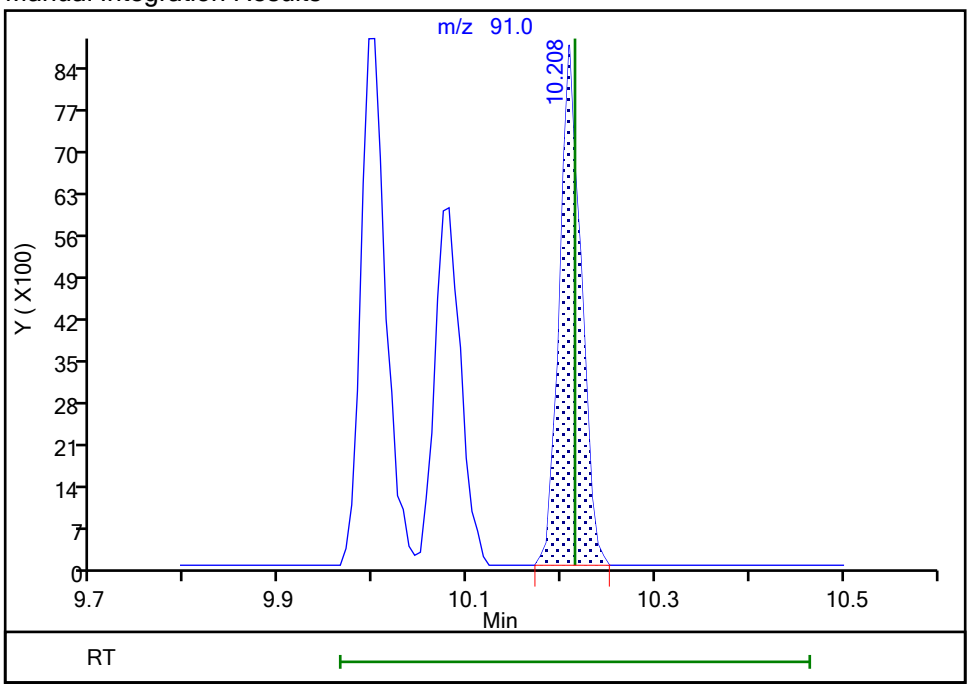
Processing Integration Results

RT: 10.08
Area: 11686
Amount: 2.346513
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 13933
Amount: 2.102303
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:47:58
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Nov-2020 04:36:30 ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:12:12 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 05:52:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.972	0.006	0	49572	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	79883	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.886	0.006	76	6314	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.337	0.007	90	61434	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	94	35376	50.0	50.0	
17 Ethanol	45	2.167	2.167	0.000	99	13222	200.0	176.9	M
18 Ethyl ether	59	2.222	2.228	-0.006	90	8770	5.00	4.23	
19 Acrolein	56	2.332	2.338	-0.006	97	16227	23.8	19.2	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	8393	5.00	4.92	M
21 112TCTFE	101	2.423	2.429	-0.006	95	7396	5.00	5.08	M
22 Acetone	43	2.490	2.490	0.000	97	17994	10.0	9.82	M
23 Iodomethane	142	2.539	2.539	0.000	100	8034	5.00	0.9482	M
24 Carbon disulfide	76	2.588	2.588	0.000	97	21775	5.00	4.39	M
105 Isopropyl alcohol	45	2.667	2.673	-0.006	98	14349	50.0	45.1	
118 Acetonitrile	40	2.740	2.746	-0.006	96	23325	50.0	43.4	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	84	3156	5.00	4.03	
26 Methyl acetate	43	2.807	2.807	0.000	99	33664	10.0	8.52	
27 Methylene Chloride	84	2.874	2.874	0.000	85	8631	5.00	4.30	
35 2-Methyl-2-propanol	59	3.057	3.057	0.000	95	14348	50.0	51.5	
30 Acrylonitrile	53	3.124	3.130	-0.006	98	94402	50.0	42.7	
28 trans-1,2-Dichloroethene	96	3.130	3.136	-0.006	90	8593	5.00	4.21	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	90	22021	5.00	5.11	
31 Hexane	57	3.398	3.405	-0.007	93	8576	5.00	3.85	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	21939	5.00	4.76	M
34 2-Chloro-1,3-butadiene	53	3.612	3.618	-0.006	52	23637	5.00	4.87	M
33 Vinyl acetate	86	3.612	3.618	-0.006	96	2457	10.0	12.4	
36 Isopropyl ether	87	3.636	3.642	-0.006	88	4154	5.00	4.59	
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	93	39448	5.00	4.92	
38 2,2-Dichloropropane	77	4.075	4.075	0.000	71	11613	5.00	4.48	
39 cis-1,2-Dichloroethene	96	4.081	4.087	-0.006	89	11433	5.00	4.59	M
40 2-Butanone (MEK)	43	4.136	4.130	0.006	96	18695	10.0	9.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.185	-0.006	99	38017	50.0	42.2	
104 Ethyl acetate	43	4.203	4.203	0.000	98	41357	10.0	8.58	
42 Chlorobromomethane	128	4.307	4.313	-0.006	76	5127	5.00	4.77	
43 Methacrylonitrile	67	4.325	4.331	-0.006	96	48051	50.0	42.3	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	2288	10.0	8.30	
45 Chloroform	83	4.404	4.404	0.000	93	17091	5.00	4.69	M
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	95	14251	5.00	4.49	
47 Cyclohexane	56	4.606	4.606	0.000	91	27638	5.00	4.60	M
48 Carbon tetrachloride	117	4.715	4.709	0.006	95	10282	5.00	4.99	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	88	14357	5.00	5.16	M
108 Isobutyl alcohol	43	4.916	4.917	-0.001	76	17609	125.0	95.0	
50 Benzene	78	4.910	4.917	-0.007	91	42045	5.00	5.08	M
51 1,2-Dichloroethane	62	4.941	4.941	0.000	93	17860	5.00	5.49	M
116 n-Butanol	56	5.008	5.008	0.000	43	18285	125.0	115.1	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	84	22441	5.00	4.99	
53 n-Heptane	43	5.203	5.209	-0.006	45	10120	5.00	4.59	a
54 Trichloroethene	132	5.550	5.557	-0.007	95	11178	5.00	4.52	M
117 Ethyl acrylate	55	5.703	5.709	-0.006	95	14745	5.00	4.53	a
114 Methylcyclohexane	83	5.733	5.740	-0.007	88	13033	5.00	4.70	
55 1,2-Dichloropropane	63	5.776	5.776	0.000	95	10978	5.00	4.44	M
56 Dibromomethane	93	5.886	5.892	-0.006	94	4933	5.00	4.78	
57 Methyl methacrylate	69	5.935	5.935	0.000	88	11412	10.0	7.85	
115 1,4-Dioxane	58	5.947	5.941	0.006	32	3400	100.0	99.1	M
58 Dichlorobromomethane	83	6.063	6.063	0.000	93	6174	5.00	3.85	
106 2-Nitropropane	43	6.300	6.307	-0.007	96	5901	10.0	12.2	
59 2-Chloroethyl vinyl ether	63	6.386	6.392	-0.006	79	6074	5.00	3.91	
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	80	6965	5.00	4.86	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	98	34876	10.0	8.26	
62 Toluene	92	6.861	6.867	-0.006	97	24274	5.00	4.61	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	88	6099	5.00	5.45	
64 Ethyl methacrylate	69	7.239	7.239	0.000	83	8138	5.00	4.48	
65 1,1,2-Trichloroethane	83	7.294	7.300	-0.006	91	5561	5.00	4.20	
66 Tetrachloroethene	166	7.440	7.440	0.000	94	9563	5.00	4.82	M
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	12386	5.00	5.12	
68 2-Hexanone	43	7.599	7.599	0.000	99	23089	10.0	8.08	
69 Chlorodibromomethane	129	7.709	7.709	0.000	83	3487	5.00	3.75	
109 n-Butyl acetate	43	7.751	7.757	-0.006	96	20122	5.00	5.04	
70 Ethylene Dibromide	107	7.818	7.818	0.000	97	5881	5.00	4.75	
71 Chlorobenzene	112	8.373	8.373	0.000	91	28130	5.00	4.88	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	89	10094	5.00	5.25	
73 Ethylbenzene	91	8.513	8.513	0.000	98	38981	5.00	4.89	
74 m-Xylene & p-Xylene	106	8.641	8.648	-0.007	96	16012	5.00	5.08	
75 o-Xylene	106	9.086	9.093	-0.007	97	14104	5.00	4.74	
76 Styrene	104	9.105	9.111	-0.006	89	25444	5.00	4.96	
77 Bromoform	173	9.288	9.294	-0.006	93	1744	5.00	3.65	
78 Isopropylbenzene	105	9.519	9.525	-0.006	96	34894	5.00	4.95	
79 Bromobenzene	156	9.842	9.842	0.000	91	10070	5.00	4.78	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.879	-0.006	96	8411	5.00	4.33	
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	89	9194	5.00	5.10	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	60	2056	5.00	5.32	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	39591	5.00	5.06	
84 2-Chlorotoluene	91	10.080	10.080	0.000	95	27410	5.00	4.88	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.208	10.214	-0.006	97	34923	5.00	5.35	a
86 1,3,5-Trimethylbenzene	105	10.214	10.220	-0.006	94	35440	5.00	5.36	
87 tert-Butylbenzene	119	10.592	10.592	0.000	92	41458	5.00	4.72	
88 1,2,4-Trimethylbenzene	105	10.647	10.653	-0.006	98	32321	5.00	5.31	
89 sec-Butylbenzene	105	10.848	10.854	-0.006	95	39701	5.00	5.62	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	96	20147	5.00	4.92	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	77	33404	5.00	5.42	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	93	20931	5.00	4.58	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	99	34716	5.00	4.92	
113 Benzyl chloride	126	11.232	11.238	-0.006	98	1017	5.00	2.88	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	96	17846	5.00	4.34	
94 n-Butylbenzene	91	11.525	11.525	0.000	97	25242	5.00	4.90	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	75	1106	5.00	4.21	
112 1,3,5-Trichlorobenzene	180	12.695	12.696	-0.001	94	12916	5.00	4.72	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	94	9451	5.00	4.46	
97 Hexachlorobutadiene	225	13.671	13.677	-0.006	92	4726	5.00	4.99	
98 Naphthalene	128	13.732	13.726	0.006	97	29803	5.00	4.35	
99 1,2,3-Trichlorobenzene	180	14.031	14.025	0.006	93	9864	5.00	5.16	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		10.0	8.80	
S 100 Xylenes, Total	1				0		10.0	9.82	
S 102 1,3-Dichloropropene, Total	1				0		10.0	10.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	5.00	Units: uL

Report Date: 10-Nov-2020 04:12:15 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D

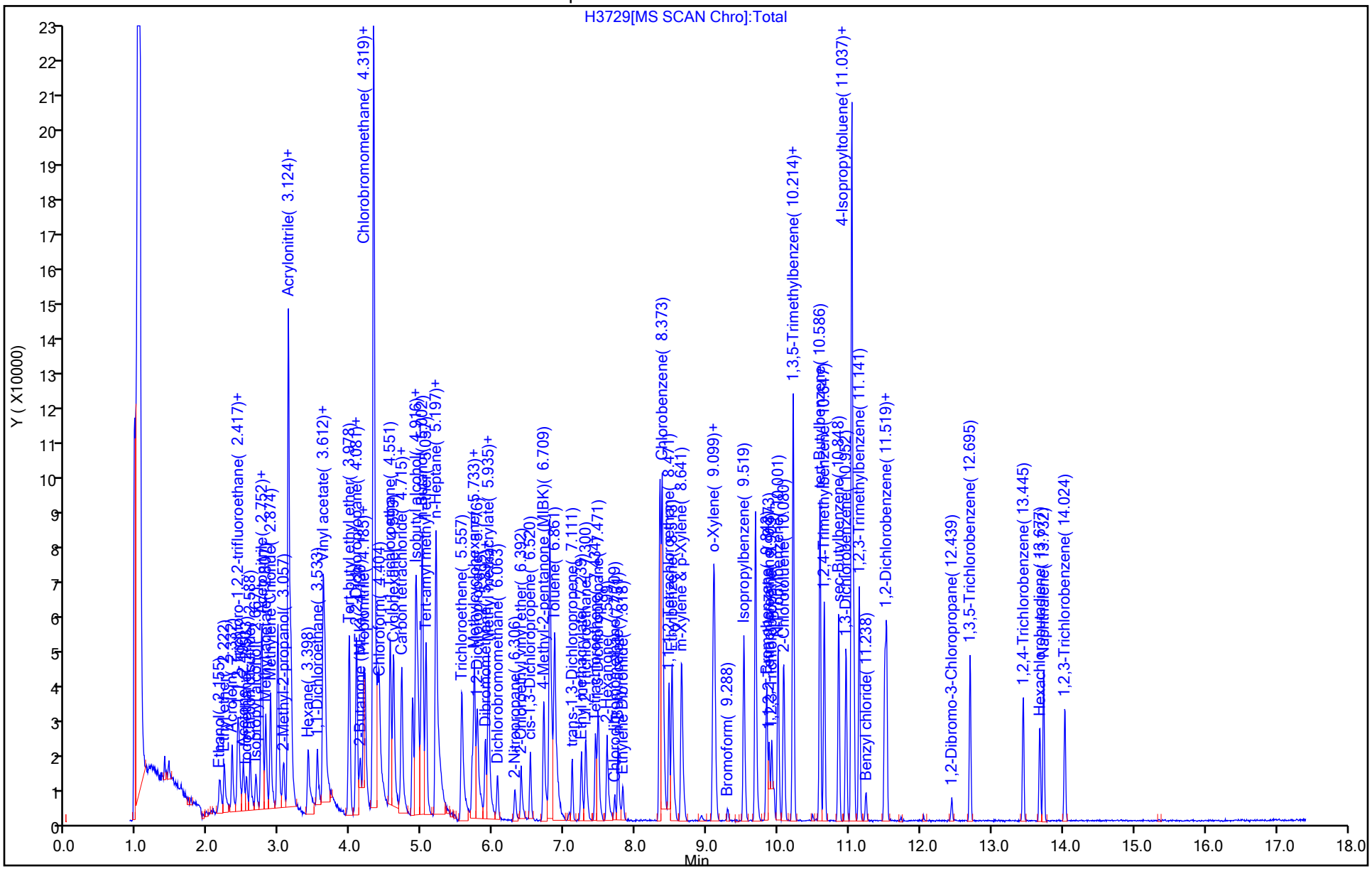
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes Operator ID:

Lims ID: std4 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

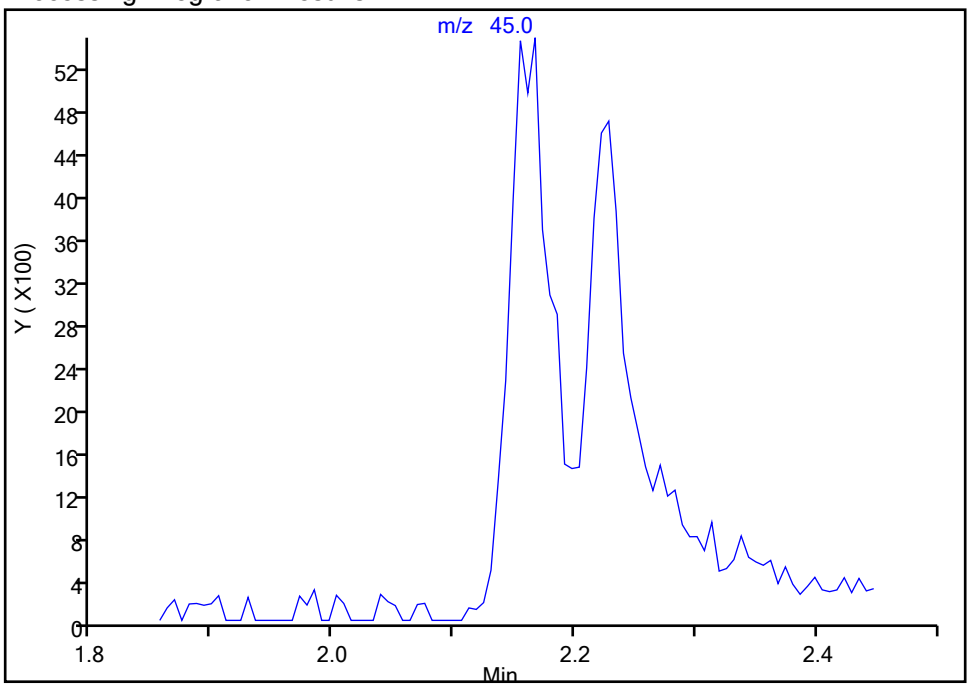
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

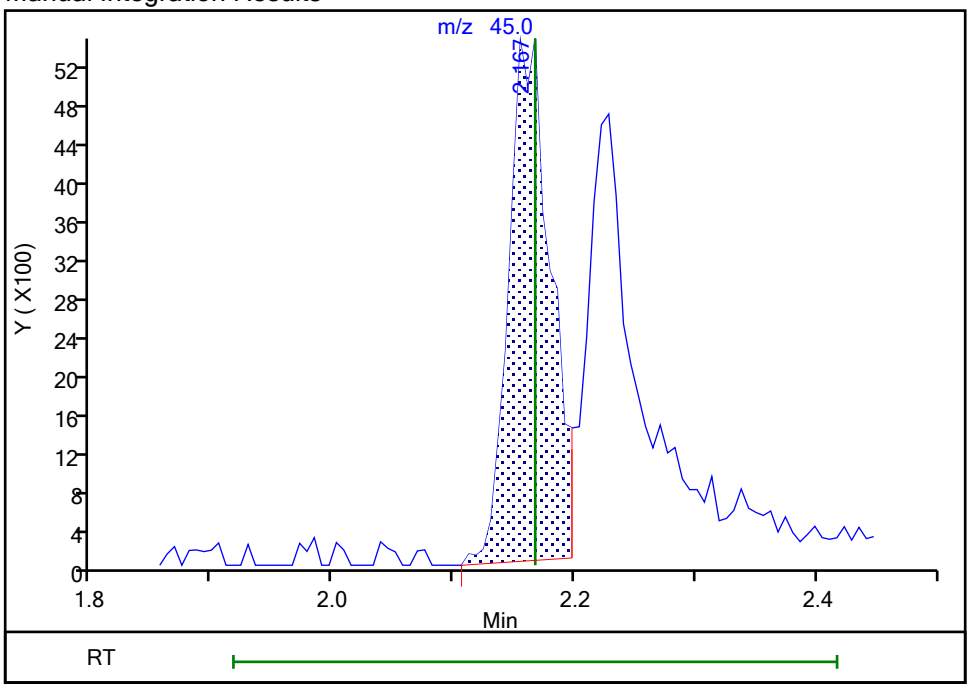
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 2.17
Area: 13222
Amount: 176.9185
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:51:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

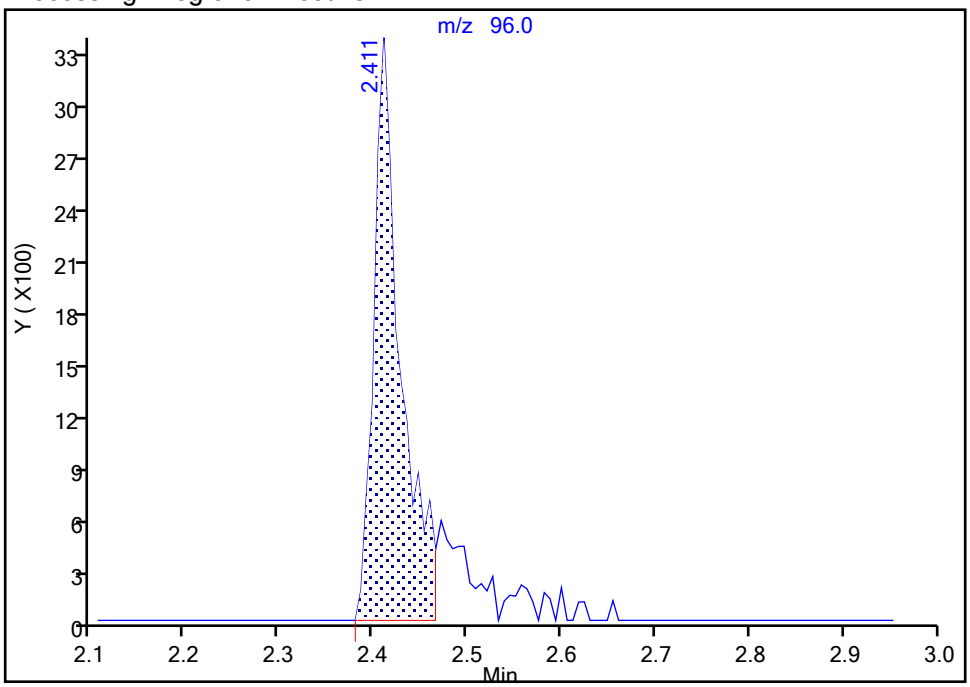
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

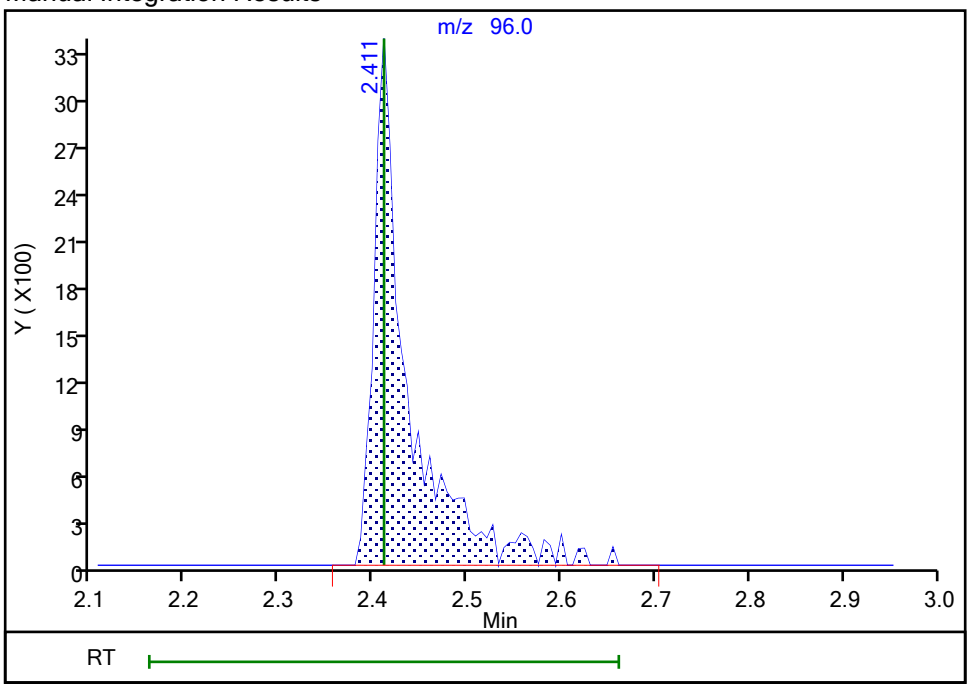
Processing Integration Results

RT: 2.41
Area: 6575
Amount: 7.257038
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 8393
Amount: 4.921582
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:51:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

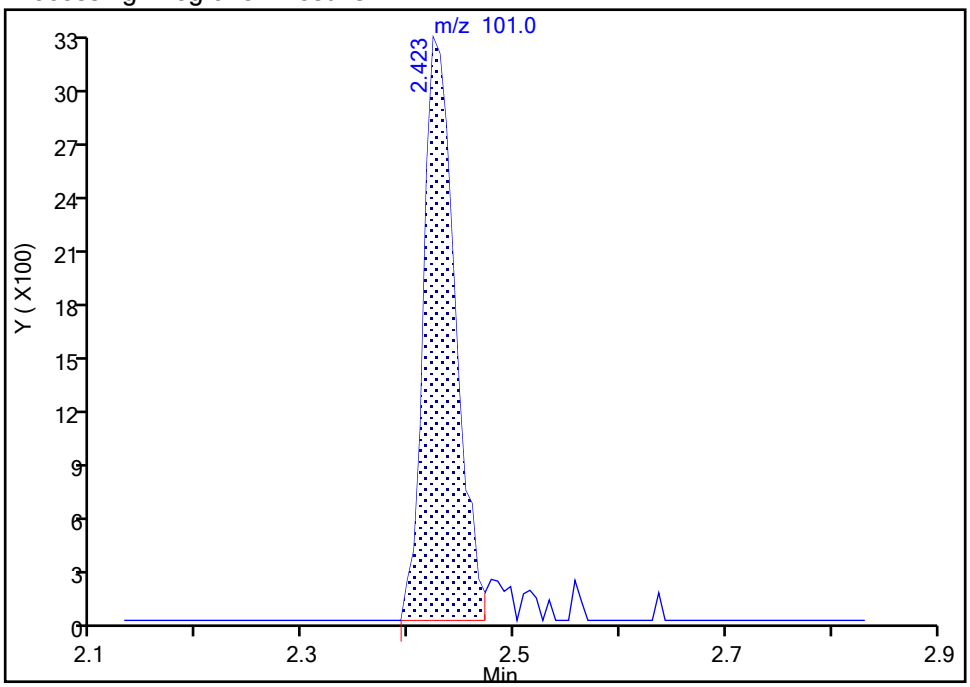
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

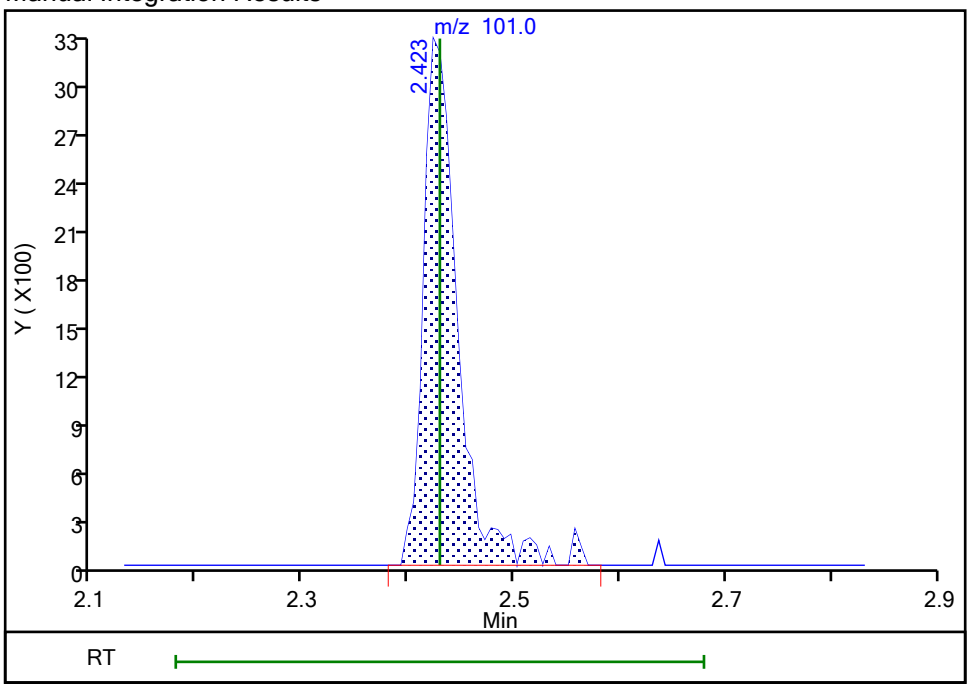
Processing Integration Results

RT: 2.42
Area: 6780
Amount: 6.519375
Amount Units: ug/l



Manual Integration Results

RT: 2.42
Area: 7396
Amount: 5.077771
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:51:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

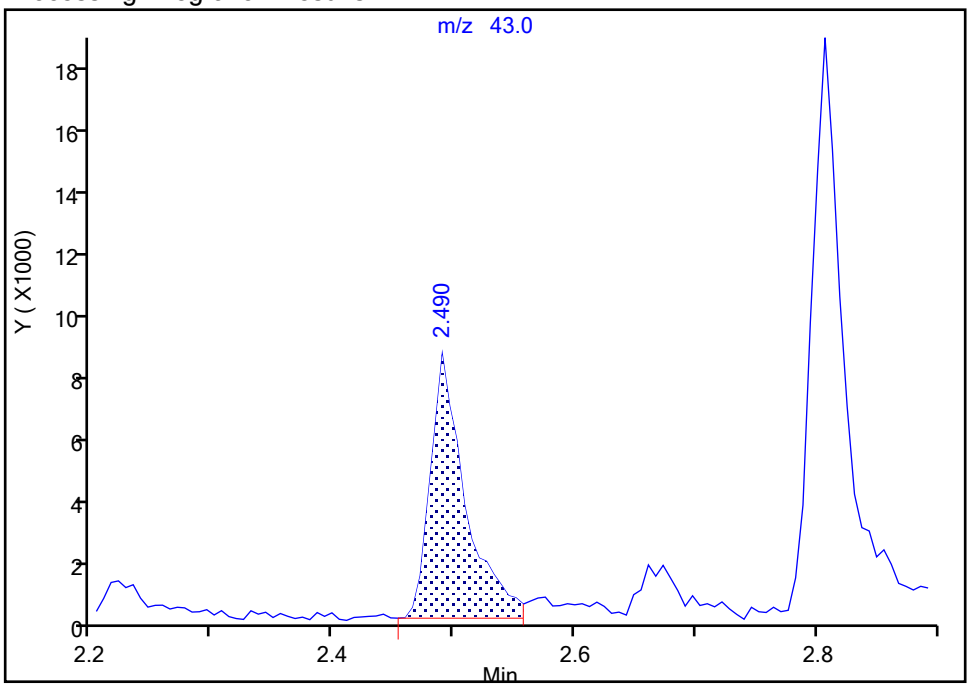
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

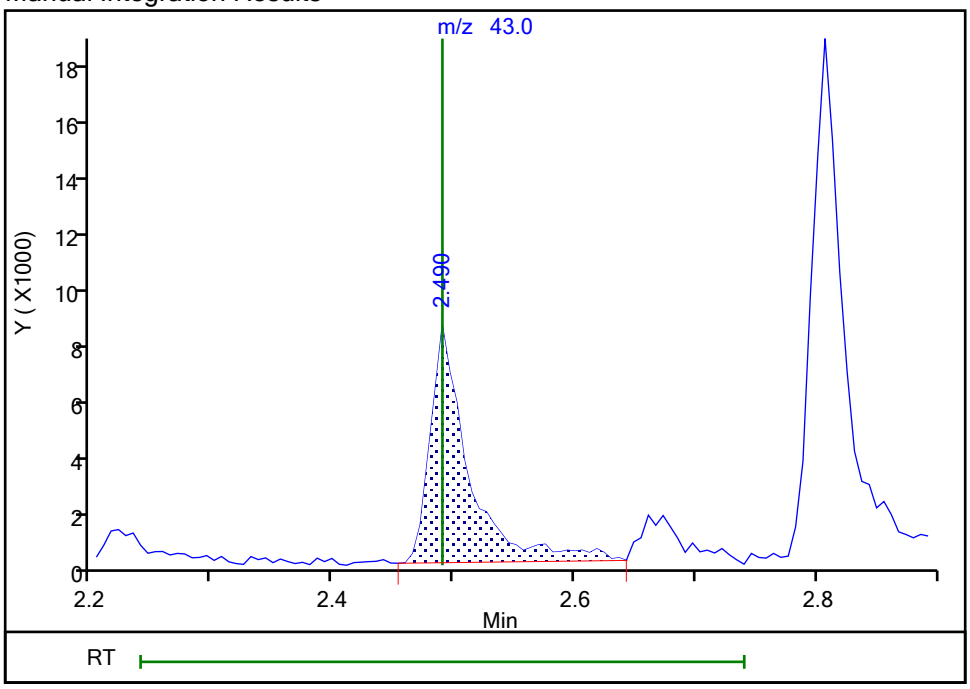
Processing Integration Results

RT: 2.49
Area: 16528
Amount: 8.958955
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 17994
Amount: 9.823740
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:51:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

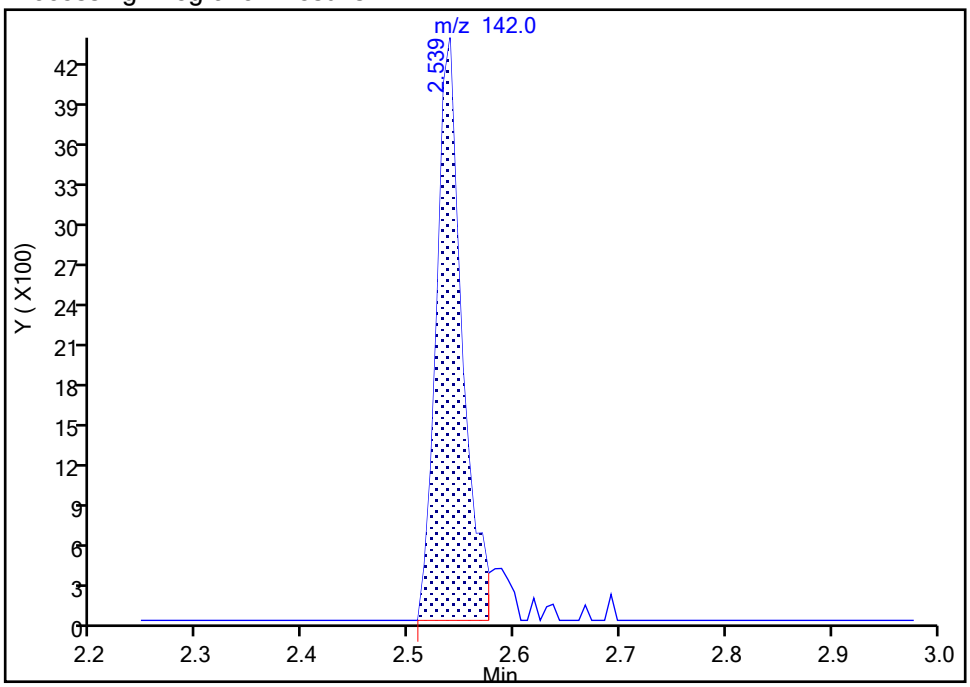
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

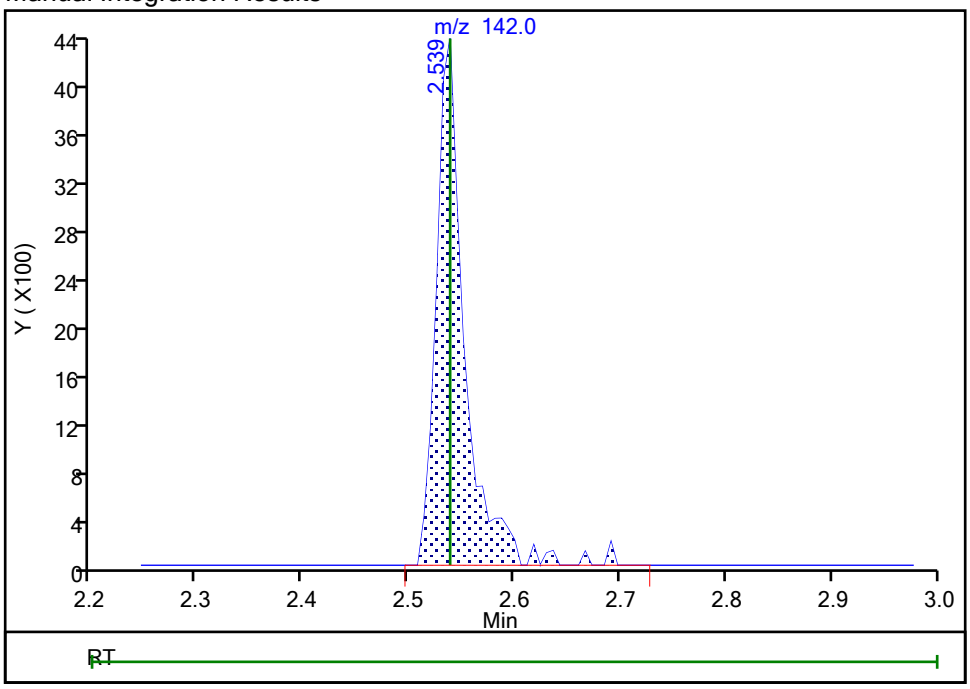
Processing Integration Results

RT: 2.54
Area: 7310
Amount: 5.632067
Amount Units: ug/l



Manual Integration Results

RT: 2.54
Area: 8034
Amount: 0.948236
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:51:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

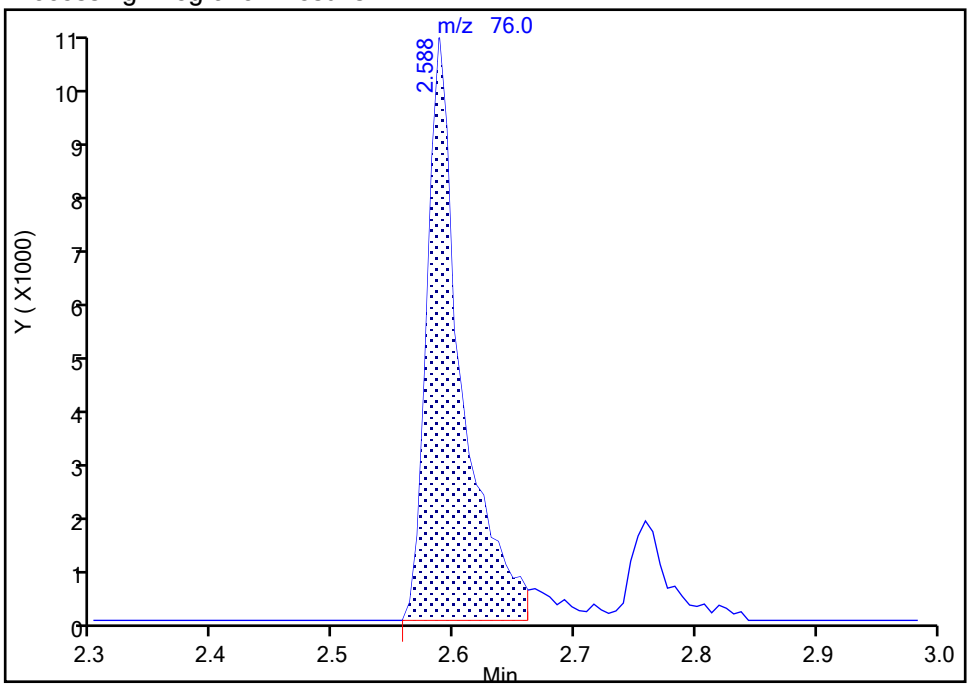
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

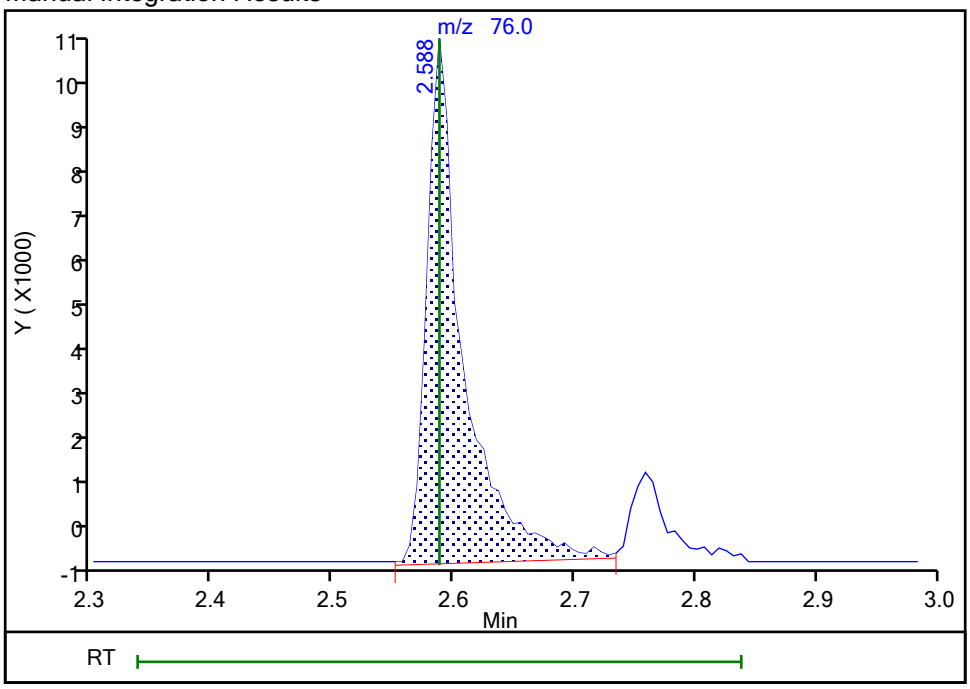
Processing Integration Results

RT: 2.59
Area: 20512
Amount: 5.624523
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 21775
Amount: 4.392675
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:51:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

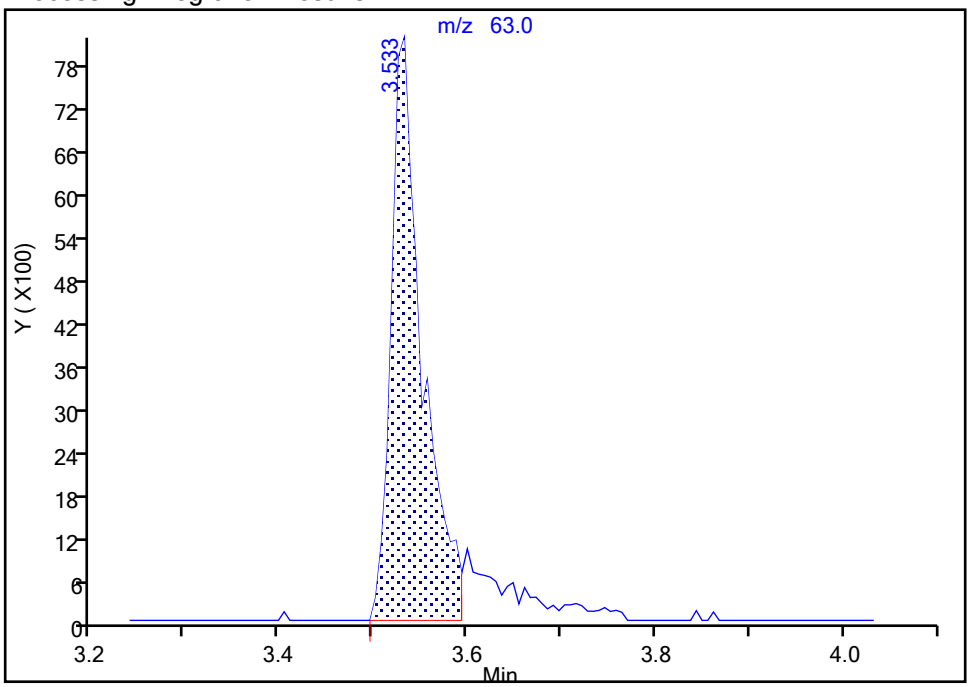
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

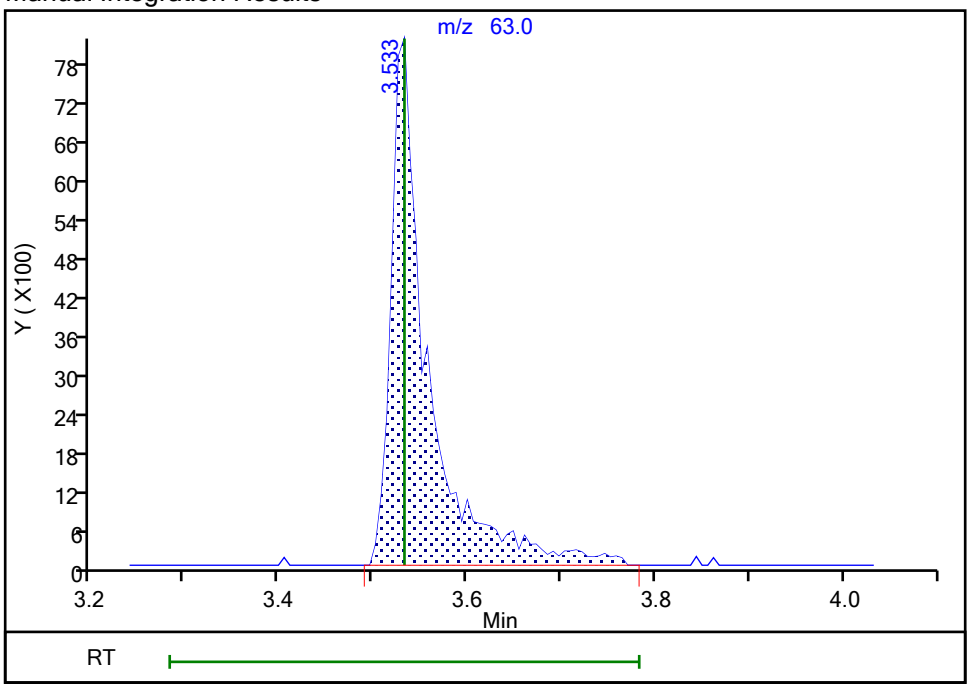
Processing Integration Results

RT: 3.53
Area: 18533
Amount: 6.064620
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 21939
Amount: 4.757002
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

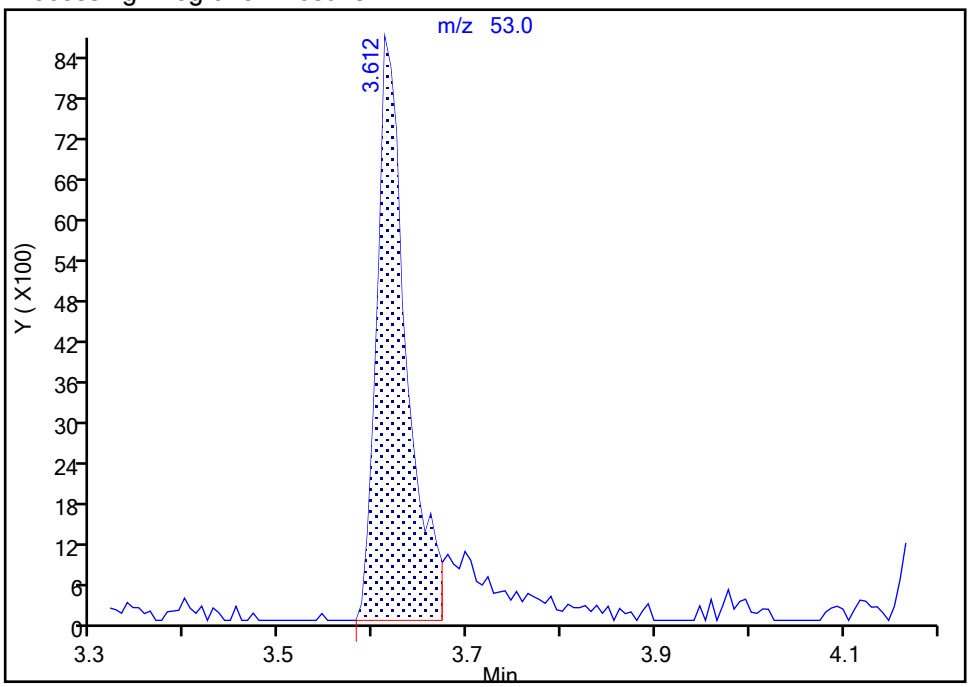
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

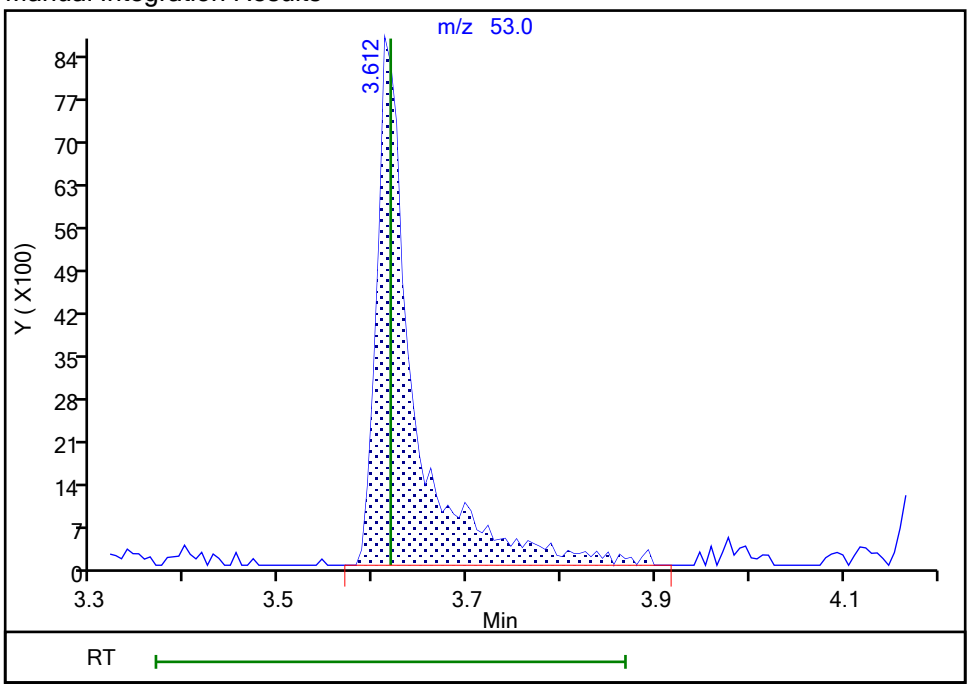
Processing Integration Results

RT: 3.61
Area: 18945
Amount: 5.957380
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 23637
Amount: 4.865466
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

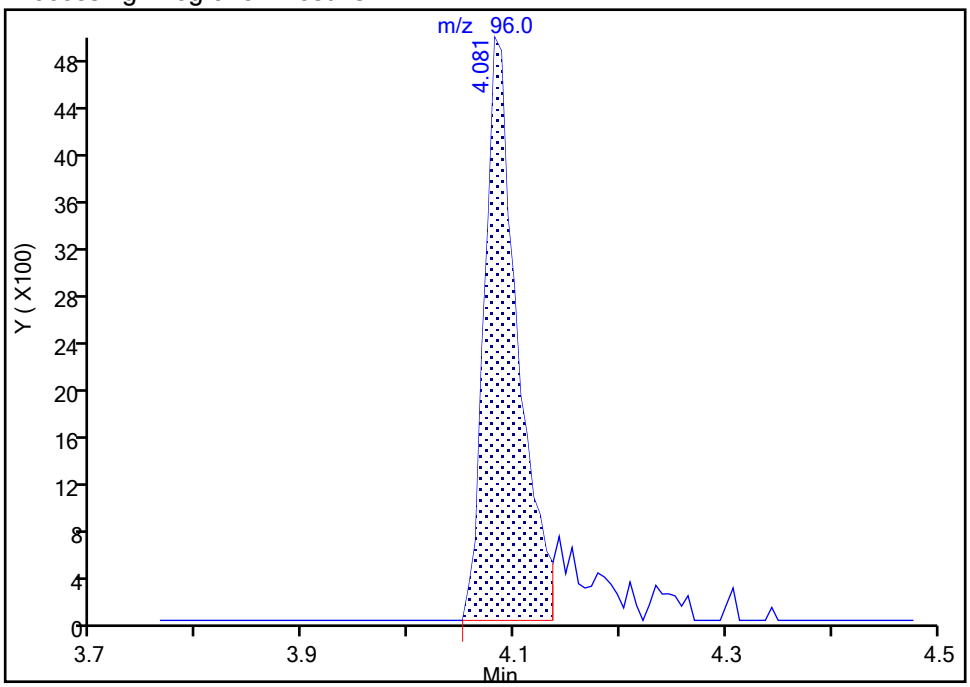
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

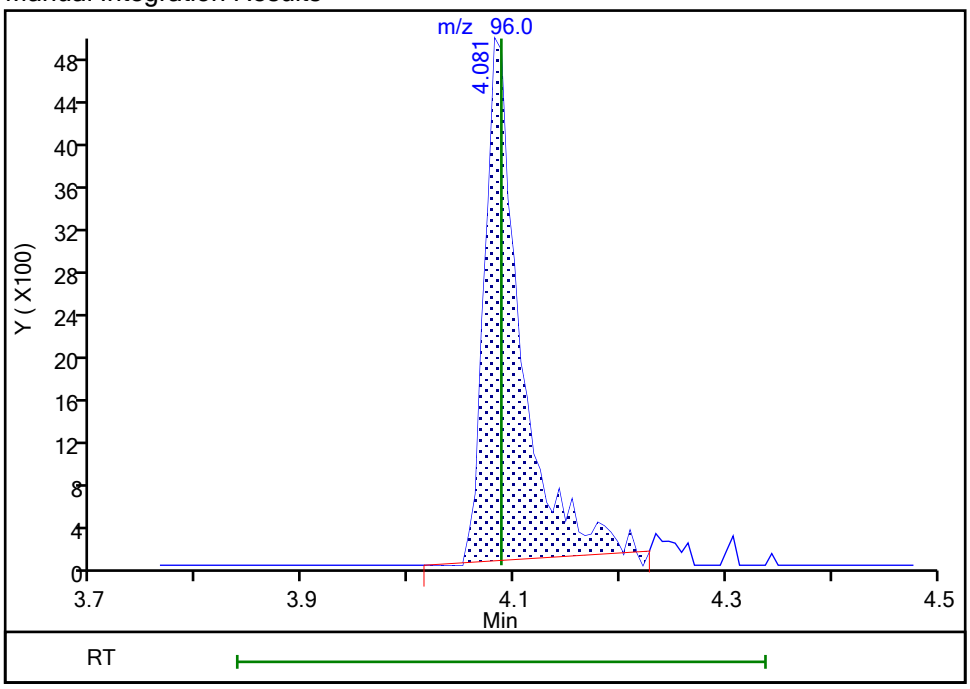
Processing Integration Results

RT: 4.08
Area: 10632
Amount: 6.445241
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 11433
Amount: 4.592518
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

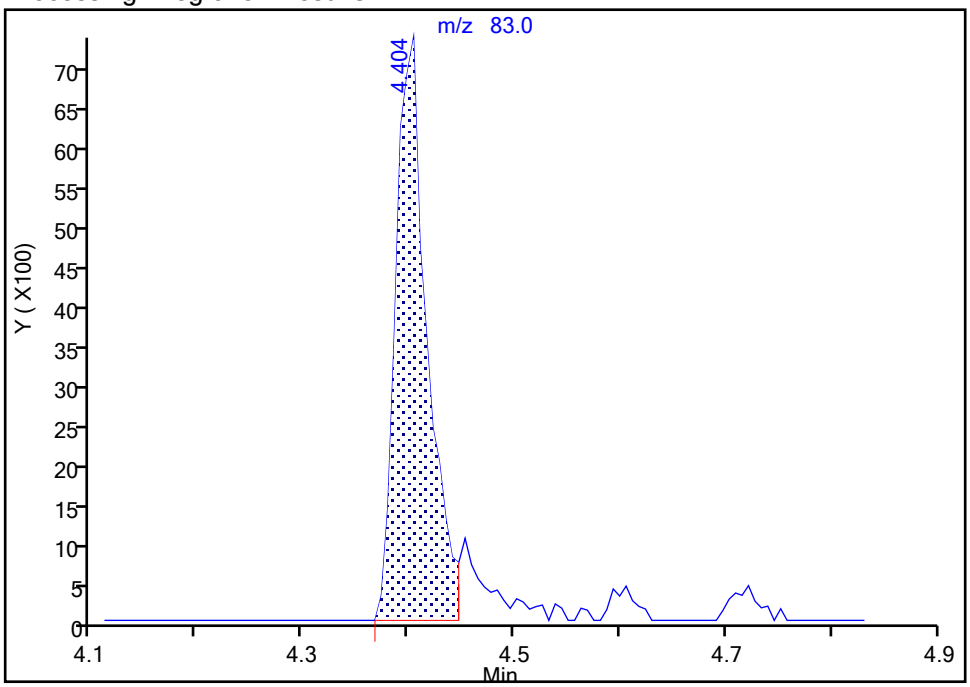
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

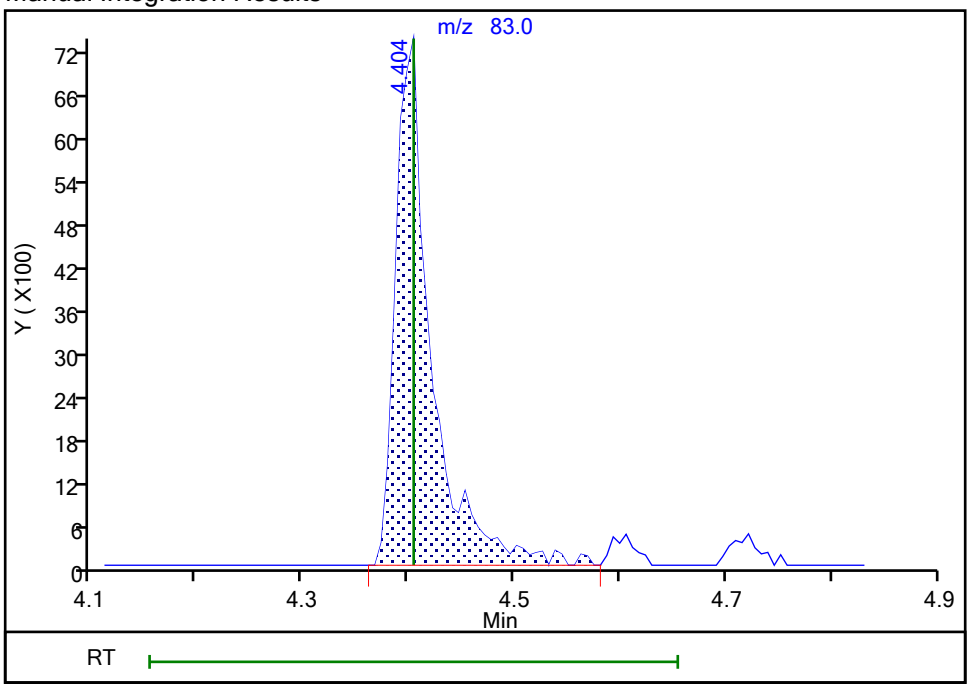
Processing Integration Results

RT: 4.40
Area: 15094
Amount: 4.838493
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 17091
Amount: 4.693936
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

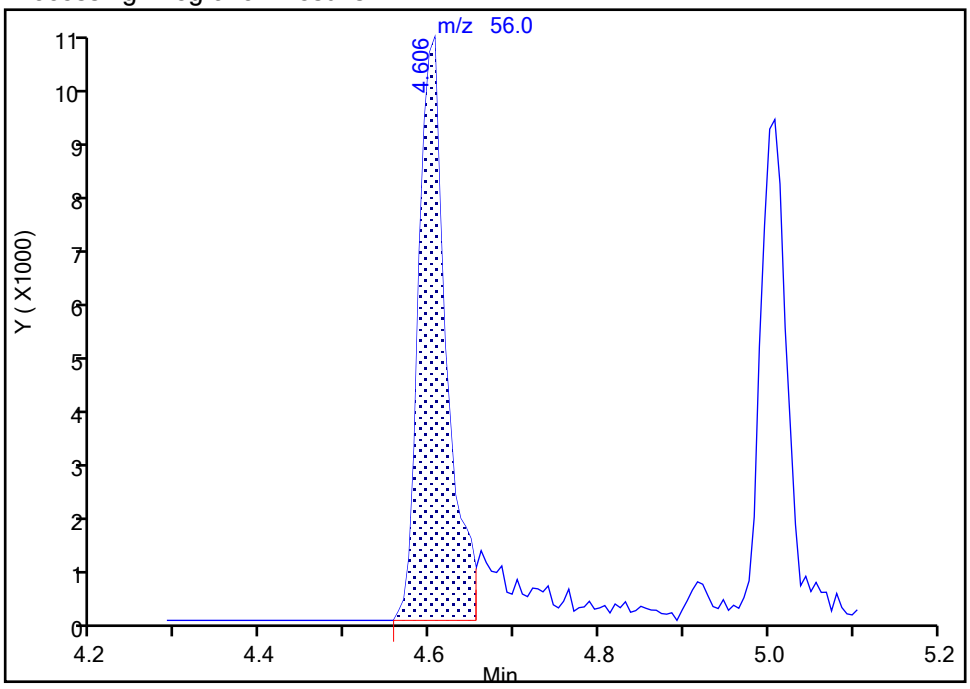
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

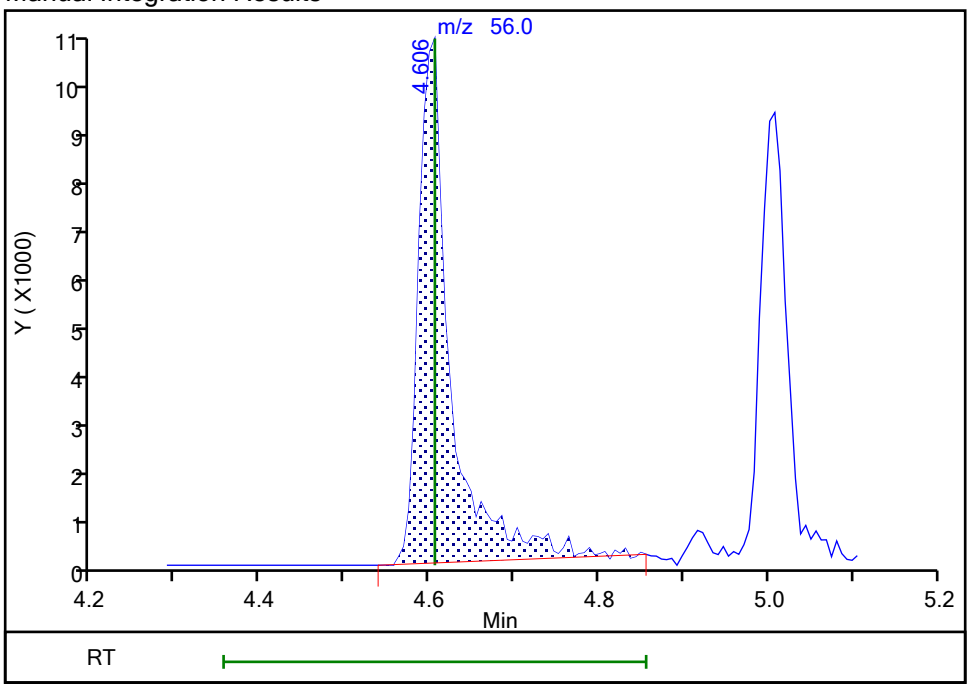
Processing Integration Results

RT: 4.61
Area: 24277
Amount: 5.433400
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 27638
Amount: 4.597881
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

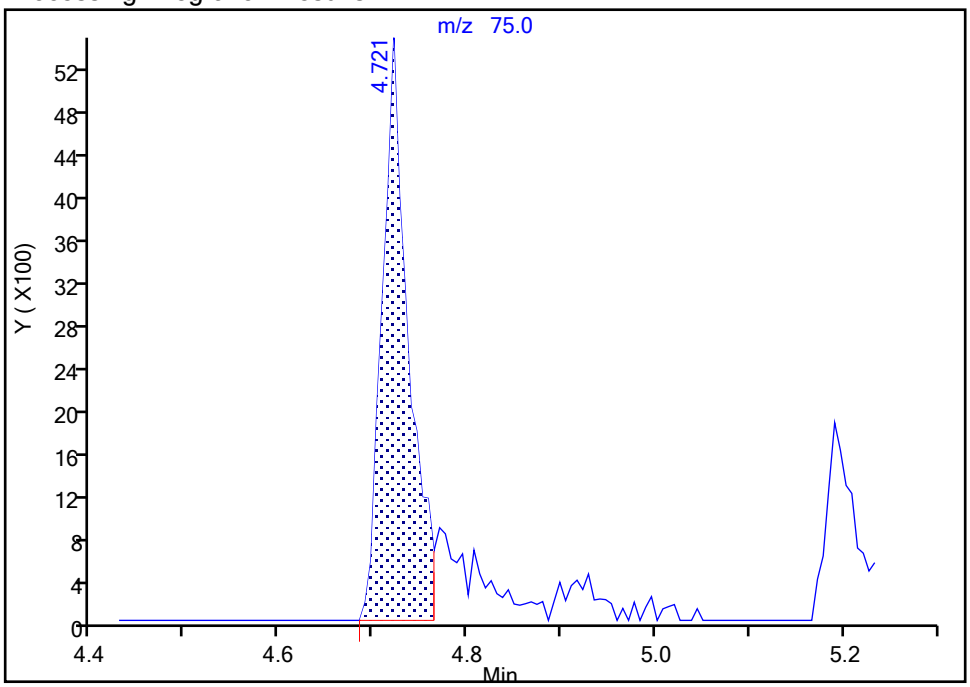
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

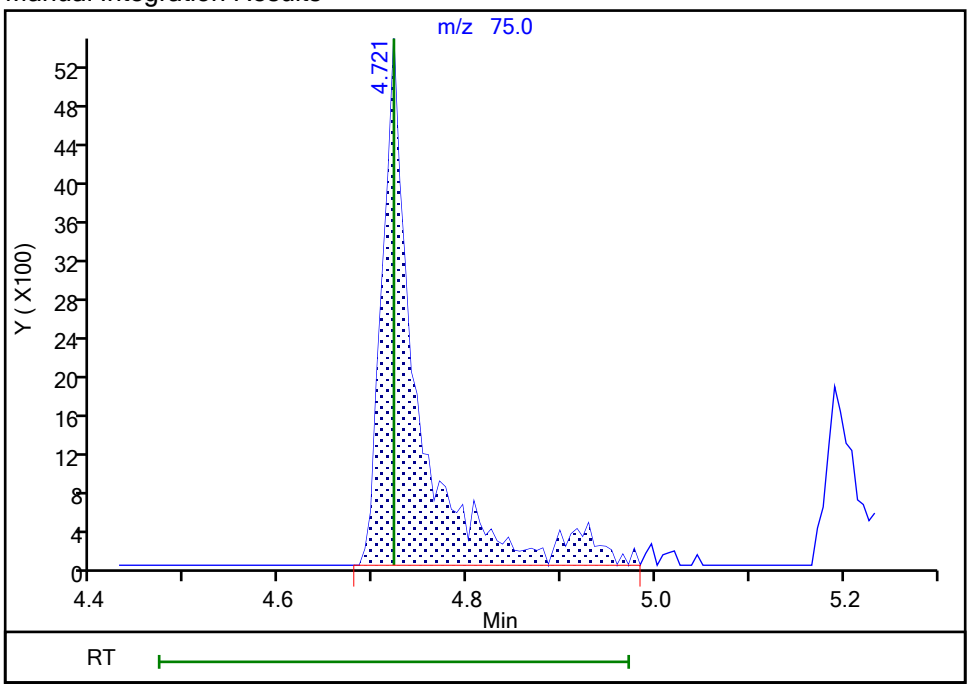
Processing Integration Results

RT: 4.72
Area: 10592
Amount: 5.802214
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 14357
Amount: 5.164224
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:08
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

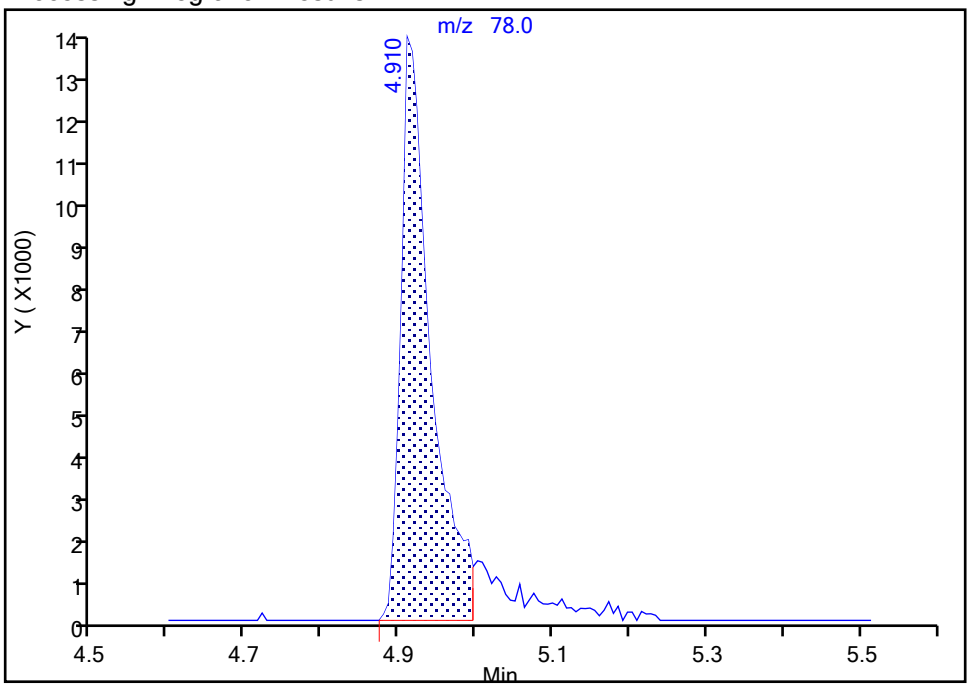
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

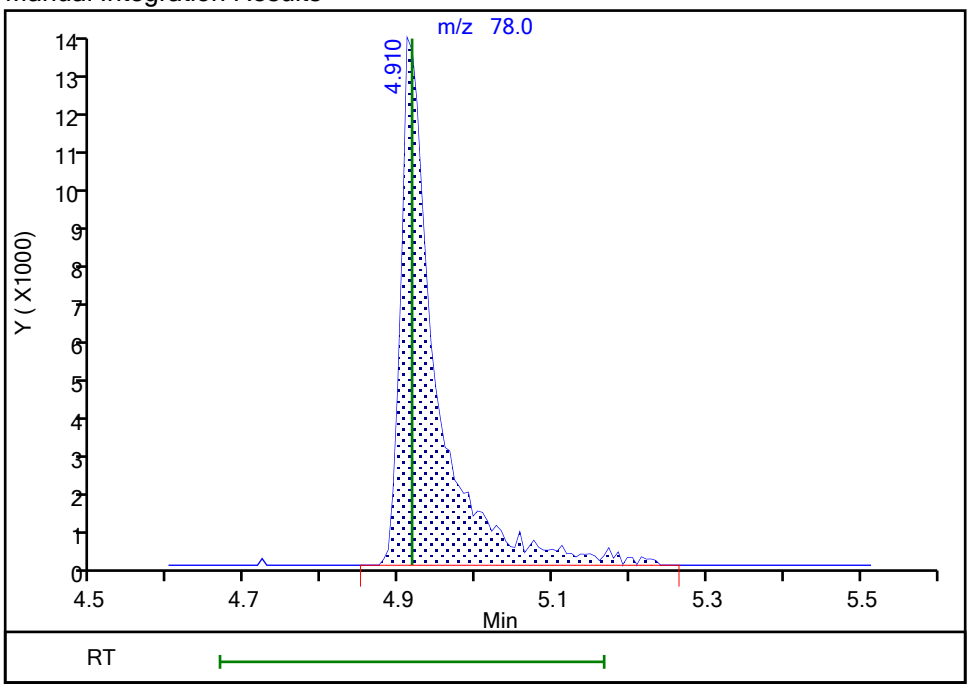
Processing Integration Results

RT: 4.91
Area: 35958
Amount: 5.673247
Amount Units: ug/l



Manual Integration Results

RT: 4.91
Area: 42045
Amount: 5.077086
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:50:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

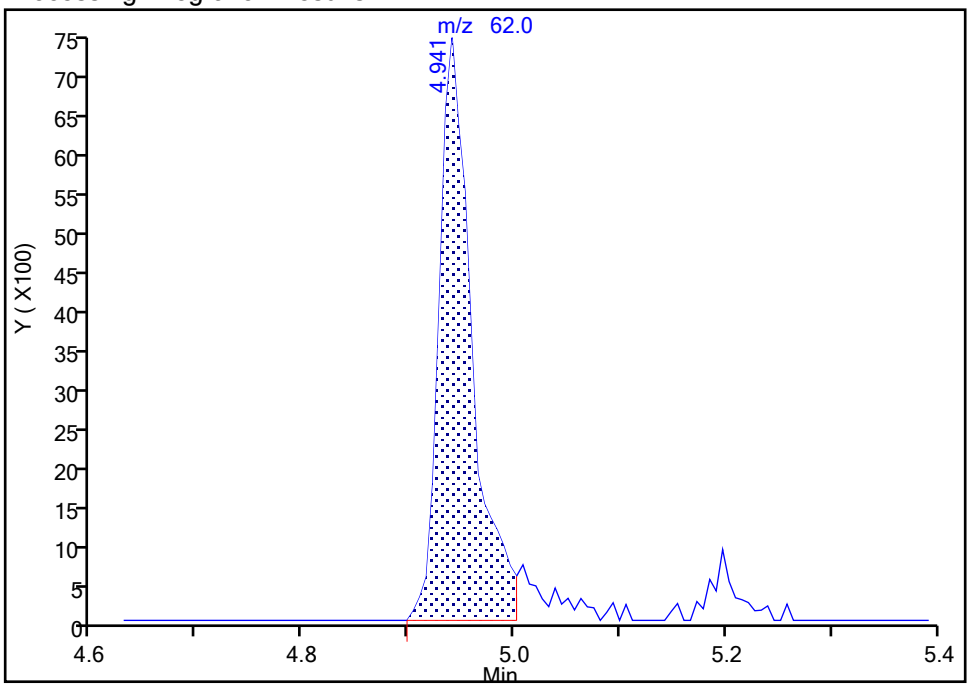
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

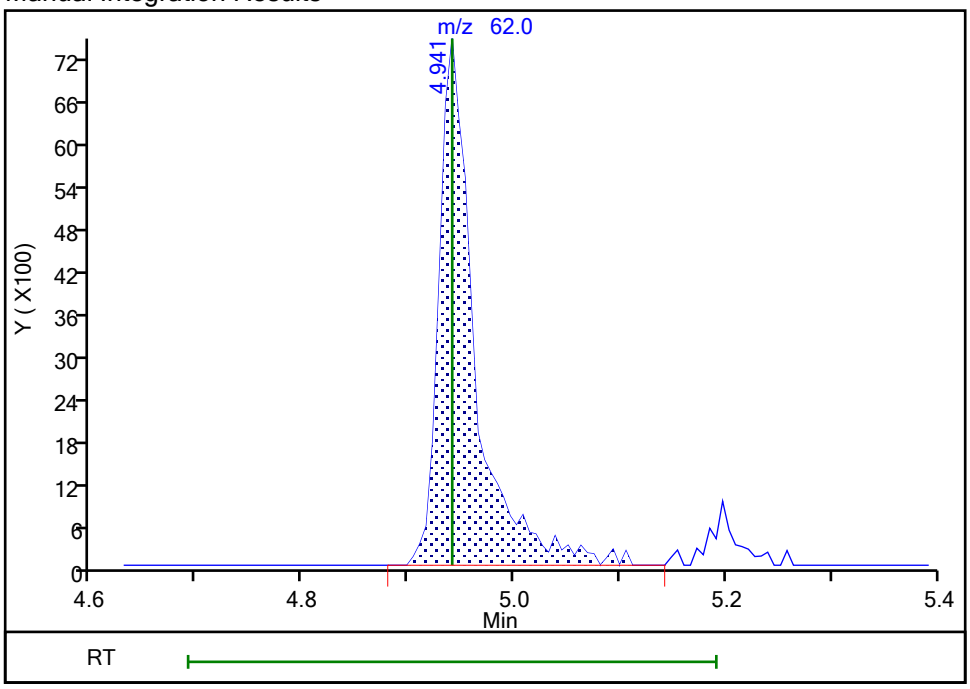
Processing Integration Results

RT: 4.94
Area: 16297
Amount: 6.044965
Amount Units: ug/l



Manual Integration Results

RT: 4.94
Area: 17860
Amount: 5.493734
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

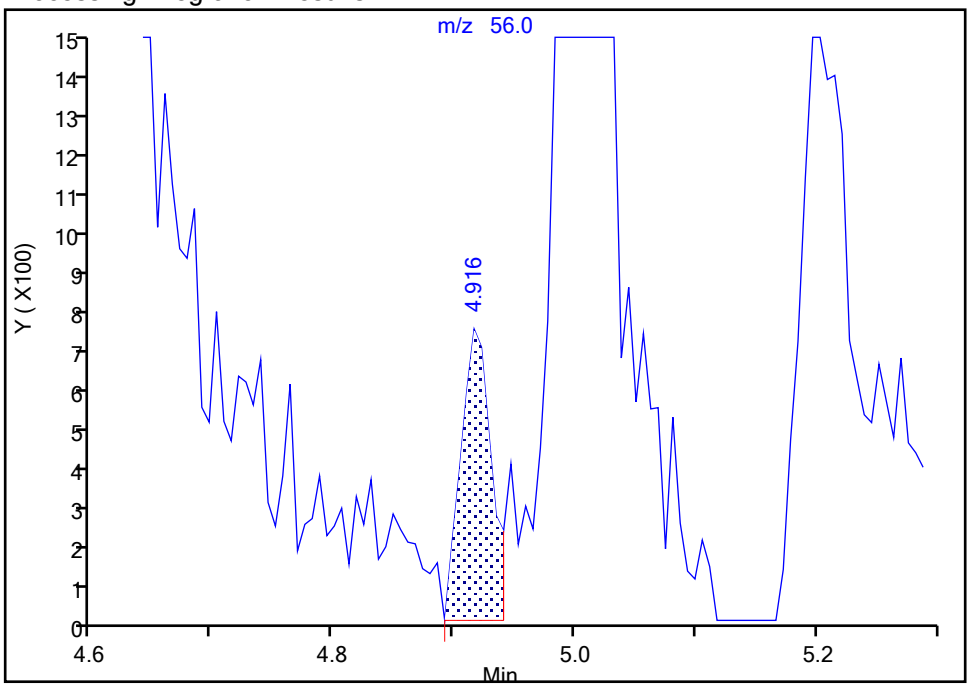
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

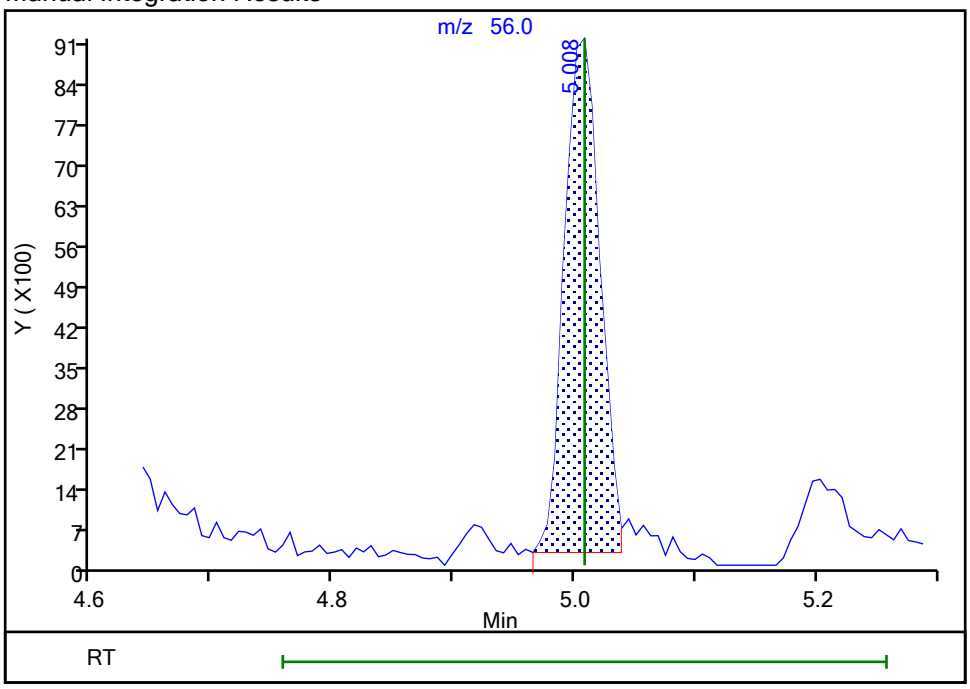
Processing Integration Results

RT: 4.92
Area: 1239
Amount: 17.826428
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 18285
Amount: 115.0849
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:45
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

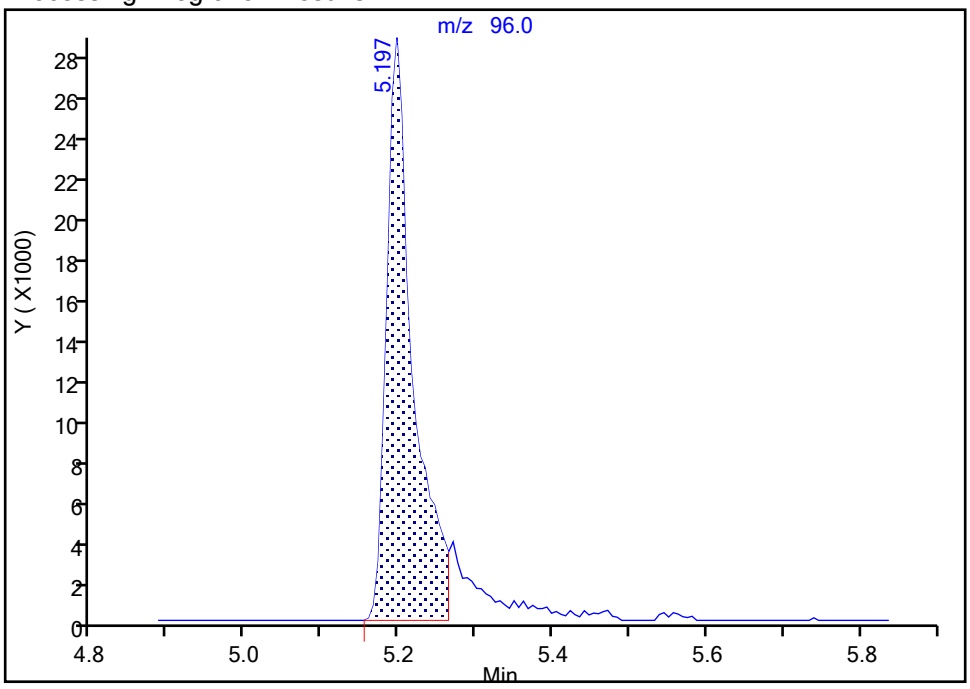
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

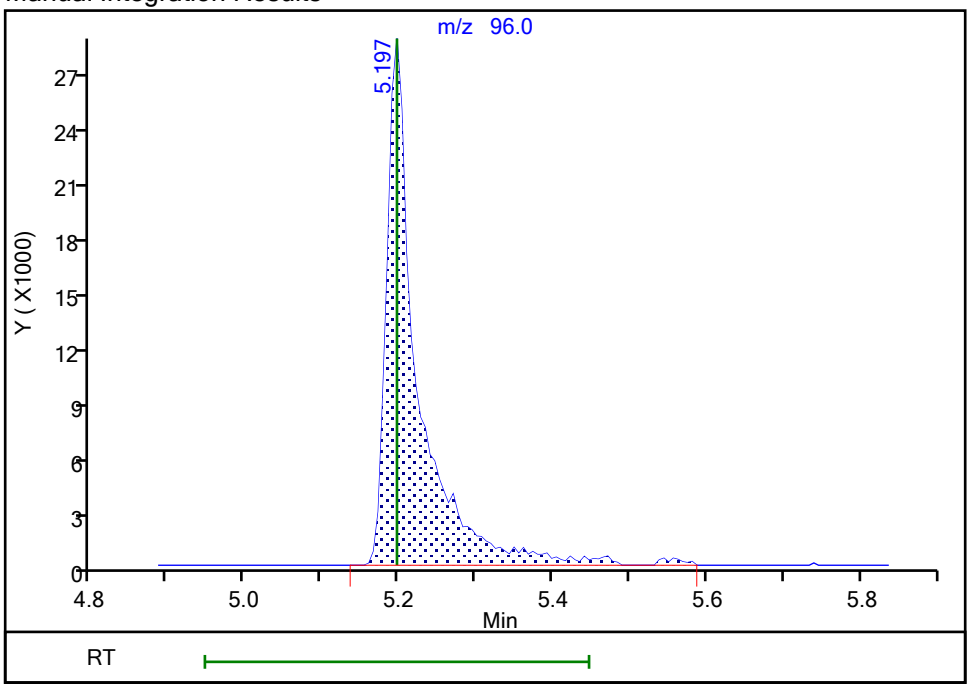
Processing Integration Results

RT: 5.20
Area: 67533
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 79883
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:52:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

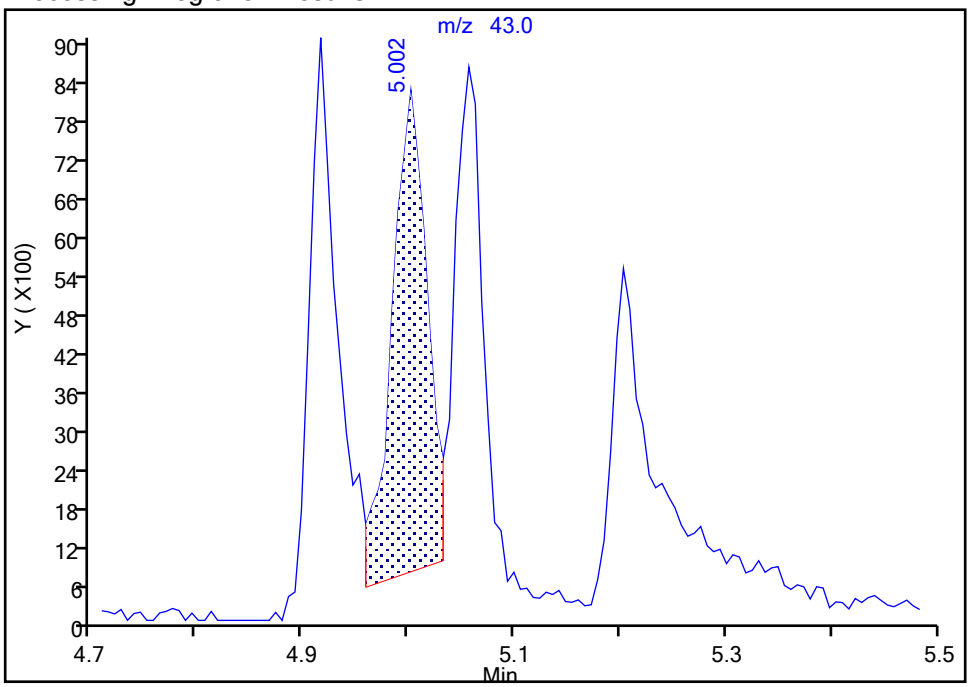
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

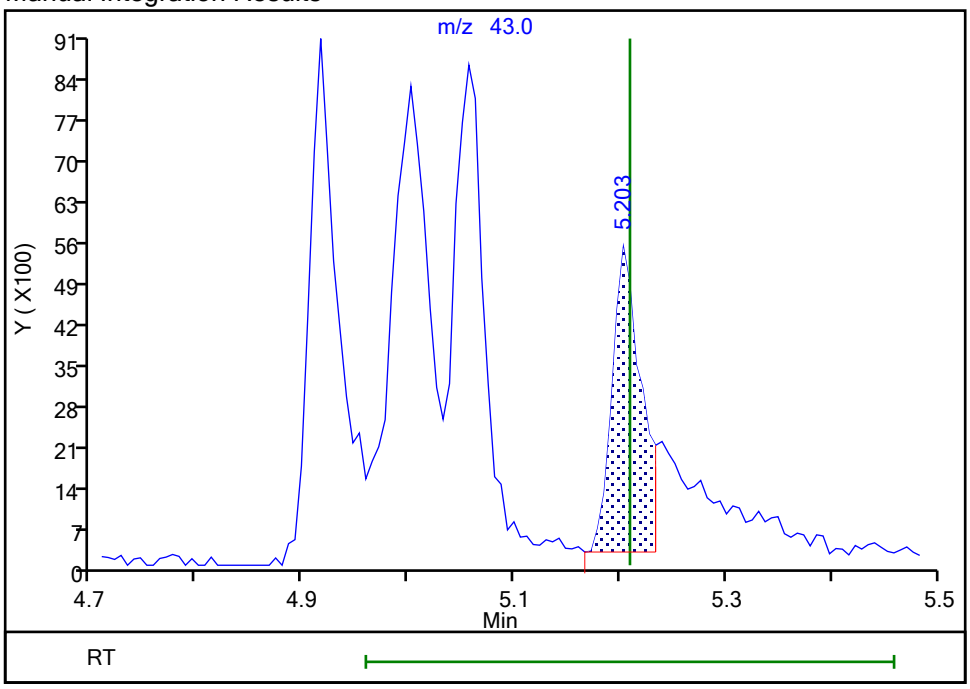
Processing Integration Results

RT: 5.00
Area: 17646
Amount: 8.589156
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 10120
Amount: 4.588503
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:38
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

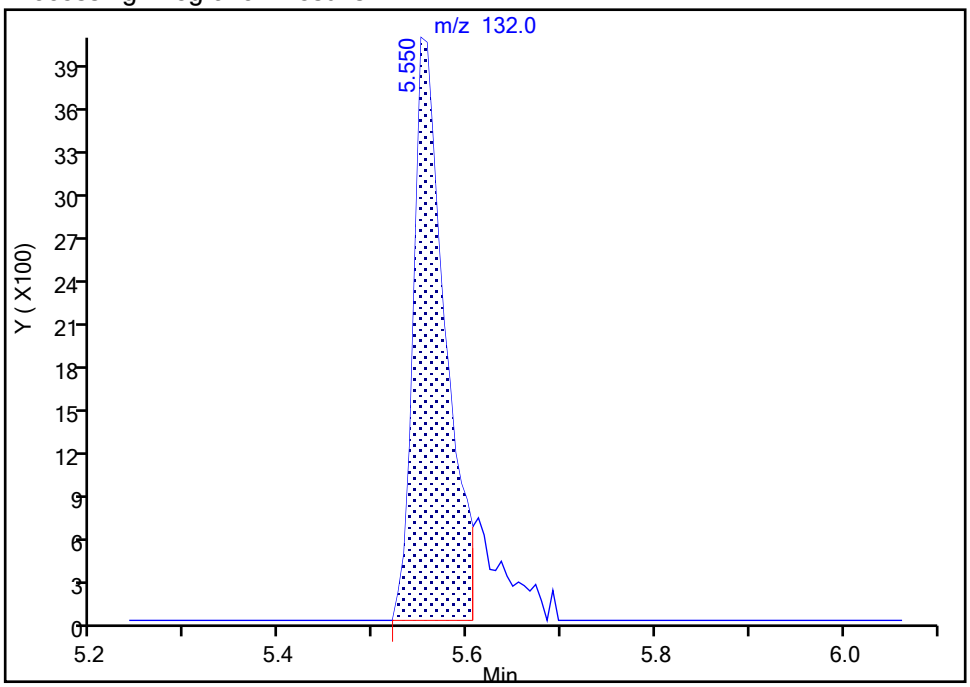
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

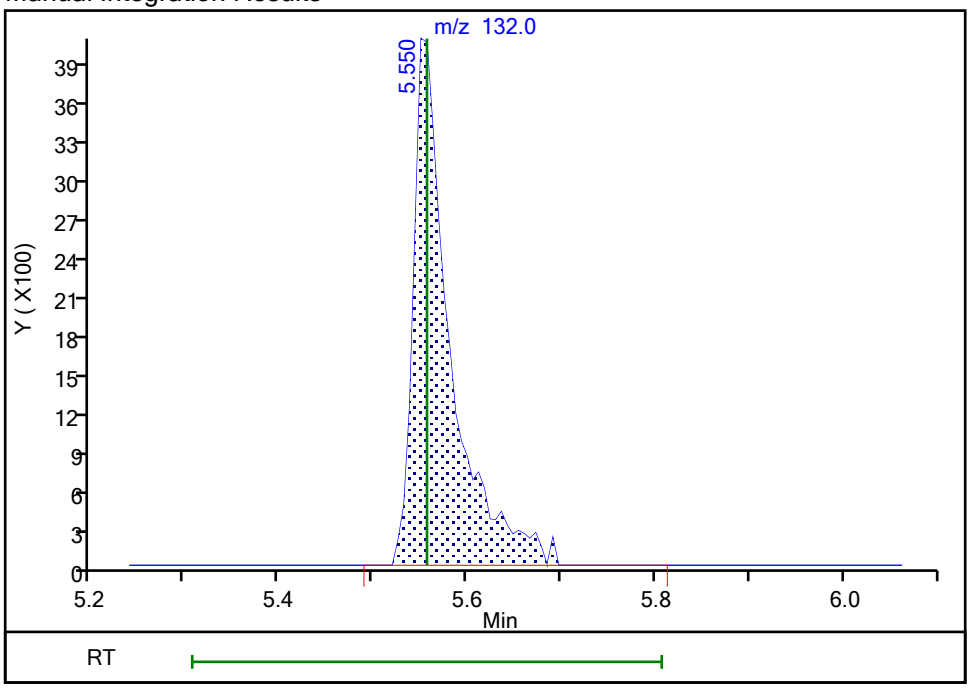
Processing Integration Results

RT: 5.55
Area: 9600
Amount: 5.497181
Amount Units: ug/l



Manual Integration Results

RT: 5.55
Area: 11178
Amount: 4.519366
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

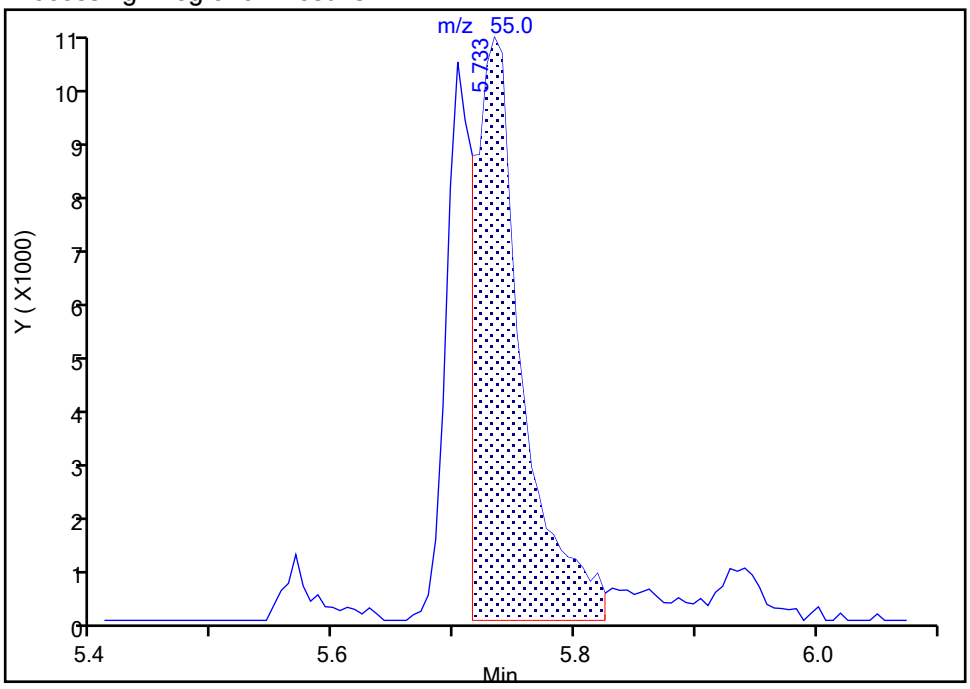
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

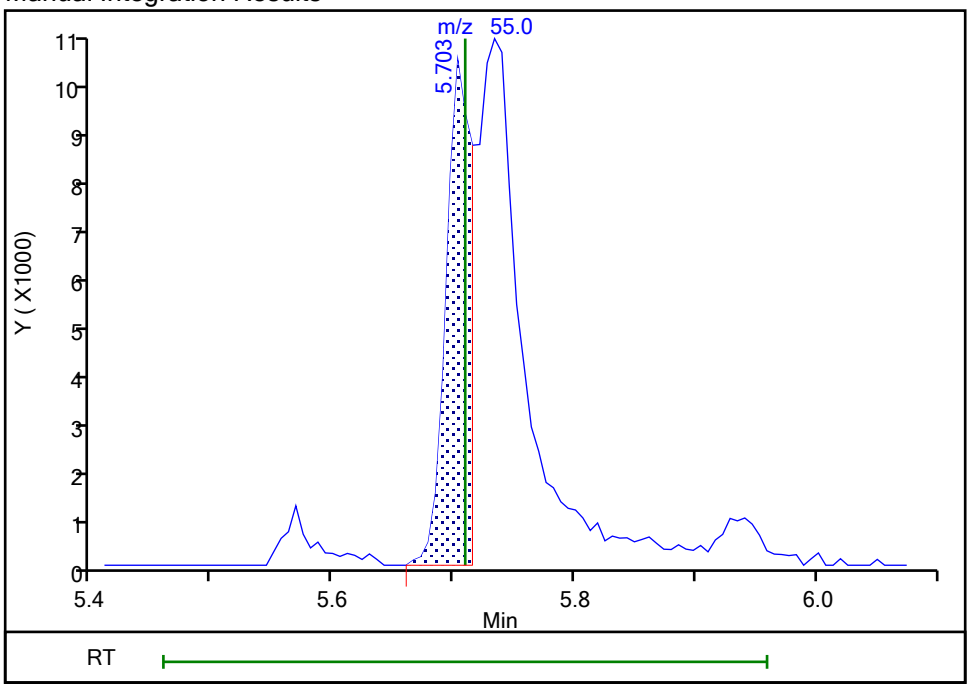
Processing Integration Results

RT: 5.73
Area: 28186
Amount: 7.977116
Amount Units: ug/l



Manual Integration Results

RT: 5.70
Area: 14745
Amount: 4.526005
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:26
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

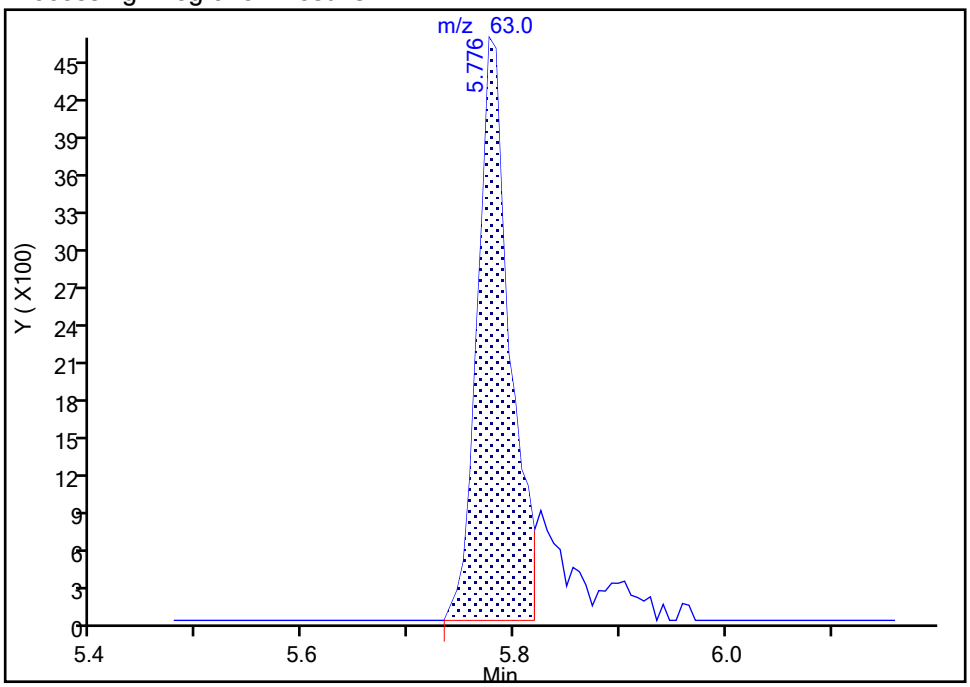
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

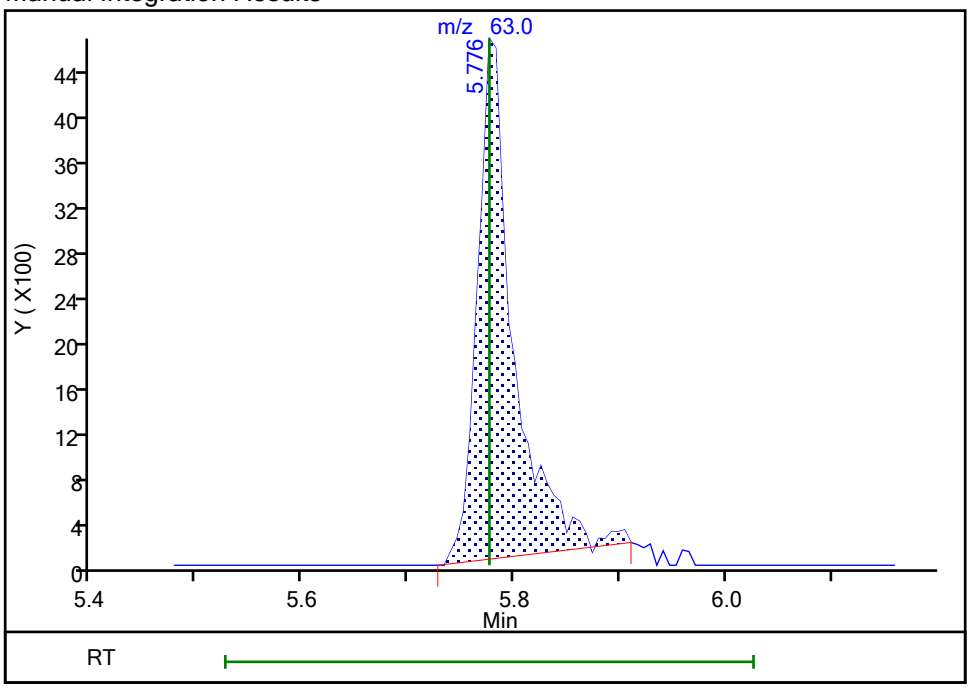
Processing Integration Results

RT: 5.78
Area: 9974
Amount: 5.529330
Amount Units: ug/l



Manual Integration Results

RT: 5.78
Area: 10978
Amount: 4.438218
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

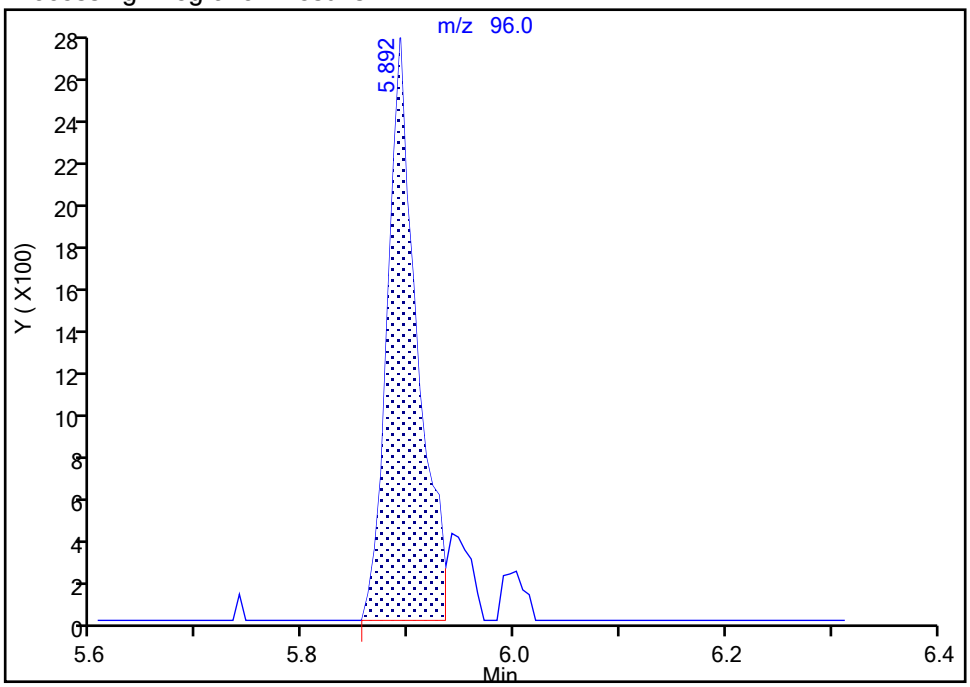
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

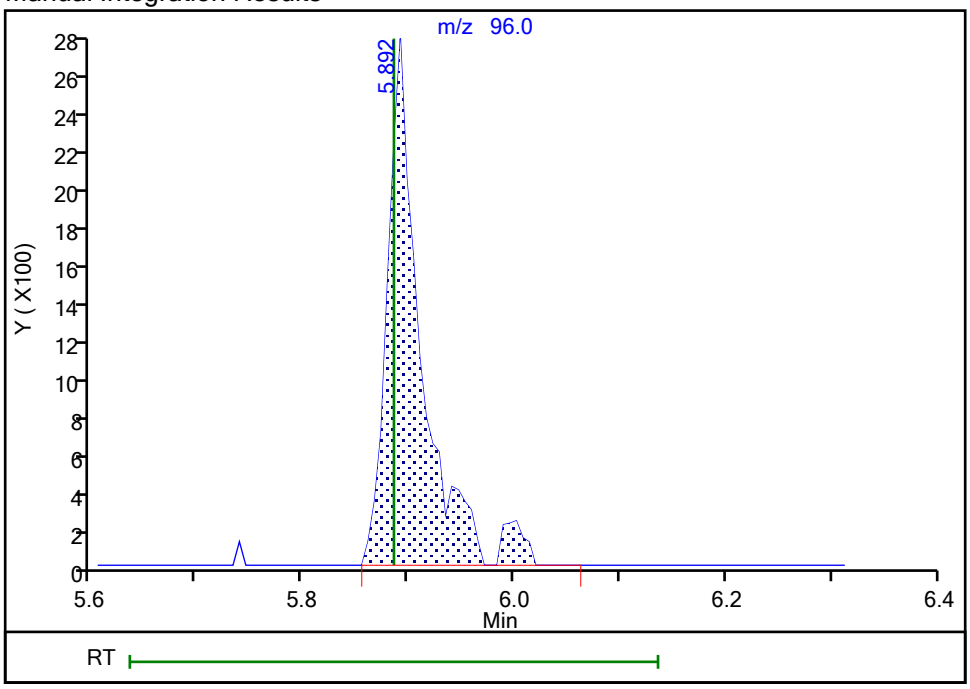
Processing Integration Results

RT: 5.89
Area: 5395
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 6314
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:52:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

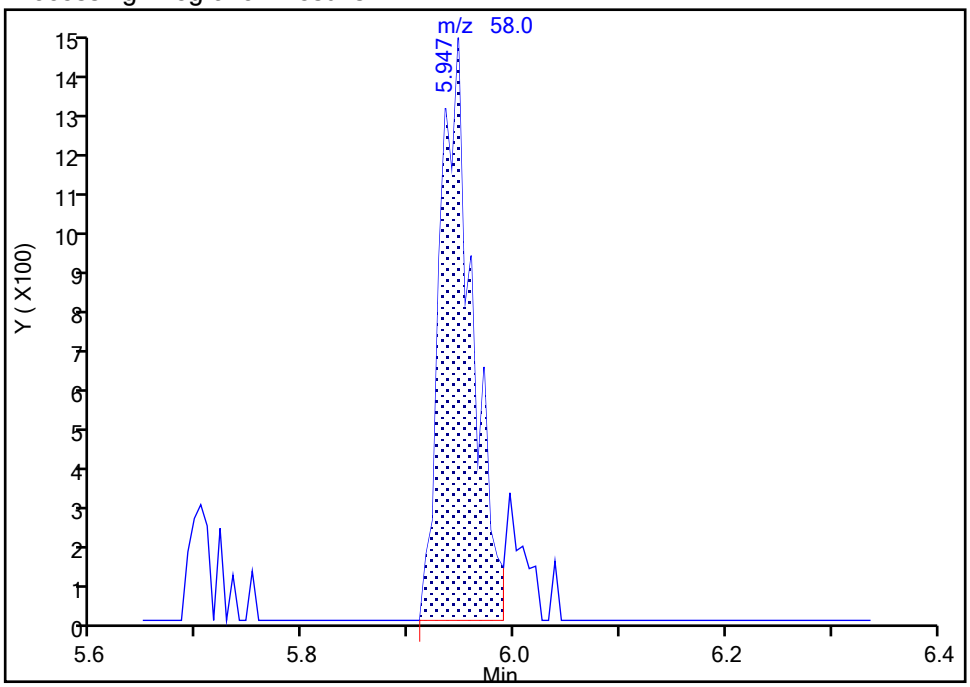
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

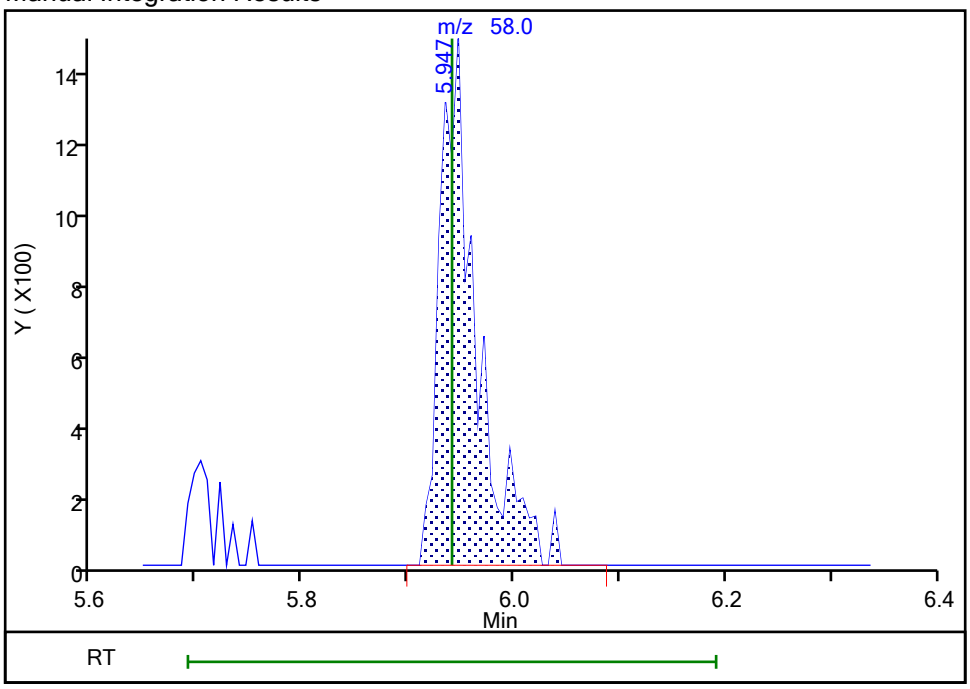
Processing Integration Results

RT: 5.95
Area: 3008
Amount: 111.5808
Amount Units: ug/l



Manual Integration Results

RT: 5.95
Area: 3400
Amount: 99.097338
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

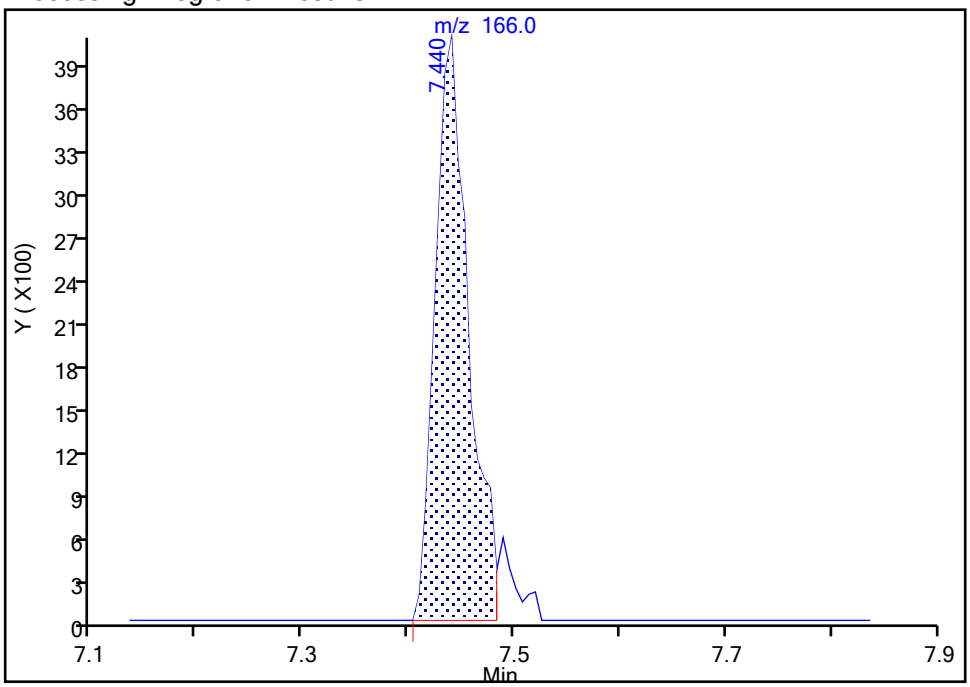
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

66 Tetrachloroethene, CAS: 127-18-4

Signal: 3

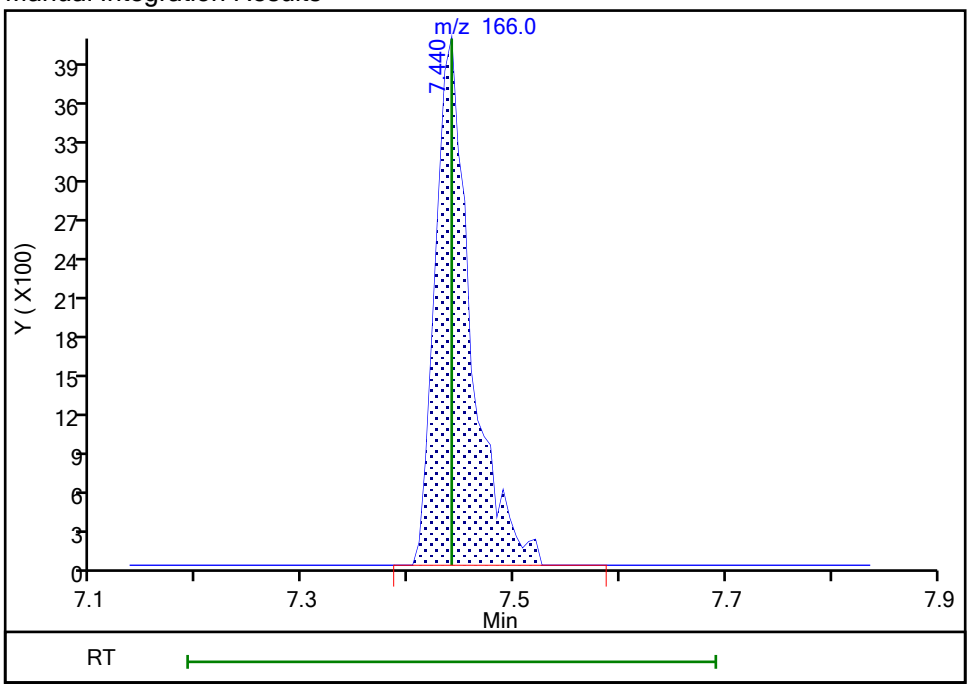
Processing Integration Results

RT: 7.44
Area: 8951
Amount: 6.193554
Amount Units: ug/l



Manual Integration Results

RT: 7.44
Area: 9563
Amount: 4.818263
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:49:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

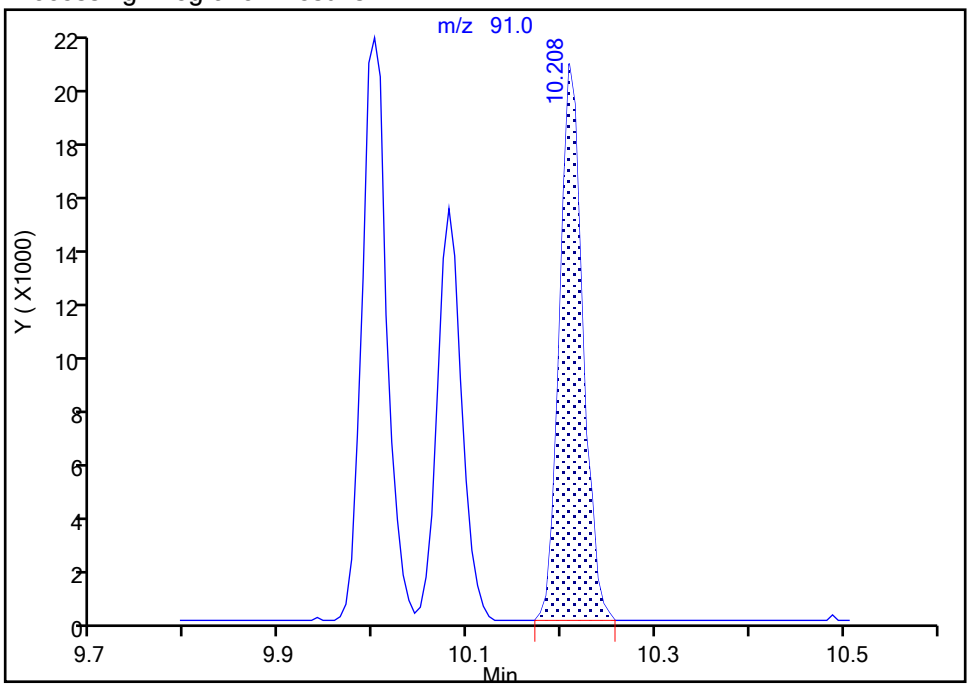
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

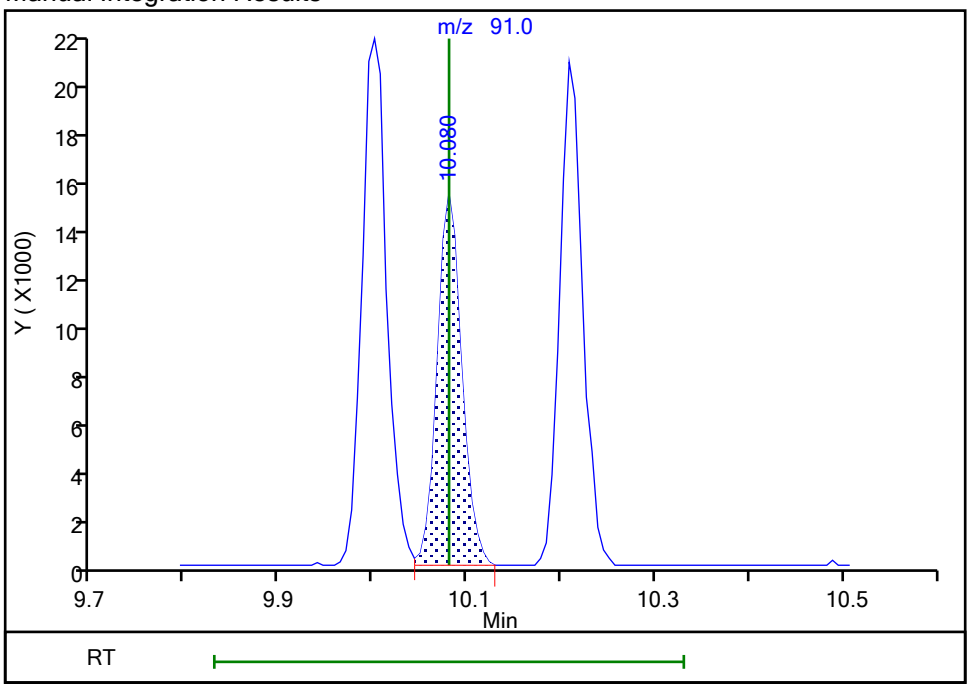
Processing Integration Results

RT: 10.21
Area: 34923
Amount: 5.463405
Amount Units: ug/l



Manual Integration Results

RT: 10.08
Area: 27410
Amount: 4.882920
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:08:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

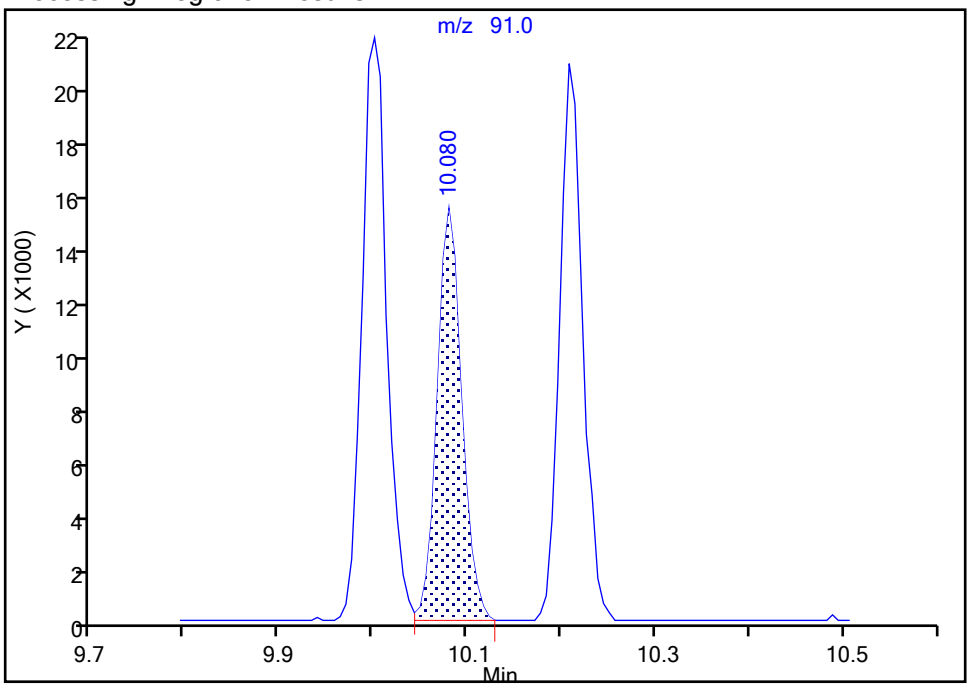
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3729.D
Injection Date: 09-Nov-2020 04:36:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

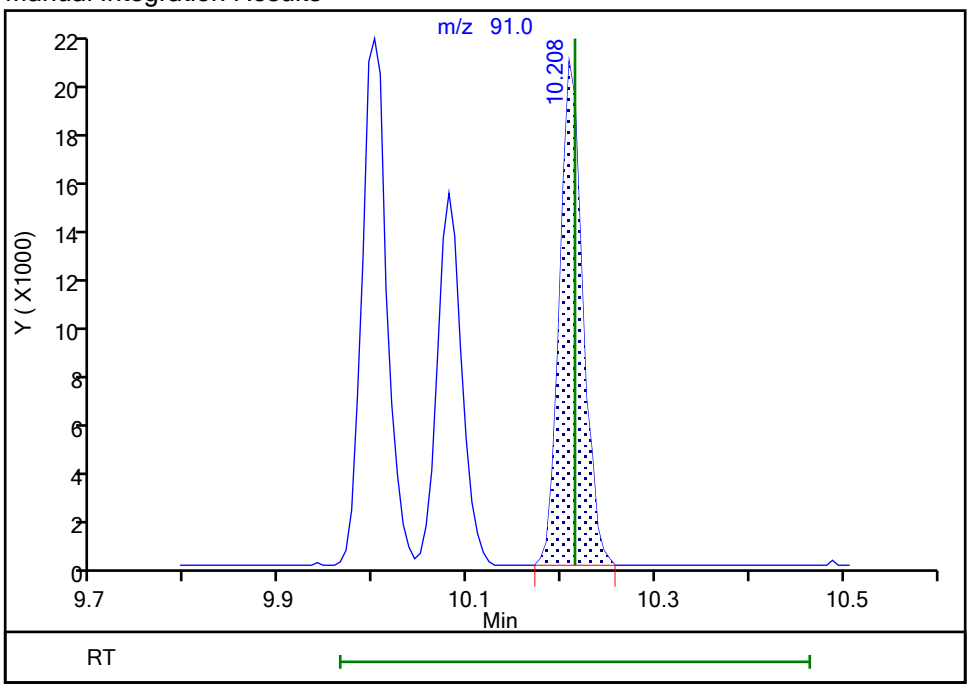
Processing Integration Results

RT: 10.08
Area: 27410
Amount: 4.576992
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 34923
Amount: 5.348326
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:08:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 10-Nov-2020 04:12:28 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Nov-2020 04:59:30 ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:12:25 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 05:57:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.972	0.012	0	53342	1000.0	1000.0	M
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	81074	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	54	5773	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.337	0.007	90	61496	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	88	32933	50.0	50.0	
17 Ethanol	45	2.173	2.167	0.006	99	33031	400.0	435.5	
18 Ethyl ether	59	2.234	2.228	0.006	91	18801	10.0	8.94	M
19 Acrolein	56	2.338	2.338	0.000	98	42758	47.6	49.9	M
20 1,1-Dichloroethene	96	2.417	2.411	0.006	89	19501	10.0	10.7	M
21 112TCTFE	101	2.429	2.429	0.000	90	18181	10.0	12.3	M
22 Acetone	43	2.496	2.490	0.006	97	39911	20.0	21.5	
23 Iodomethane	142	2.539	2.539	0.000	98	18009	10.0	9.60	M
24 Carbon disulfide	76	2.594	2.588	0.006	96	50255	10.0	9.99	
105 Isopropyl alcohol	45	2.673	2.673	0.000	97	36743	100.0	113.7	M
118 Acetonitrile	40	2.746	2.746	0.000	96	55074	100.0	100.9	
25 3-Chloro-1-propene	76	2.764	2.758	0.006	85	7736	10.0	9.72	
26 Methyl acetate	43	2.813	2.807	0.006	99	78252	20.0	19.5	
27 Methylene Chloride	84	2.880	2.874	0.006	84	18404	10.0	9.04	
35 2-Methyl-2-propanol	59	3.063	3.057	0.006	95	34950	100.0	123.6	
30 Acrylonitrile	53	3.124	3.130	-0.006	98	231773	100.0	101.0	
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	91	21211	10.0	10.2	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	91	52831	10.0	12.1	
31 Hexane	57	3.405	3.405	-0.001	96	28562	10.0	12.6	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	46192	10.0	9.87	M
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	85	49833	10.0	10.1	M
33 Vinyl acetate	86	3.612	3.618	-0.006	96	7231	20.0	21.2	
36 Isopropyl ether	87	3.636	3.642	-0.006	86	8799	10.0	9.57	M
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	95	86455	10.0	10.6	
38 2,2-Dichloropropane	77	4.081	4.075	0.006	79	28743	10.0	10.9	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	89	23844	10.0	9.44	
40 2-Butanone (MEK)	43	4.136	4.130	0.006	96	42249	20.0	21.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.185	-0.006	99	89570	100.0	98.0	
104 Ethyl acetate	43	4.203	4.203	0.000	98	83488	20.0	17.1	
42 Chlorobromomethane	128	4.313	4.313	0.000	75	10835	10.0	9.94	
43 Methacrylonitrile	67	4.325	4.331	-0.006	95	116318	100.0	100.9	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	5268	20.0	18.8	
45 Chloroform	83	4.404	4.404	0.000	93	33872	10.0	9.17	M
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	94	33521	10.0	10.4	
47 Cyclohexane	56	4.605	4.606	-0.001	89	64480	10.0	10.6	M
48 Carbon tetrachloride	117	4.715	4.709	0.006	96	23393	10.0	11.2	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	83	26229	10.0	9.30	M
108 Isobutyl alcohol	43	4.916	4.917	-0.001	84	47668	250.0	253.3	
50 Benzene	78	4.923	4.917	0.005	91	78668	10.0	9.36	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	93	37284	10.0	11.3	
116 n-Butanol	56	5.008	5.008	0.000	41	49257	250.0	305.5	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	86	49416	10.0	10.8	
53 n-Heptane	43	5.209	5.209	0.000	92	36459	10.0	11.9	M
54 Trichloroethene	132	5.557	5.557	0.000	92	24913	10.0	9.92	M
117 Ethyl acrylate	55	5.703	5.709	-0.006	96	29927	10.0	9.05	a
114 Methylcyclohexane	83	5.739	5.740	-0.001	88	28410	10.0	10.1	
55 1,2-Dichloropropane	63	5.776	5.776	0.000	94	23223	10.0	9.25	
56 Dibromomethane	93	5.892	5.892	0.000	95	12072	10.0	11.5	
57 Methyl methacrylate	69	5.935	5.935	-0.001	88	28987	20.0	19.6	
115 1,4-Dioxane	58	5.941	5.941	0.000	34	8293	200.0	264.4	M
58 Dichlorobromomethane	83	6.063	6.063	0.000	94	14951	10.0	9.18	
106 2-Nitropropane	43	6.306	6.307	-0.001	97	16088	20.0	19.6	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	81	15148	10.0	9.62	M
60 cis-1,3-Dichloropropene	75	6.526	6.526	0.000	83	17401	10.0	12.0	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	96	89325	20.0	20.8	
62 Toluene	92	6.867	6.867	0.000	96	50566	10.0	9.47	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	89	13647	10.0	12.0	
64 Ethyl methacrylate	69	7.239	7.239	0.000	86	21099	10.0	9.73	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	94	13628	10.0	10.1	
66 Tetrachloroethene	166	7.440	7.440	0.000	95	20552	10.0	10.2	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	87	24475	10.0	10.2	
68 2-Hexanone	43	7.599	7.599	0.000	97	58012	20.0	20.0	
69 Chlorodibromomethane	129	7.709	7.709	0.000	92	8427	10.0	8.93	
109 n-Butyl acetate	43	7.751	7.757	-0.006	97	54689	10.0	10.1	
70 Ethylene Dibromide	107	7.818	7.818	0.000	94	12324	10.0	9.82	
71 Chlorobenzene	112	8.373	8.373	0.000	92	59006	10.0	10.2	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	93	22407	10.0	11.6	
73 Ethylbenzene	91	8.507	8.513	-0.006	97	84174	10.0	10.6	
74 m-Xylene & p-Xylene	106	8.647	8.648	-0.001	97	32533	10.0	10.3	
75 o-Xylene	106	9.092	9.093	-0.001	98	29938	10.0	10.1	
76 Styrene	104	9.111	9.111	0.000	91	54711	10.0	10.6	
77 Bromoform	173	9.294	9.294	0.000	95	4343	10.0	9.09	
78 Isopropylbenzene	105	9.519	9.525	-0.006	96	73067	10.0	10.4	
79 Bromobenzene	156	9.836	9.842	-0.006	86	23136	10.0	11.0	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.879	-0.006	96	20547	10.0	10.6	
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	93	19921	10.0	12.2	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	61	5164	10.0	13.4	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	84128	10.0	10.7	
84 2-Chlorotoluene	91	10.080	10.080	0.000	95	58286	10.0	10.4	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.208	10.214	-0.006	98	73717	10.0	11.3	a
86 1,3,5-Trimethylbenzene	105	10.214	10.220	-0.006	94	75755	10.0	11.4	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	100293	10.0	11.4	
88 1,2,4-Trimethylbenzene	105	10.647	10.653	-0.006	97	69189	10.0	11.4	
89 sec-Butylbenzene	105	10.854	10.854	0.000	95	83494	10.0	11.8	
90 1,3-Dichlorobenzene	146	10.952	10.958	-0.006	98	42079	10.0	10.8	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	94	65026	10.0	11.8	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	94	45642	10.0	10.7	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	70765	10.0	11.2	
113 Benzyl chloride	126	11.238	11.238	0.000	98	2371	10.0	7.22	
93 1,2-Dichlorobenzene	146	11.500	11.501	-0.001	96	39577	10.0	10.3	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	56583	10.0	11.8	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	70	2942	10.0	12.0	
112 1,3,5-Trichlorobenzene	180	12.695	12.696	-0.001	96	28950	10.0	11.9	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	94	22301	10.0	11.3	
97 Hexachlorobutadiene	225	13.671	13.677	-0.006	91	9994	10.0	11.3	
98 Naphthalene	128	13.726	13.726	0.000	97	70537	10.0	11.1	
99 1,2,3-Trichlorobenzene	180	14.030	14.025	0.005	95	18893	10.0	10.6	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		20.0	19.7	
S 100 Xylenes, Total	1				0		20.0	20.4	
S 102 1,3-Dichloropropene, Total	1				0		20.0	24.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	10.00	Units: uL

Report Date: 10-Nov-2020 04:12:28 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D

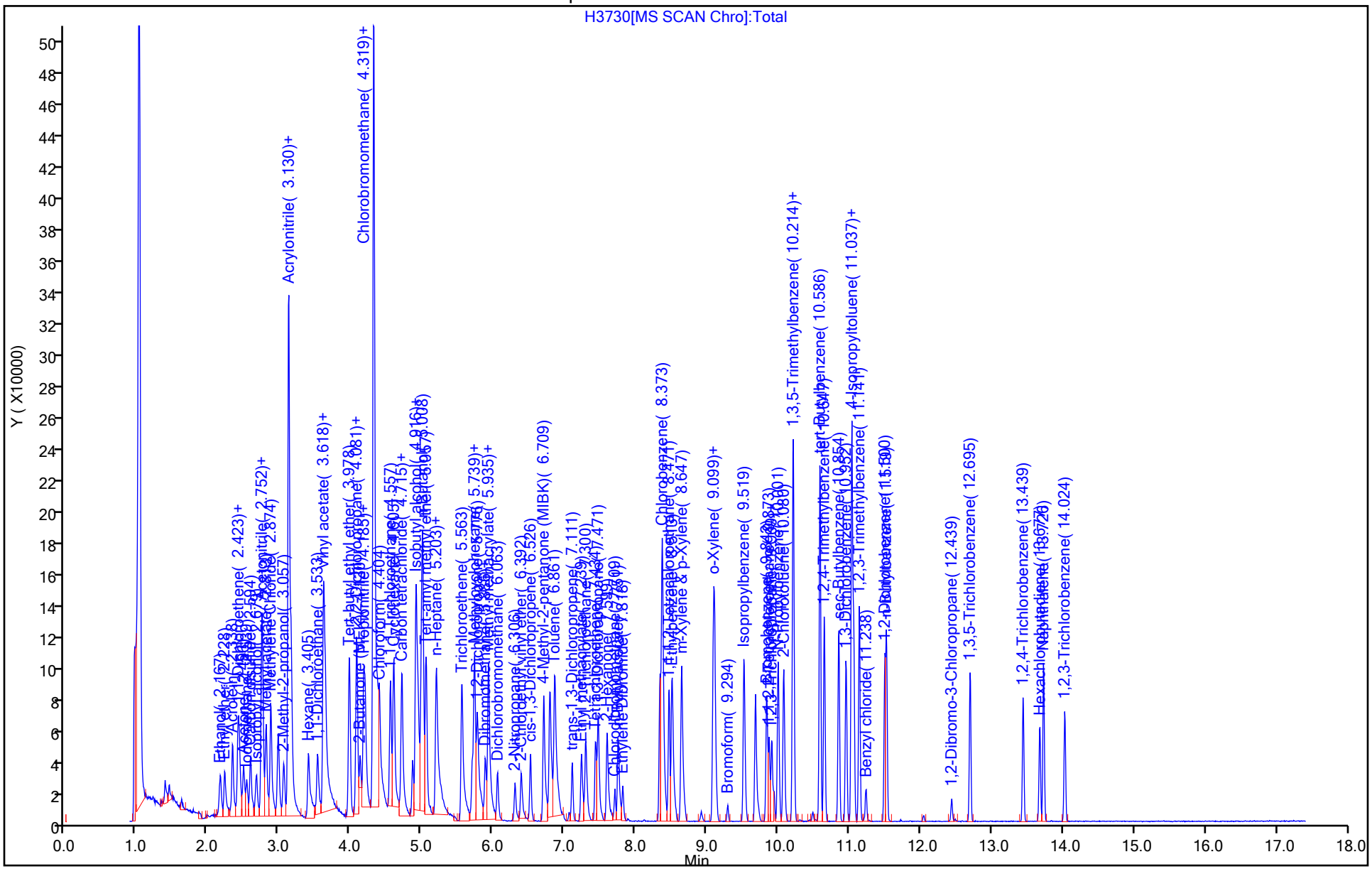
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes Operator ID:

Lims ID: std5 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

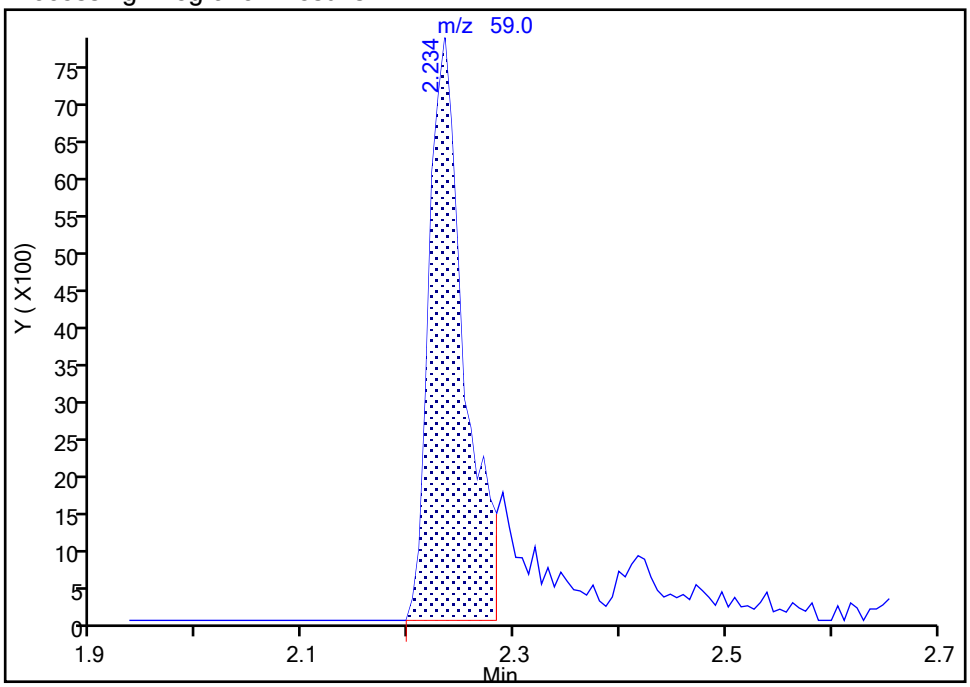
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

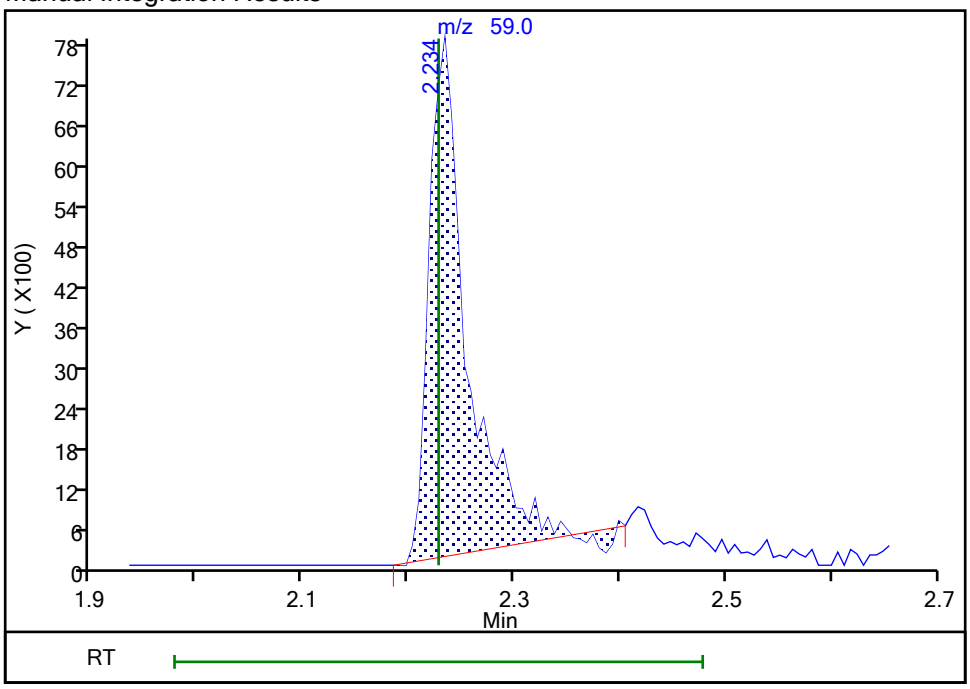
Processing Integration Results

RT: 2.23
Area: 18109
Amount: 0.291628
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 18801
Amount: 8.937138
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:57:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

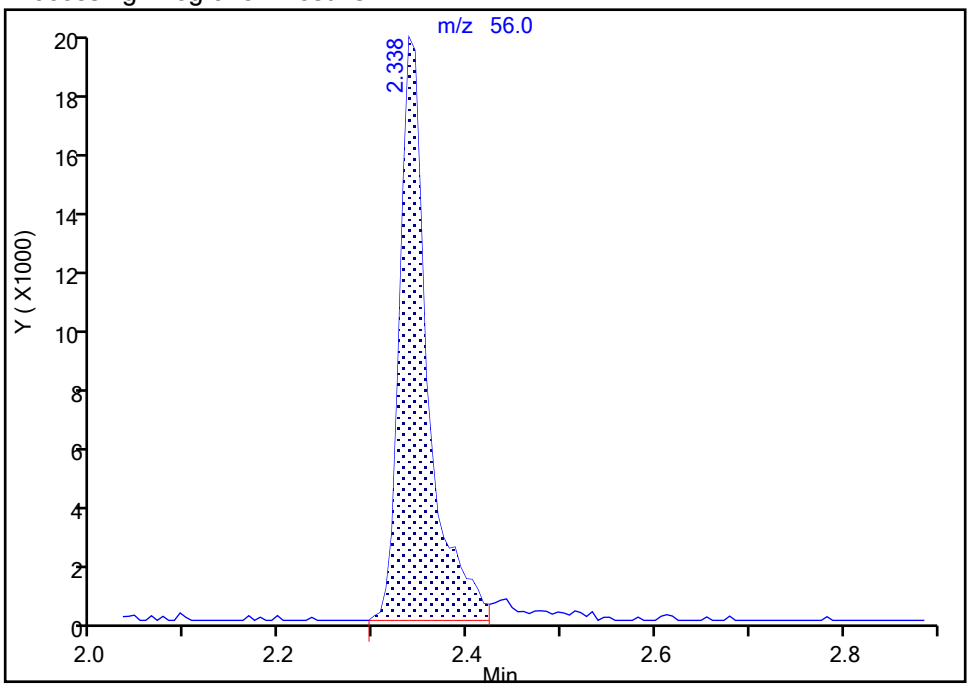
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

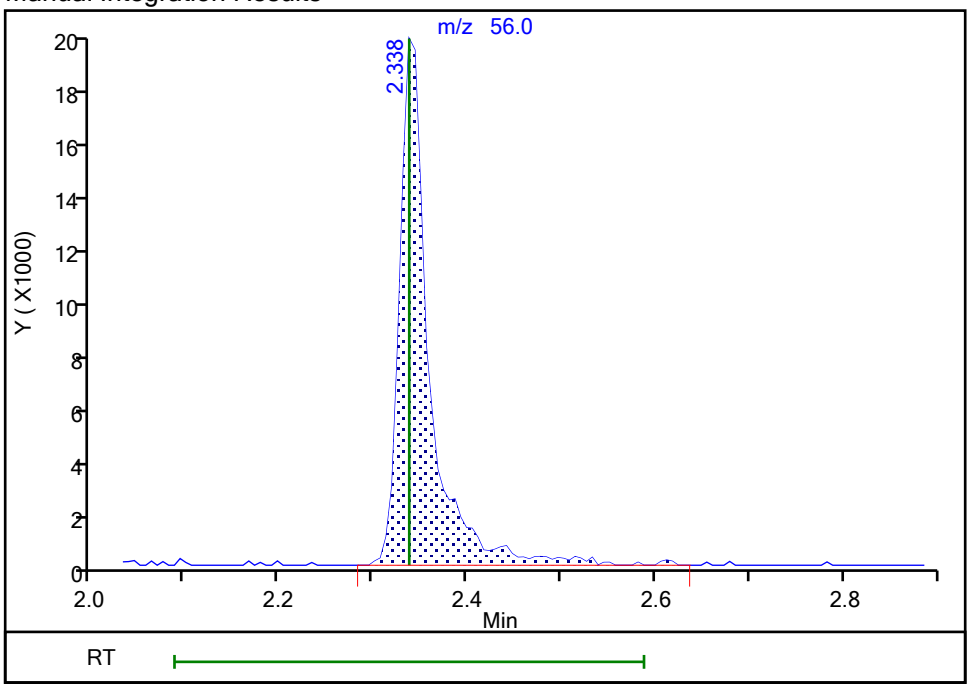
Processing Integration Results

RT: 2.34
Area: 40271
Amount: 1.644742
Amount Units: ug/l



Manual Integration Results

RT: 2.34
Area: 42758
Amount: 49.851791
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:57:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

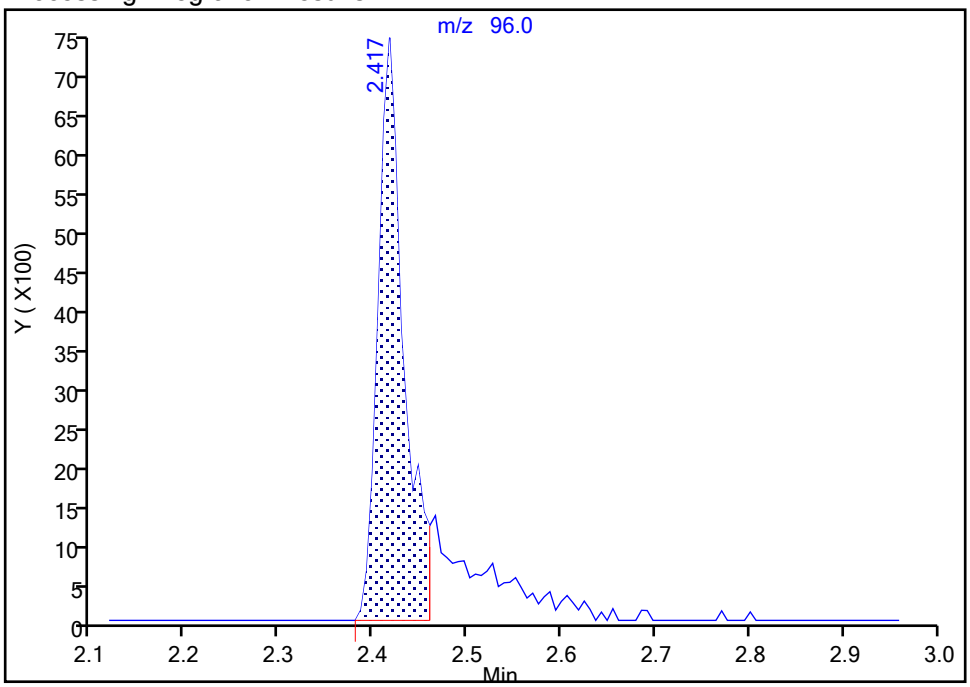
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

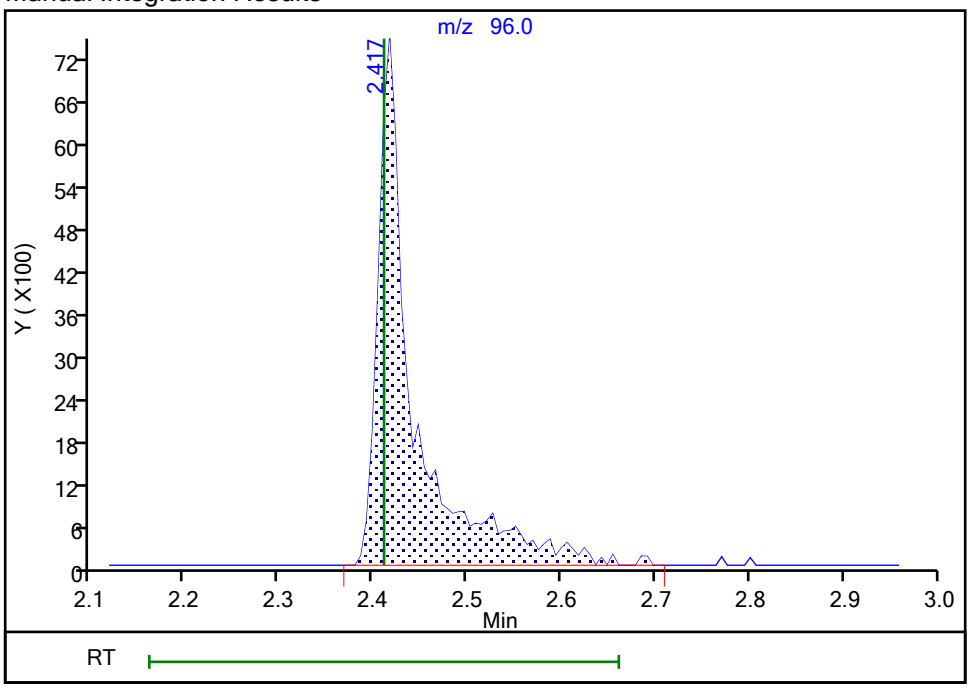
Processing Integration Results

RT: 2.42
Area: 14322
Amount: 0.301948
Amount Units: ug/l



Manual Integration Results

RT: 2.42
Area: 19501
Amount: 10.728150
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:57:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

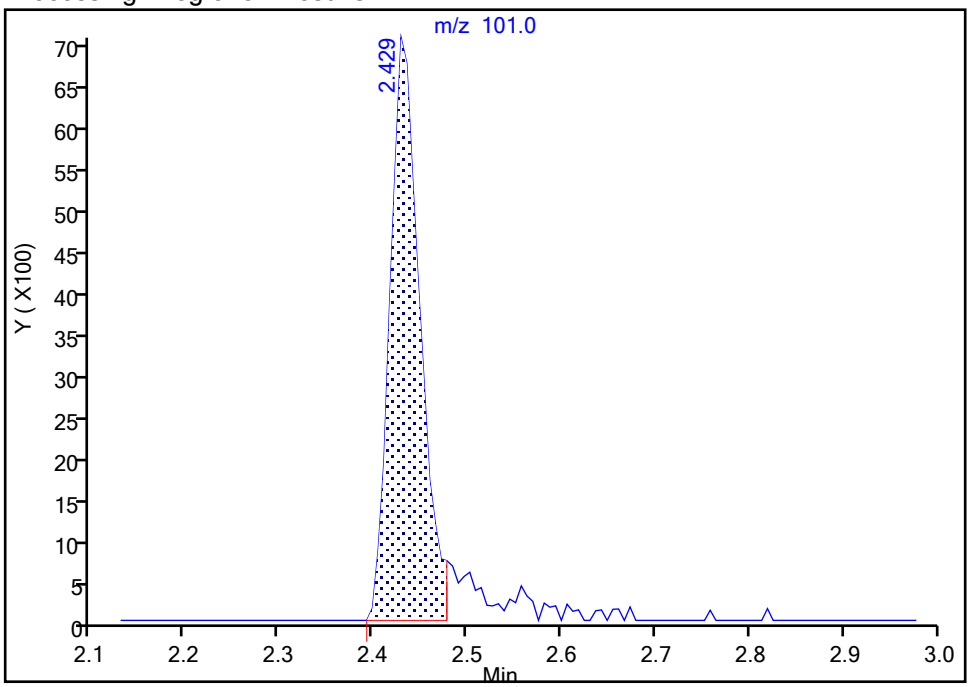
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

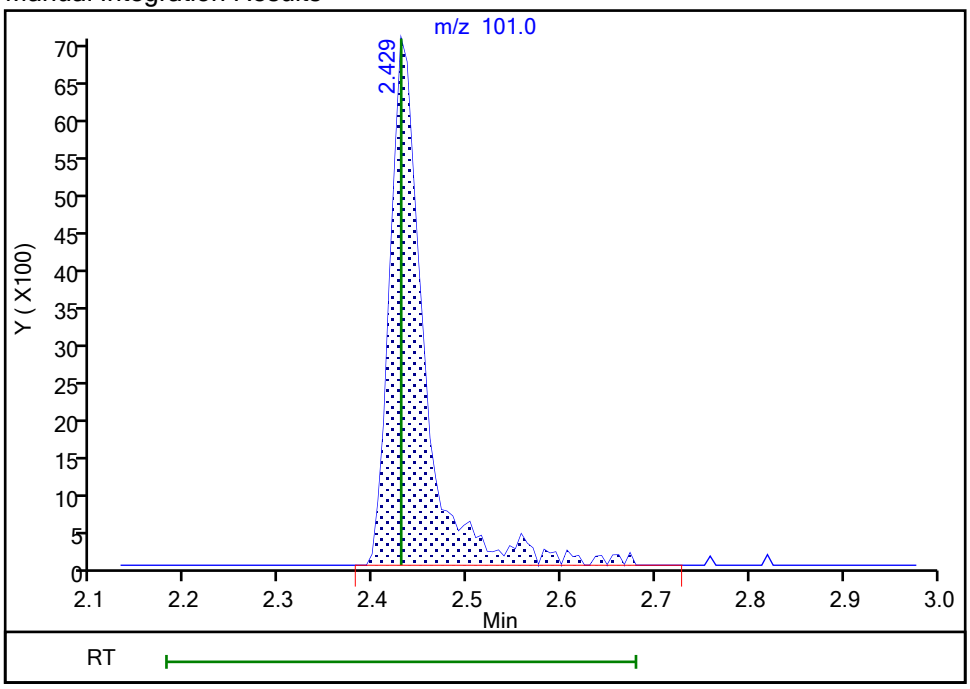
Processing Integration Results

RT: 2.43
Area: 15712
Amount: 0.513966
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 18181
Amount: 12.298913
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

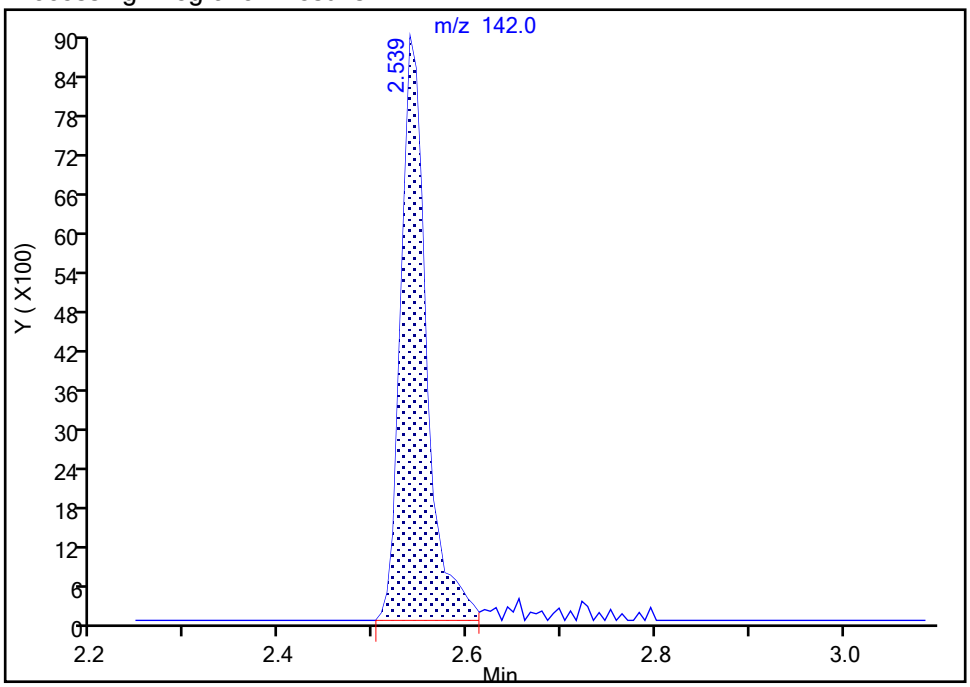
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

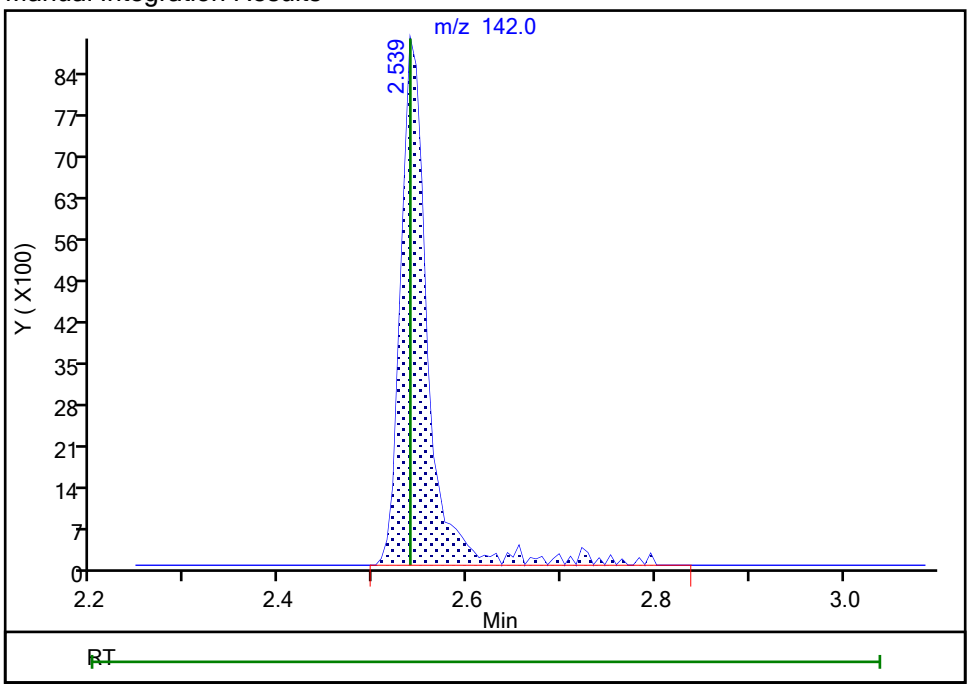
Processing Integration Results

RT: 2.54
Area: 16846
Amount: 0.609499
Amount Units: ug/l



Manual Integration Results

RT: 2.54
Area: 18009
Amount: 9.597456
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

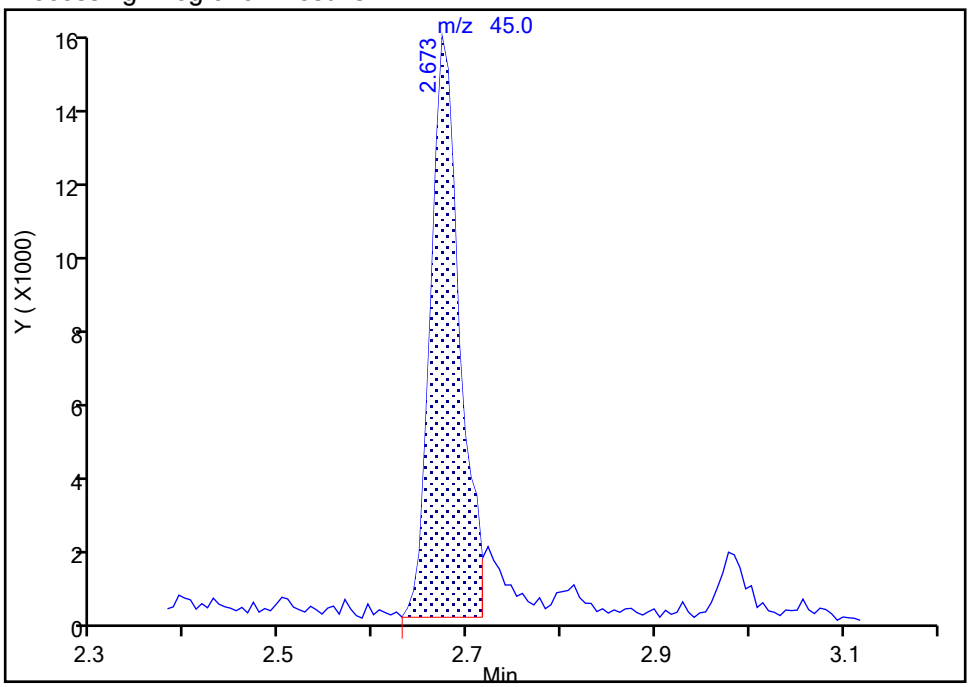
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

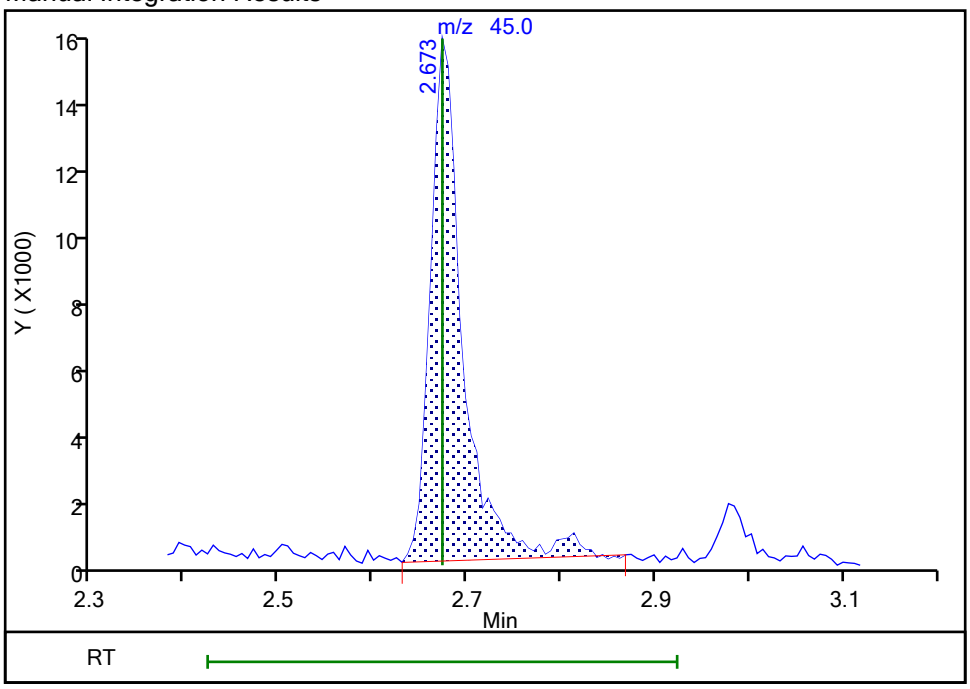
Processing Integration Results

RT: 2.67
Area: 33048
Amount: 3.927595
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 36743
Amount: 113.7283
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

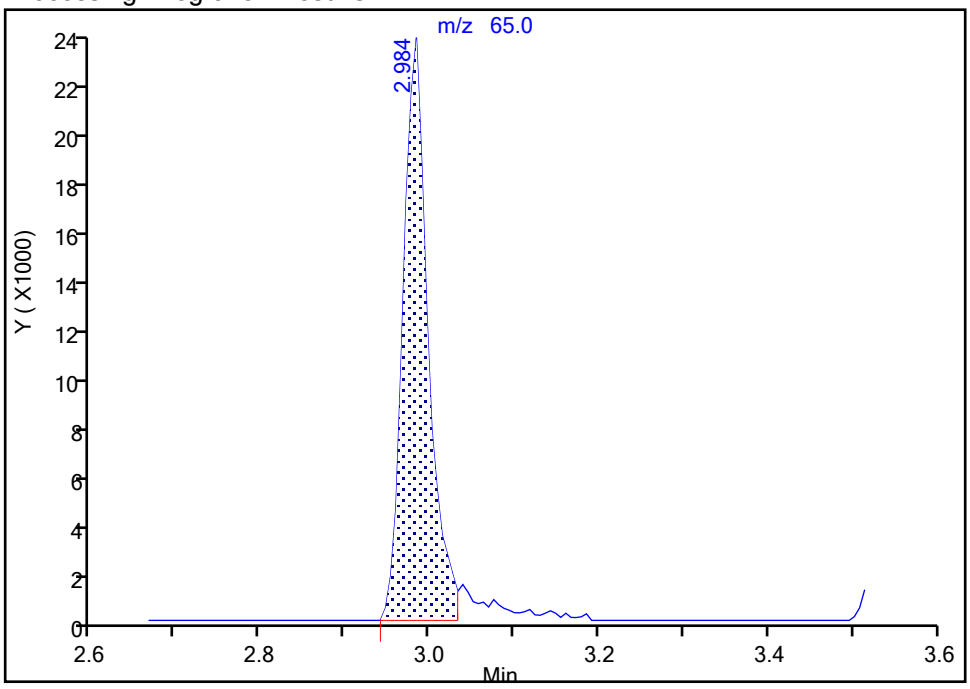
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 135 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

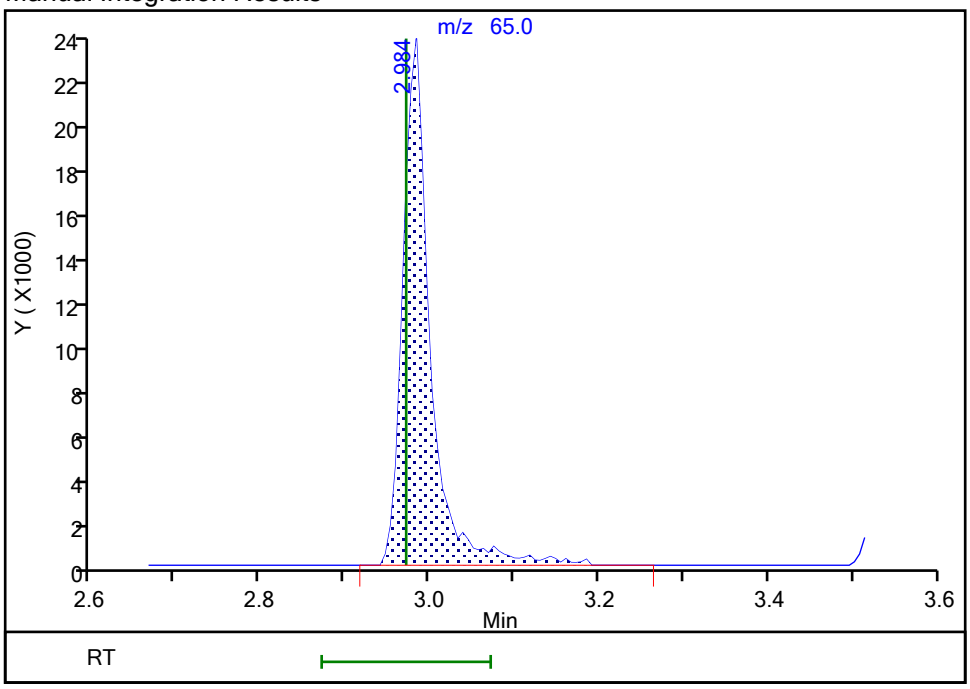
Processing Integration Results

RT: 2.98
Area: 49074
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 53342
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:57:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

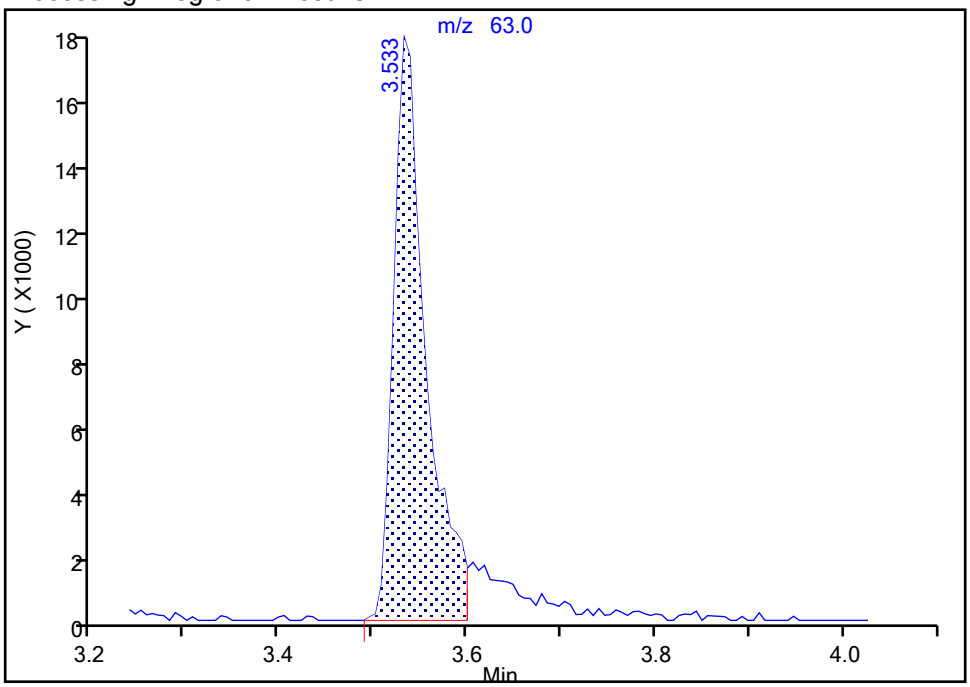
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

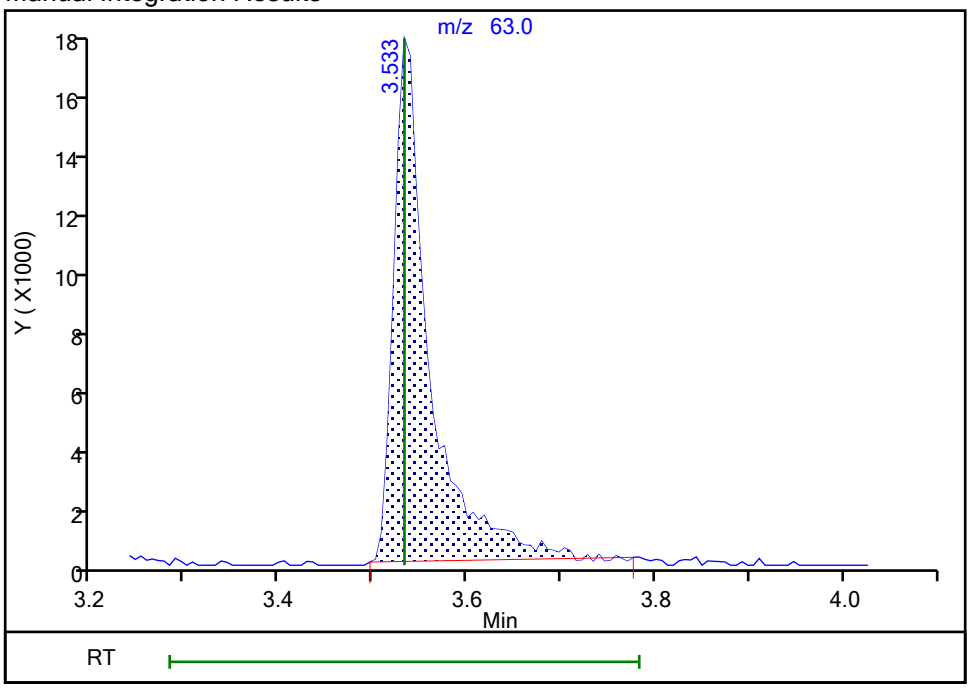
Processing Integration Results

RT: 3.53
Area: 42353
Amount: 0.333080
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 46192
Amount: 9.868612
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

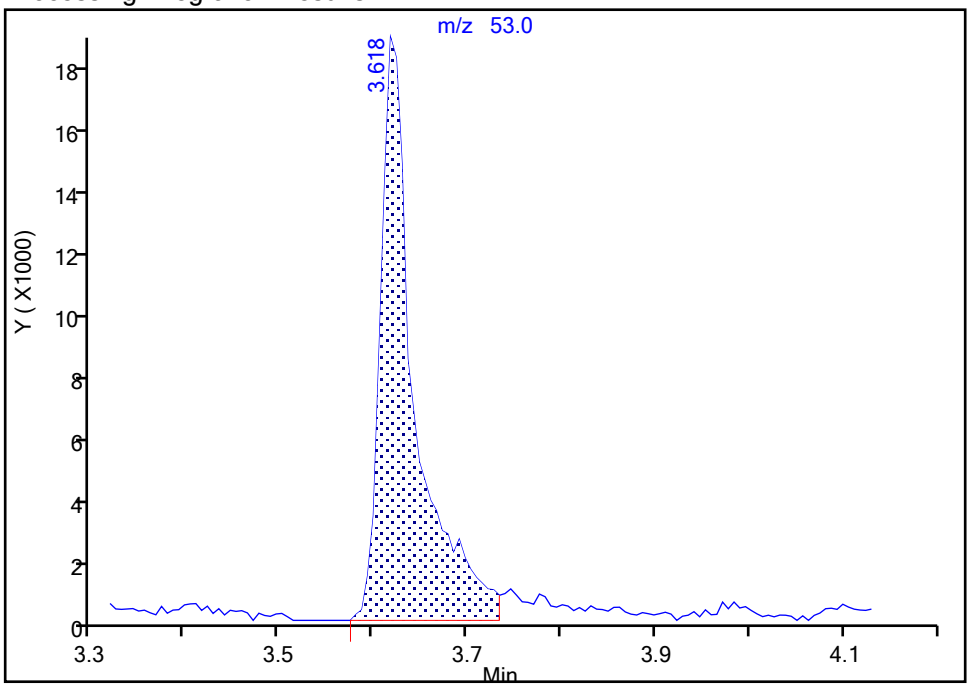
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

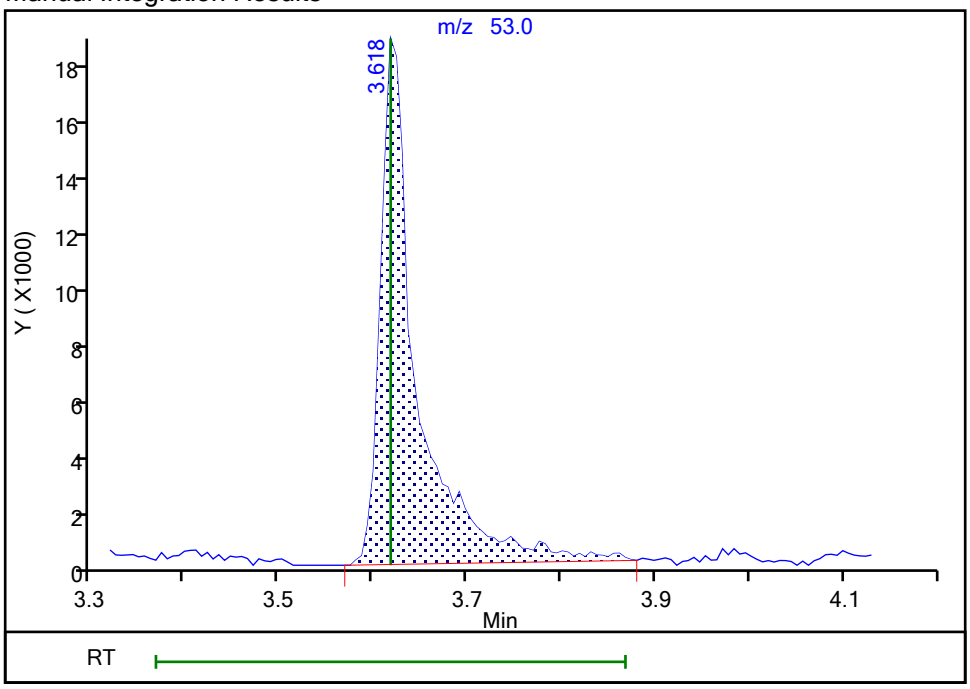
Processing Integration Results

RT: 3.62
Area: 47201
Amount: 0.358545
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 49833
Amount: 10.106992
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

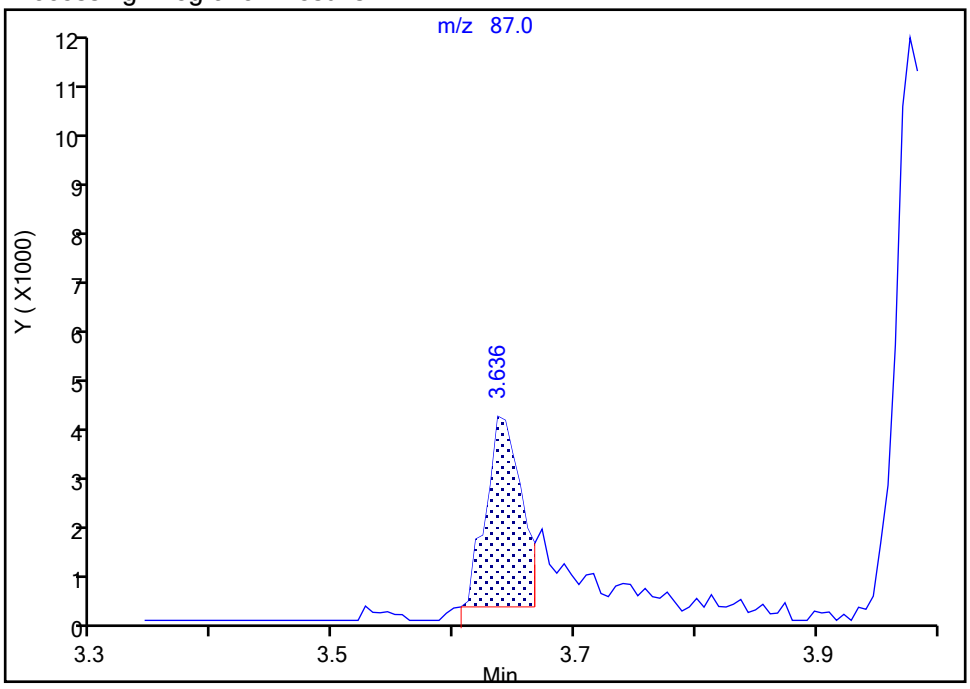
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

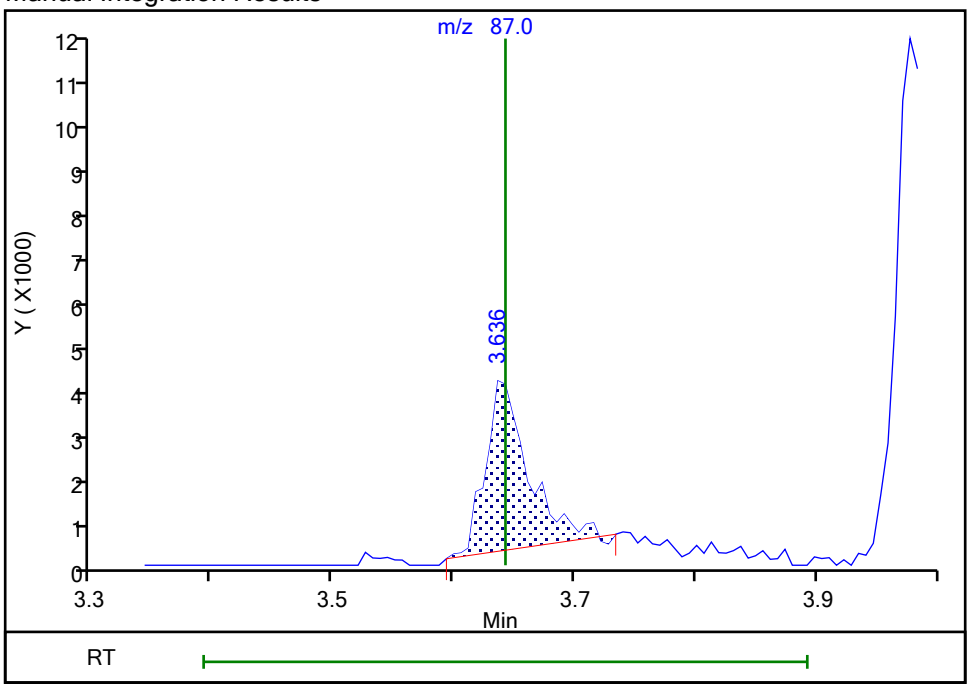
Processing Integration Results

RT: 3.64
Area: 7524
Amount: 0.261190
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 8799
Amount: 9.571490
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

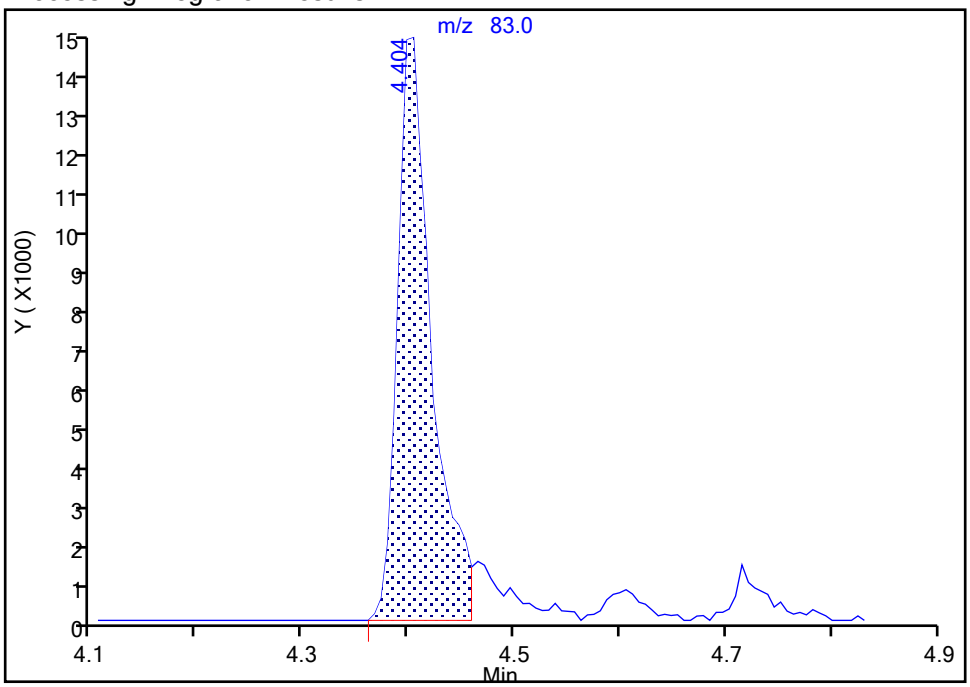
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

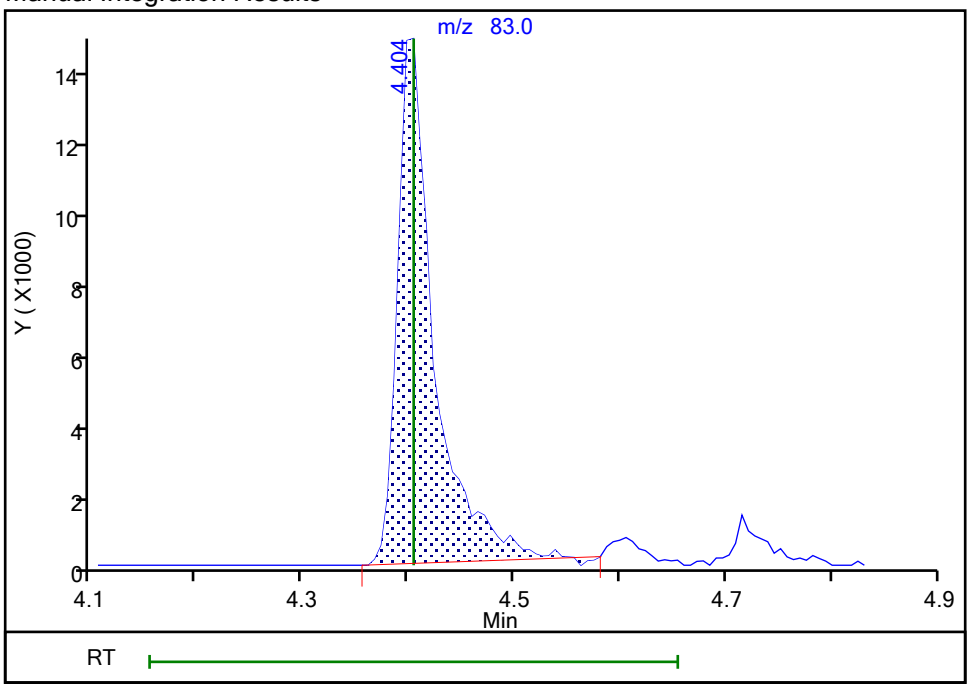
Processing Integration Results

RT: 4.40
Area: 31919
Amount: 0.324506
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 33872
Amount: 9.166072
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

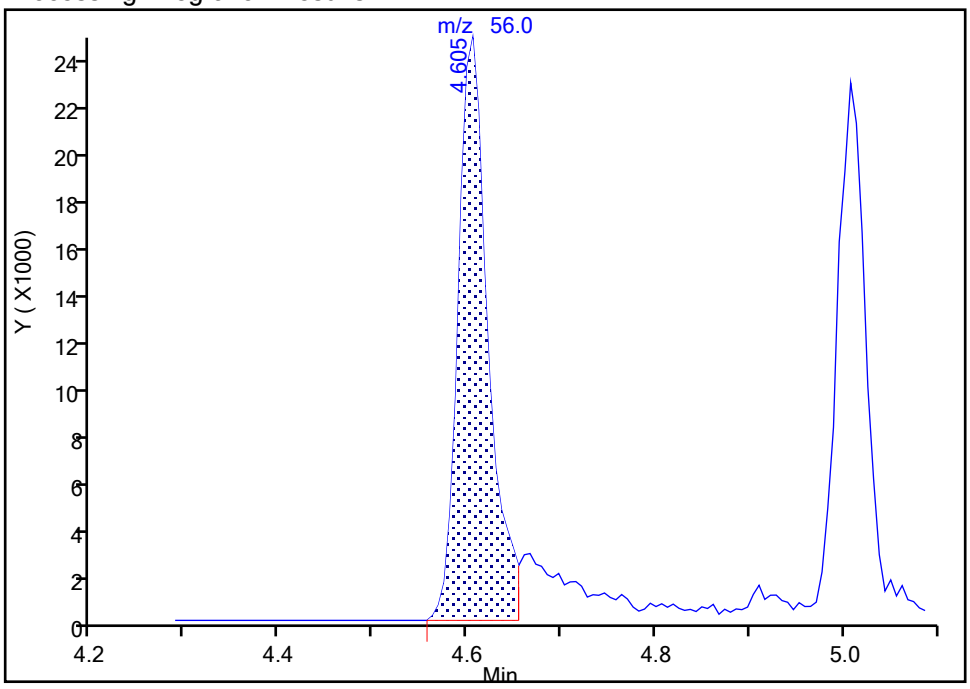
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

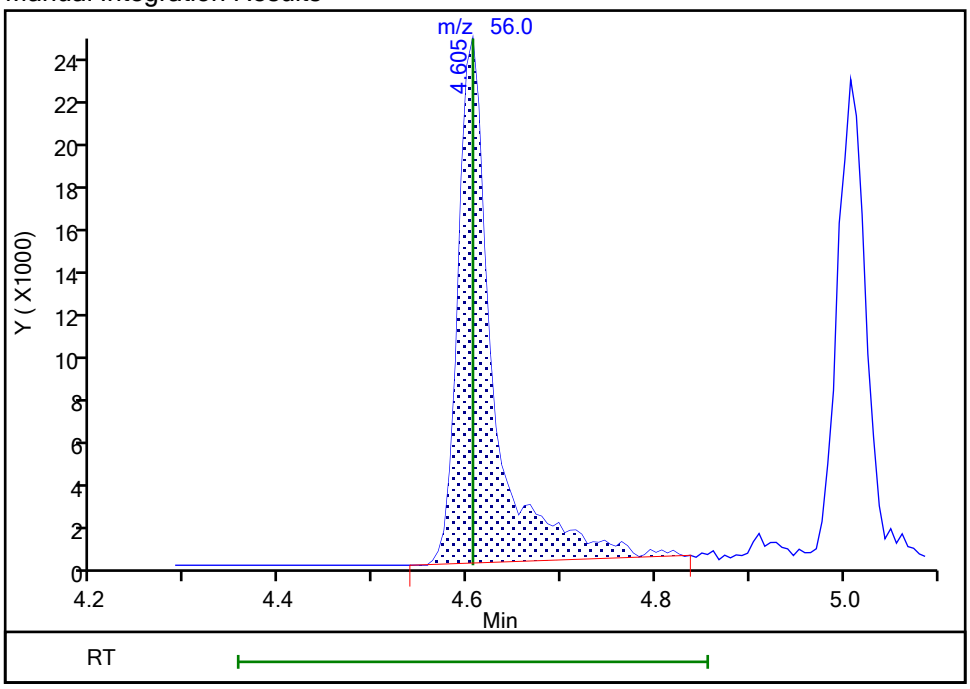
Processing Integration Results

RT: 4.61
Area: 55318
Amount: 0.323300
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 64480
Amount: 10.569366
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:58:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

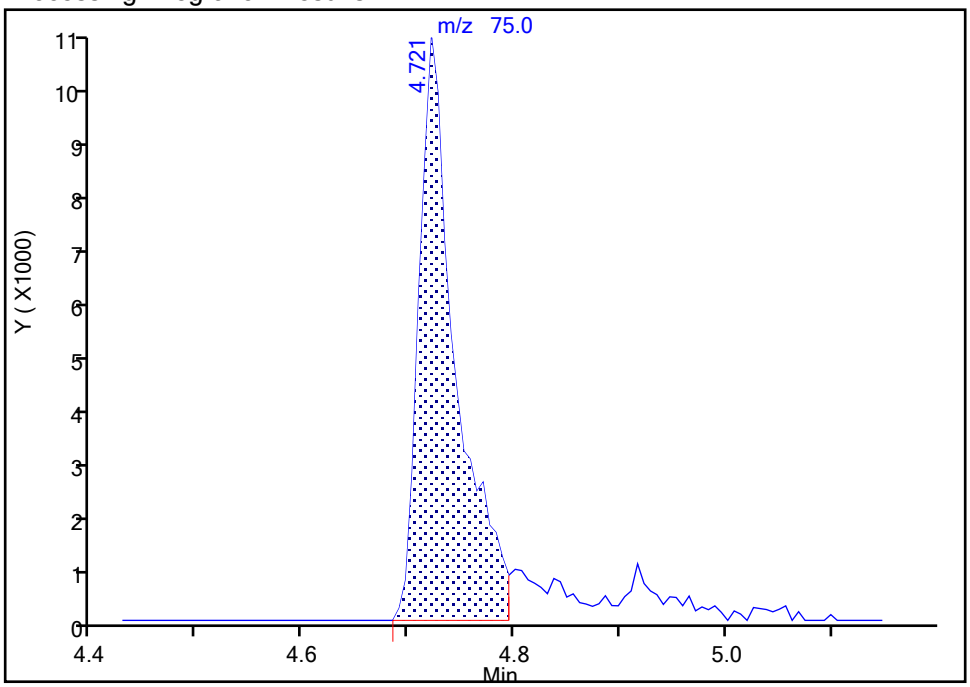
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

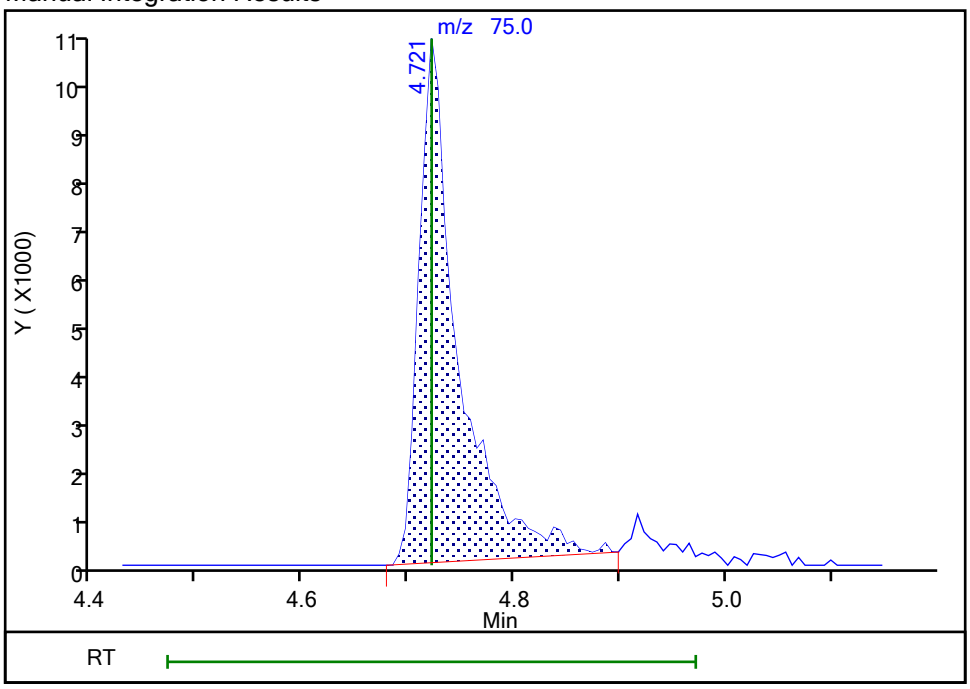
Processing Integration Results

RT: 4.72
Area: 24834
Amount: 0.315219
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 26229
Amount: 9.295995
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

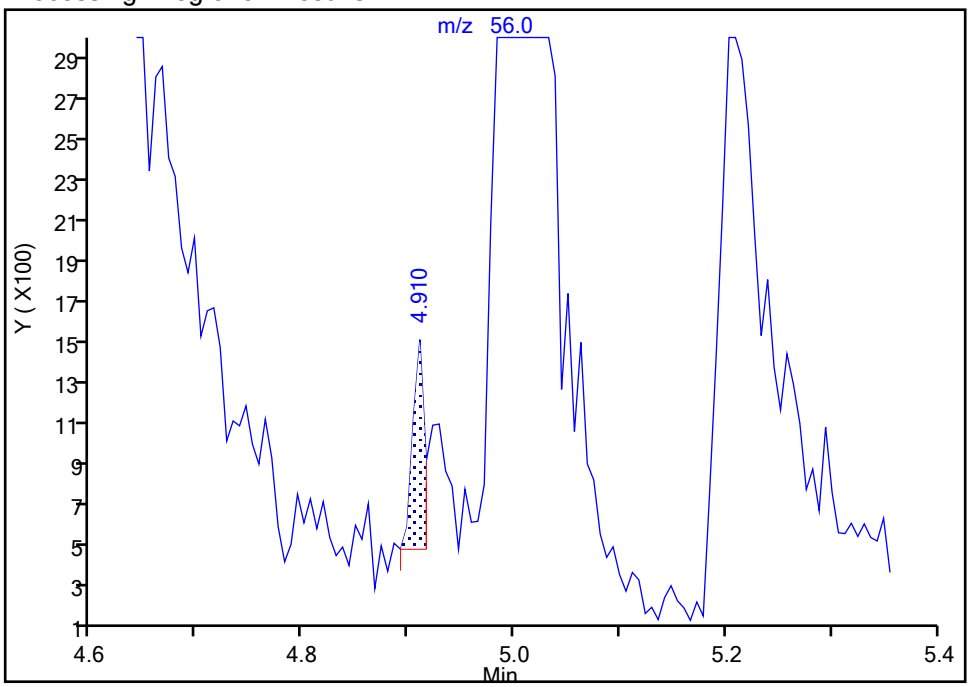
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

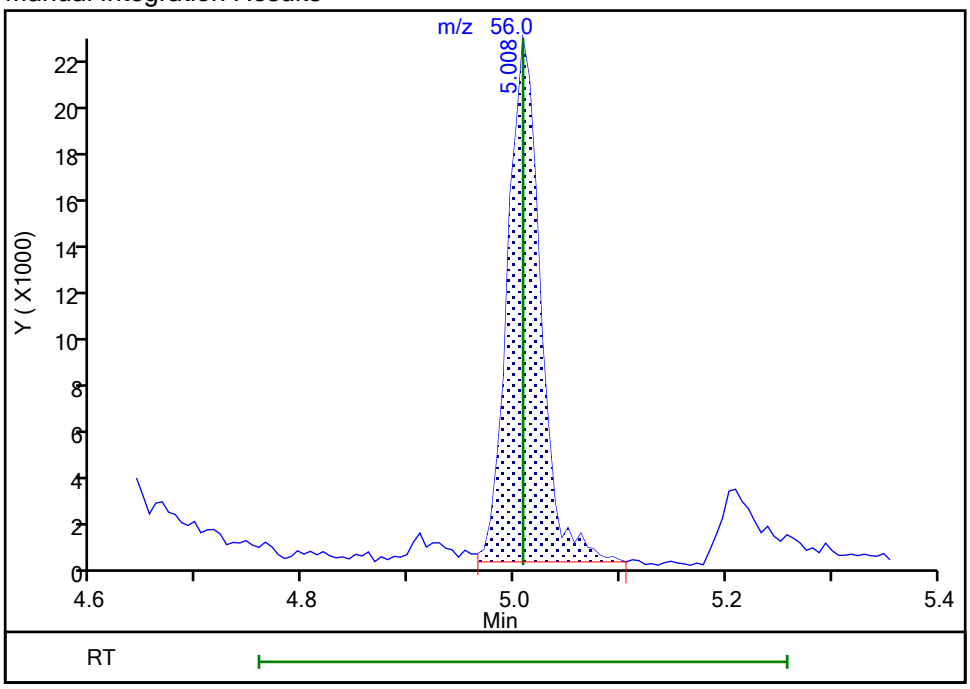
Processing Integration Results

RT: 4.91
Area: 821
Amount: 1.003132
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 49257
Amount: 305.4668
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:13
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

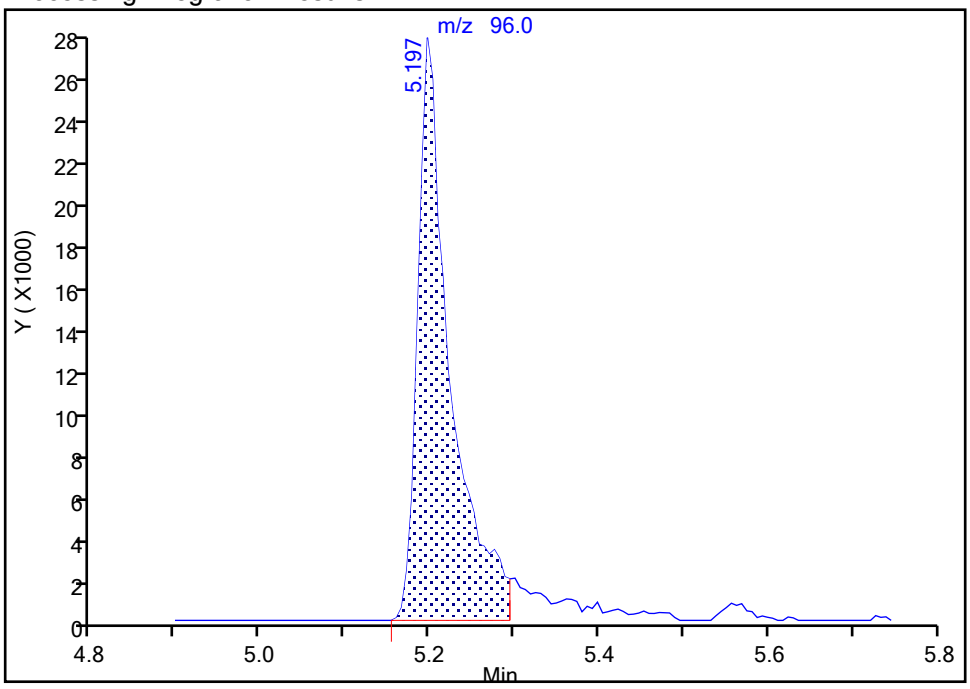
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

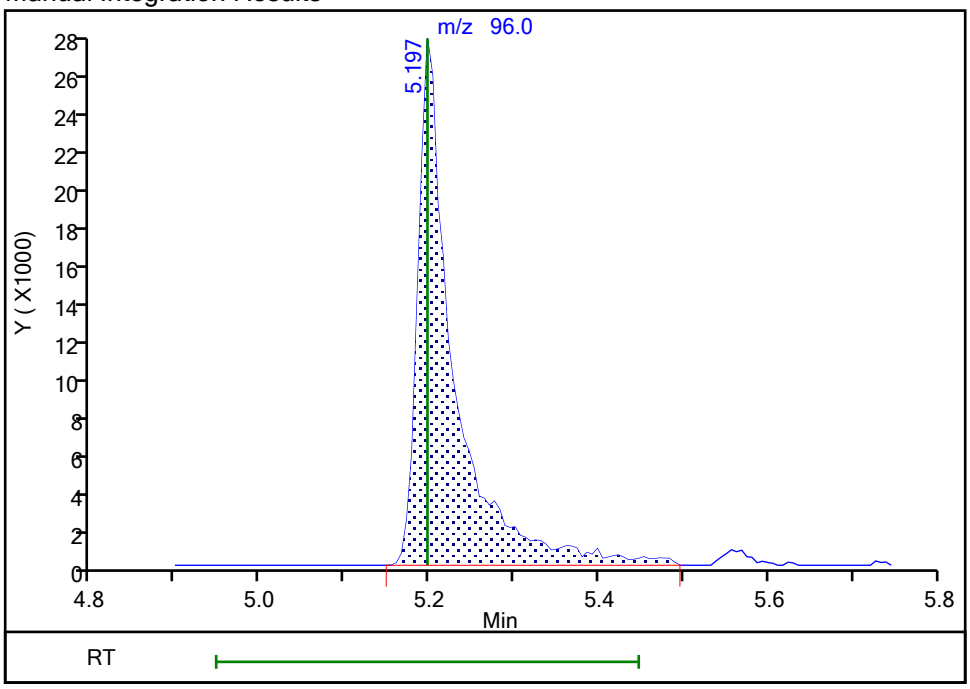
Processing Integration Results

RT: 5.20
Area: 72643
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 81074
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:57:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

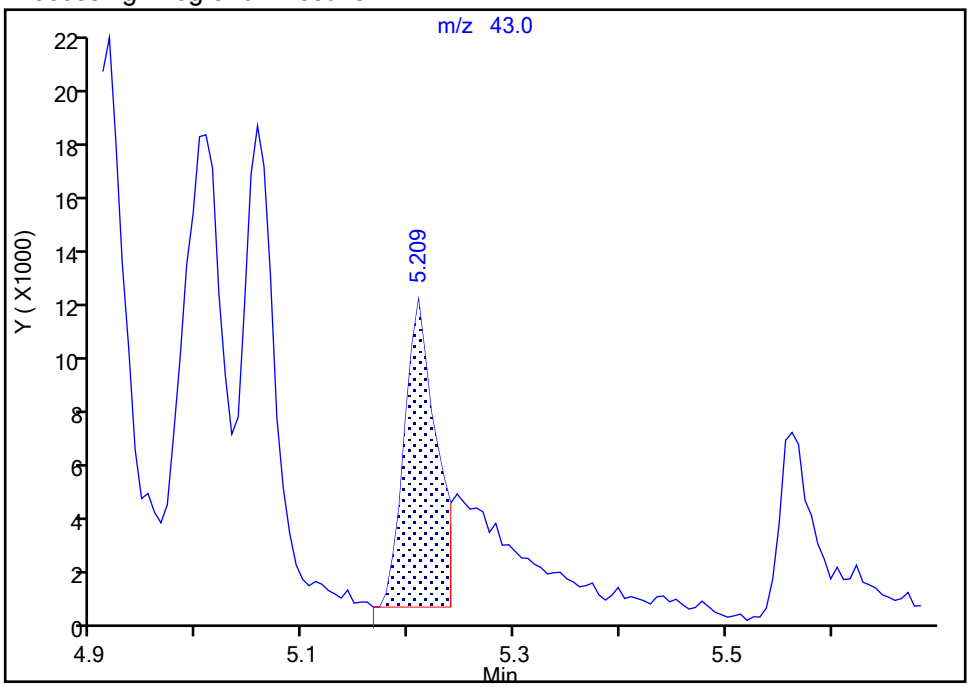
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

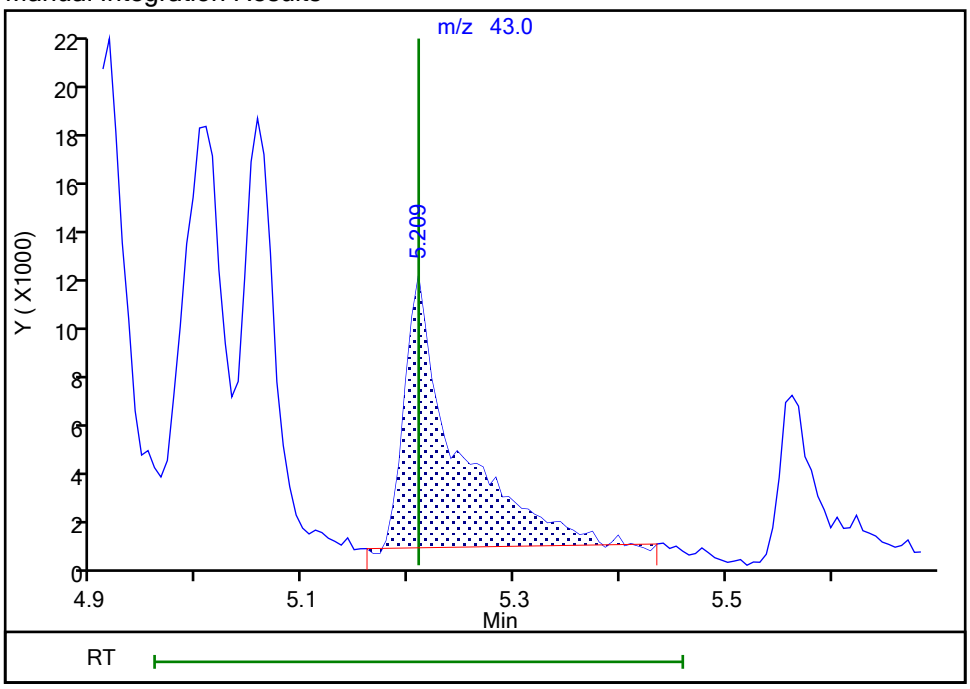
Processing Integration Results

RT: 5.21
Area: 23247
Amount: 0.188968
Amount Units: ug/l



Manual Integration Results

RT: 5.21
Area: 36459
Amount: 11.912567
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

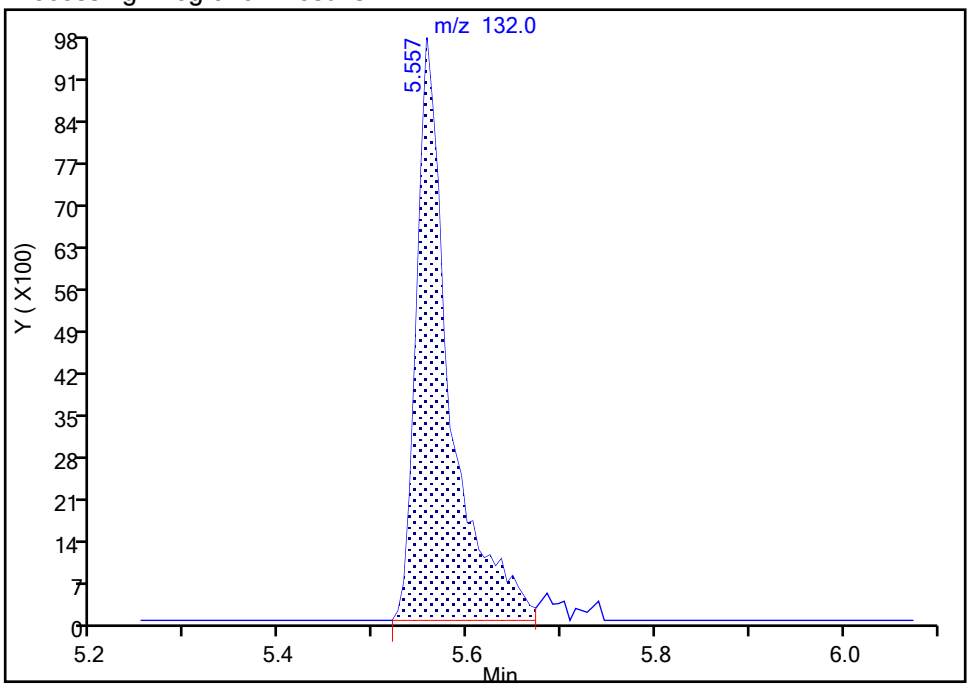
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

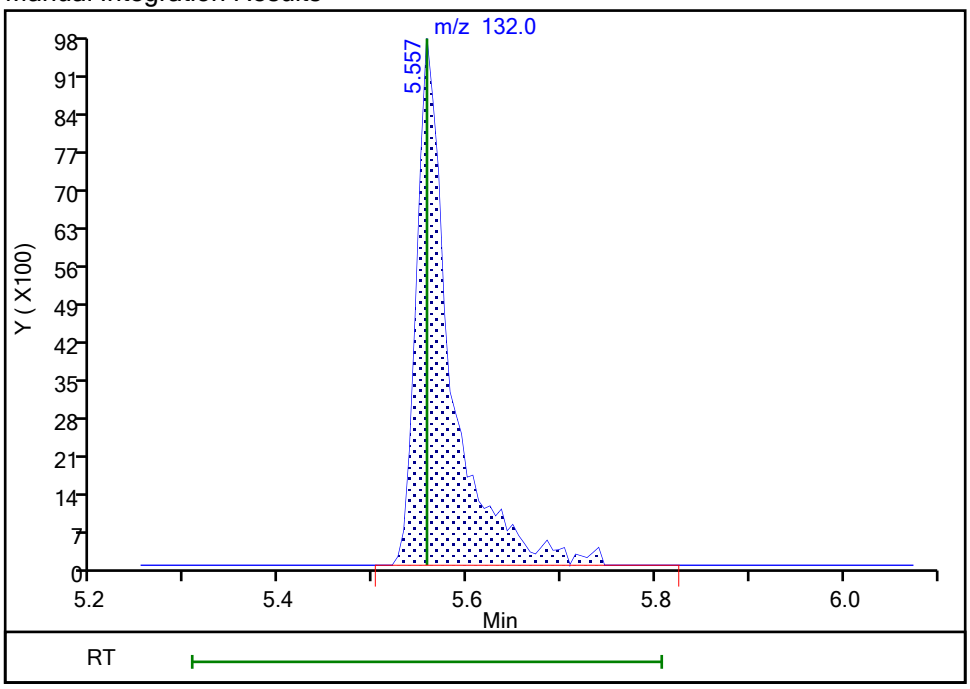
Processing Integration Results

RT: 5.56
Area: 23920
Amount: 0.348416
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 24913
Amount: 9.924580
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

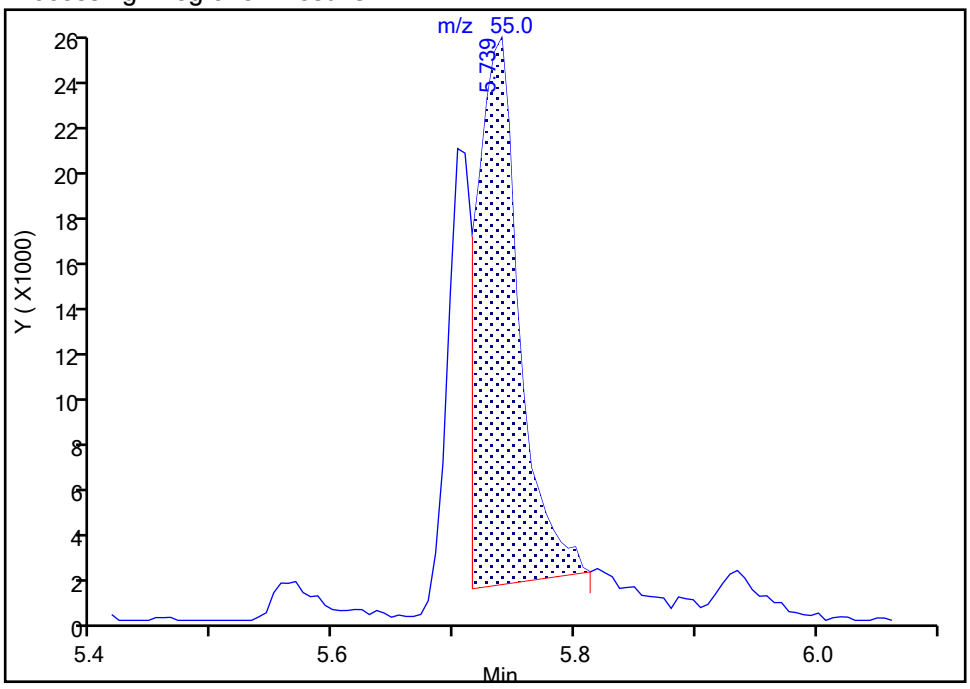
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

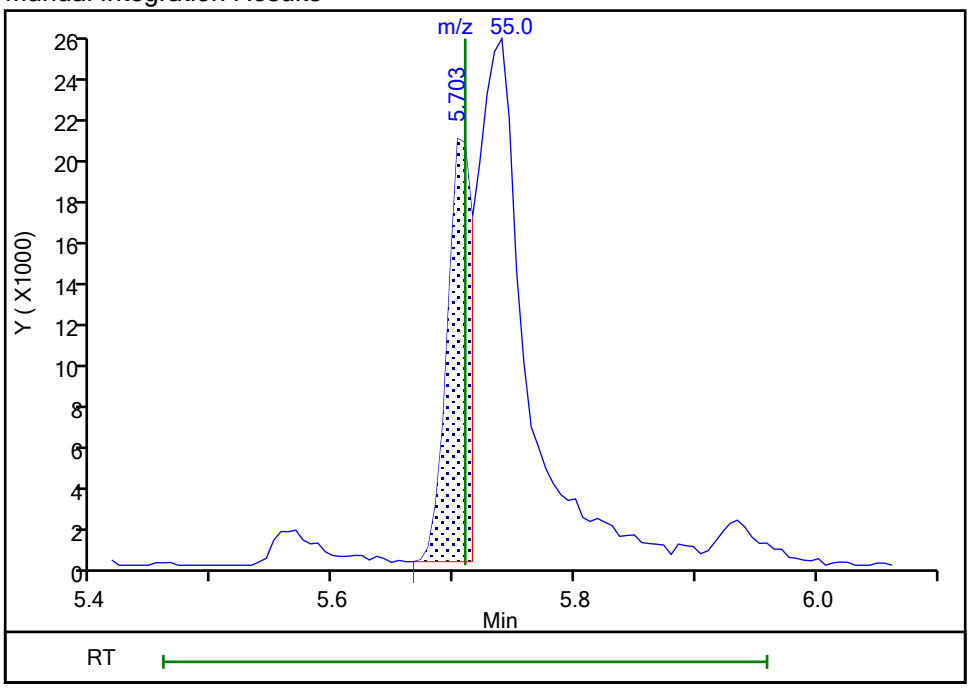
Processing Integration Results

RT: 5.74
Area: 58774
Amount: 3.800030
Amount Units: ug/l



Manual Integration Results

RT: 5.70
Area: 29927
Amount: 9.051202
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:39
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

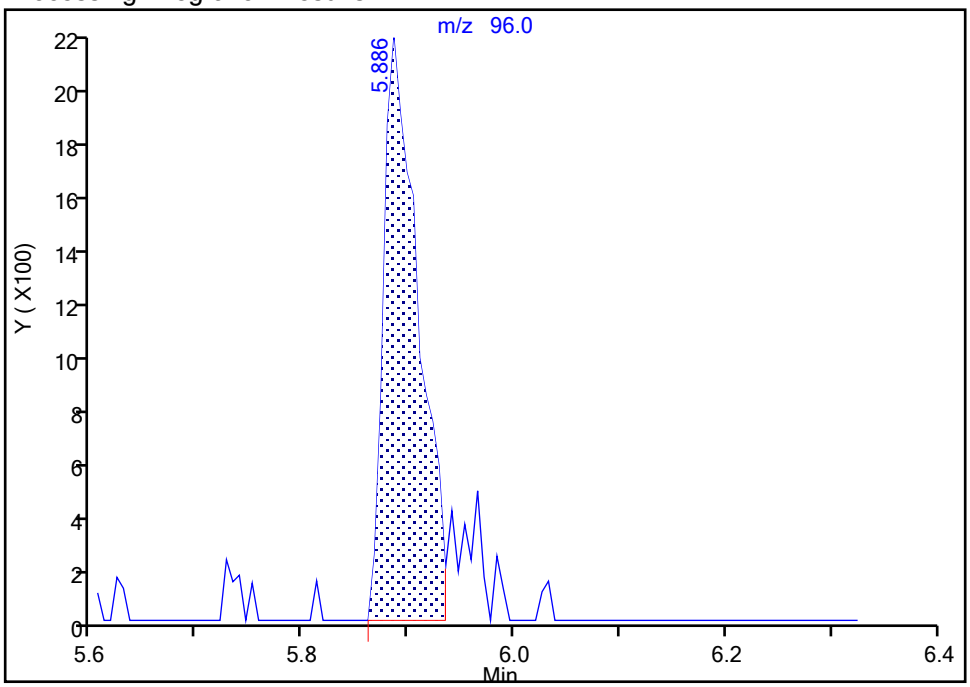
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

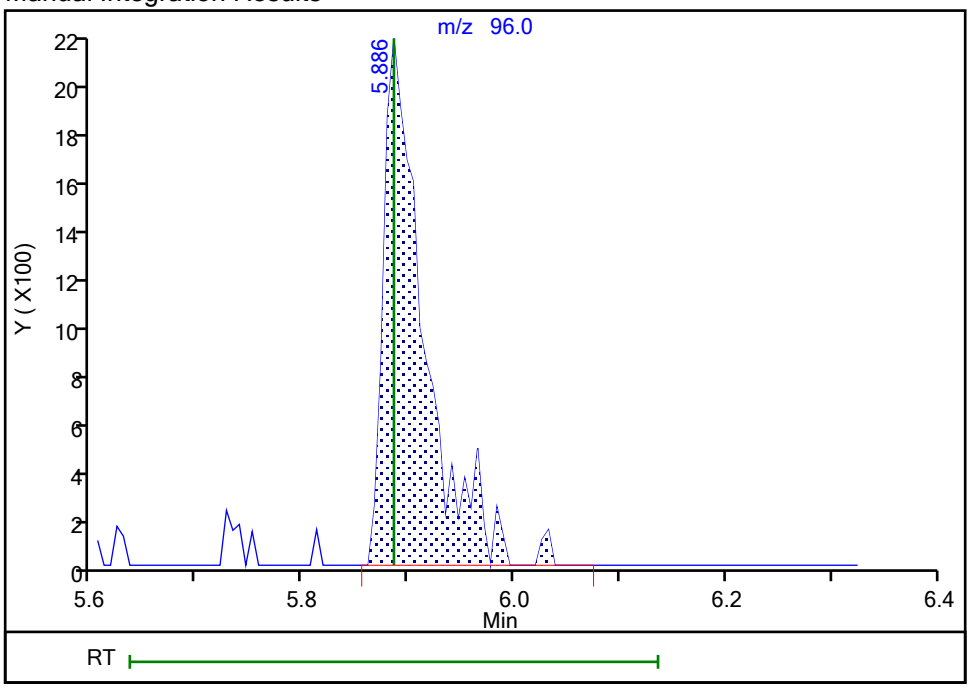
Processing Integration Results

RT: 5.89
Area: 4896
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5773
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:57:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

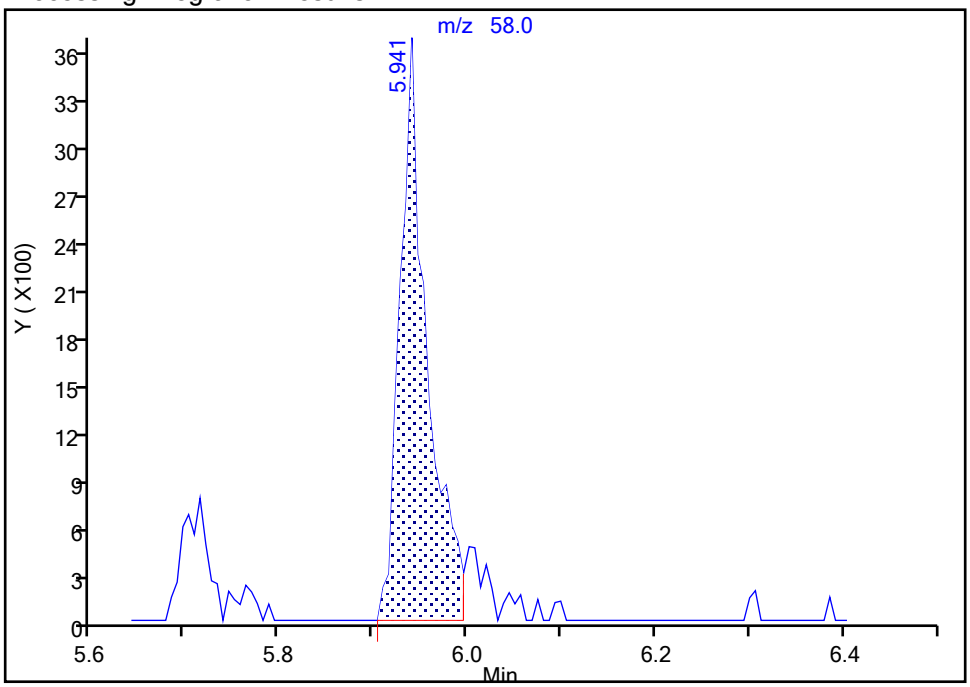
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

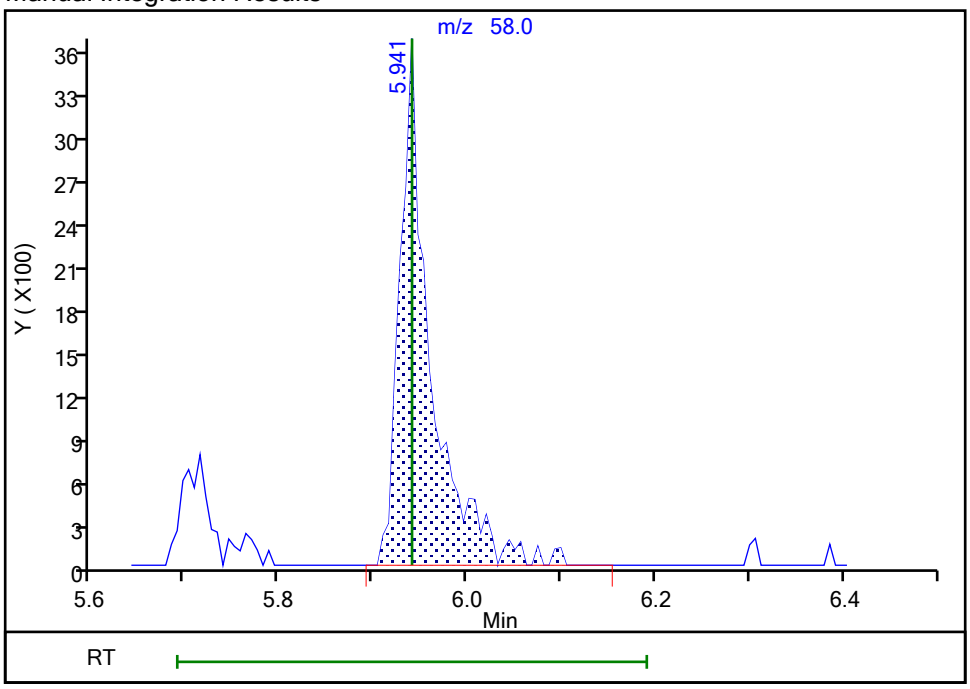
Processing Integration Results

RT: 5.94
Area: 7346
Amount: 144.2735
Amount Units: ug/l



Manual Integration Results

RT: 5.94
Area: 8293
Amount: 264.3612
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

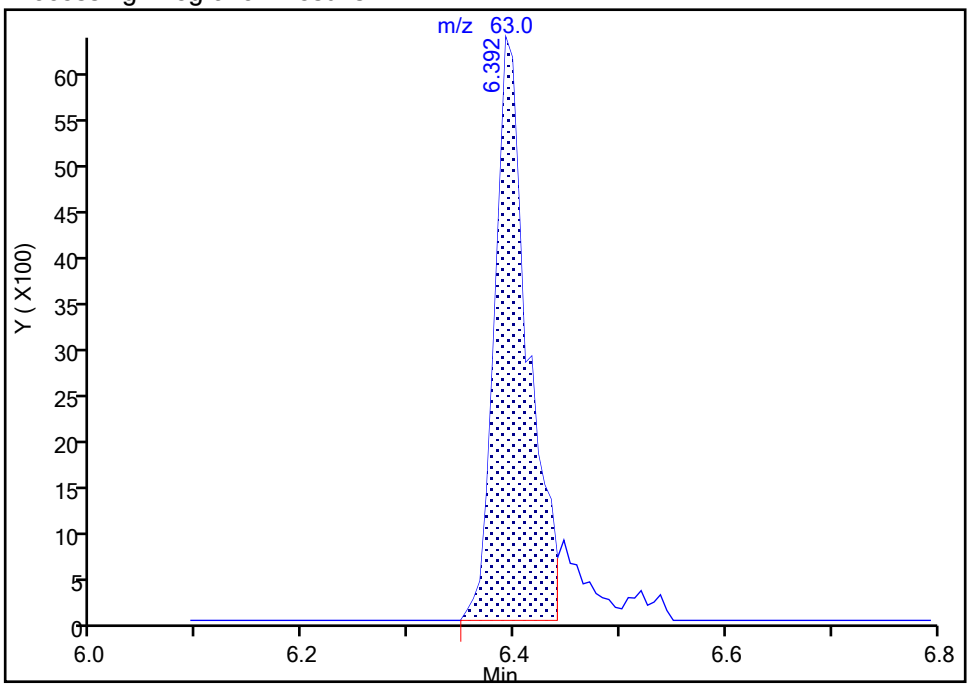
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

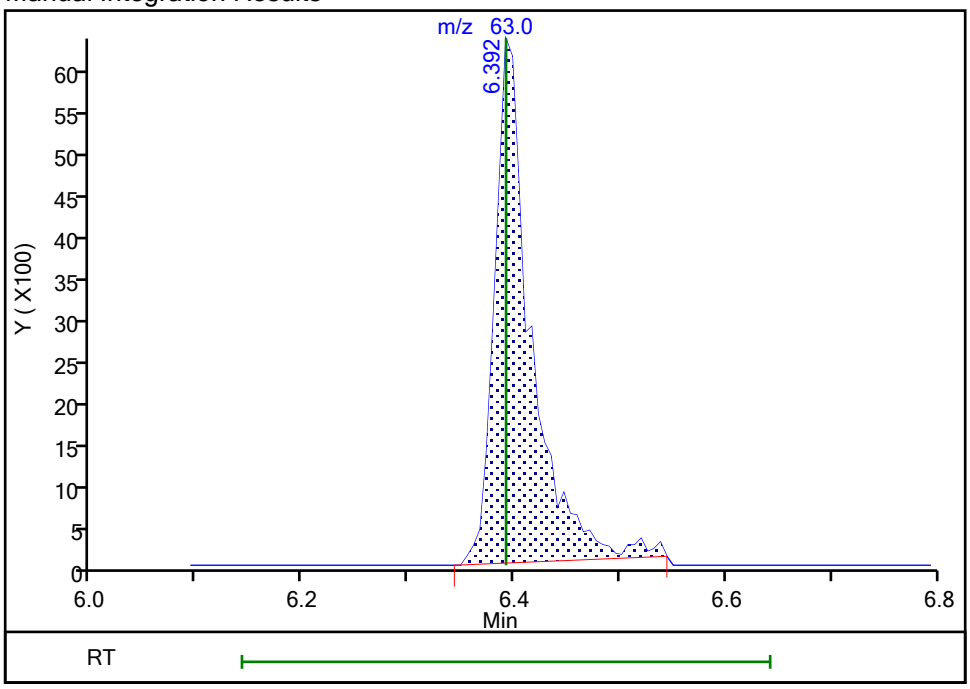
Processing Integration Results

RT: 6.39
Area: 13802
Amount: 0.342289
Amount Units: ug/l



Manual Integration Results

RT: 6.39
Area: 15148
Amount: 9.616407
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 07:59:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

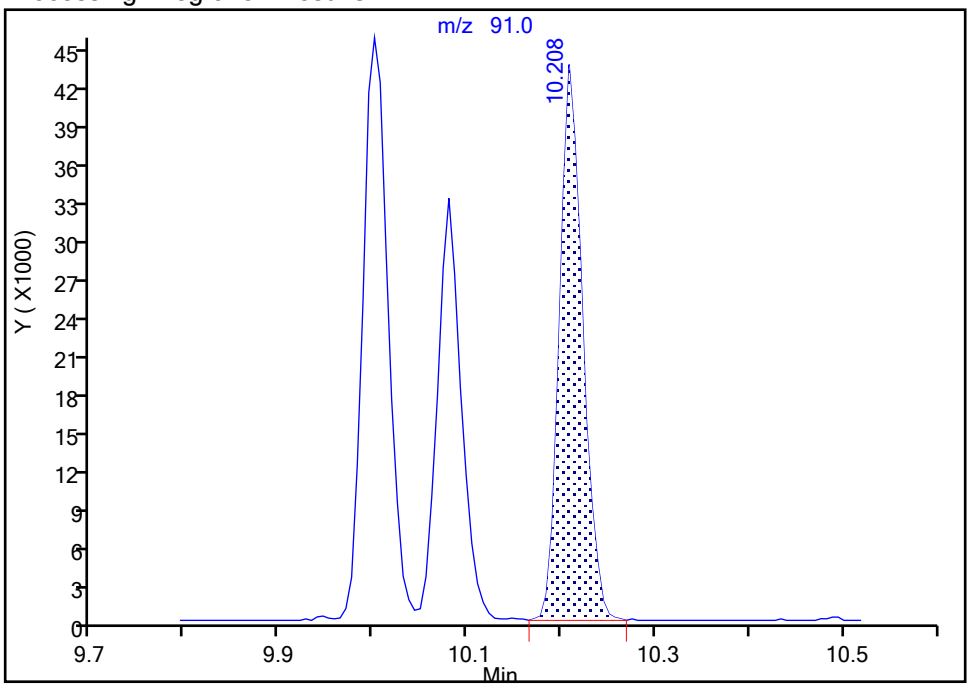
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

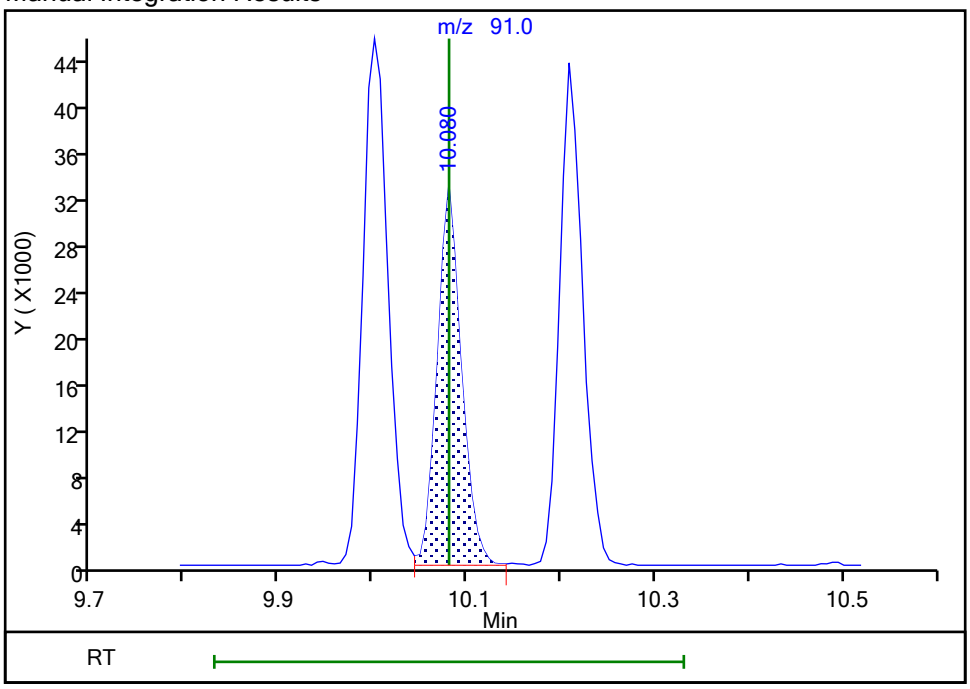
Processing Integration Results

RT: 10.21
Area: 73717
Amount: 12.477129
Amount Units: ug/l



Manual Integration Results

RT: 10.08
Area: 58286
Amount: 10.372817
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:00:16
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

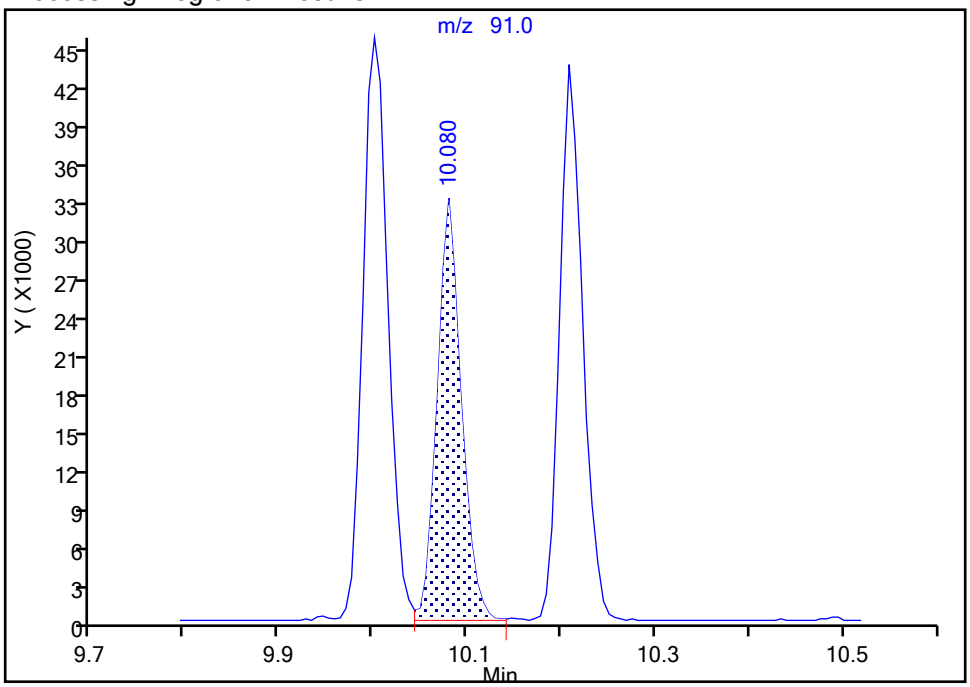
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3730.D
Injection Date: 09-Nov-2020 04:59:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

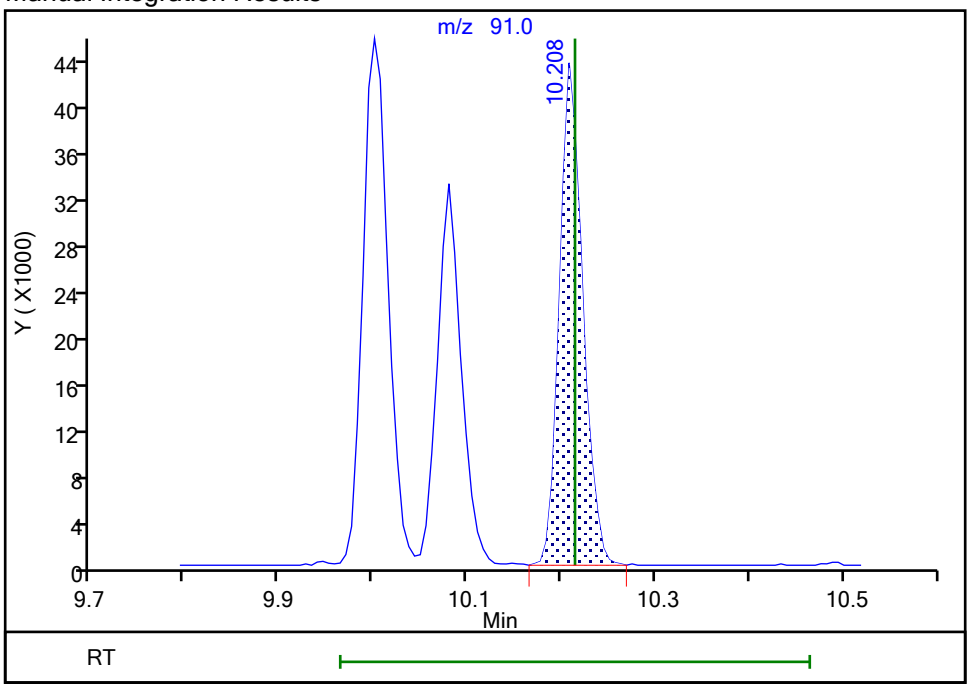
Processing Integration Results

RT: 10.08
Area: 58286
Amount: 9.474930
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 73717
Amount: 11.278098
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:00:23
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Report Date: 10-Nov-2020 04:12:45 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-Nov-2020 05:21:30 ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:12:40 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 06:02:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	47434	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	94	79185	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	15	6844	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.343	0.000	90	59067	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	70	30696	50.0	50.0	
17 Ethanol	45	2.167	2.167	0.000	99	60463	800.0	816.2	
18 Ethyl ether	59	2.234	2.234	0.000	53	37252	20.0	18.1	M
19 Acrolein	56	2.338	2.338	0.000	93	82789	95.3	98.8	M
20 1,1-Dichloroethene	96	2.417	2.417	0.000	79	34371	20.0	19.0	M
21 112TCTFE	101	2.435	2.435	0.000	82	33774	20.0	23.4	M
22 Acetone	43	2.496	2.496	0.000	97	70901	40.0	39.0	
23 Iodomethane	142	2.539	2.539	0.000	99	30509	20.0	21.2	
24 Carbon disulfide	76	2.594	2.594	0.000	97	99445	20.0	20.2	
105 Isopropyl alcohol	45	2.673	2.673	0.000	88	67932	200.0	215.3	M
118 Acetonitrile	40	2.746	2.746	0.000	96	103688	200.0	194.6	
25 3-Chloro-1-propene	76	2.765	2.765	0.000	87	12586	20.0	16.2	
26 Methyl acetate	43	2.813	2.813	0.000	95	150822	40.0	38.5	M
27 Methylene Chloride	84	2.880	2.880	0.000	85	37710	20.0	19.0	
35 2-Methyl-2-propanol	59	3.057	3.057	0.000	96	60817	200.0	220.2	
30 Acrylonitrile	53	3.124	3.124	0.000	99	464904	200.0	205.7	
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	38	46152	20.0	22.8	M
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	90	97063	20.0	22.7	
31 Hexane	57	3.411	3.411	0.000	95	39357	20.0	17.8	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	84	93358	20.0	20.4	M
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	46	96741	20.0	20.1	M
33 Vinyl acetate	86	3.618	3.618	0.000	96	12675	40.0	31.8	
36 Isopropyl ether	87	3.642	3.642	0.000	86	17832	20.0	19.9	
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	94	166323	20.0	20.9	M
38 2,2-Dichloropropane	77	4.081	4.081	0.000	80	53147	20.0	20.7	
39 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	74	50899	20.0	20.6	M
40 2-Butanone (MEK)	43	4.130	4.130	0.000	95	77320	40.0	39.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.179	0.000	99	172685	200.0	193.4	
104 Ethyl acetate	43	4.203	4.203	0.000	98	158927	40.0	33.2	
42 Chlorobromomethane	128	4.313	4.313	0.000	73	20620	20.0	19.4	
43 Methacrylonitrile	67	4.325	4.325	0.000	95	221614	200.0	196.8	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	10522	40.0	38.5	
45 Chloroform	83	4.405	4.405	0.000	94	66983	20.0	18.6	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	96	64088	20.0	20.4	
47 Cyclohexane	56	4.606	4.606	0.000	90	127987	20.0	21.5	M
48 Carbon tetrachloride	117	4.715	4.709	0.006	95	45254	20.0	22.2	
49 1,1-Dichloropropene	75	4.722	4.722	0.000	86	51880	20.0	18.8	
108 Isobutyl alcohol	43	4.911	4.911	0.000	94	85752	500.0	466.5	
50 Benzene	78	4.917	4.917	0.000	90	162828	20.0	19.8	M
51 1,2-Dichloroethane	62	4.941	4.941	0.000	93	67754	20.0	21.0	
116 n-Butanol	56	5.008	5.008	0.000	31	92787	500.0	589.1	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	87	95725	20.0	21.5	
53 n-Heptane	43	5.209	5.209	0.000	94	42685	20.0	13.9	
54 Trichloroethene	132	5.557	5.557	0.000	90	49134	20.0	20.0	M
117 Ethyl acrylate	55	5.709	5.709	0.000	97	54946	20.0	17.0	a
114 Methylcyclohexane	83	5.740	5.740	0.000	92	58113	20.0	21.2	
55 1,2-Dichloropropane	63	5.782	5.782	0.000	95	47880	20.0	19.5	
56 Dibromomethane	93	5.892	5.892	0.000	97	20230	20.0	19.8	
57 Methyl methacrylate	69	5.935	5.935	0.000	88	52762	40.0	36.6	
115 1,4-Dioxane	58	5.941	5.941	0.000	31	15423	400.0	414.7	M
58 Dichlorobromomethane	83	6.063	6.063	0.000	94	30053	20.0	18.9	
106 2-Nitropropane	43	6.307	6.307	0.000	97	36321	40.0	35.2	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	82	29496	20.0	19.2	
60 cis-1,3-Dichloropropene	75	6.526	6.526	0.000	83	31598	20.0	22.2	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	97	168405	40.0	40.2	
62 Toluene	92	6.867	6.867	0.000	97	100983	20.0	19.4	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	90	24907	20.0	22.5	
64 Ethyl methacrylate	69	7.245	7.245	0.000	87	42153	20.0	18.7	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	94	26616	20.0	20.3	
66 Tetrachloroethene	166	7.441	7.441	0.000	95	40775	20.0	20.7	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	87	44179	20.0	19.0	
68 2-Hexanone	43	7.599	7.599	0.000	97	111763	40.0	39.5	
69 Chlorodibromomethane	129	7.709	7.709	0.000	90	17632	20.0	19.1	
109 n-Butyl acetate	43	7.758	7.758	0.000	96	116084	20.0	19.4	
70 Ethylene Dibromide	107	7.825	7.825	0.000	98	18122	20.0	14.8	
71 Chlorobenzene	112	8.373	8.373	0.000	90	108984	20.0	19.7	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	93	39179	20.0	21.2	
73 Ethylbenzene	91	8.513	8.513	0.000	98	161654	20.0	21.1	
74 m-Xylene & p-Xylene	106	8.648	8.648	0.000	97	63094	20.0	20.8	
75 o-Xylene	106	9.093	9.087	0.006	97	58328	20.0	20.4	
76 Styrene	104	9.105	9.105	0.000	89	102228	20.0	20.7	
77 Bromoform	173	9.294	9.294	0.000	95	8782	20.0	19.1	
78 Isopropylbenzene	105	9.519	9.519	0.000	96	140882	20.0	20.8	
79 Bromobenzene	156	9.843	9.843	0.000	91	41629	20.0	20.5	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	96	37780	20.0	20.2	
81 1,2,3-Trichloropropane	75	9.910	9.910	0.000	94	36670	20.0	24.3	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	71	8155	20.0	21.9	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	161390	20.0	21.4	
84 2-Chlorotoluene	91	10.080	10.080	0.000	96	107038	20.0	19.8	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.214	10.214	0.000	98	137655	20.0	21.9	a
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	93	138114	20.0	21.7	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	189859	20.0	22.5	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	122260	20.0	20.9	
89 sec-Butylbenzene	105	10.855	10.855	0.000	95	140988	20.0	20.7	
90 1,3-Dichlorobenzene	146	10.952	10.952	0.000	98	77840	20.0	21.3	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	96	110813	20.0	22.0	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	93	85008	20.0	21.4	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	124157	20.0	21.4	
113 Benzyl chloride	126	11.239	11.239	0.000	99	5165	20.0	16.9	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	96	71272	20.0	20.0	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	98803	20.0	22.1	
95 1,2-Dibromo-3-Chloropropane	75	12.433	12.440	-0.007	79	4814	20.0	21.1	
112 1,3,5-Trichlorobenzene	180	12.696	12.696	0.000	97	50847	20.0	22.8	
96 1,2,4-Trichlorobenzene	180	13.445	13.445	0.000	94	41628	20.0	22.6	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	18554	20.0	22.6	
98 Naphthalene	128	13.726	13.726	0.000	97	137369	20.0	23.1	
99 1,2,3-Trichlorobenzene	180	14.031	14.031	0.000	94	37304	20.0	22.5	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	43.4	
S 100 Xylenes, Total	1				0		40.0	41.2	
S 102 1,3-Dichloropropene, Total	1				0		40.0	44.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	20.00	Units: uL

Report Date: 10-Nov-2020 04:12:45 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D

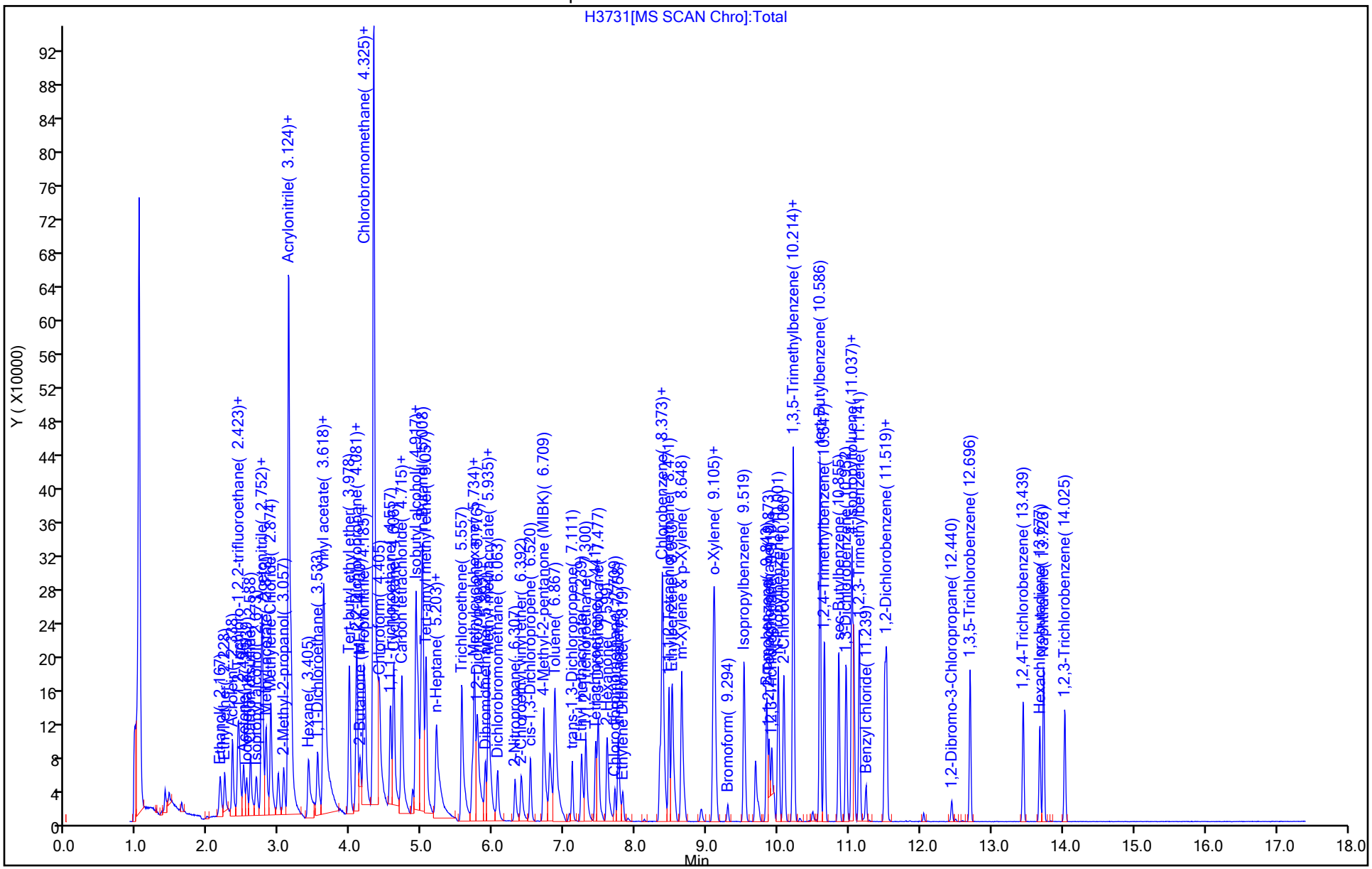
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes Operator ID:

Lims ID: std6 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

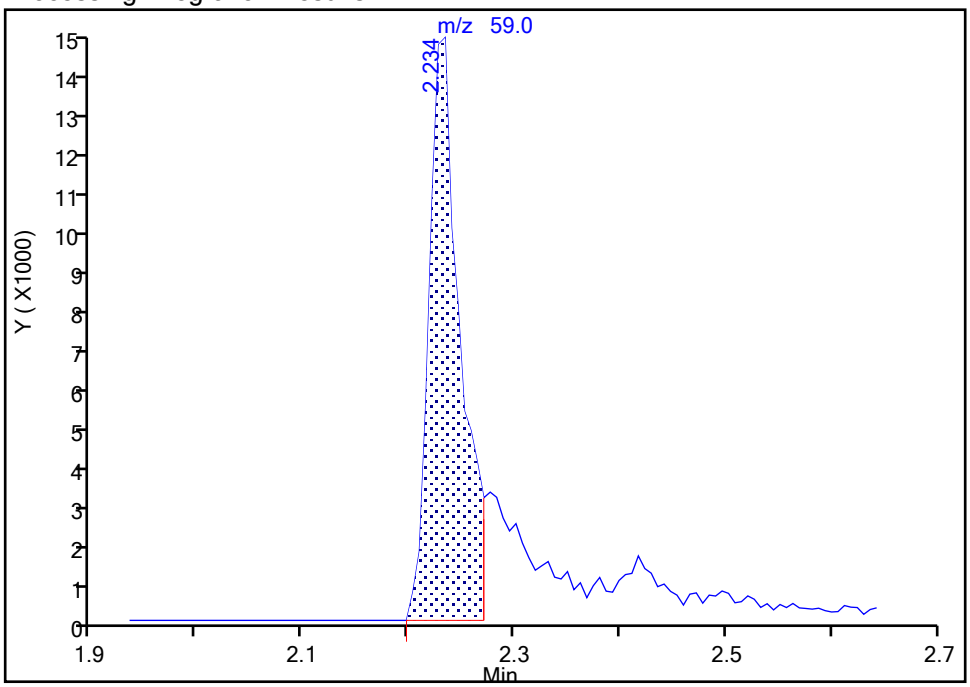
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

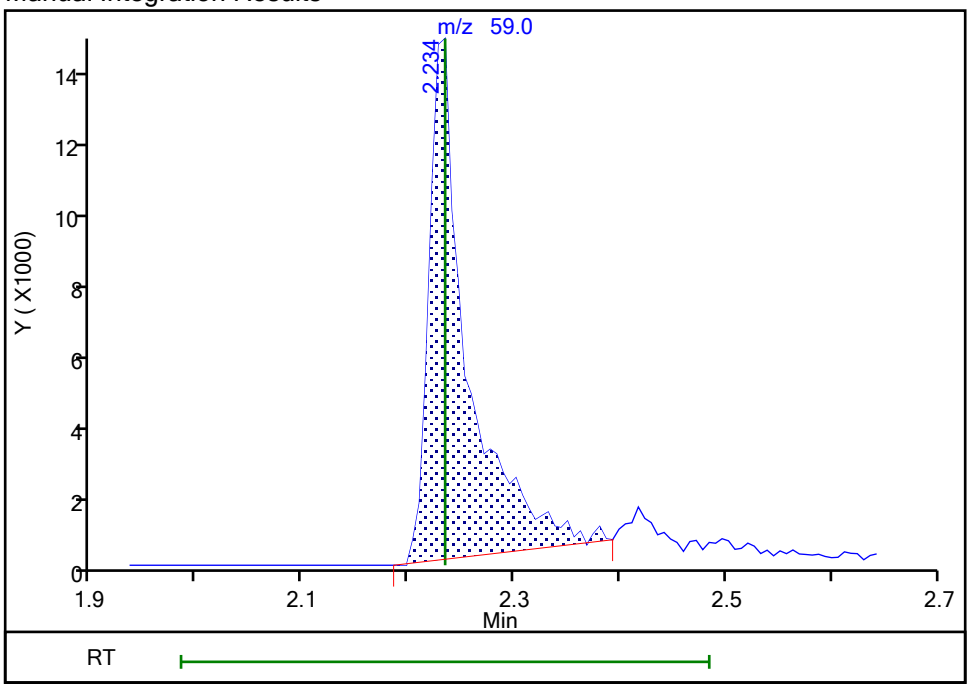
Processing Integration Results

RT: 2.23
Area: 30631
Amount: 21.397391
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 37252
Amount: 18.130334
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

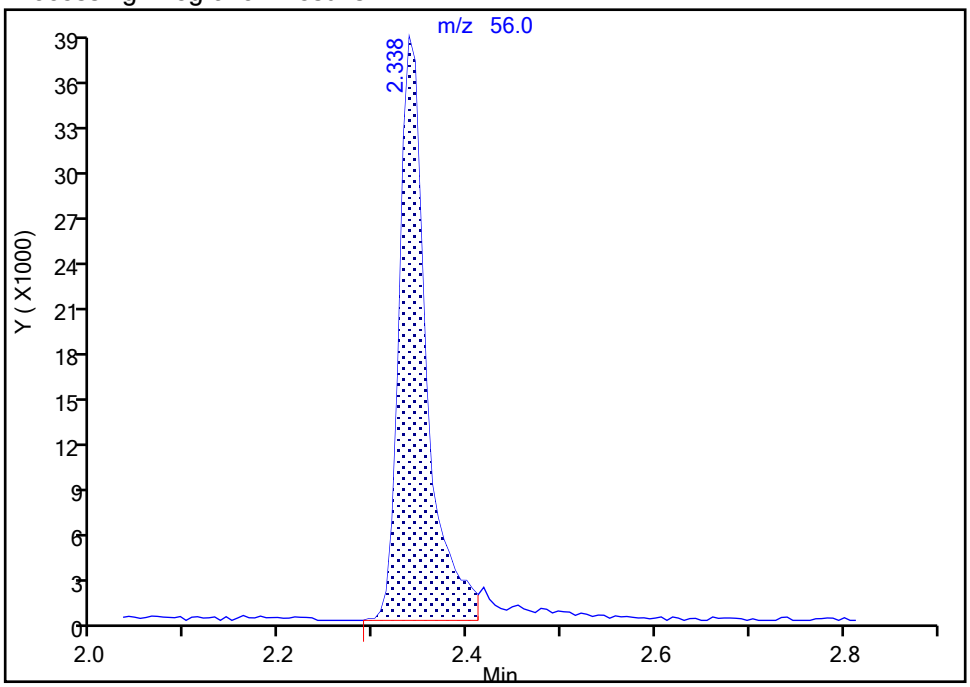
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

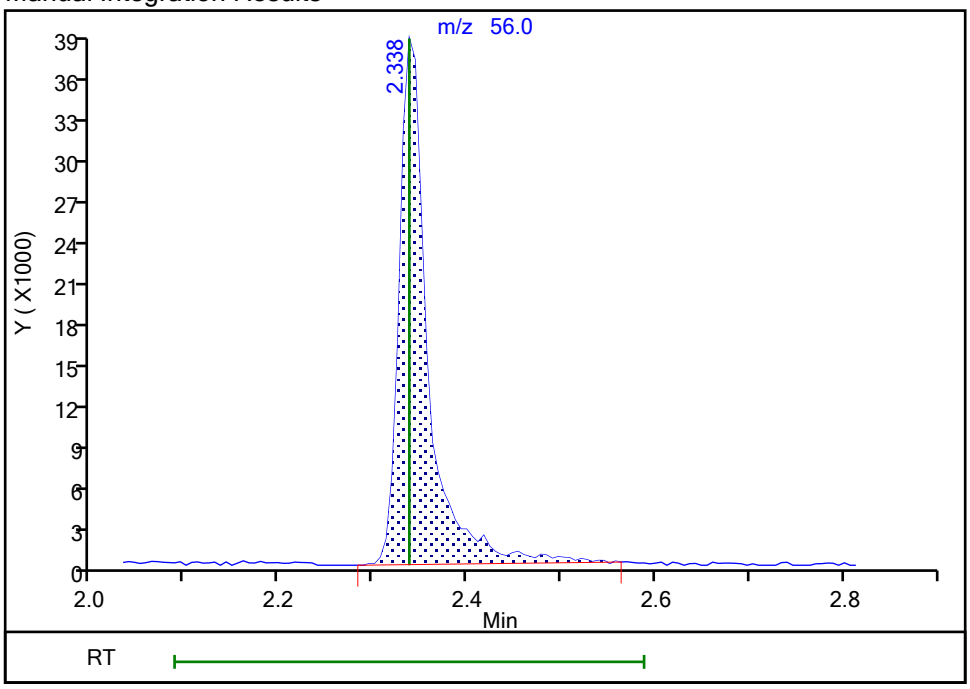
Processing Integration Results

RT: 2.34
Area: 78738
Amount: 136.5327
Amount Units: ug/l



Manual Integration Results

RT: 2.34
Area: 82789
Amount: 98.826793
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:37
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

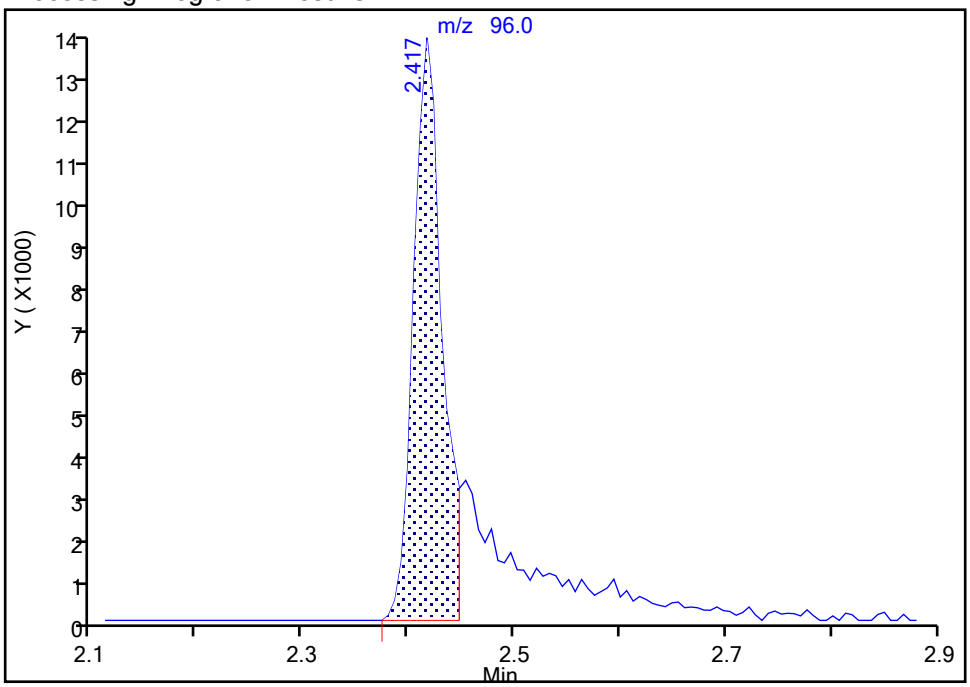
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

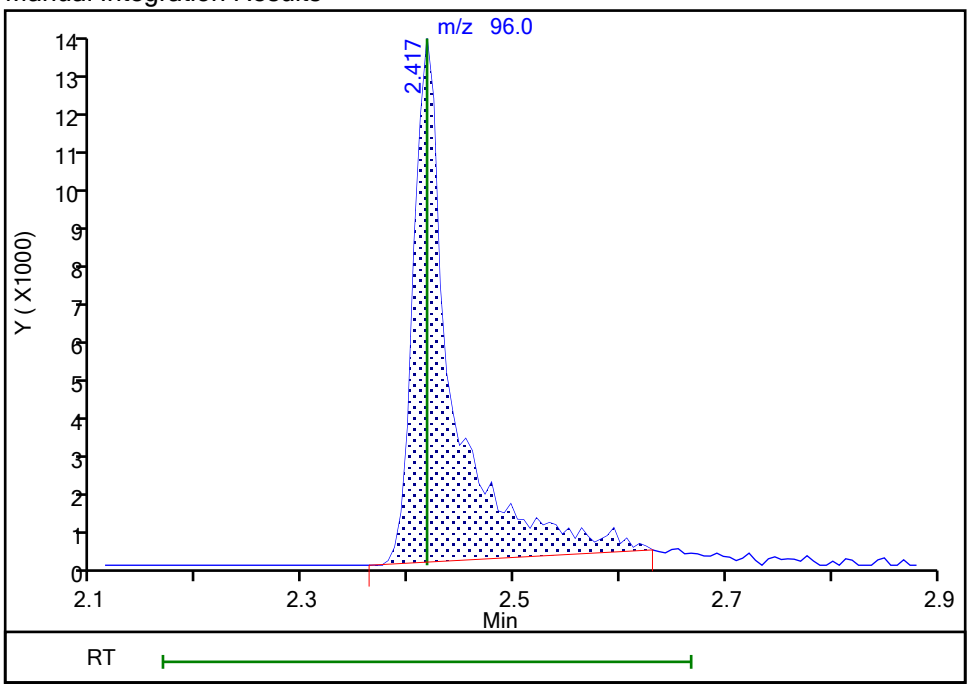
Processing Integration Results

RT: 2.42
Area: 25190
Amount: 25.654170
Amount Units: ug/l



Manual Integration Results

RT: 2.42
Area: 34371
Amount: 19.023315
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

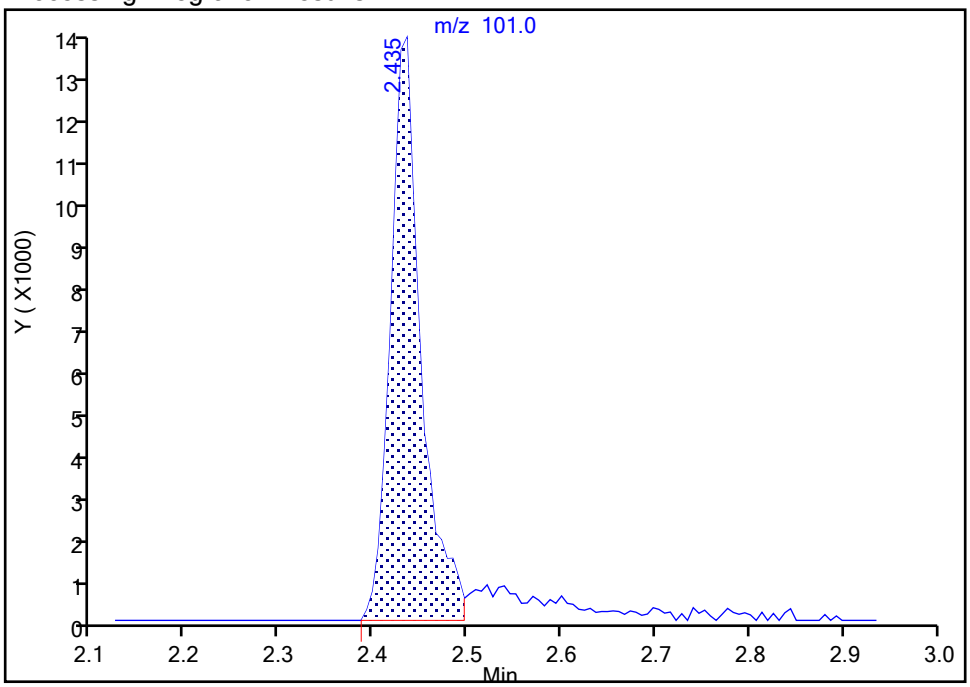
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

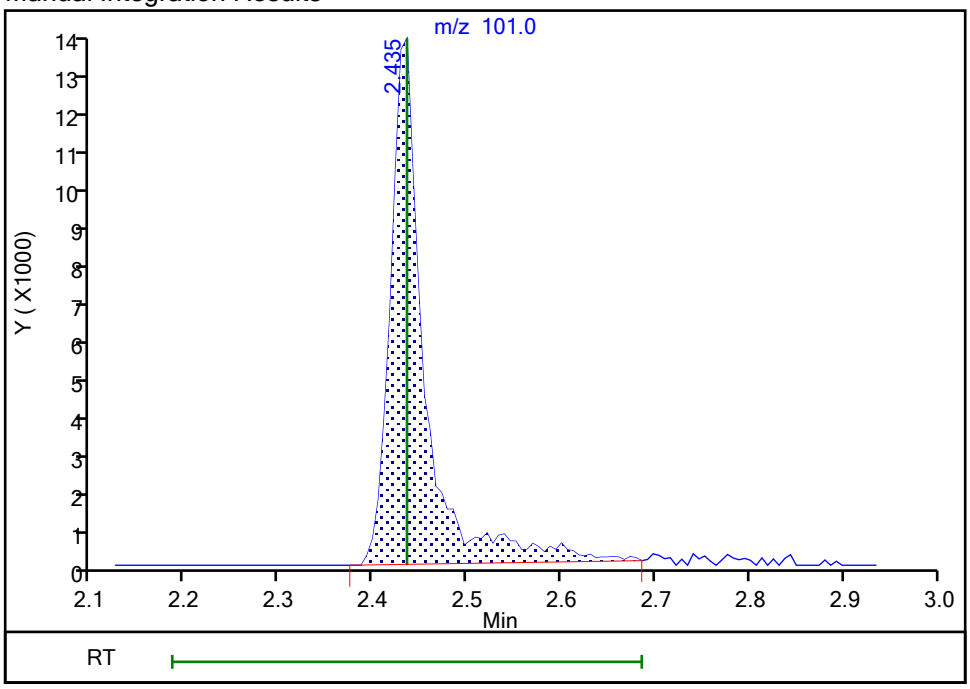
Processing Integration Results

RT: 2.44
Area: 30157
Amount: 27.347254
Amount Units: ug/l



Manual Integration Results

RT: 2.44
Area: 33774
Amount: 23.392151
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

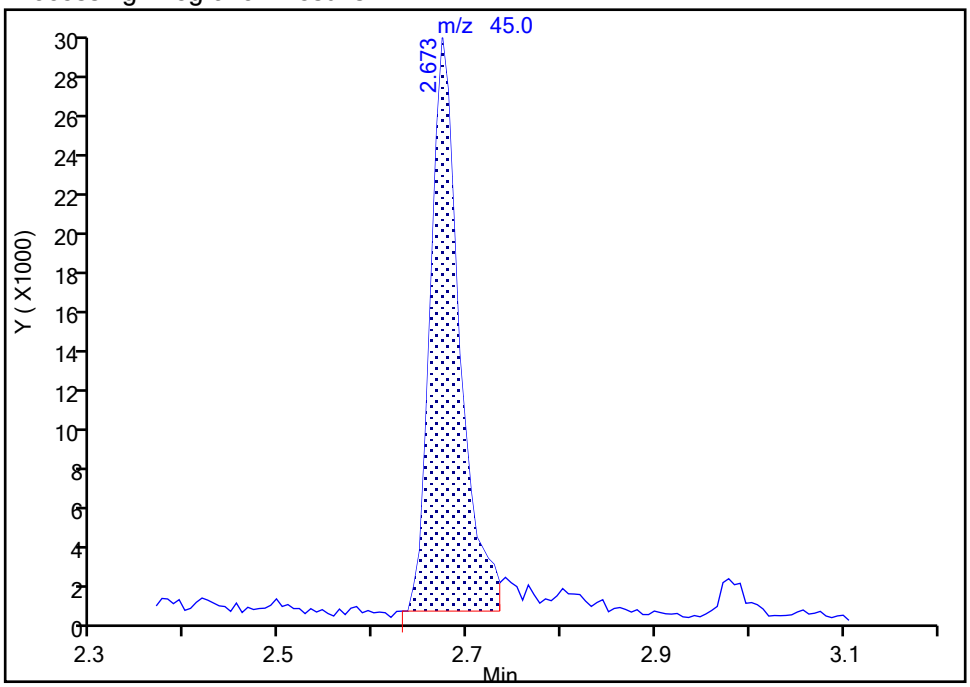
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

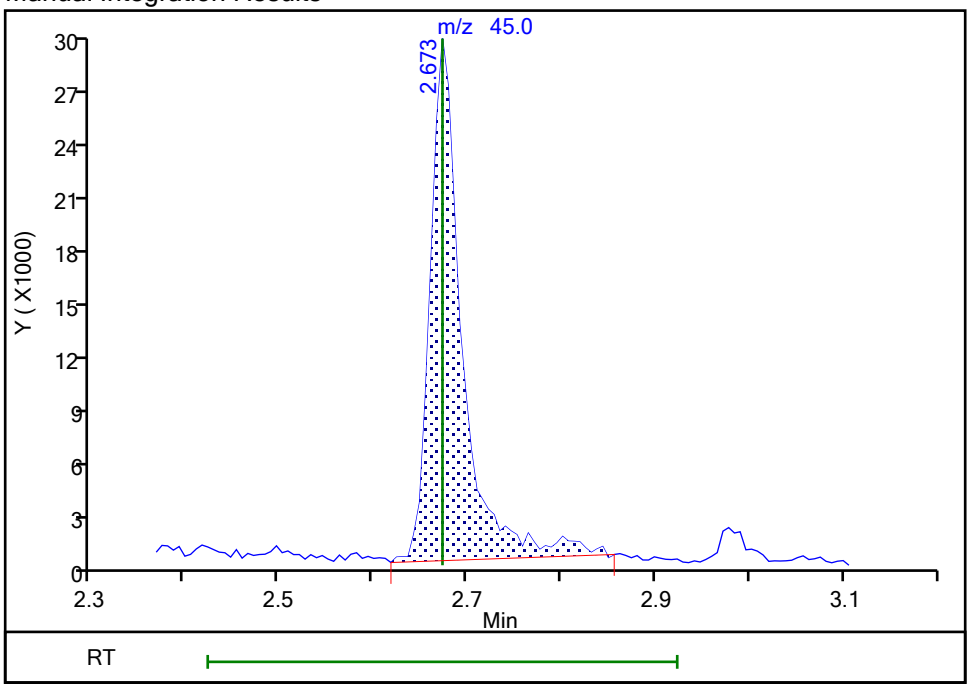
Processing Integration Results

RT: 2.67
Area: 61373
Amount: 218.3618
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 67932
Amount: 215.2816
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

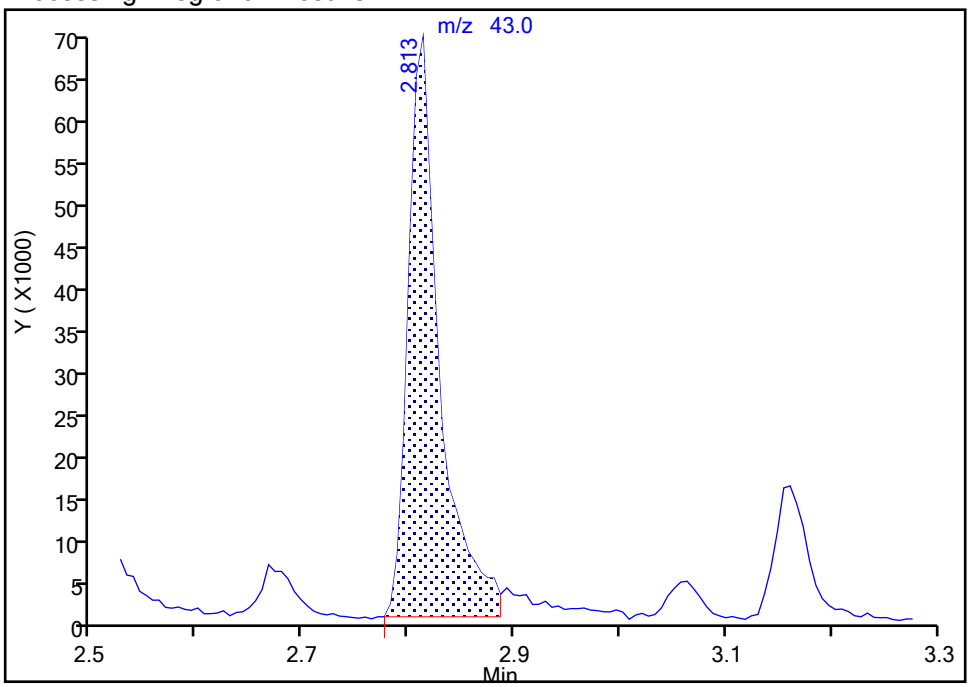
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

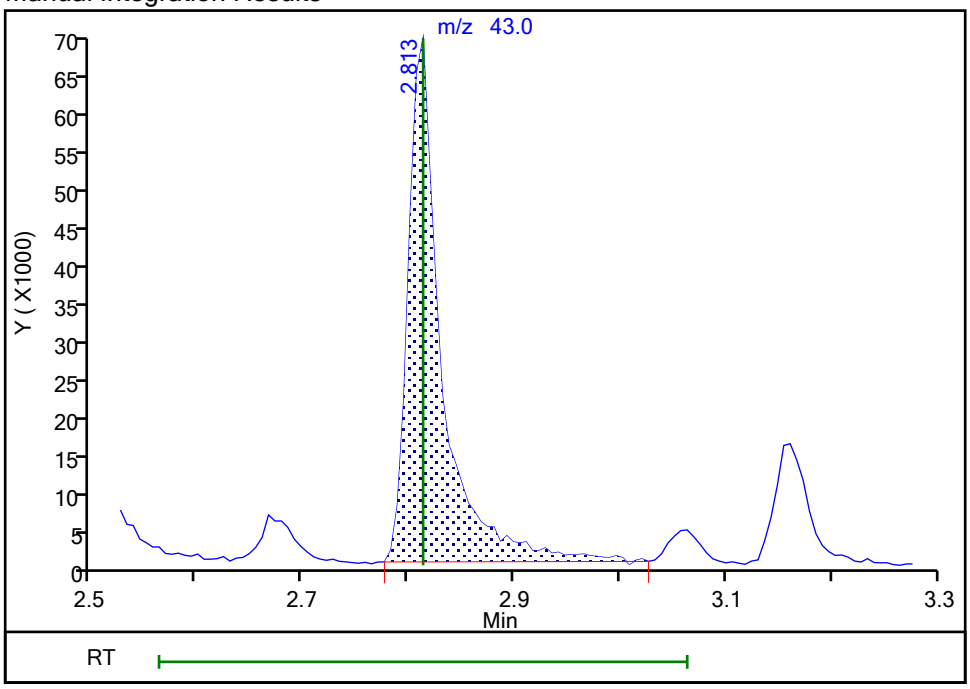
Processing Integration Results

RT: 2.81
Area: 141684
Amount: 52.154575
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 150822
Amount: 38.528162
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

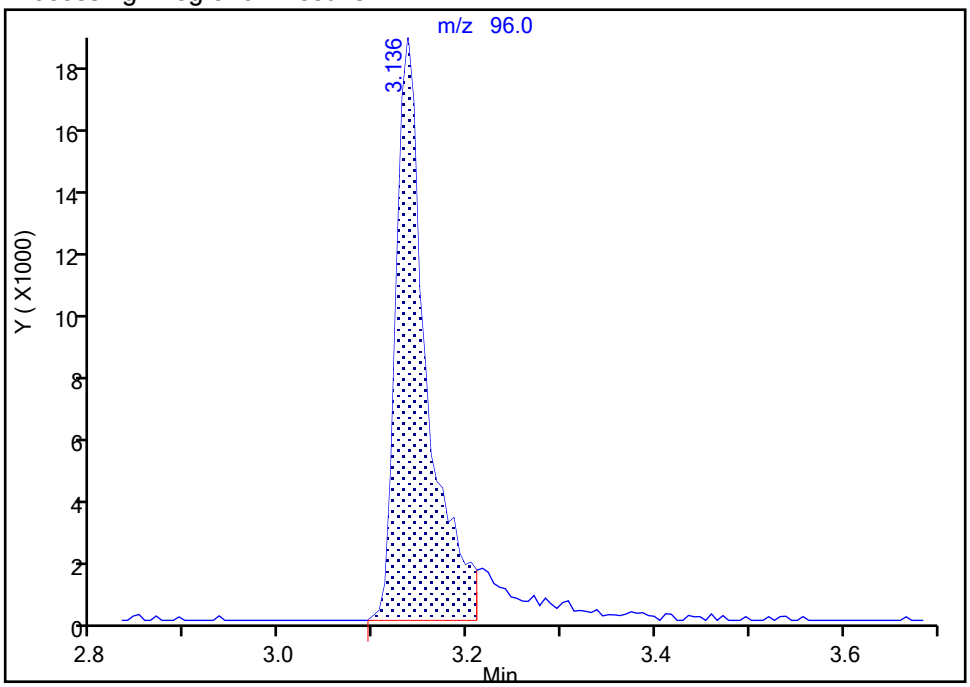
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

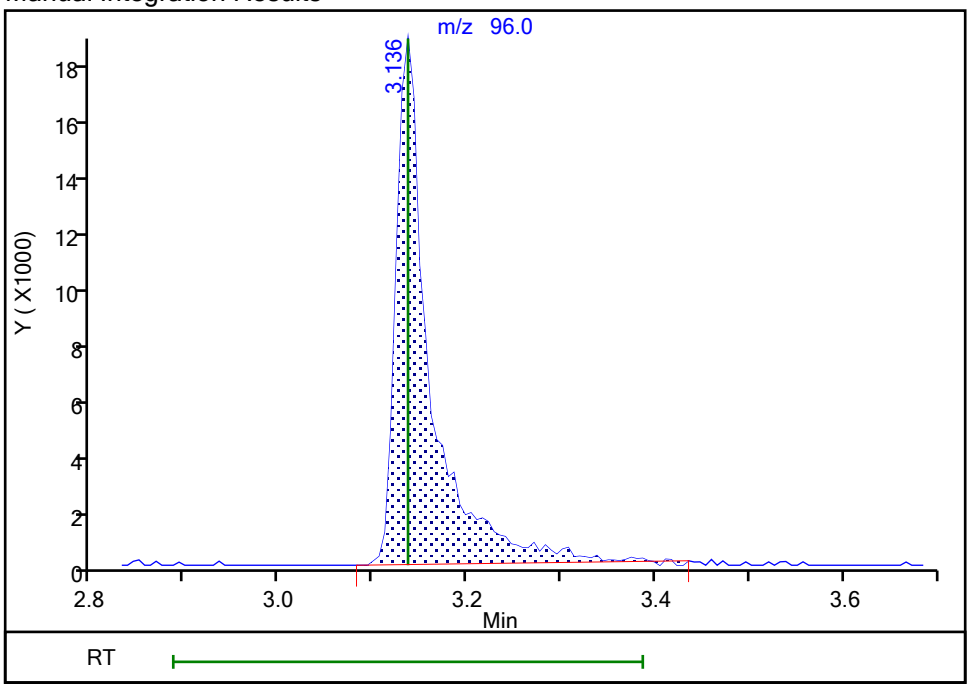
Processing Integration Results

RT: 3.14
Area: 41672
Amount: 28.151109
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 46152
Amount: 22.808149
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

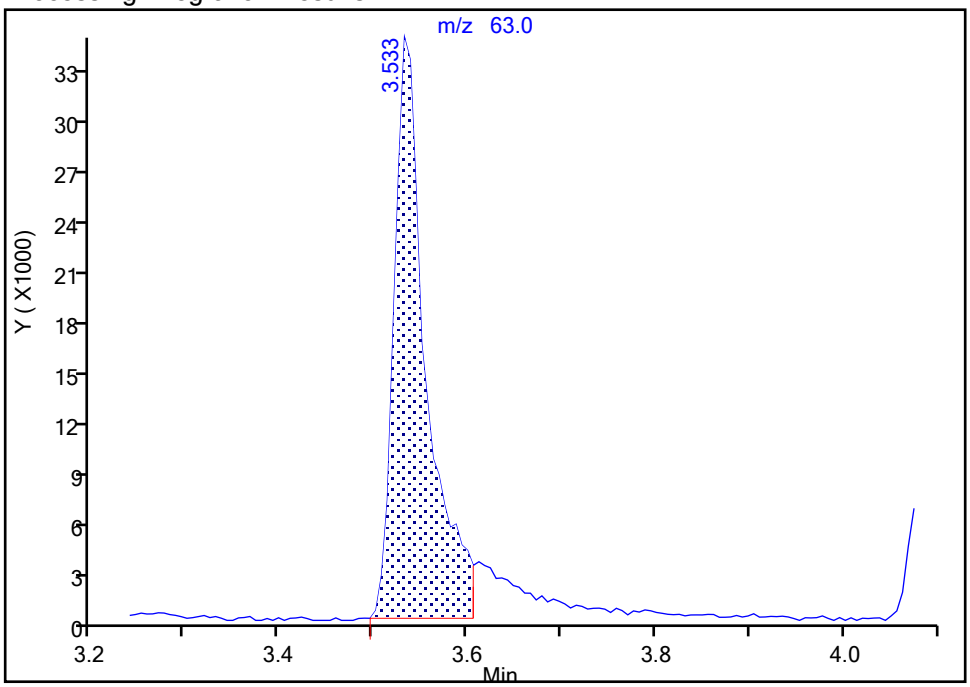
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

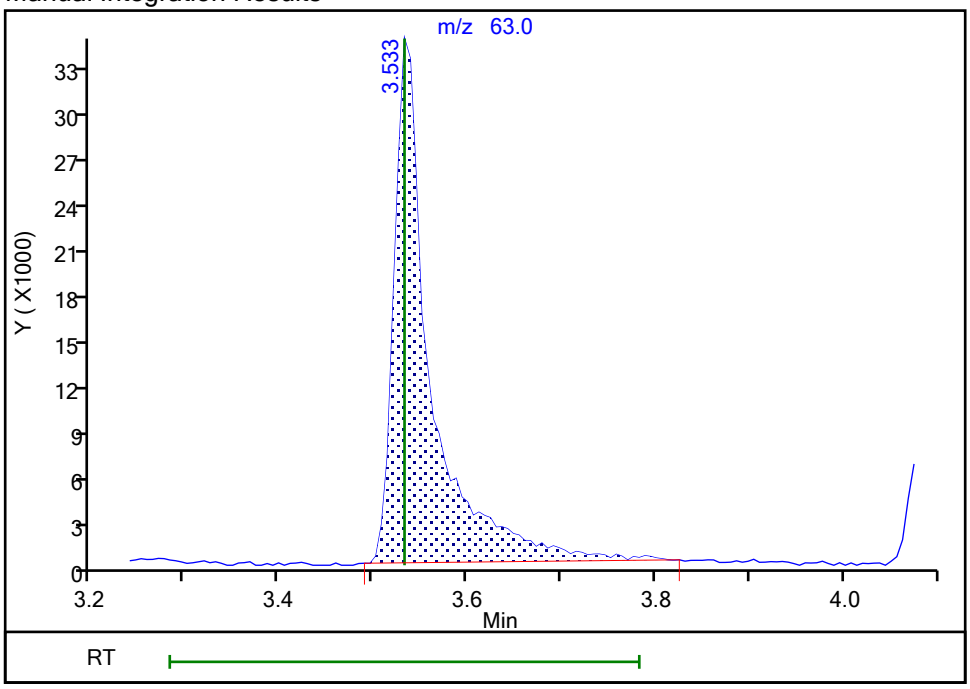
Processing Integration Results

RT: 3.53
Area: 81670
Amount: 25.652945
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 93358
Amount: 20.421118
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

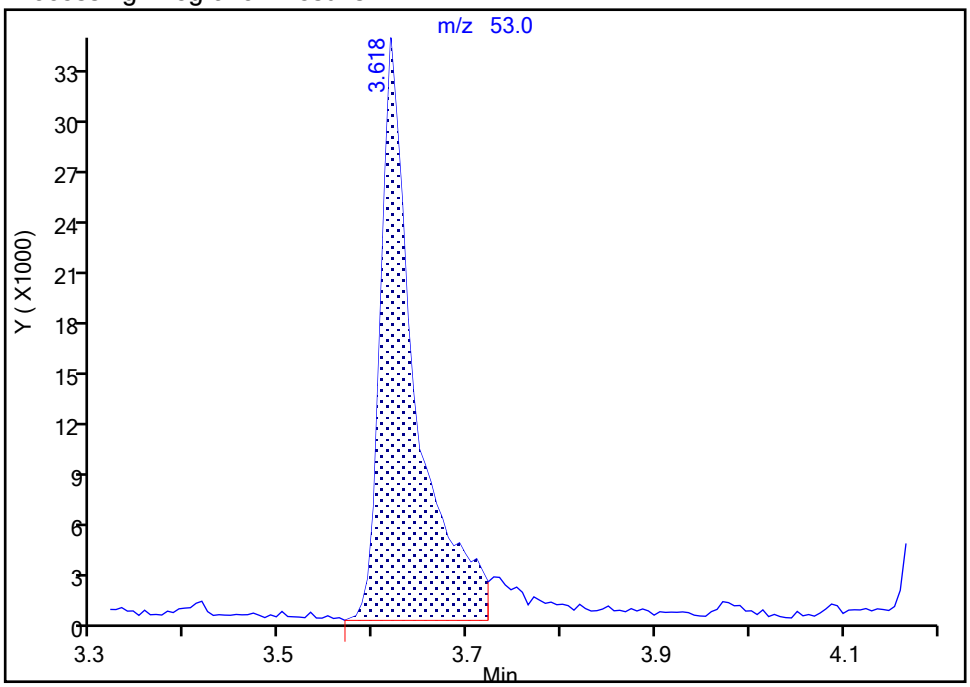
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

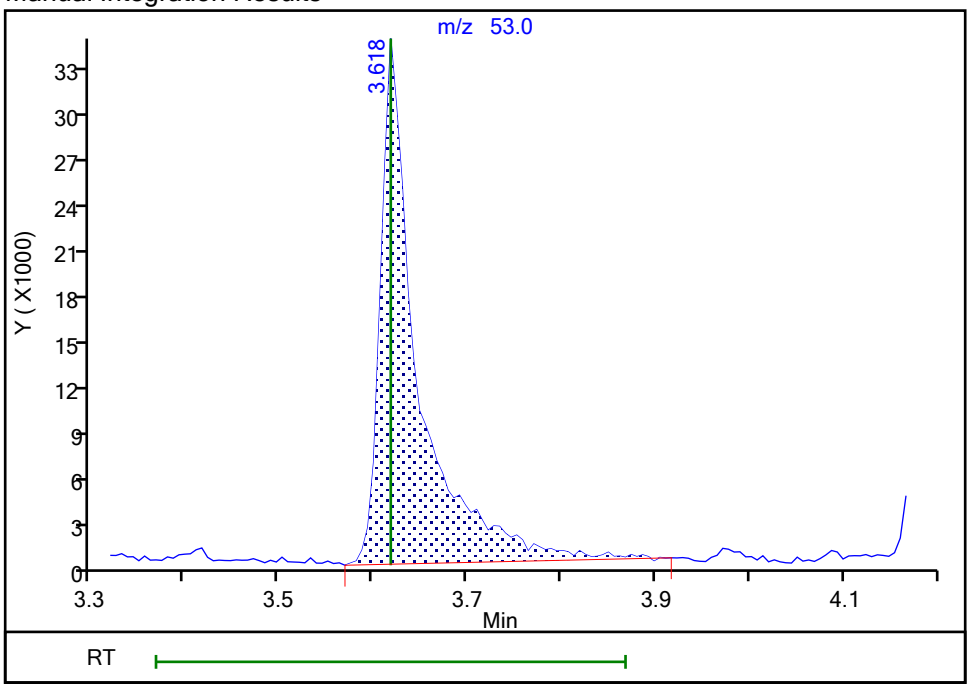
Processing Integration Results

RT: 3.62
Area: 90211
Amount: 26.976550
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 96741
Amount: 20.088806
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

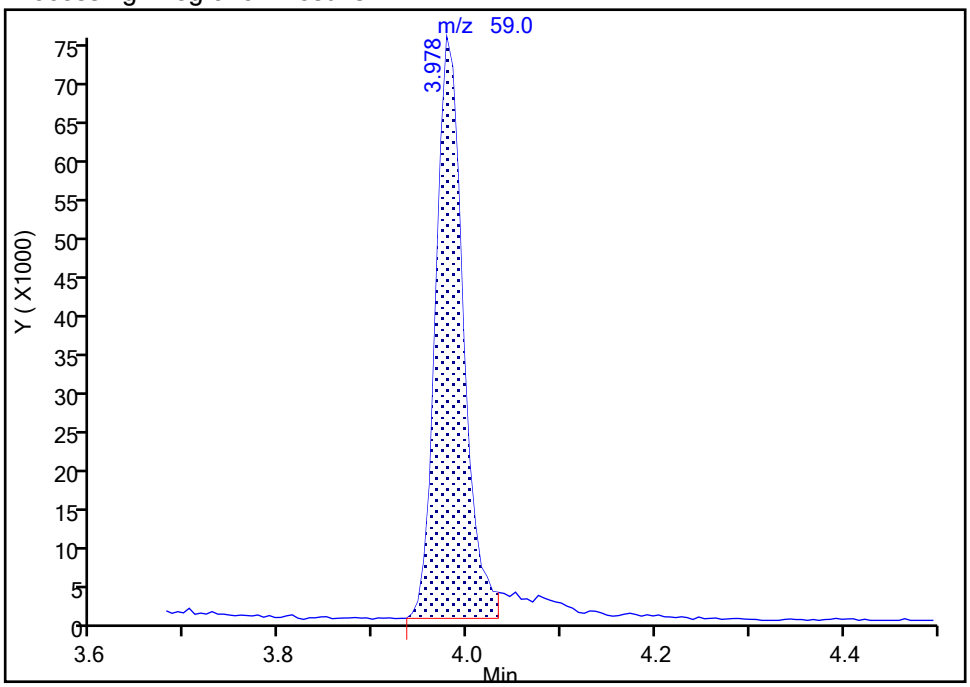
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

37 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

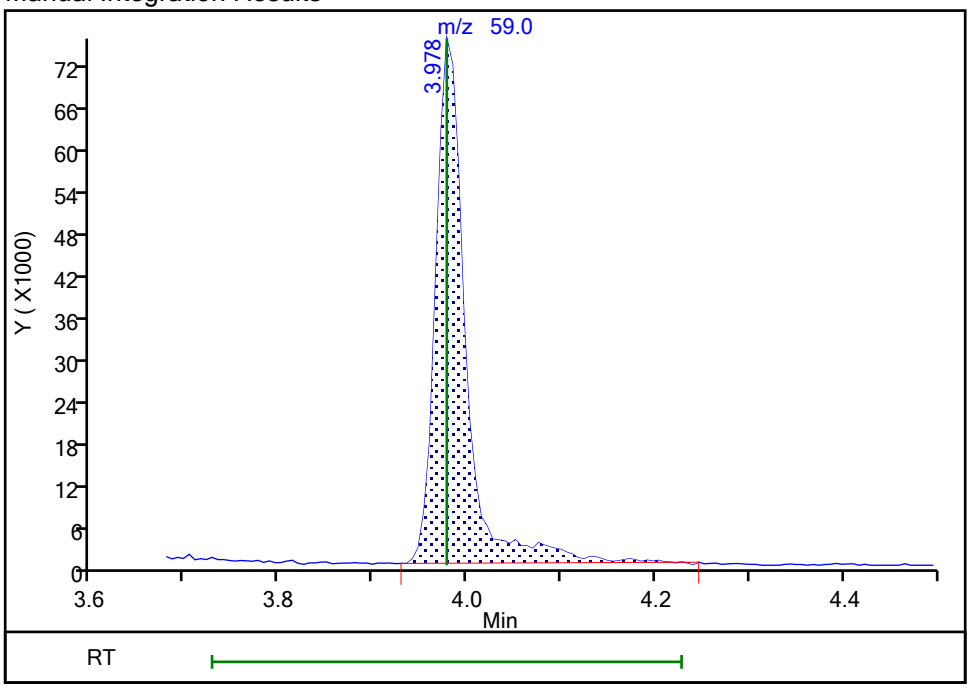
Processing Integration Results

RT: 3.98
Area: 153195
Amount: 24.169052
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 166323
Amount: 20.936730
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

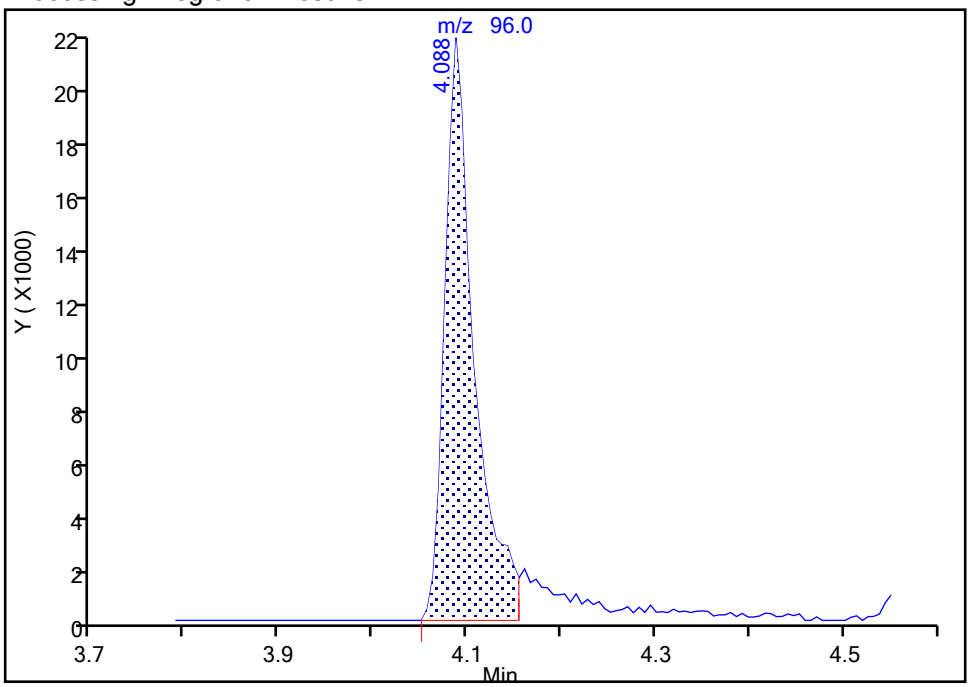
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

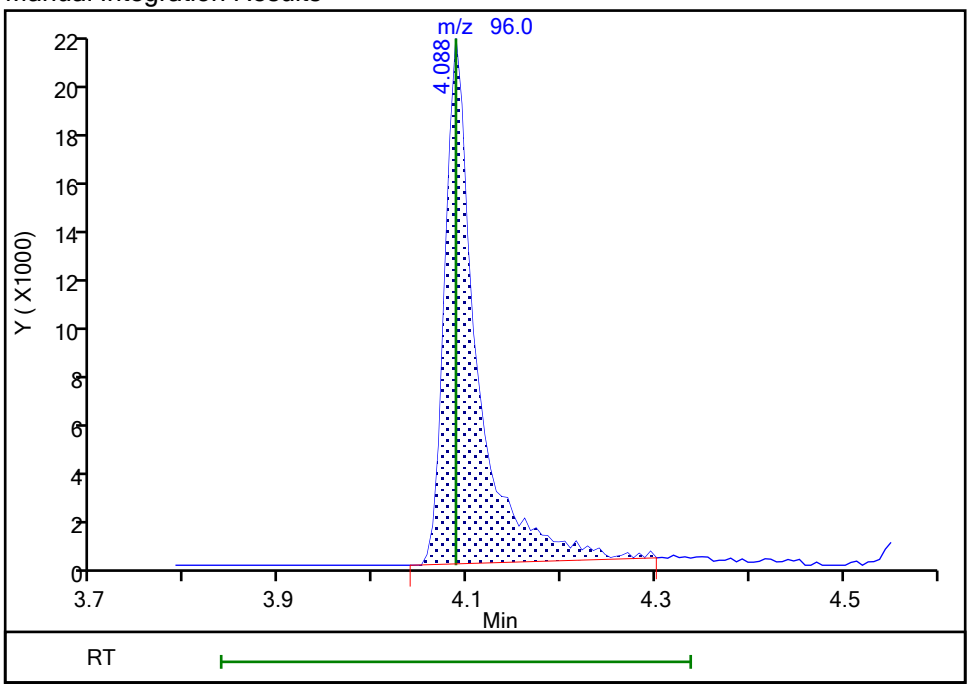
Processing Integration Results

RT: 4.09
Area: 46642
Amount: 27.701001
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 50899
Amount: 20.625827
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

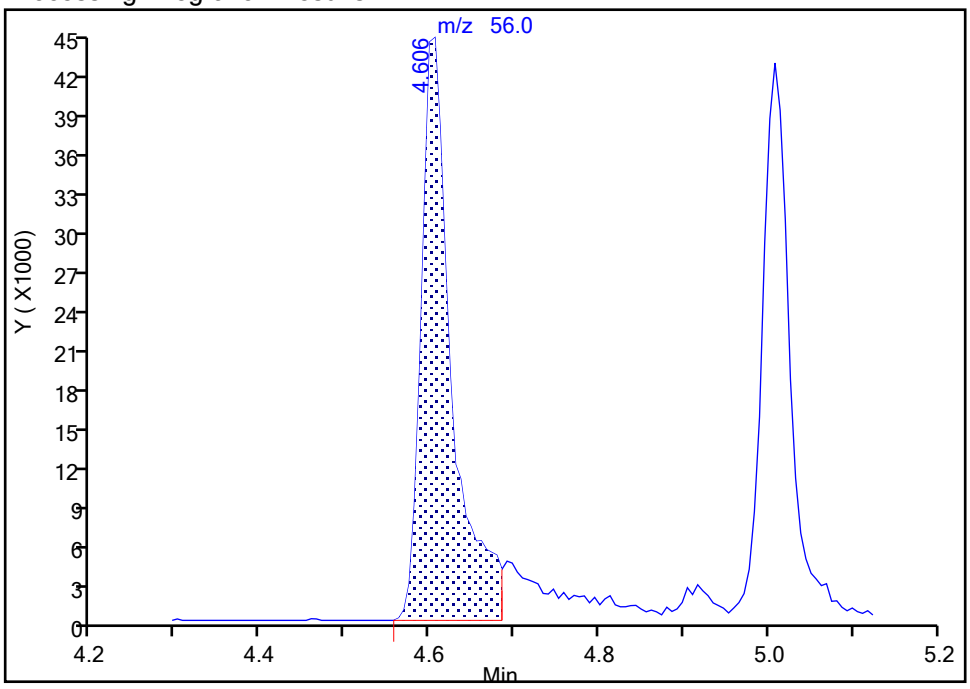
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

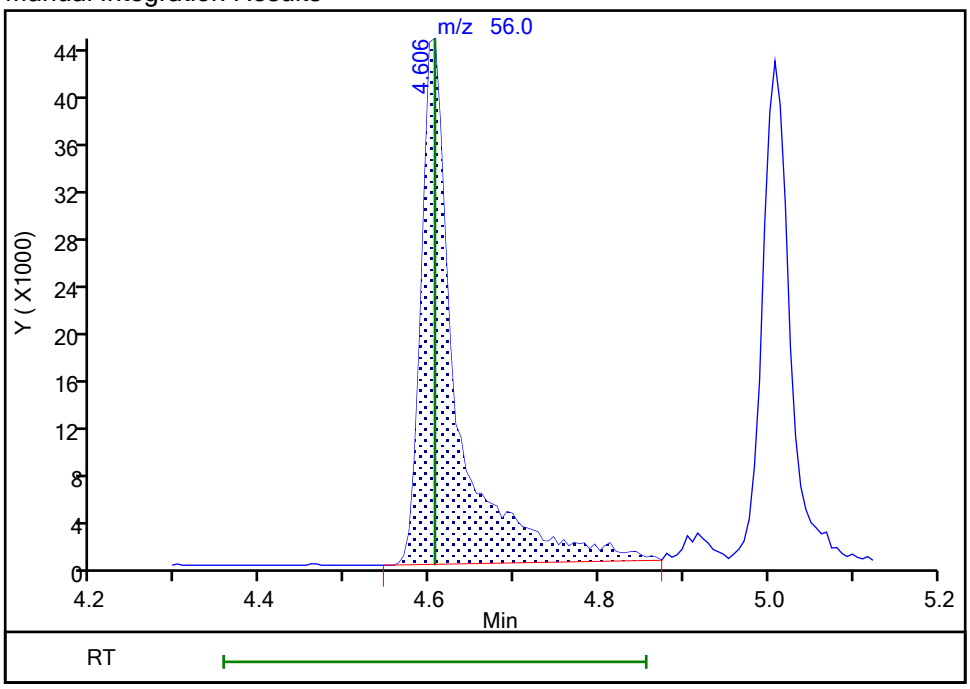
Processing Integration Results

RT: 4.61
Area: 110855
Amount: 23.999036
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 127987
Amount: 21.479712
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

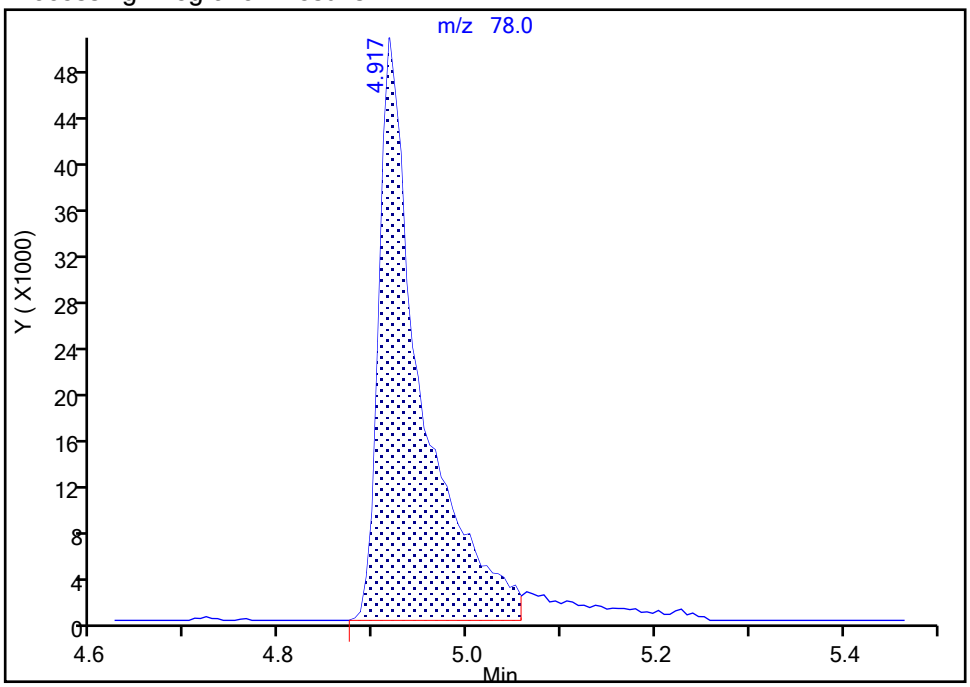
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

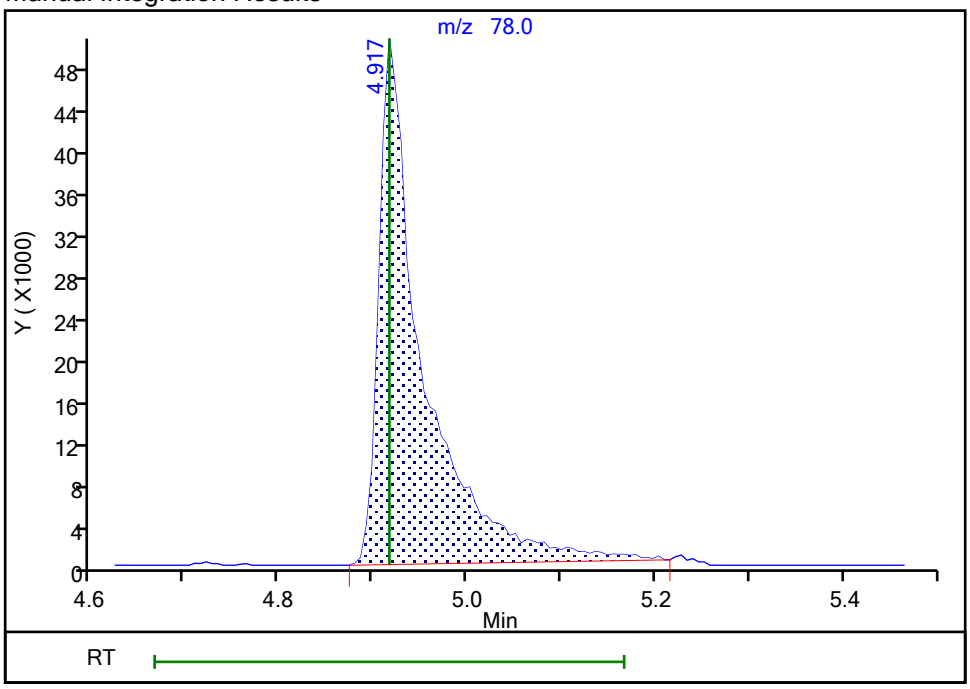
Processing Integration Results

RT: 4.92
Area: 156135
Amount: 24.311663
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 162828
Amount: 19.835390
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

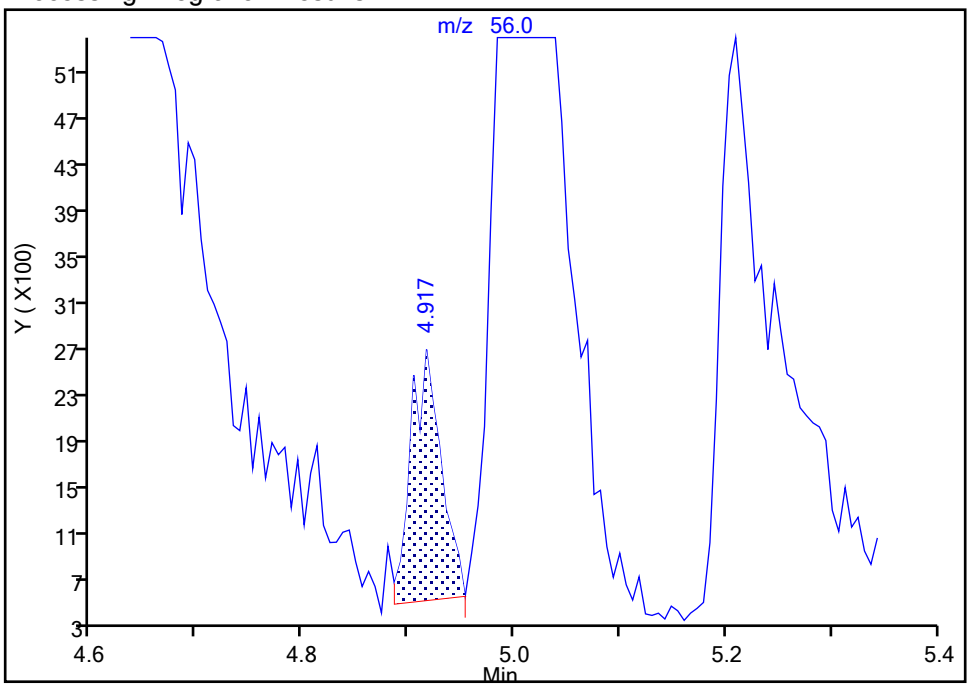
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

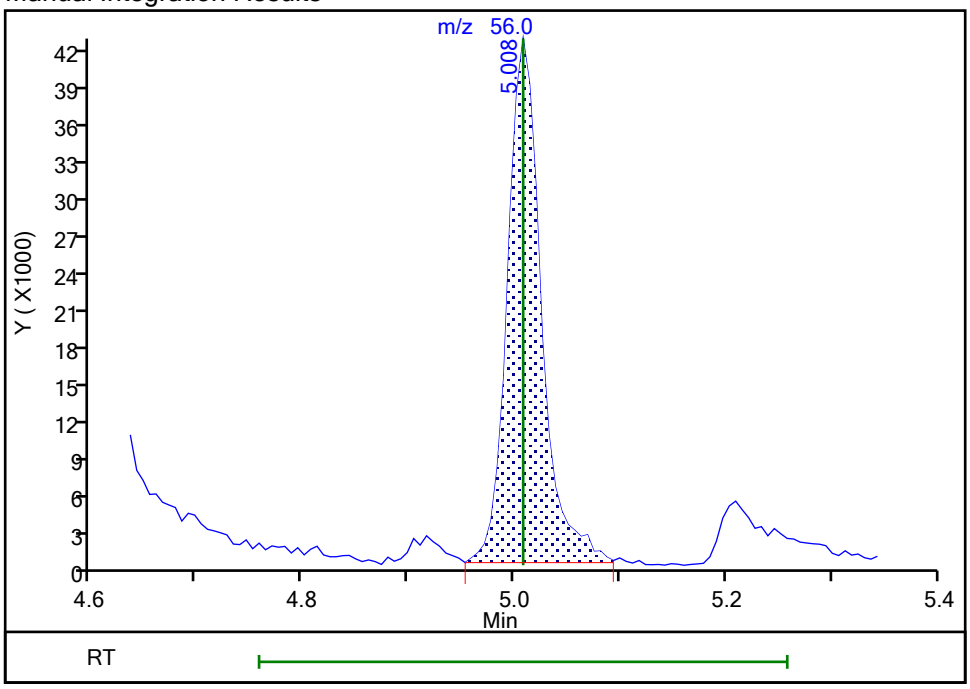
Processing Integration Results

RT: 4.92
Area: 4291
Amount: 44.441429
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 92787
Amount: 589.1446
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:10
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

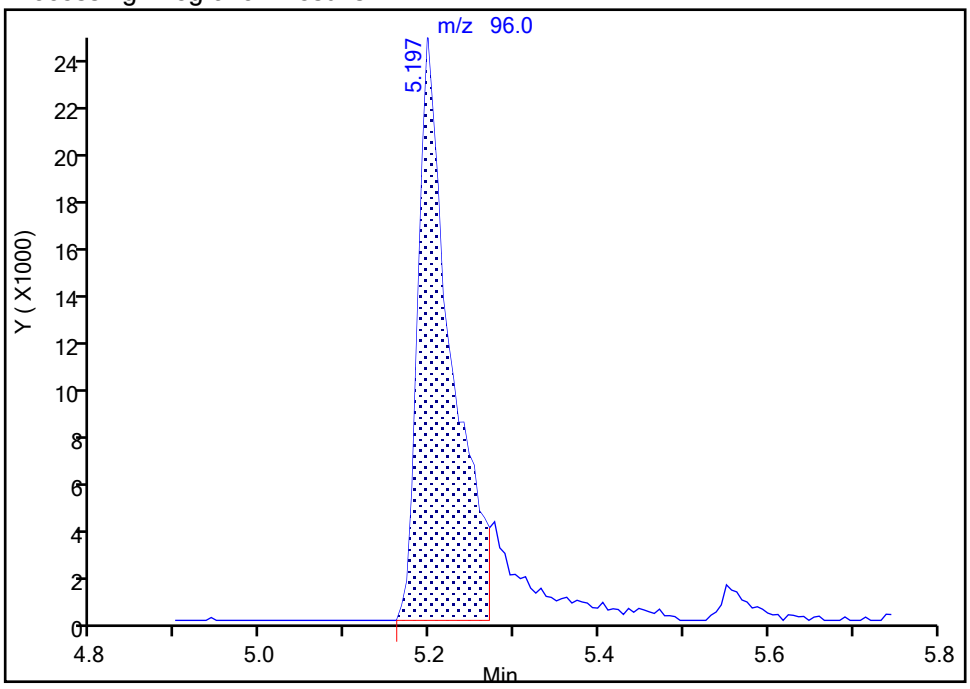
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

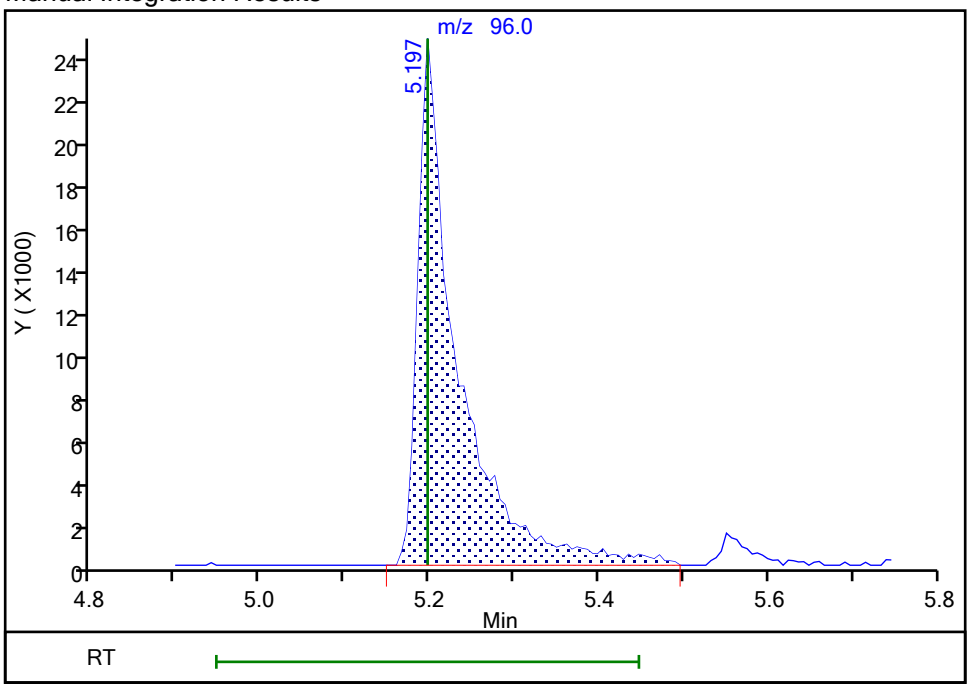
Processing Integration Results

RT: 5.20
Area: 66158
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 79185
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

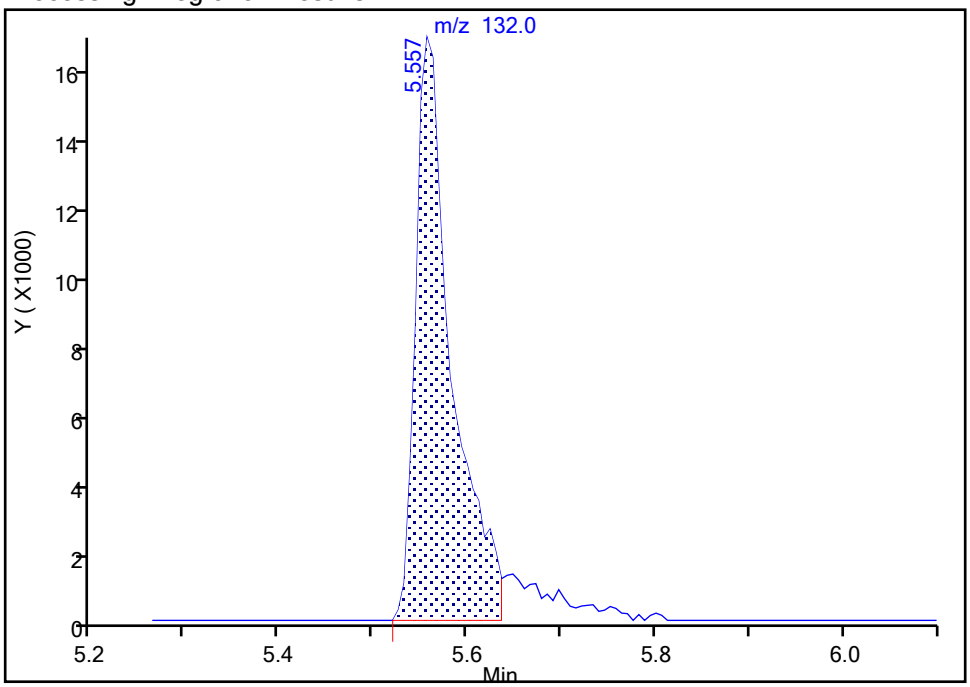
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

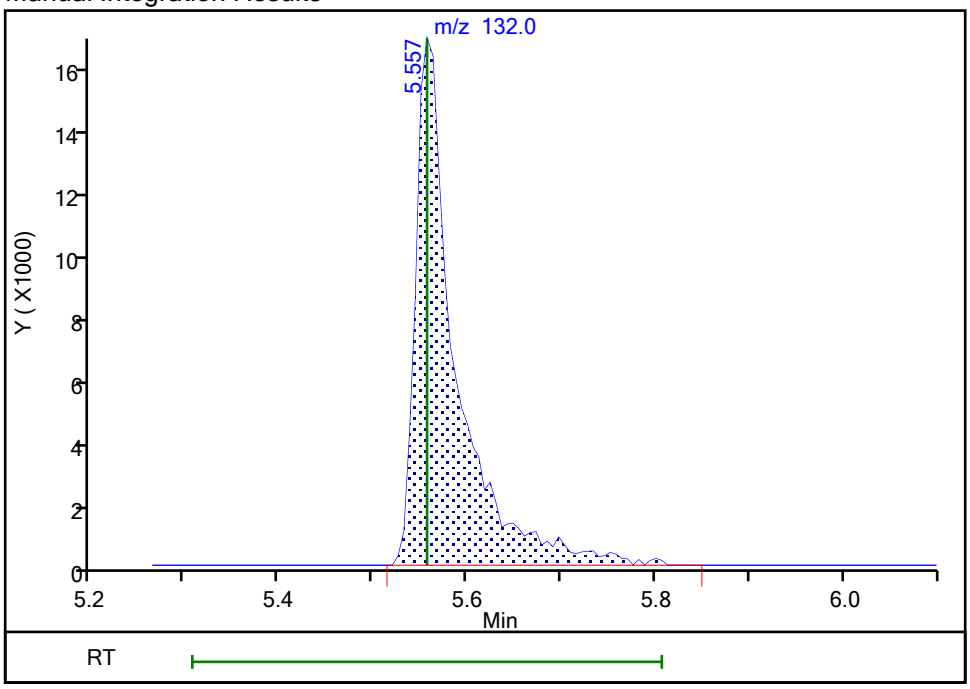
Processing Integration Results

RT: 5.56
Area: 43861
Amount: 24.781774
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 49134
Amount: 20.040425
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:59:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

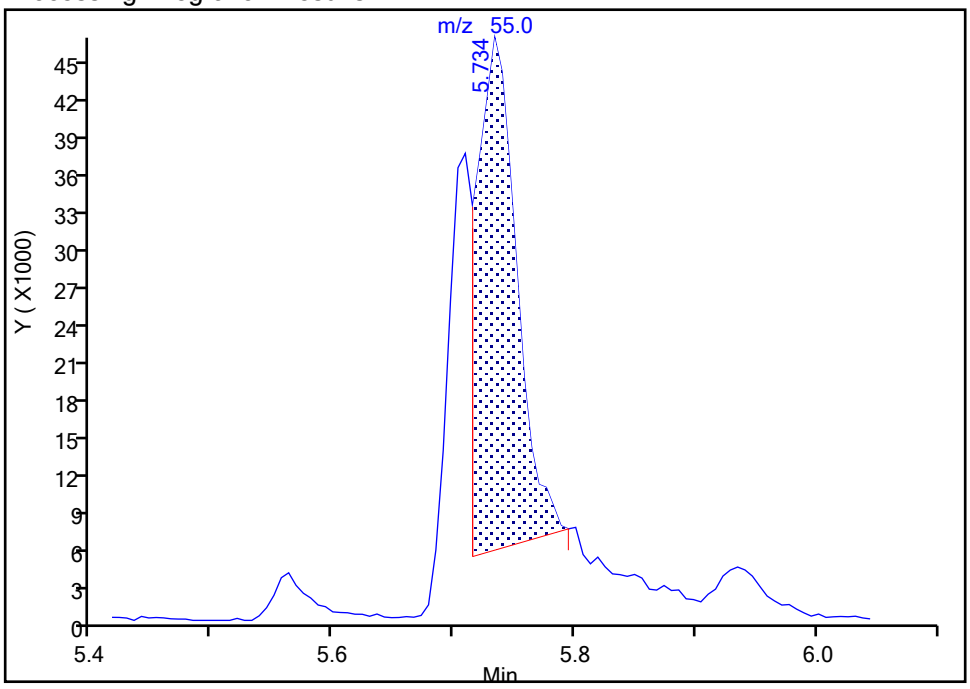
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

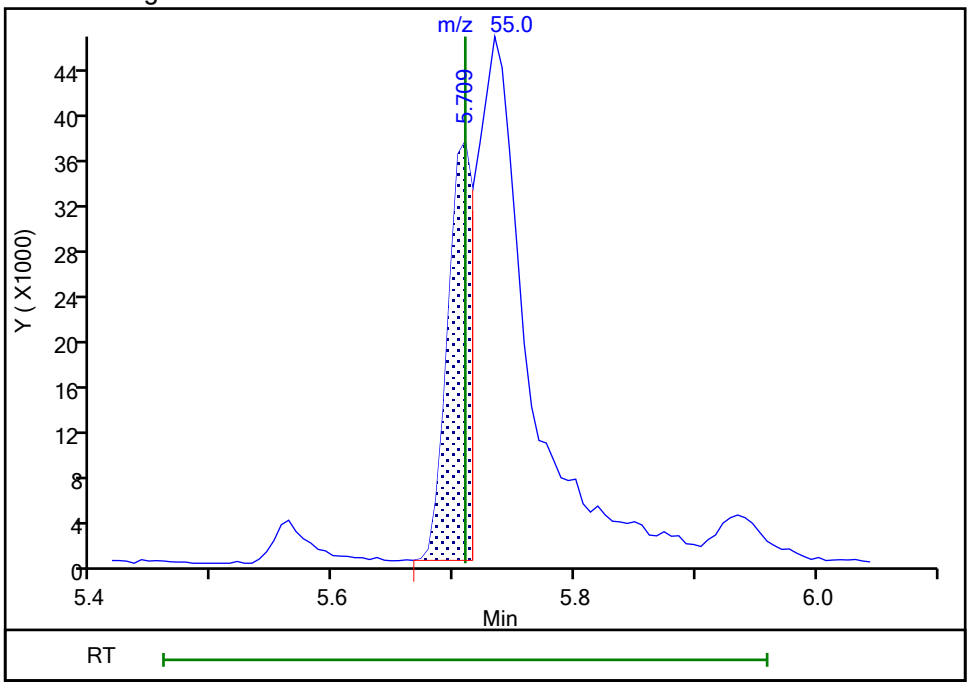
Processing Integration Results

RT: 5.73
Area: 94253
Amount: 32.826349
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 54946
Amount: 17.014446
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:58:55
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

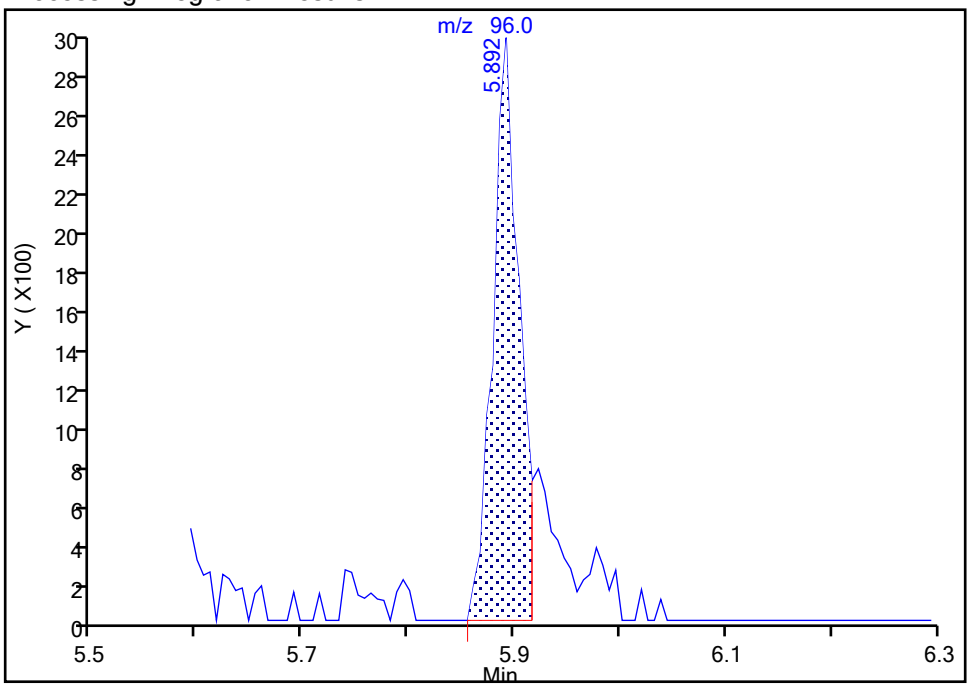
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

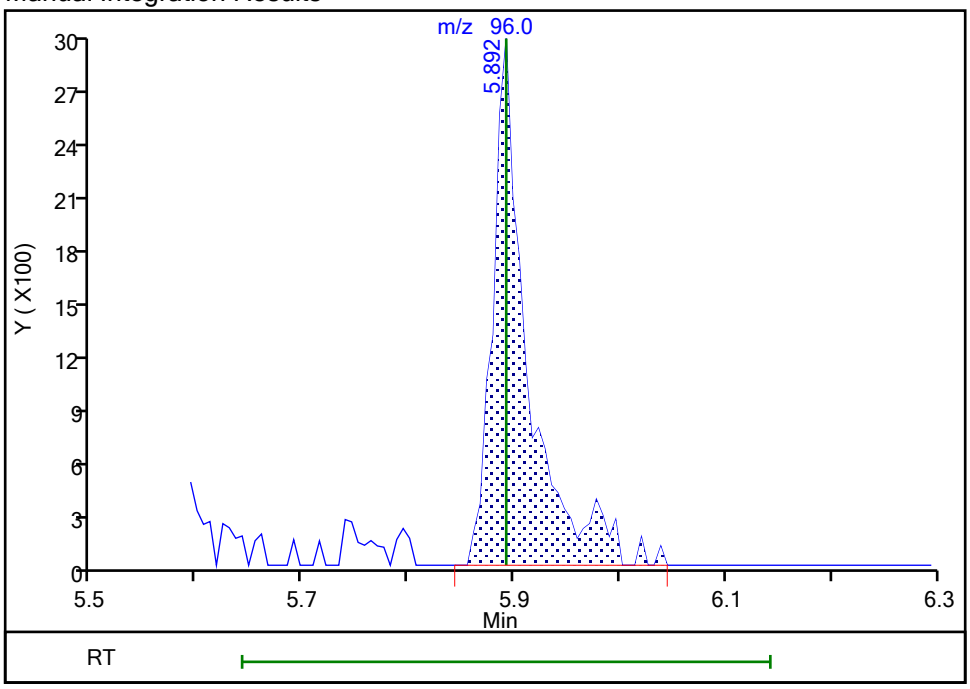
Processing Integration Results

RT: 5.89
Area: 5106
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 6844
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:00:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

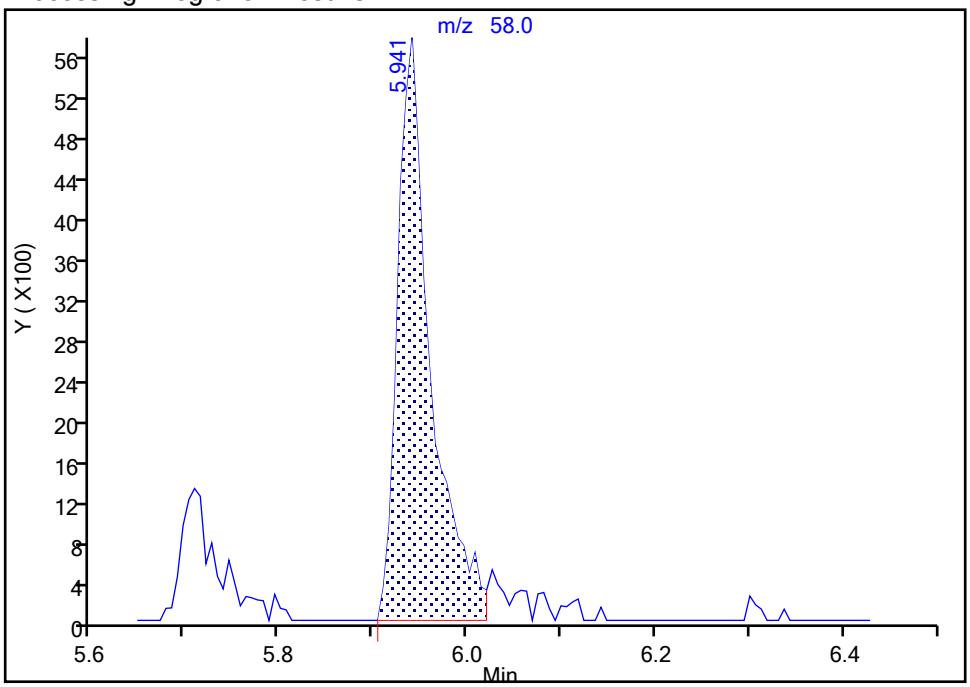
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

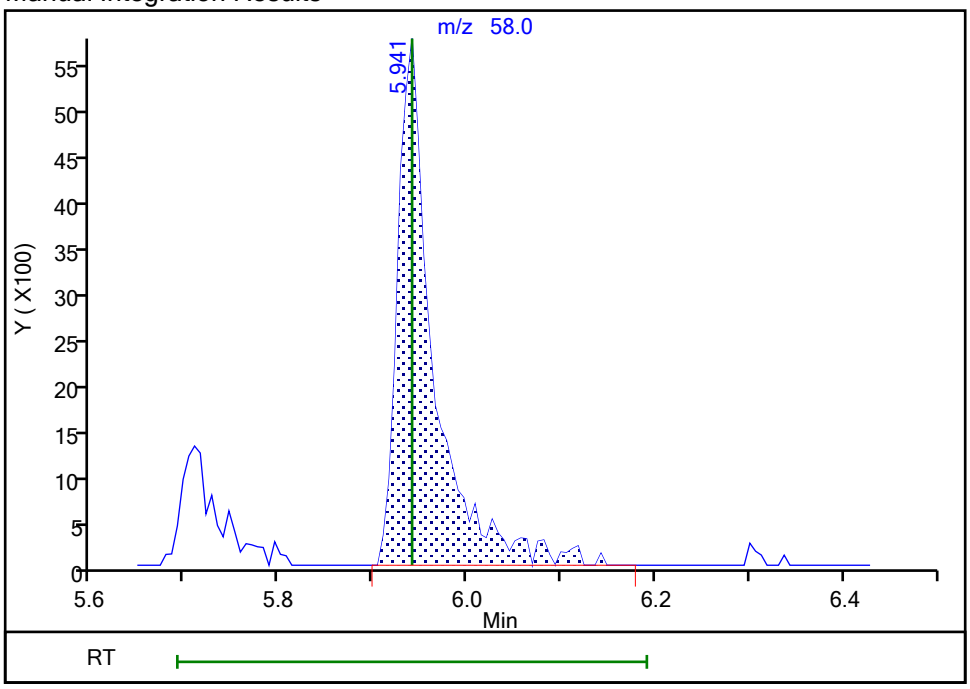
Processing Integration Results

RT: 5.94
Area: 14105
Amount: 526.9859
Amount Units: ug/l



Manual Integration Results

RT: 5.94
Area: 15423
Amount: 414.7119
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 05:58:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

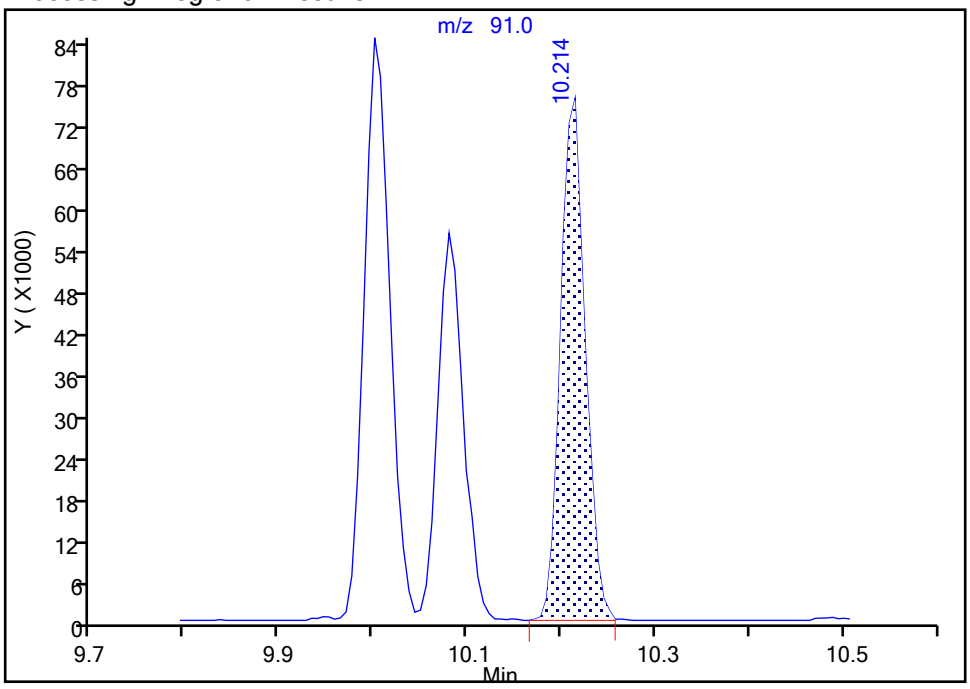
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

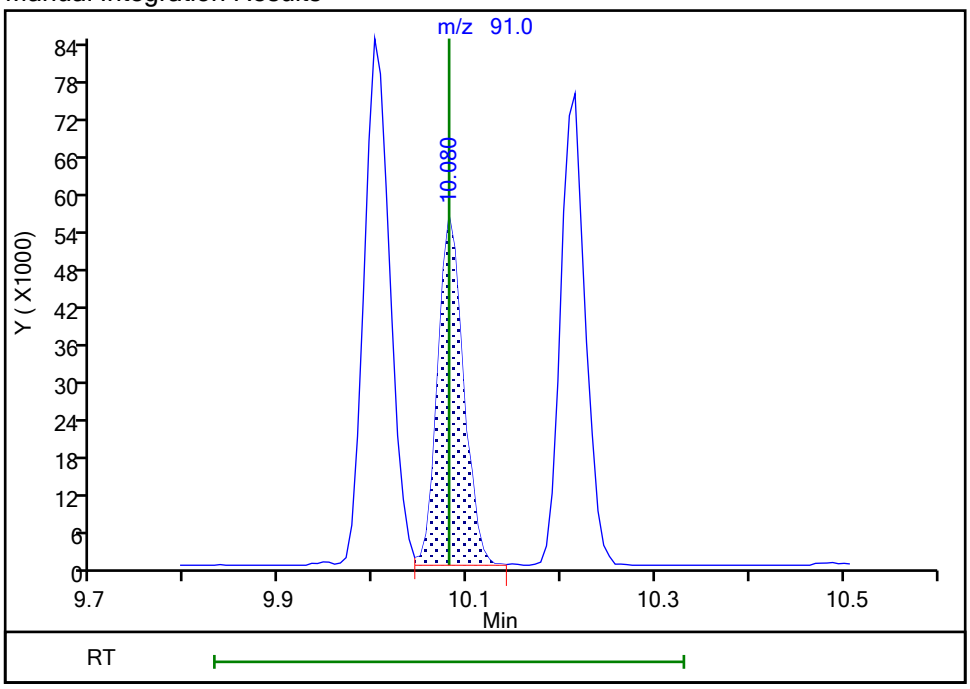
Processing Integration Results

RT: 10.21
Area: 137655
Amount: 25.756785
Amount Units: ug/l



Manual Integration Results

RT: 10.08
Area: 107038
Amount: 19.832270
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:50:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

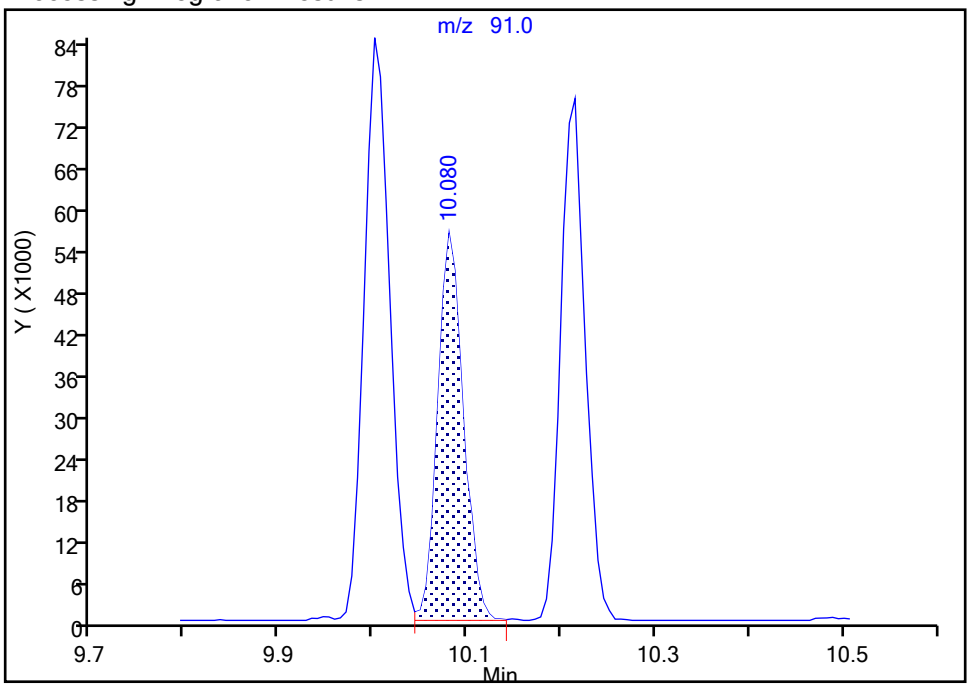
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3731.D
Injection Date: 09-Nov-2020 05:21:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

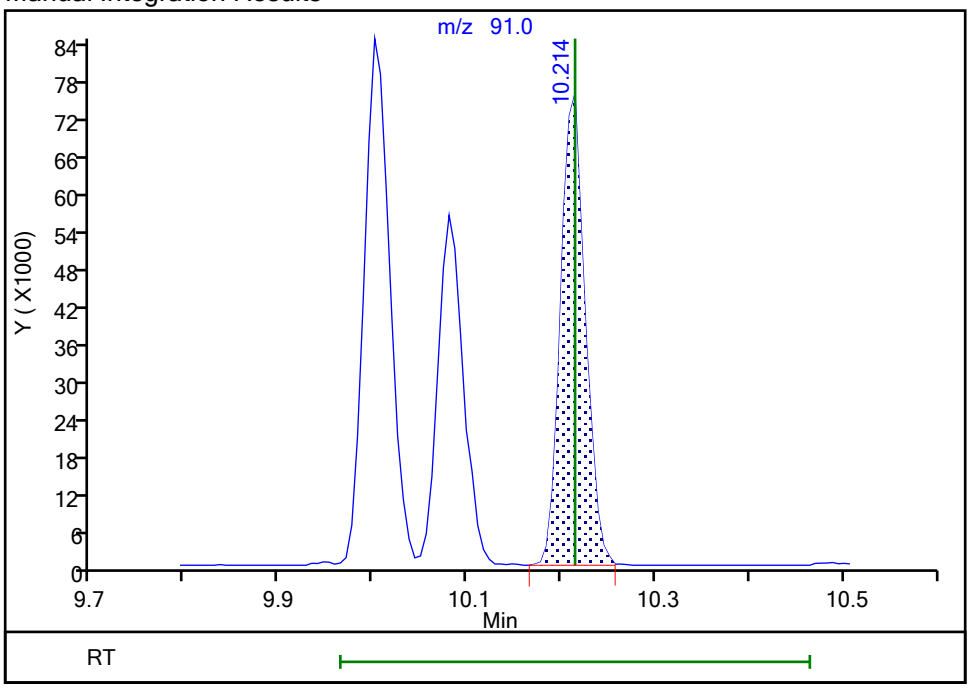
Processing Integration Results

RT: 10.08
Area: 107038
Amount: 16.982955
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 137655
Amount: 21.926139
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:50:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-Nov-2020 05:43:30 ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:12:56 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 06:07:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	50356	1000.0	1000.0	
* 122 Fluorobenzene	96	5.203	5.203	0.000	63	78397	50.0	50.0	Ma
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	33	7269	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.343	0.000	88	60512	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	56	30141	50.0	50.0	
17 Ethanol	45	2.161	2.161	0.000	100	138531	2000.0	1888.8	
18 Ethyl ether	59	2.228	2.228	0.000	92	102380	50.0	50.3	
19 Acrolein	56	2.332	2.332	0.000	98	195490	238.2	235.7	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	88	83756	50.0	46.2	M
21 112TCTFE	101	2.429	2.429	0.000	92	72664	50.0	50.8	M
22 Acetone	43	2.490	2.490	0.000	97	175621	100.0	97.7	
23 Iodomethane	142	2.539	2.539	0.000	99	64079	50.0	52.0	
24 Carbon disulfide	76	2.588	2.588	0.000	97	247754	50.0	50.9	
105 Isopropyl alcohol	45	2.667	2.667	0.000	98	152819	500.0	489.2	
118 Acetonitrile	40	2.746	2.746	0.000	94	252699	500.0	479.0	
25 3-Chloro-1-propene	76	2.759	2.759	0.000	87	37092	50.0	48.2	
26 Methyl acetate	43	2.807	2.807	0.000	99	388573	100.0	100.3	
27 Methylene Chloride	84	2.874	2.874	0.000	85	98215	50.0	49.9	
35 2-Methyl-2-propanol	59	3.057	3.057	0.000	96	132008	500.0	482.7	
30 Acrylonitrile	53	3.124	3.124	0.000	98	1048615	500.0	466.6	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	89	94395	50.0	47.1	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	90	212708	50.0	50.3	M
31 Hexane	57	3.405	3.405	0.000	95	128390	50.0	58.7	M
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	212147	50.0	46.9	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	89	234644	50.0	49.2	M
33 Vinyl acetate	86	3.612	3.612	0.000	96	40354	100.0	84.8	
36 Isopropyl ether	87	3.636	3.636	0.000	86	46893	50.0	52.8	
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	95	388837	50.0	49.4	M
38 2,2-Dichloropropane	77	4.075	4.075	0.000	82	123737	50.0	48.6	
39 cis-1,2-Dichloroethene	96	4.088	4.088	0.000	89	116662	50.0	47.8	M
40 2-Butanone (MEK)	43	4.130	4.130	0.000	95	187700	100.0	97.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.179	4.179	0.000	99	420417	500.0	475.6	
104 Ethyl acetate	43	4.203	4.203	0.000	98	428874	100.0	90.6	
42 Chlorobromomethane	128	4.313	4.313	0.000	76	47468	50.0	45.0	
43 Methacrylonitrile	67	4.325	4.325	0.000	95	545945	500.0	489.8	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	26394	100.0	97.6	
45 Chloroform	83	4.398	4.398	0.000	94	173786	50.0	48.6	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	96	154848	50.0	49.7	
47 Cyclohexane	56	4.606	4.606	0.000	91	285112	50.0	48.3	
48 Carbon tetrachloride	117	4.709	4.709	0.000	96	103406	50.0	51.1	
49 1,1-Dichloropropene	75	4.722	4.722	0.000	79	143365	50.0	52.5	M
108 Isobutyl alcohol	43	4.917	4.917	0.000	94	216274	1250.0	1188.4	
50 Benzene	78	4.917	4.917	0.000	90	388540	50.0	47.8	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	93	163953	50.0	51.4	
116 n-Butanol	56	5.008	5.008	0.000	33	191897	1250.0	1230.7	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	83	218749	50.0	49.5	
53 n-Heptane	43	5.209	5.209	0.000	94	175858	50.0	52.6	
54 Trichloroethene	132	5.557	5.557	0.000	89	122579	50.0	50.5	M
117 Ethyl acrylate	55	5.709	5.709	0.000	97	171334	50.0	53.6	a
114 Methylcyclohexane	83	5.734	5.734	0.000	93	146541	50.0	53.9	
55 1,2-Dichloropropane	63	5.776	5.776	0.000	93	113796	50.0	46.9	
56 Dibromomethane	93	5.886	5.886	0.000	96	50310	50.0	49.6	
57 Methyl methacrylate	69	5.935	5.935	0.000	87	142216	100.0	99.6	
115 1,4-Dioxane	58	5.941	5.941	0.000	33	31771	1000.0	804.3	
58 Dichlorobromomethane	83	6.063	6.063	0.000	94	81611	50.0	51.8	
106 2-Nitropropane	43	6.307	6.307	0.000	97	103950	100.0	87.2	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	83	79322	50.0	52.1	
60 cis-1,3-Dichloropropene	75	6.526	6.526	0.000	82	62356	50.0	44.3	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	97	396858	100.0	95.8	
62 Toluene	92	6.867	6.867	0.000	97	259980	50.0	50.3	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	89	52239	50.0	47.6	
64 Ethyl methacrylate	69	7.245	7.245	0.000	86	110745	50.0	47.9	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	93	65283	50.0	50.2	
66 Tetrachloroethene	166	7.441	7.441	0.000	95	99417	50.0	51.0	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	87	91481	50.0	40.1	
68 2-Hexanone	43	7.599	7.599	0.000	98	264774	100.0	94.5	
69 Chlorodibromomethane	129	7.709	7.709	0.000	89	46895	50.0	51.4	
109 n-Butyl acetate	43	7.758	7.758	0.000	97	298506	50.0	47.2	
70 Ethylene Dibromide	107	7.819	7.819	0.000	99	31714	50.0	26.1	
71 Chlorobenzene	112	8.373	8.373	0.000	90	270827	50.0	47.7	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	94	91679	50.0	48.4	
73 Ethylbenzene	91	8.514	8.514	0.000	98	397985	50.0	50.7	
74 m-Xylene & p-Xylene	106	8.648	8.648	0.000	98	155537	50.0	50.1	
75 o-Xylene	106	9.093	9.093	0.000	94	145343	50.0	49.6	
76 Styrene	104	9.111	9.111	0.000	86	249929	50.0	49.4	
77 Bromoform	173	9.294	9.294	0.000	94	21394	50.0	45.5	
78 Isopropylbenzene	105	9.519	9.519	0.000	96	339018	50.0	48.8	
79 Bromobenzene	156	9.843	9.843	0.000	90	99355	50.0	47.8	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	97	88236	50.0	46.1	
81 1,2,3-Trichloropropane	75	9.910	9.910	0.000	92	75614	50.0	49.9	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	78	15882	50.0	41.7	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	383246	50.0	49.7	
84 2-Chlorotoluene	91	10.080	10.080	0.000	96	264536	50.0	47.8	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.214	10.214	0.000	95	318190	50.0	49.5	a
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	95	305887	50.0	46.9	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	449546	50.0	52.0	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	268889	50.0	44.9	
89 sec-Butylbenzene	105	10.855	10.855	0.000	95	320637	50.0	46.1	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	98	184599	50.0	50.0	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	97	238889	50.0	48.8	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	93	187050	50.0	48.0	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	271976	50.0	48.3	
113 Benzyl chloride	126	11.232	11.232	0.000	99	12999	50.0	43.3	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	164533	50.0	47.0	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	212375	50.0	48.4	
95 1,2-Dibromo-3-Chloropropane	75	12.440	12.440	0.000	76	10224	50.0	45.7	
112 1,3,5-Trichlorobenzene	180	12.702	12.702	0.000	96	106235	50.0	49.0	
96 1,2,4-Trichlorobenzene	180	13.445	13.445	0.000	95	88041	50.0	48.8	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	39400	50.0	48.8	
98 Naphthalene	128	13.732	13.732	0.000	97	294810	50.0	50.5	
99 1,2,3-Trichlorobenzene	180	14.031	14.031	0.000	94	78004	50.0	47.9	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	94.9	
S 100 Xylenes, Total	1				0		100.0	99.7	
S 102 1,3-Dichloropropene, Total	1				0		100.0	91.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00219	Amount Added:	50.00	Units: uL

Report Date: 10-Nov-2020 04:12:59 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D

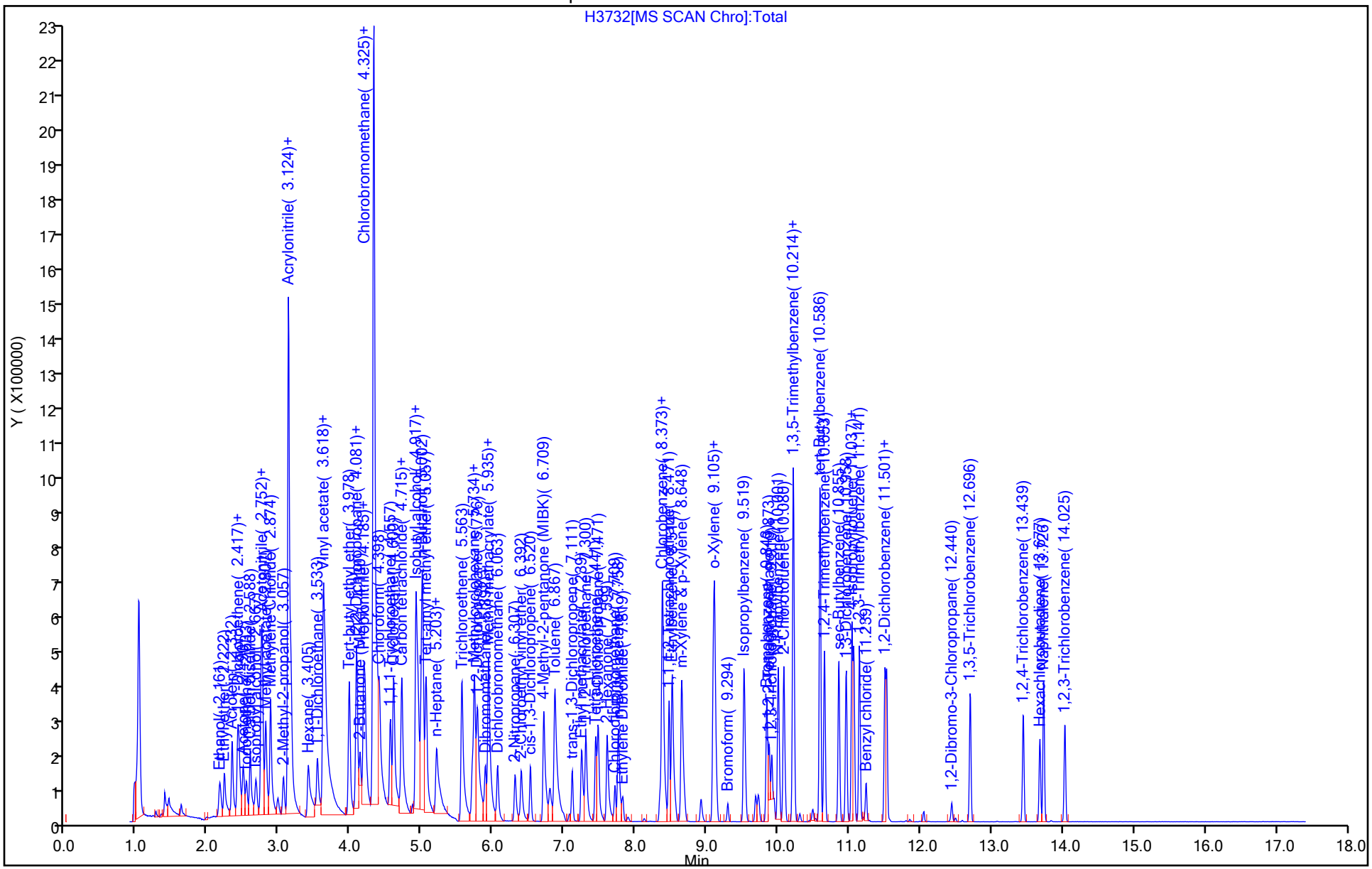
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes Operator ID:

Lims ID: std7 Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

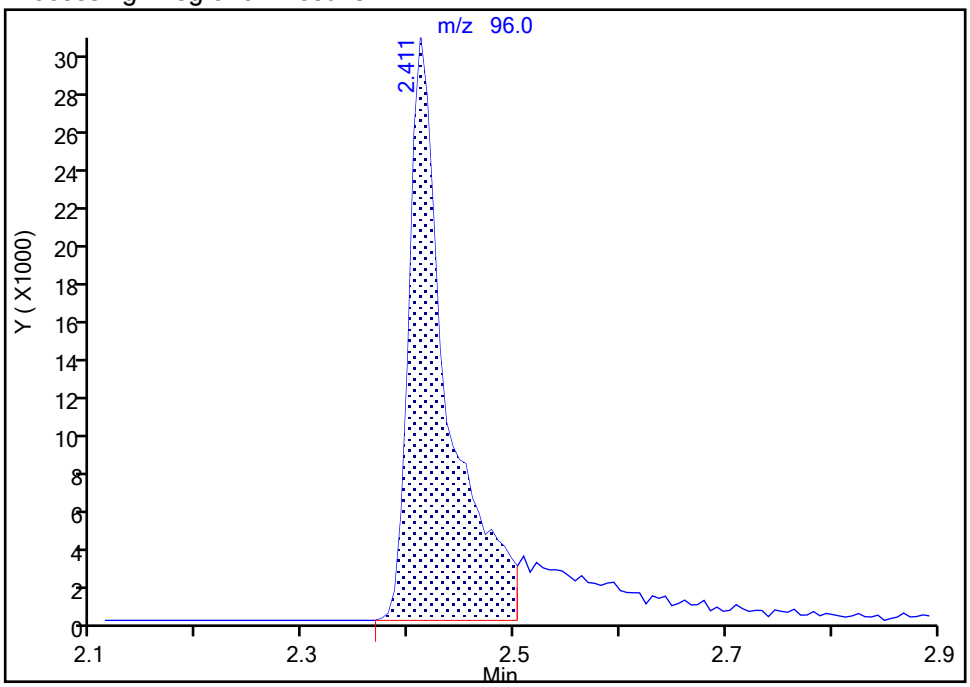
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

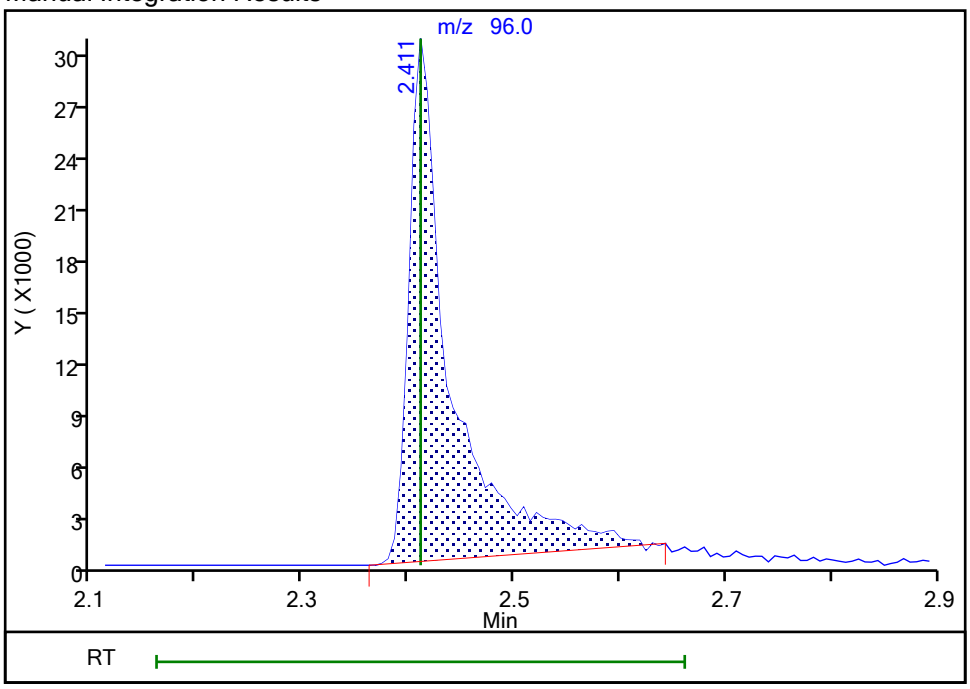
Processing Integration Results

RT: 2.41
Area: 77624
Amount: 49.419184
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 83756
Amount: 46.211395
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:04:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

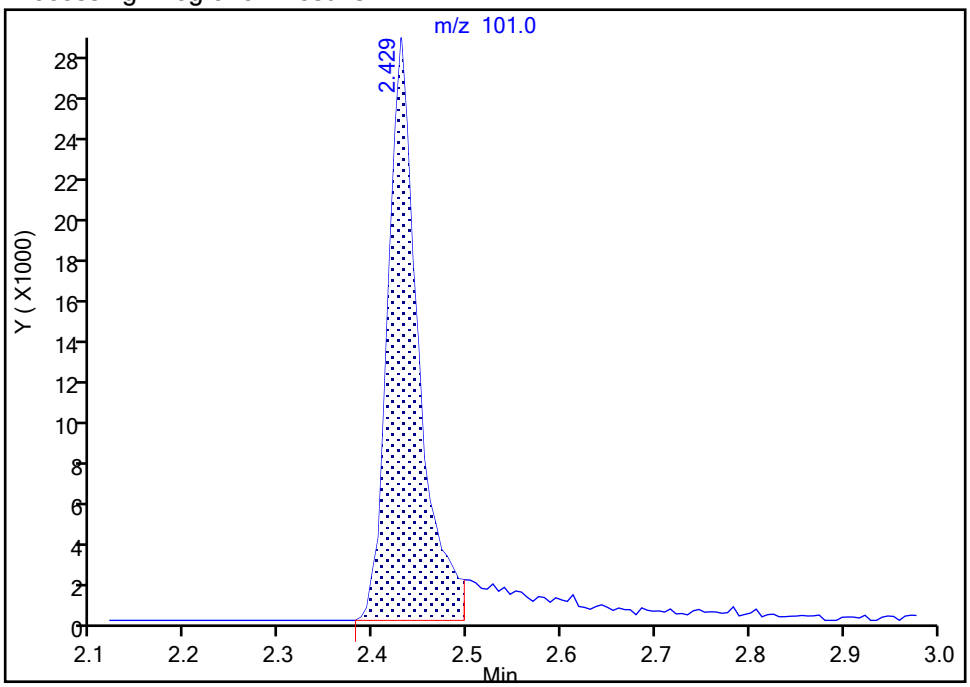
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

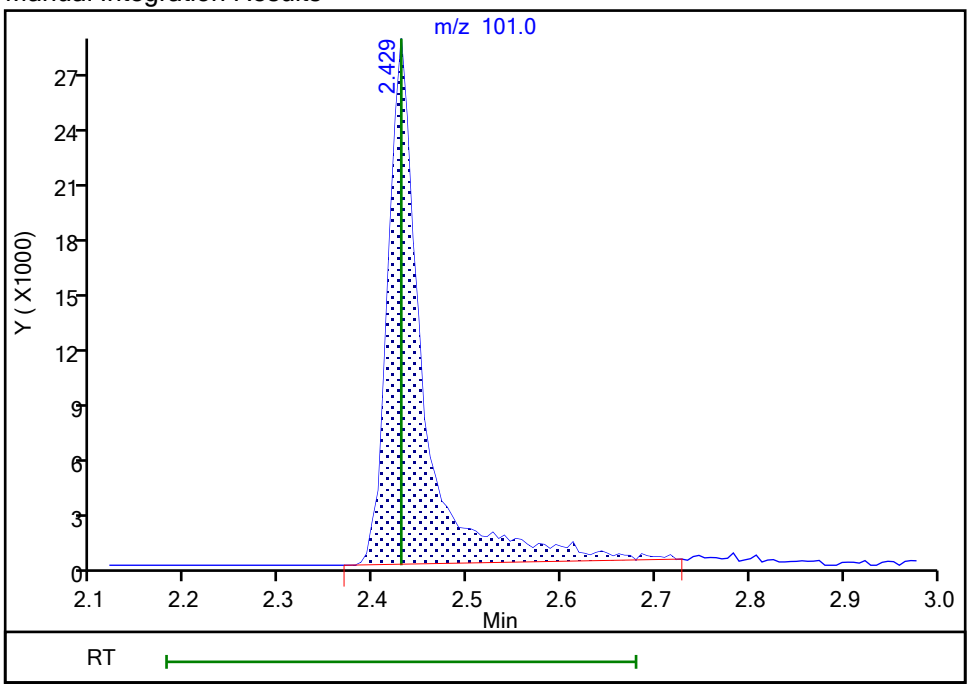
Processing Integration Results

RT: 2.43
Area: 63532
Amount: 49.434542
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 72664
Amount: 50.833549
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:04:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

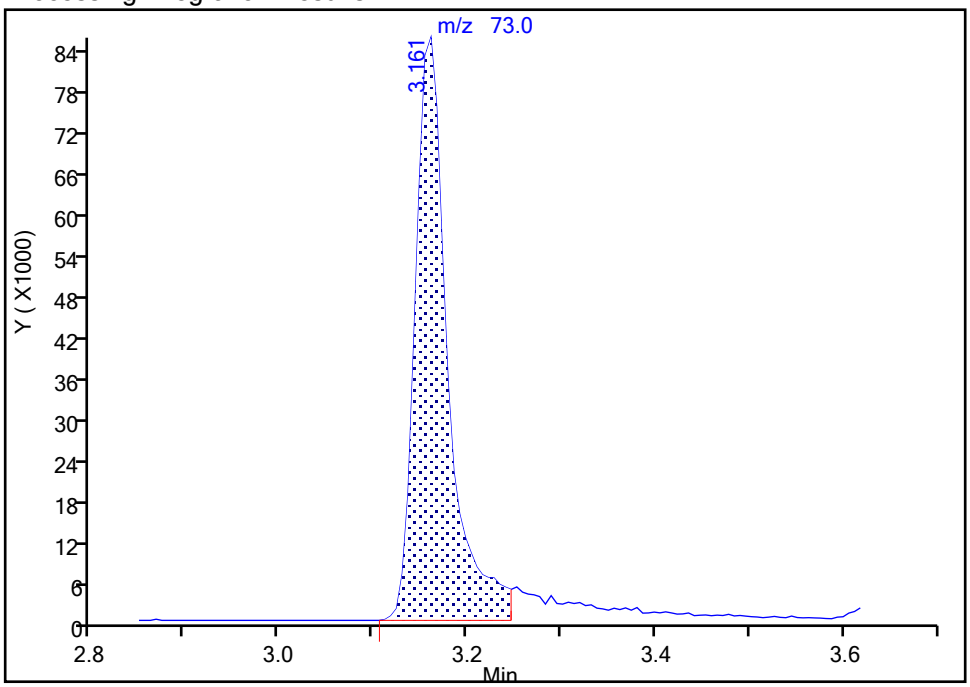
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

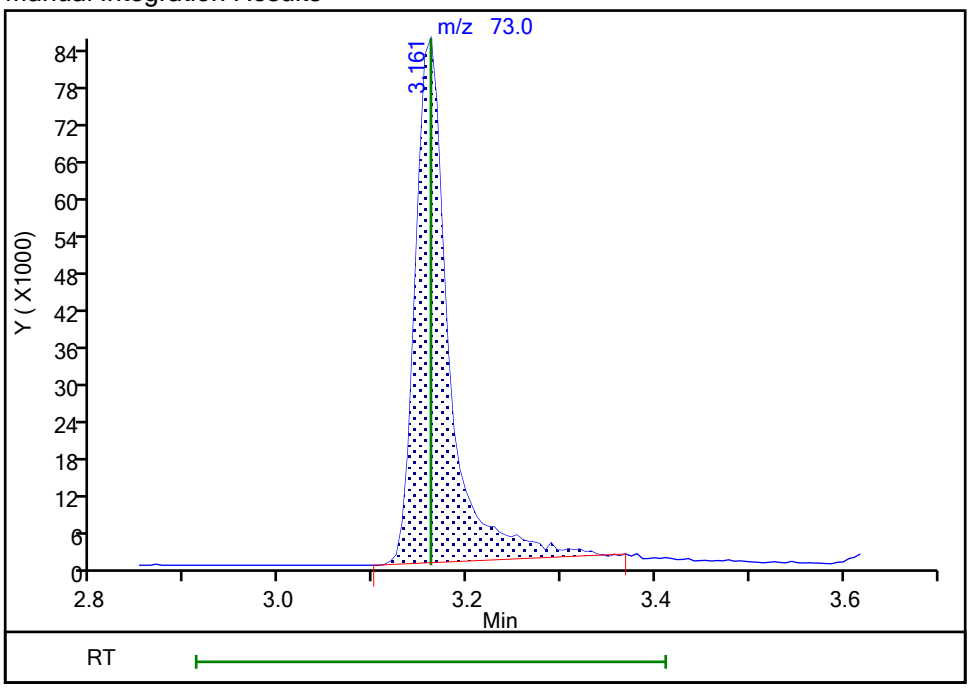
Processing Integration Results

RT: 3.16
Area: 208226
Amount: 49.645133
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 212708
Amount: 50.281242
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:04:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

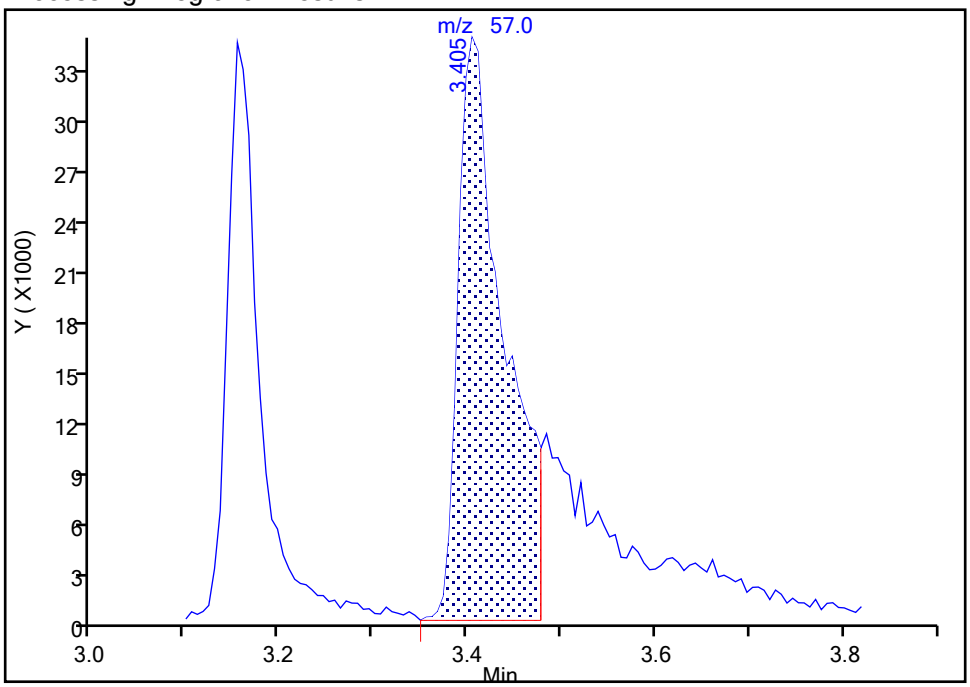
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

31 Hexane, CAS: 110-54-3

Signal: 1

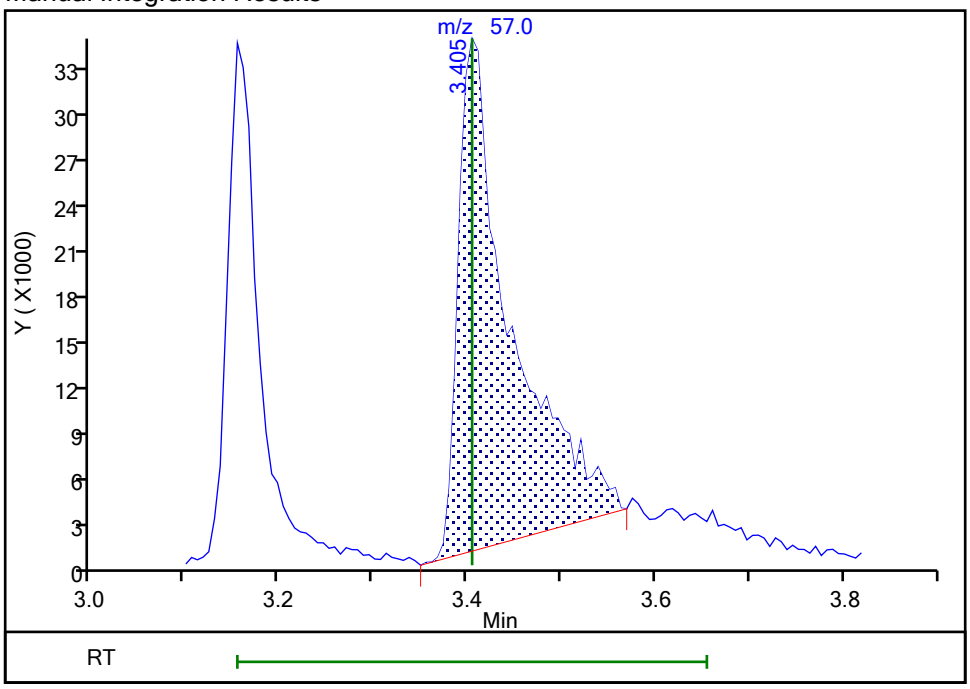
Processing Integration Results

RT: 3.40
Area: 115974
Amount: 51.536753
Amount Units: ug/l



Manual Integration Results

RT: 3.40
Area: 128390
Amount: 58.739022
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:05:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

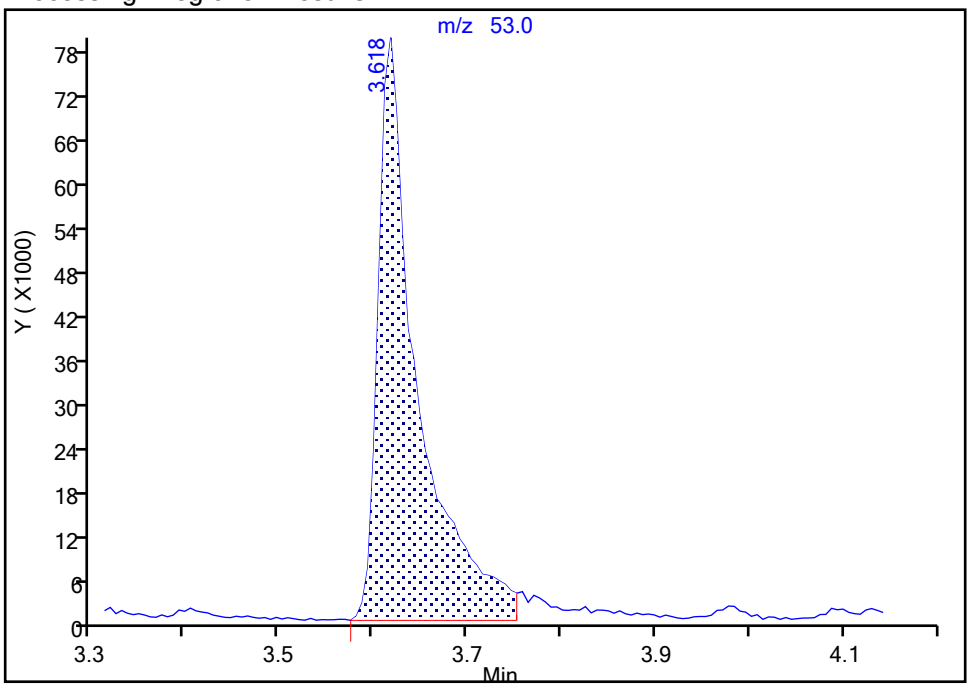
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

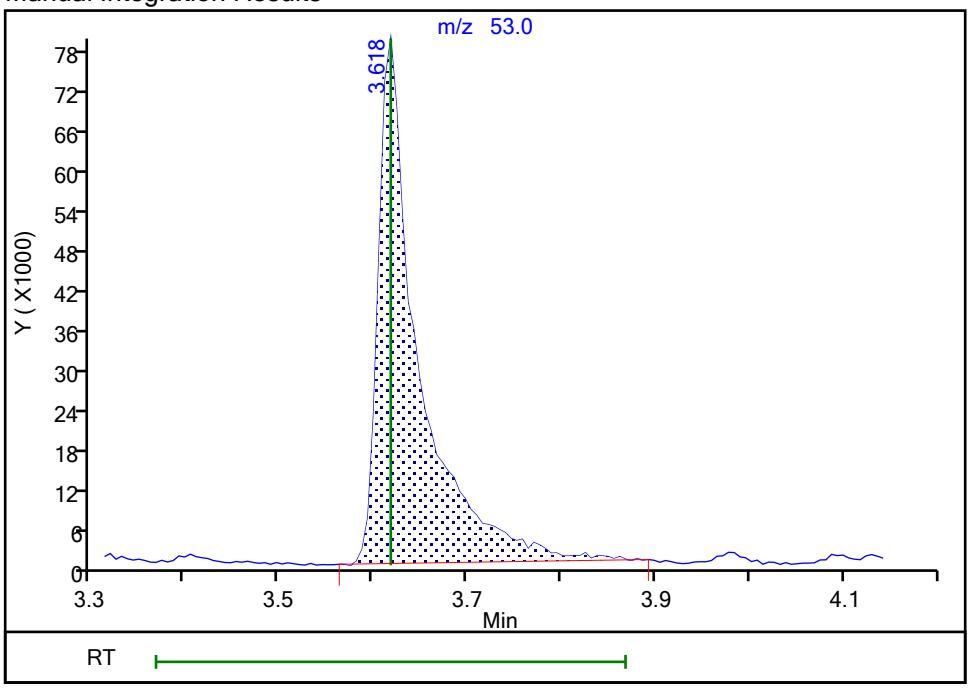
Processing Integration Results

RT: 3.62
Area: 230802
Amount: 58.040218
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 234644
Amount: 49.214886
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:05:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

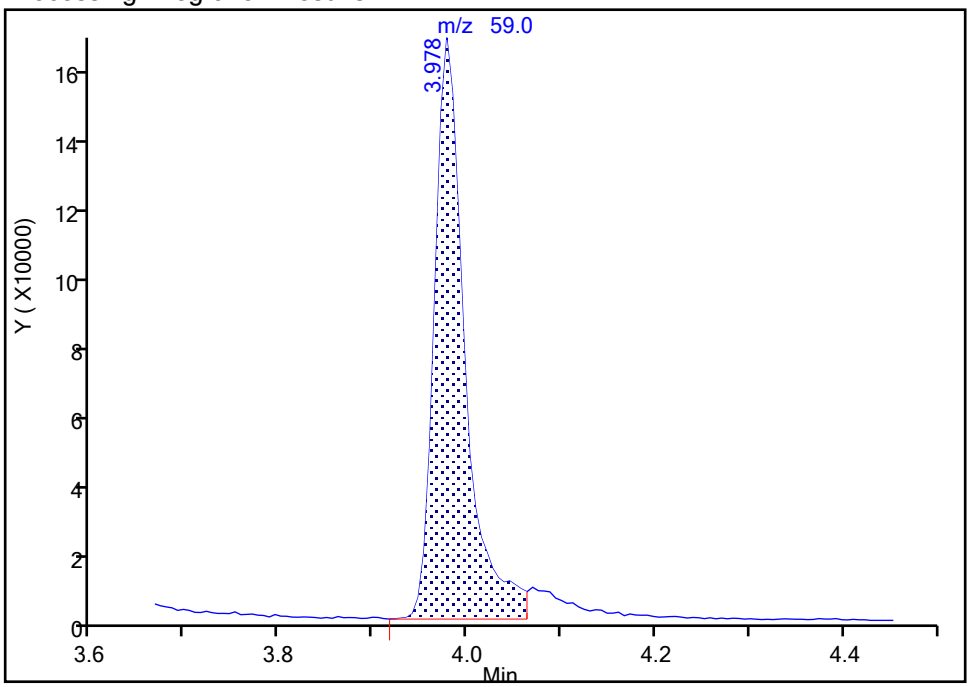
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

37 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

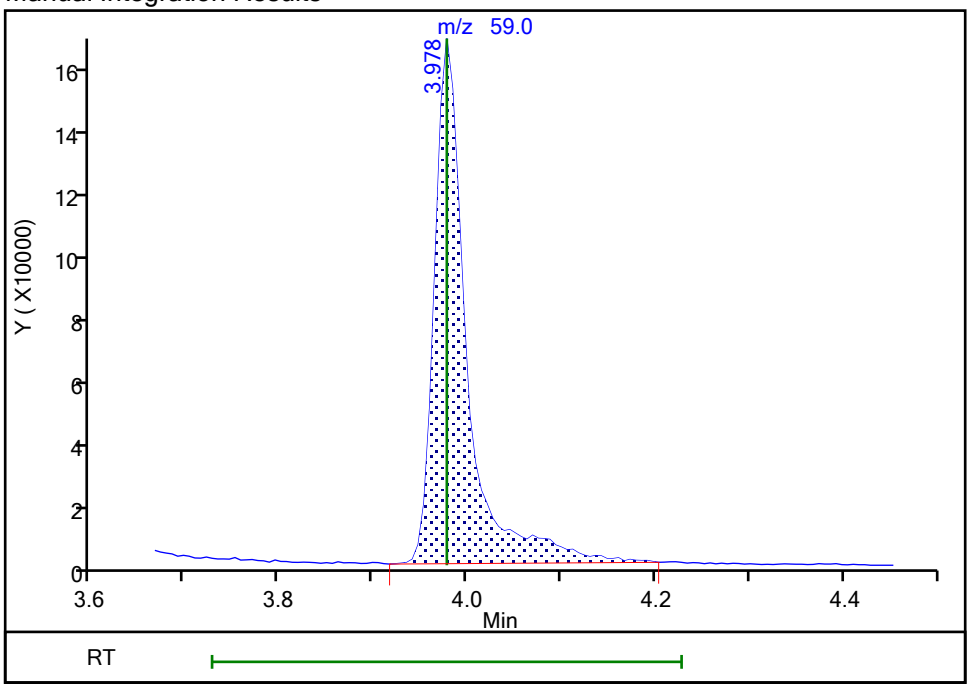
Processing Integration Results

RT: 3.98
Area: 365215
Amount: 49.614515
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 388837
Amount: 49.438764
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:05:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

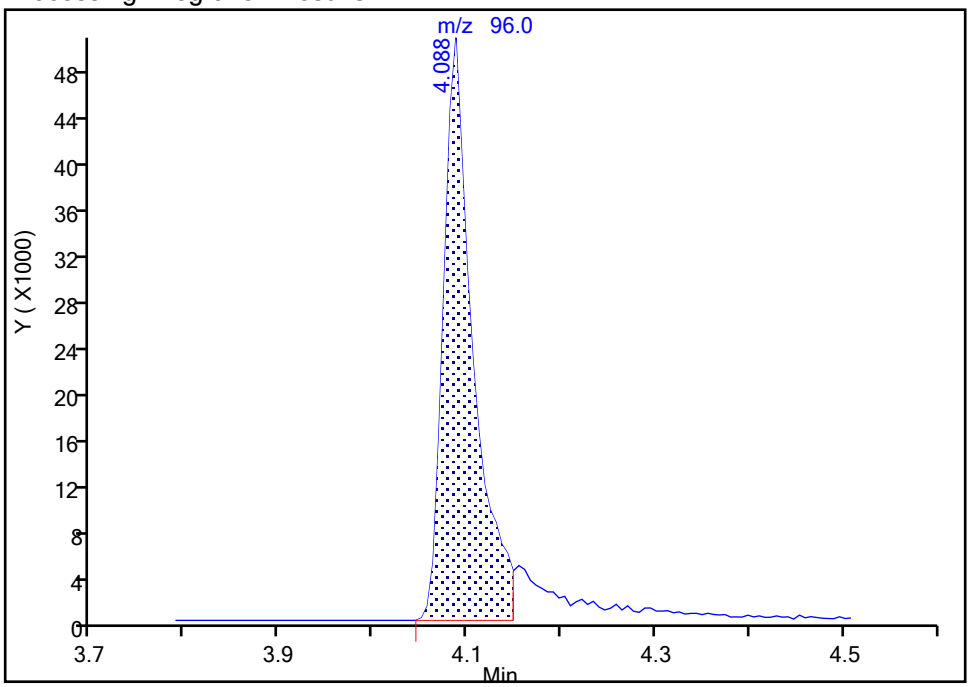
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

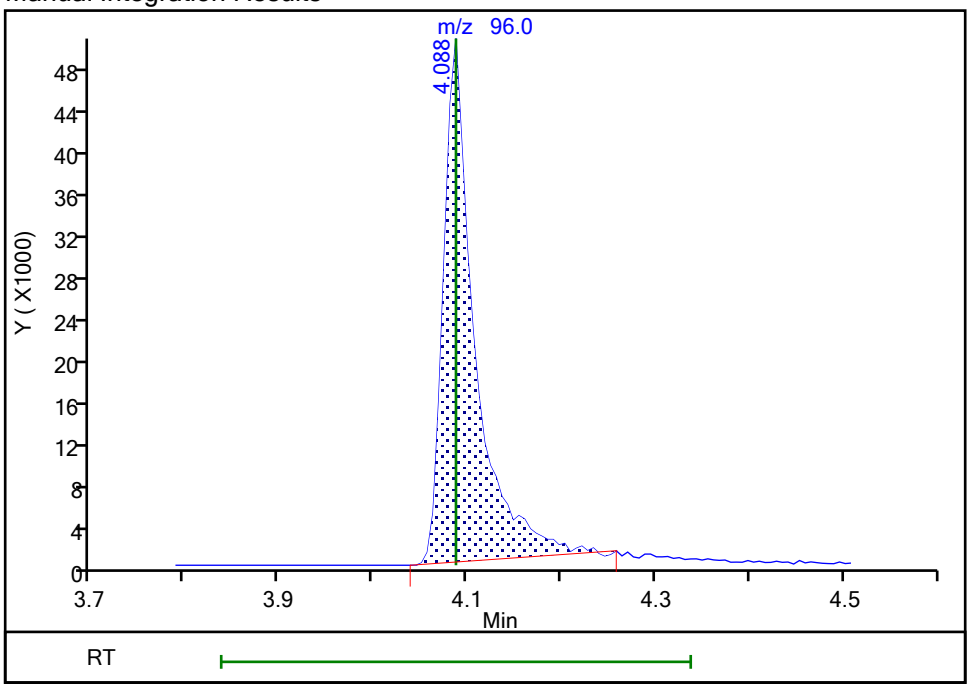
Processing Integration Results

RT: 4.09
Area: 111571
Amount: 55.949135
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 116662
Amount: 47.750181
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:05:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

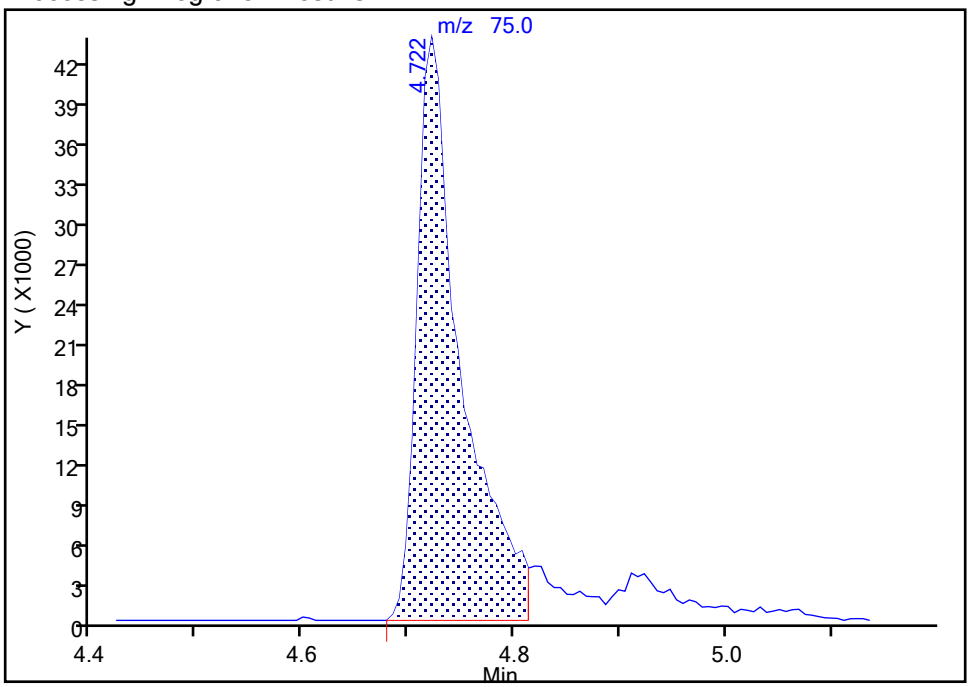
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

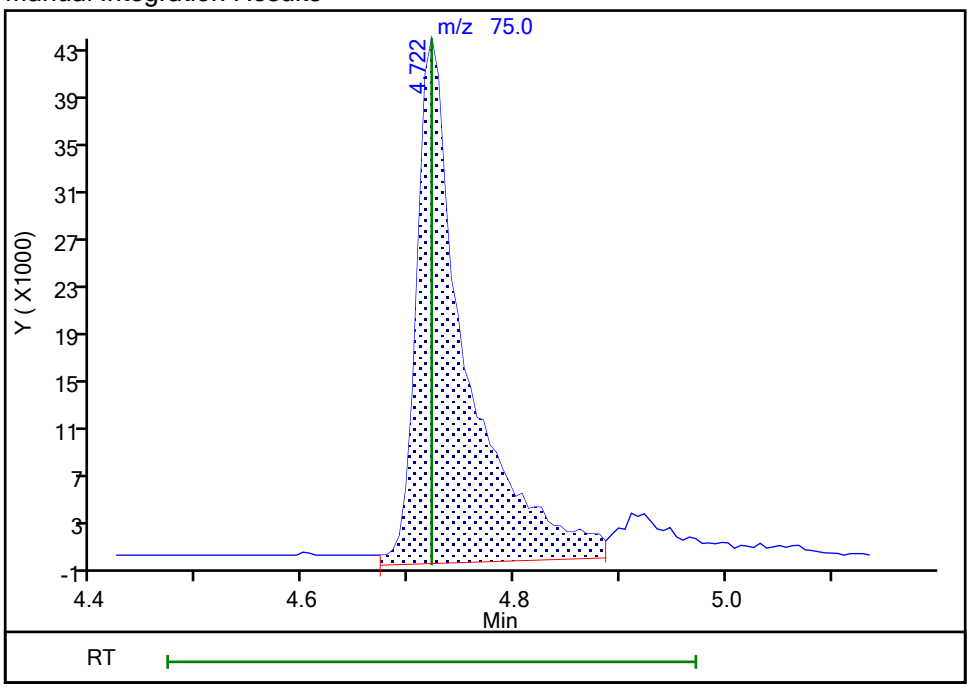
Processing Integration Results

RT: 4.72
Area: 125955
Amount: 50.450732
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 143365
Amount: 52.545973
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:06:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

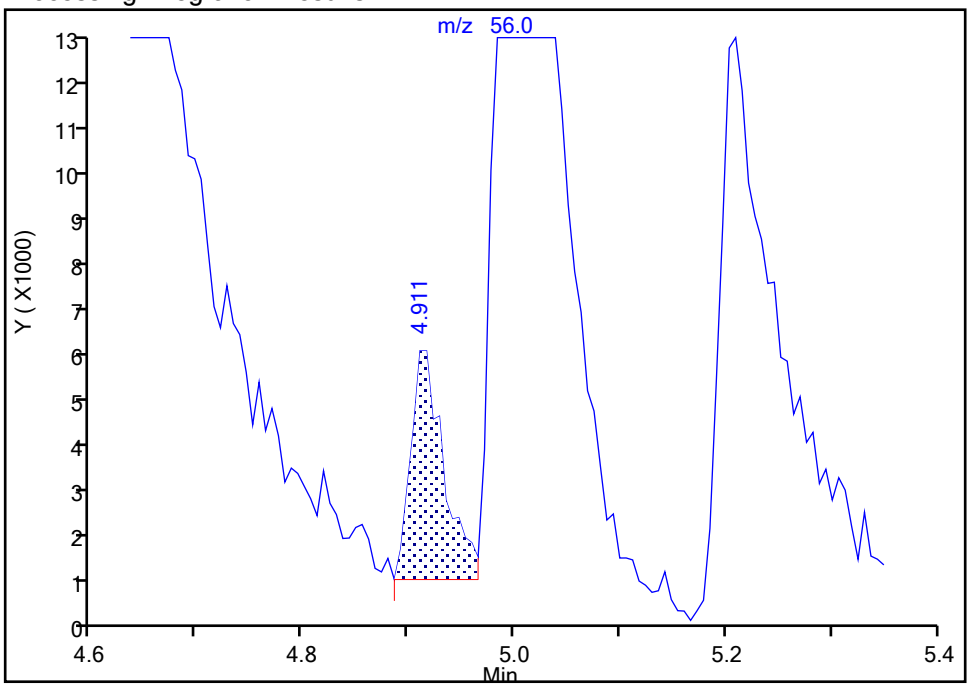
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

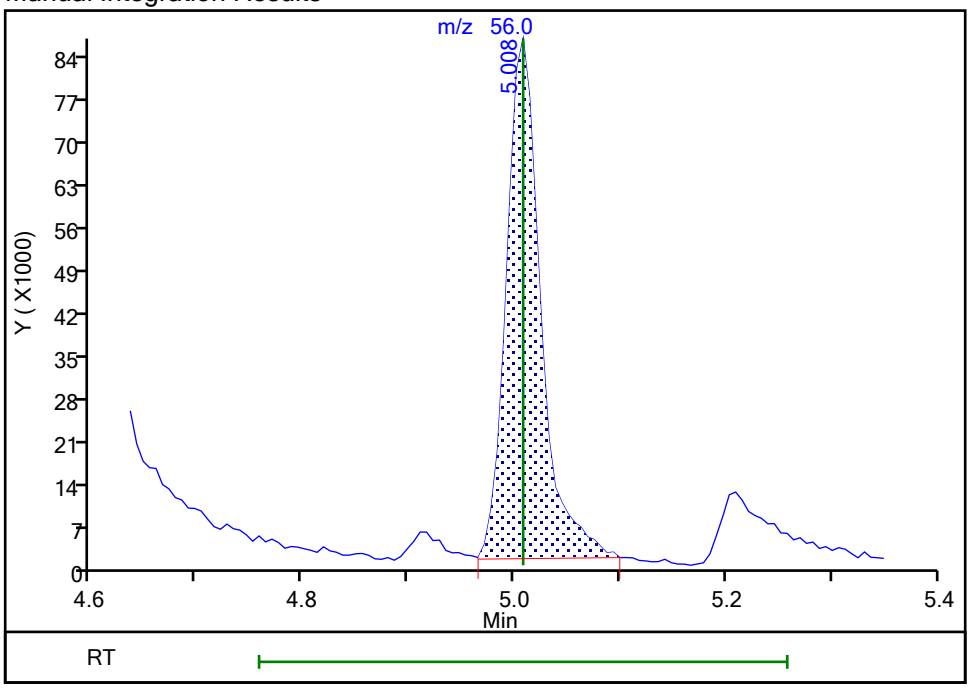
Processing Integration Results

RT: 4.91
Area: 9992
Amount: 103.2115
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 191897
Amount: 1230.6836
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:06:51
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

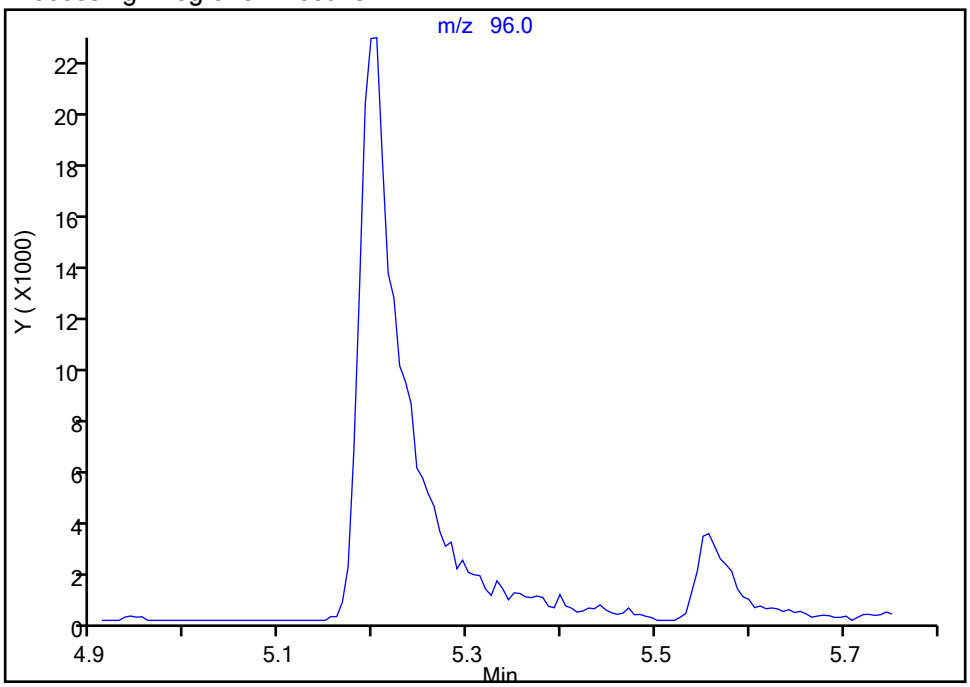
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

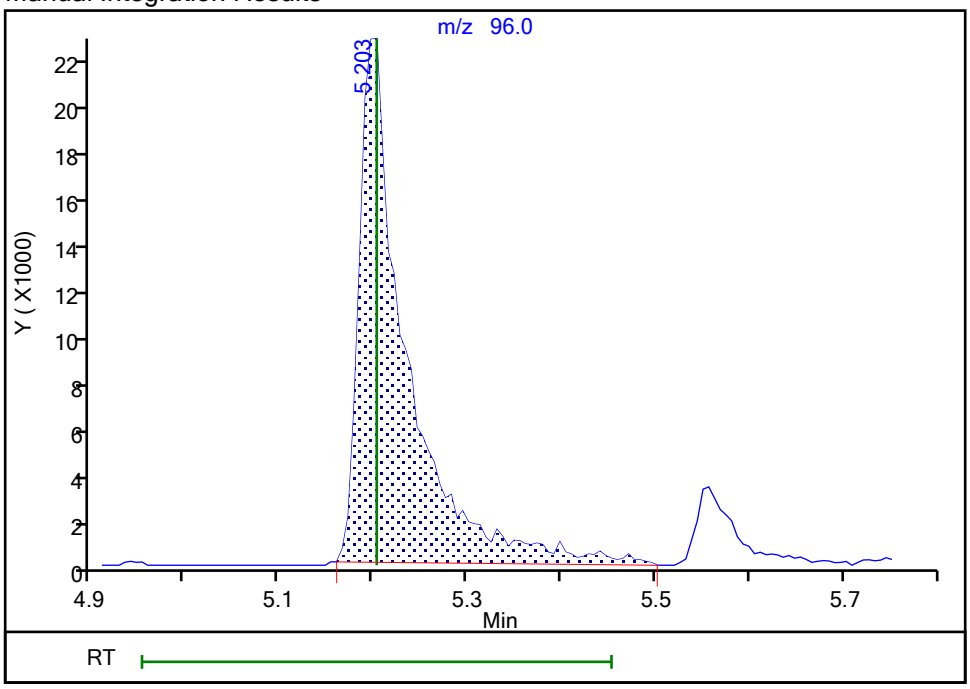
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 78397
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:04:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

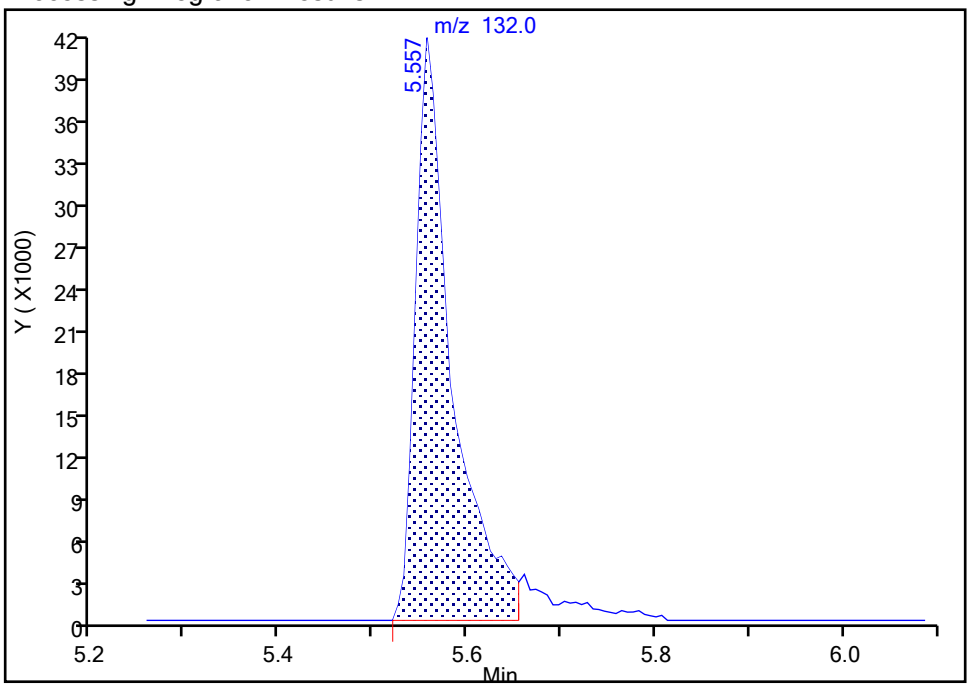
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

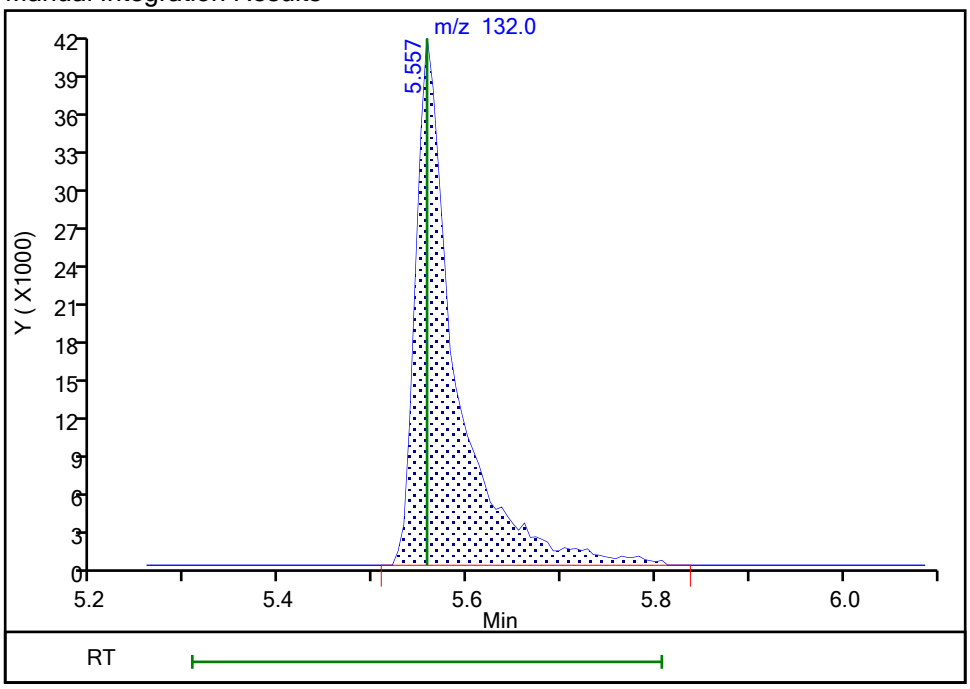
Processing Integration Results

RT: 5.56
Area: 112593
Amount: 53.257955
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 122579
Amount: 50.499184
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:07:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

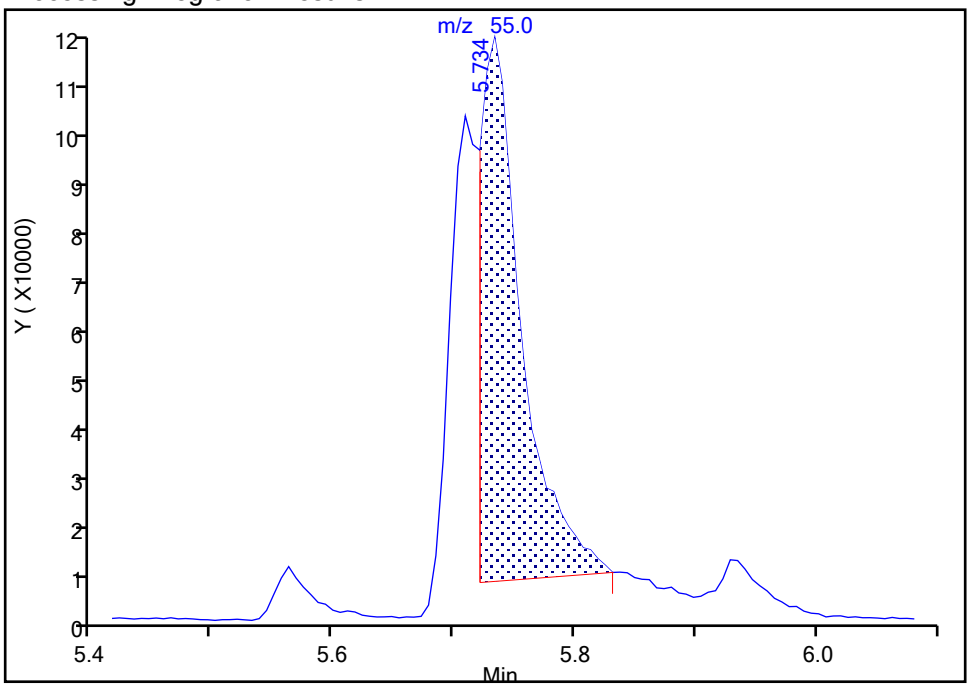
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

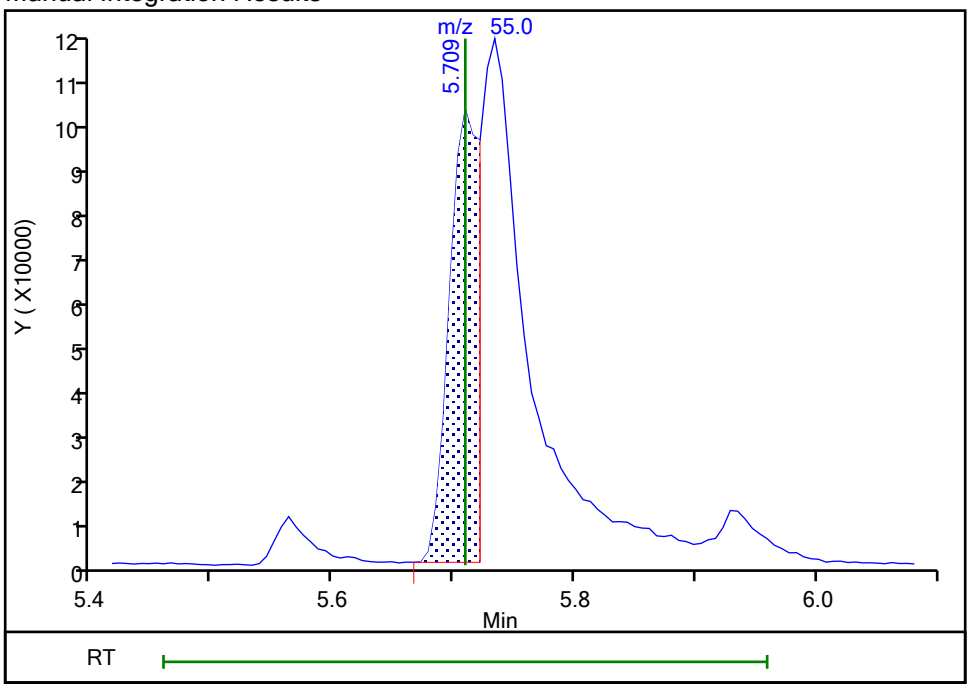
Processing Integration Results

RT: 5.73
Area: 249516
Amount: 67.338172
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 171334
Amount: 53.588150
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:07:07
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

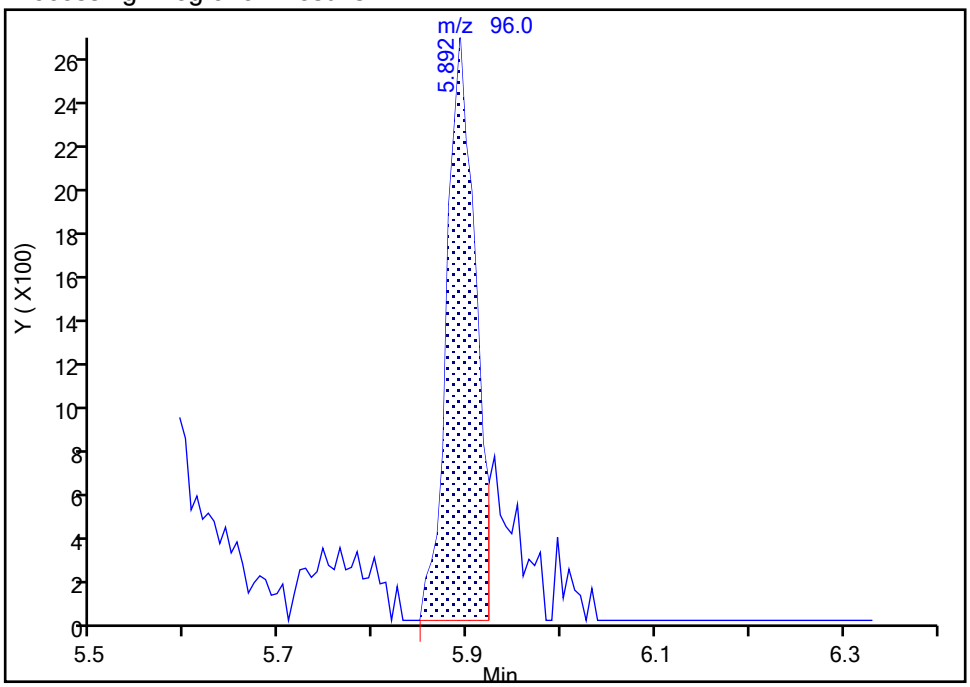
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

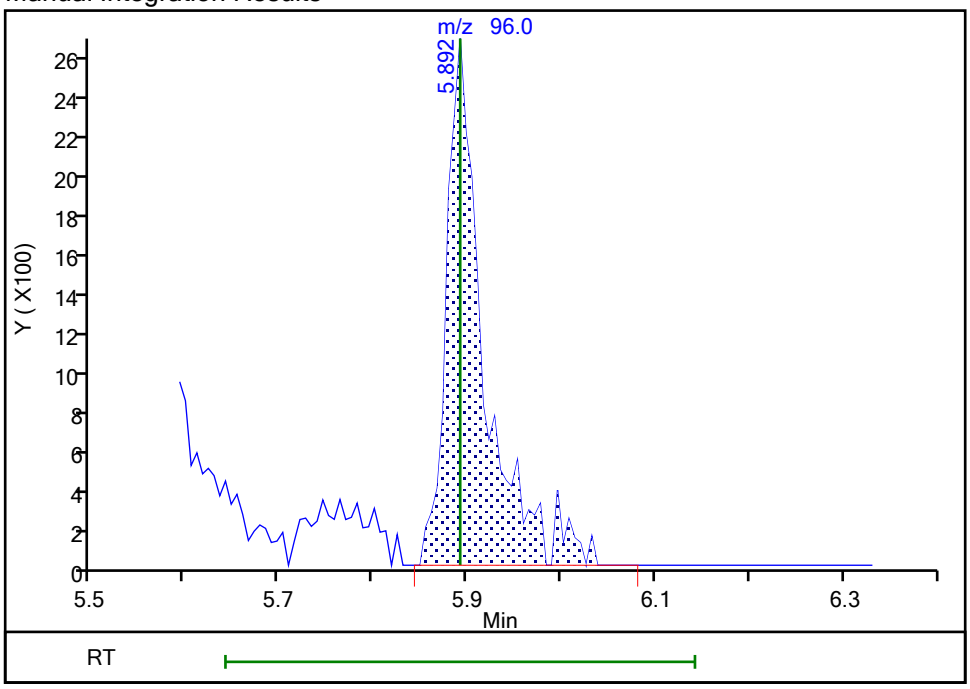
Processing Integration Results

RT: 5.89
Area: 5565
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 7269
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:04:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

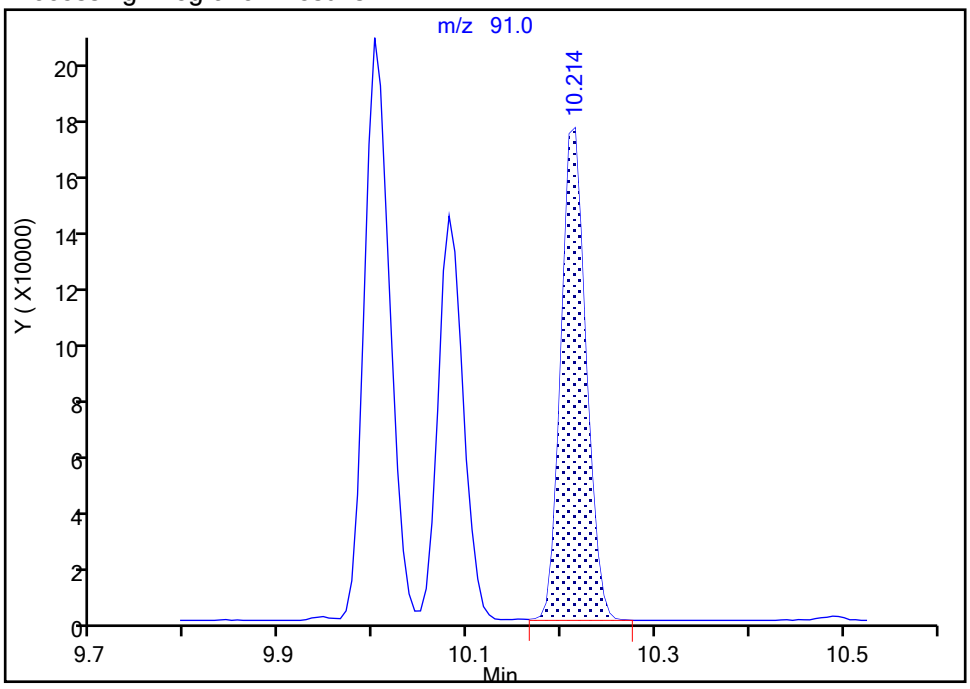
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

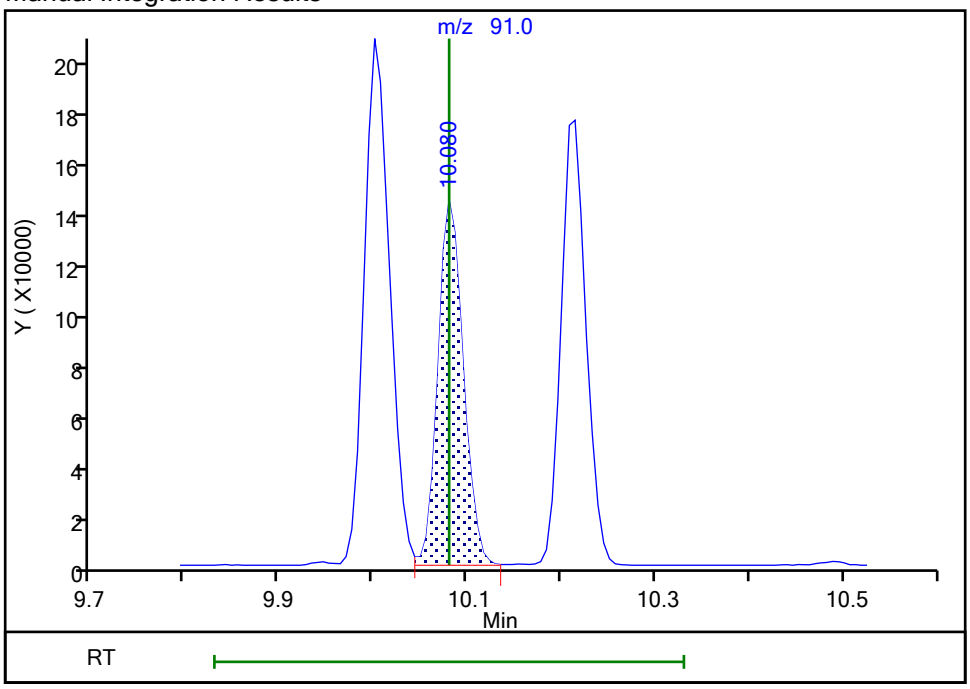
Processing Integration Results

RT: 10.21
Area: 318190
Amount: 52.325518
Amount Units: ug/l



Manual Integration Results

RT: 10.08
Area: 264536
Amount: 47.843465
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:07:38
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

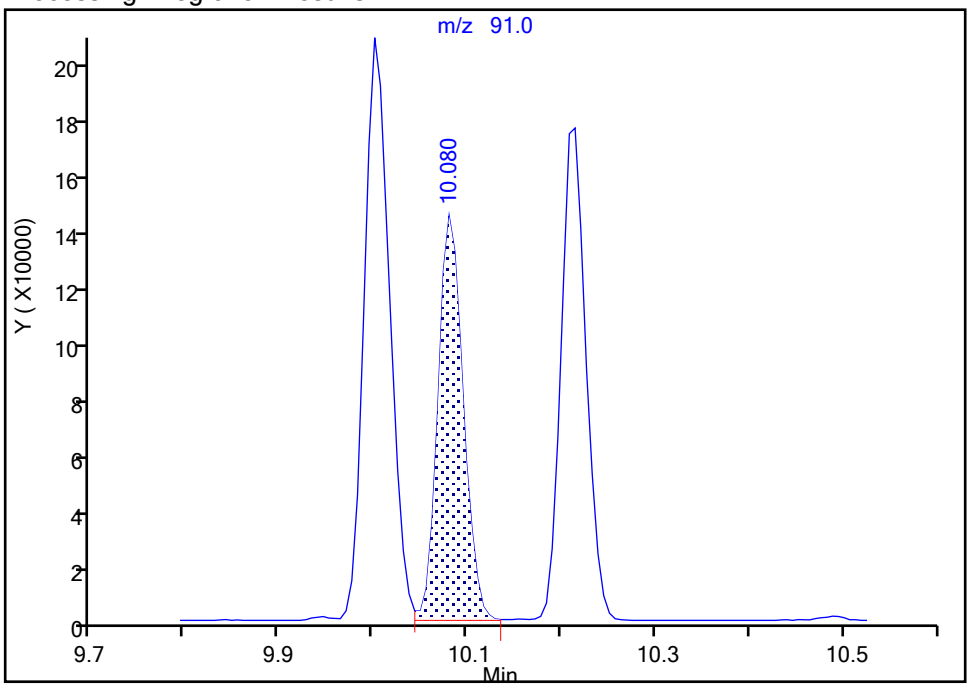
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3732.D
Injection Date: 09-Nov-2020 05:43:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

85 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

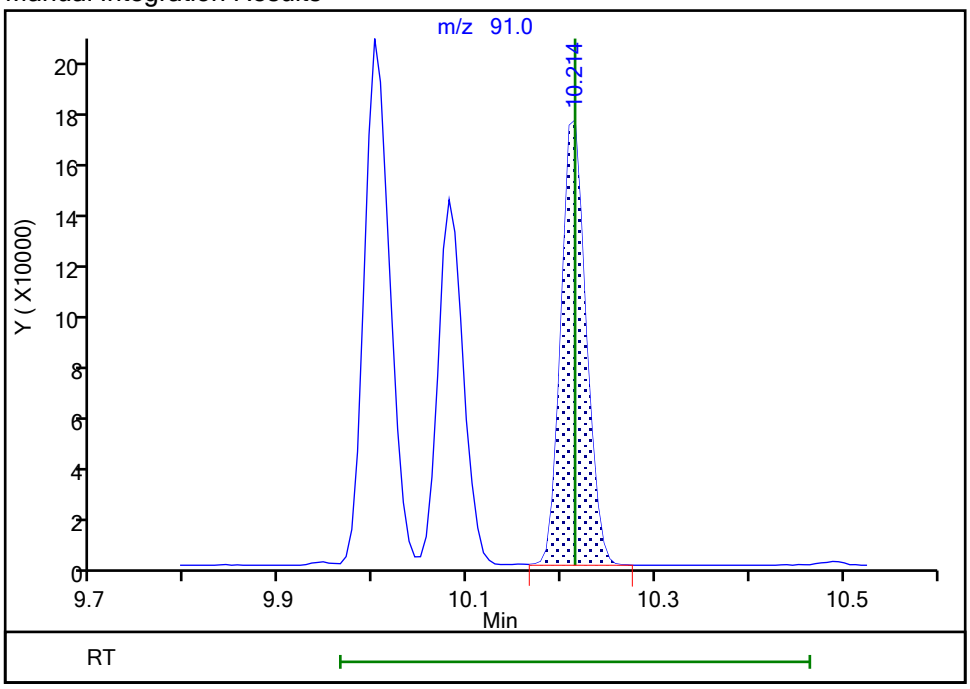
Processing Integration Results

RT: 10.08
Area: 264536
Amount: 51.396096
Amount Units: ug/l



Manual Integration Results

RT: 10.21
Area: 318190
Amount: 49.472072
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 06:07:26
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 09-Nov-2020 06:05:30 ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:13:11 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 08:03:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	48408	1000.0	1000.0	M
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	77245	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	29	6070	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.349	8.349	0.000	89	59609	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	49	29057	50.0	50.0	
17 Ethanol	45	2.167	2.167	0.000	99	280323	4000.0	3879.0	
18 Ethyl ether	59	2.228	2.228	0.000	92	204712	100.0	102.1	
19 Acrolein	56	2.338	2.338	0.000	98	409458	476.4	501.1	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	90	173013	100.0	96.4	M
21 112TCTFE	101	2.429	2.429	0.000	92	138673	100.0	98.5	M
22 Acetone	43	2.490	2.490	0.000	97	353907	200.0	199.8	
23 Iodomethane	142	2.539	2.539	0.000	99	118019	100.0	102.5	
24 Carbon disulfide	76	2.588	2.588	0.000	97	503577	100.0	105.1	
105 Isopropyl alcohol	45	2.673	2.673	0.000	99	300859	1000.0	977.4	
118 Acetonitrile	40	2.746	2.746	0.000	94	525751	1000.0	1011.3	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	86	90665	100.0	119.6	
26 Methyl acetate	43	2.807	2.807	0.000	99	792846	200.0	207.6	
27 Methylene Chloride	84	2.874	2.874	0.000	85	196614	100.0	101.4	
35 2-Methyl-2-propanol	59	3.057	3.057	0.000	96	252387	1000.0	936.6	
30 Acrylonitrile	53	3.130	3.130	0.000	98	2210237	1000.0	996.2	
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	89	198558	100.0	100.6	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	89	400305	100.0	96.0	
31 Hexane	57	3.405	3.405	0.000	94	209344	100.0	97.2	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	462987	100.0	103.8	
33 Vinyl acetate	86	3.618	3.618	0.000	96	100311	200.0	202.1	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	90	487874	100.0	103.9	
36 Isopropyl ether	87	3.642	3.642	0.000	86	119352	100.0	136.3	
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	96	766153	100.0	98.9	M
38 2,2-Dichloropropane	77	4.075	4.075	0.000	84	256381	100.0	102.3	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	89	248188	100.0	103.1	
40 2-Butanone (MEK)	43	4.130	4.130	0.000	95	380615	200.0	199.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.185	4.185	0.000	99	868841	1000.0	997.5	
104 Ethyl acetate	43	4.203	4.203	0.000	98	1030317	200.0	221.0	
42 Chlorobromomethane	128	4.313	4.313	0.000	76	107151	100.0	103.2	
43 Methacrylonitrile	67	4.331	4.331	0.000	95	1156781	1000.0	1053.3	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	54138	200.0	203.2	
45 Chloroform	83	4.404	4.404	0.000	94	351725	100.0	99.9	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	96	320400	100.0	104.3	M
47 Cyclohexane	56	4.606	4.606	0.000	90	596912	100.0	102.7	M
48 Carbon tetrachloride	117	4.715	4.709	0.006	95	205227	100.0	103.0	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	82	265540	100.0	98.8	
50 Benzene	78	4.917	4.917	0.000	90	795657	100.0	99.4	
108 Isobutyl alcohol	43	4.917	4.917	0.000	95	461495	2500.0	2573.6	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	93	325972	100.0	103.7	
116 n-Butanol	56	5.008	5.008	0.000	53	378133	2500.0	2461.2	
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	93	433959	100.0	99.8	
53 n-Heptane	43	5.209	5.209	0.000	94	360534	100.0	107.5	
54 Trichloroethene	132	5.557	5.557	0.000	93	233133	100.0	97.5	
117 Ethyl acrylate	55	5.709	5.709	0.000	97	343693	100.0	109.1	a
114 Methylcyclohexane	83	5.740	5.740	0.000	94	282561	100.0	105.4	a
55 1,2-Dichloropropane	63	5.776	5.776	0.000	94	255384	100.0	106.8	
56 Dibromomethane	93	5.892	5.892	0.000	97	101897	100.0	102.0	
57 Methyl methacrylate	69	5.935	5.935	0.000	87	299686	200.0	213.1	
115 1,4-Dioxane	58	5.941	5.941	0.000	82	63217	2000.0	1916.6	
58 Dichlorobromomethane	83	6.063	6.063	0.000	94	175106	100.0	112.8	
106 2-Nitropropane	43	6.307	6.307	0.000	96	244034	200.0	197.0	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	81	171121	100.0	114.0	
60 cis-1,3-Dichloropropene	75	6.526	6.526	0.000	83	115233	100.0	83.2	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	97	821504	200.0	201.2	
62 Toluene	92	6.867	6.867	0.000	97	525941	100.0	103.4	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	88	98258	100.0	90.8	
64 Ethyl methacrylate	69	7.239	7.239	0.000	86	235589	100.0	102.1	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	93	131682	100.0	102.7	
66 Tetrachloroethene	166	7.440	7.440	0.000	95	199691	100.0	104.0	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	170867	100.0	76.2	
68 2-Hexanone	43	7.599	7.599	0.000	98	548576	200.0	198.6	
69 Chlorodibromomethane	129	7.709	7.709	0.000	89	102467	100.0	114.0	
109 n-Butyl acetate	43	7.757	7.757	0.000	96	637710	100.0	99.9	
70 Ethylene Dibromide	107	7.818	7.818	0.000	97	58394	100.0	48.8	
71 Chlorobenzene	112	8.373	8.373	0.000	91	551158	100.0	98.6	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	95	183457	100.0	98.3	
73 Ethylbenzene	91	8.513	8.513	0.000	98	803636	100.0	104.0	
74 m-Xylene & p-Xylene	106	8.648	8.648	0.000	98	313470	100.0	102.4	
75 o-Xylene	106	9.093	9.093	0.000	98	292494	100.0	101.4	
76 Styrene	104	9.111	9.111	0.000	92	494543	100.0	99.3	
77 Bromoform	173	9.294	9.294	0.000	95	48916	100.0	105.6	
78 Isopropylbenzene	105	9.525	9.525	0.000	96	675150	100.0	98.7	
79 Bromobenzene	156	9.842	9.842	0.000	89	202446	100.0	99.0	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	96	182713	100.0	96.9	
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	92	145966	100.0	98.6	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	80	32130	100.0	85.7	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	761267	100.0	100.2	
84 2-Chlorotoluene	91	10.080	10.080	0.000	95	537117	100.0	98.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.214	10.214	0.000	99	618069	100.0	97.6	
86 1,3,5-Trimethylbenzene	105	10.220	10.220	0.000	95	600246	100.0	93.5	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	886178	100.0	104.0	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	538436	100.0	91.2	
89 sec-Butylbenzene	105	10.854	10.854	0.000	95	627457	100.0	91.5	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	97	360671	100.0	99.6	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	97	457343	100.0	97.4	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	94	372512	100.0	99.3	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	528098	100.0	97.7	
113 Benzyl chloride	126	11.238	11.238	0.000	99	31858	100.0	110.0	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	333066	100.0	98.7	
94 n-Butylbenzene	91	11.525	11.525	0.000	99	404329	100.0	95.5	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	77	20867	100.0	96.7	
112 1,3,5-Trichlorobenzene	180	12.696	12.696	0.000	96	199790	100.0	96.0	
96 1,2,4-Trichlorobenzene	180	13.439	13.439	0.000	94	172879	100.0	99.4	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	74796	100.0	96.1	
98 Naphthalene	128	13.726	13.726	0.000	97	581556	100.0	103.4	
99 1,2,3-Trichlorobenzene	180	14.025	14.025	0.000	95	154785	100.0	98.6	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		200.0	203.7	
S 100 Xylenes, Total	1				0		200.0	203.9	
S 102 1,3-Dichloropropene, Total	1				0		200.0	174.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00219	Amount Added: 100.00	Units: uL

Report Date: 10-Nov-2020 04:13:14 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D

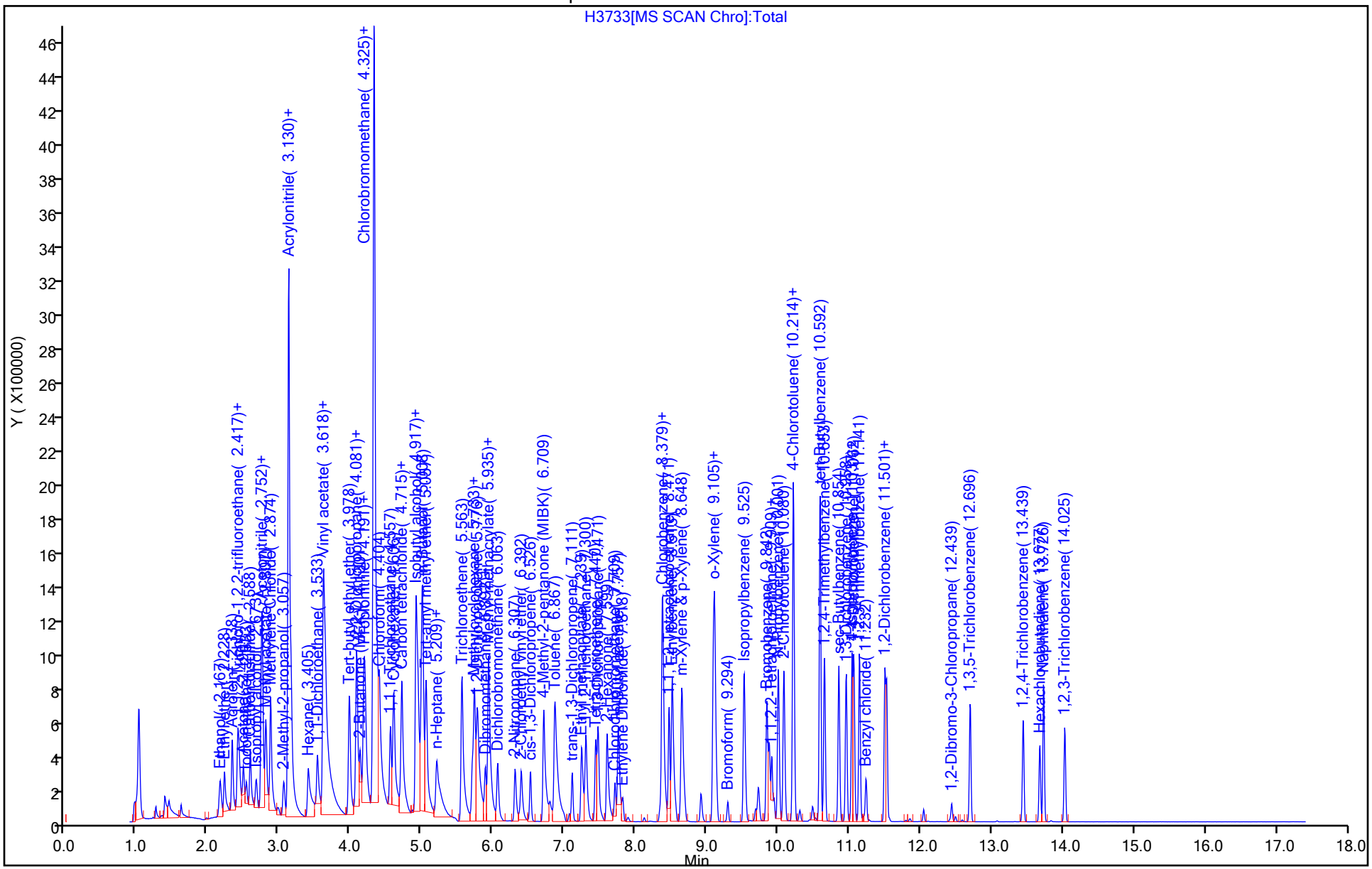
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes Operator ID:

Lims ID: icis Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

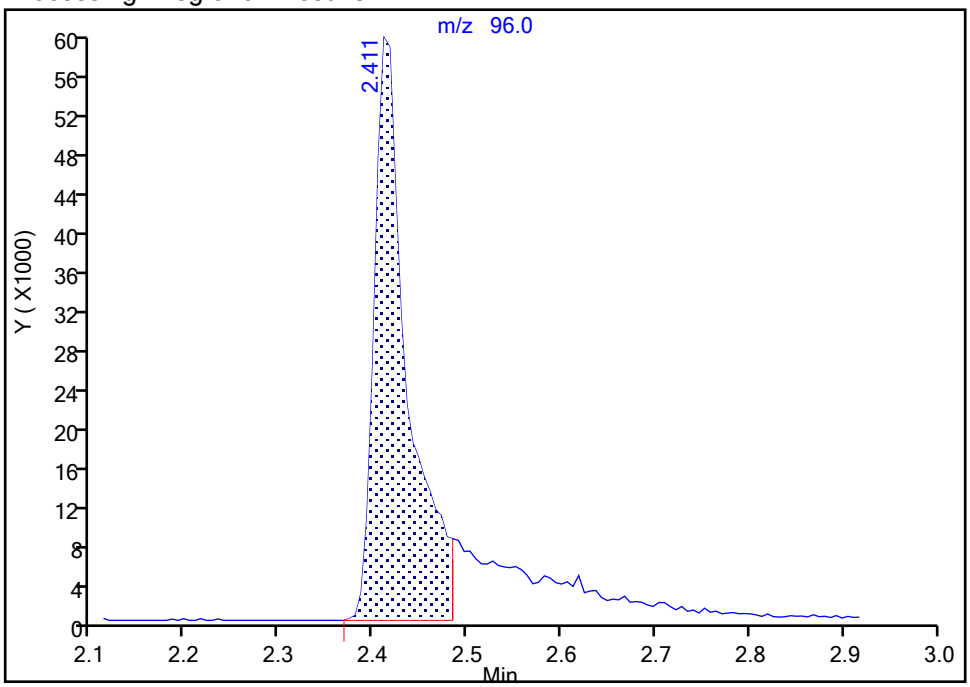
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

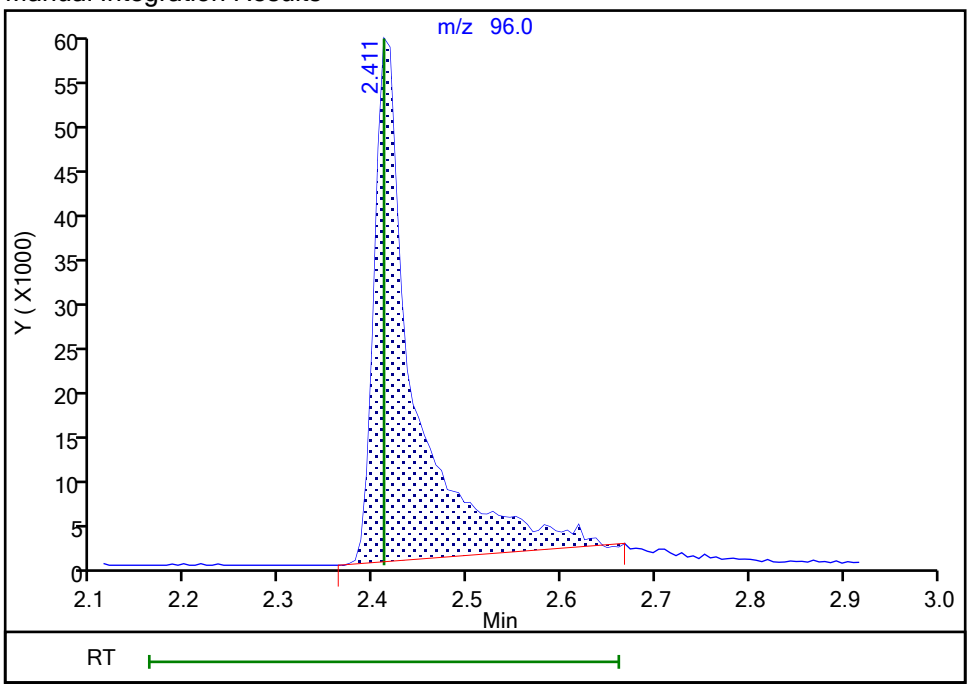
Processing Integration Results

RT: 2.41
Area: 147183
Amount: 3.728720
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 173013
Amount: 96.423079
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:03:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

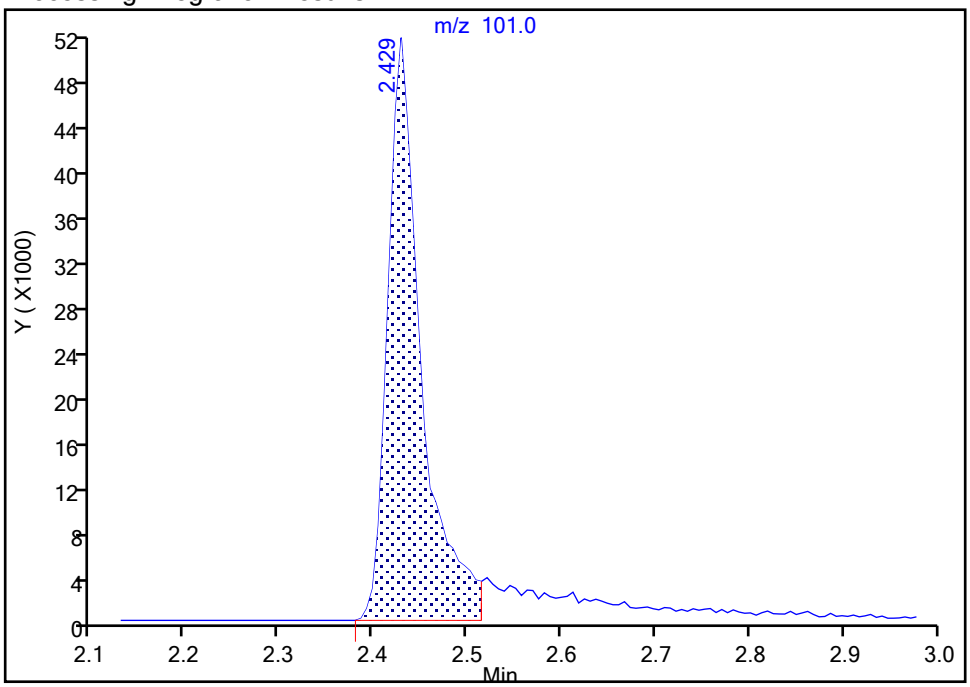
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

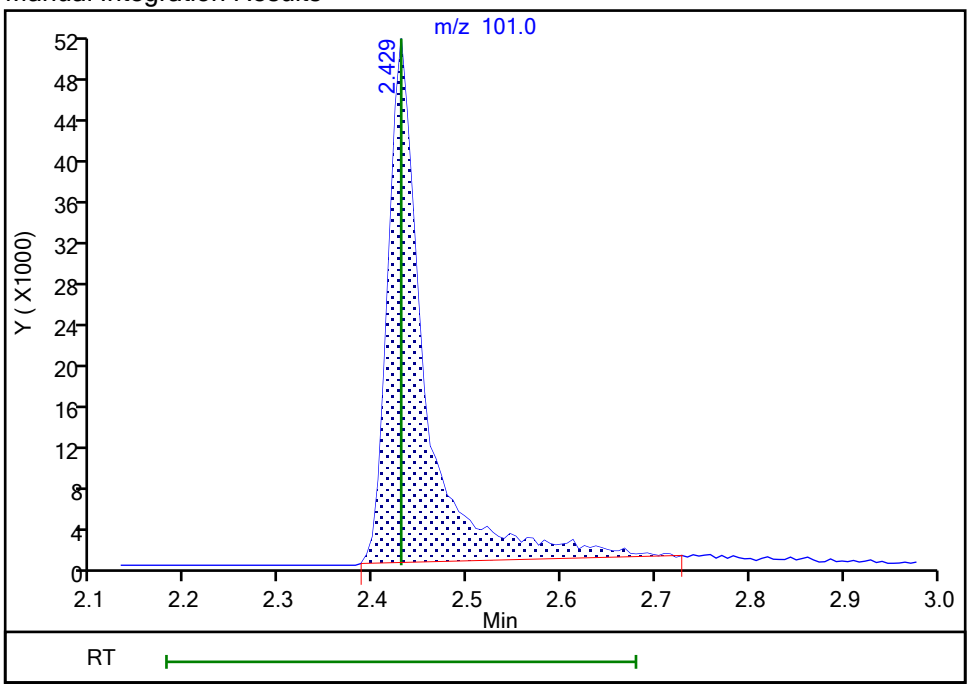
Processing Integration Results

RT: 2.43
Area: 126489
Amount: 4.973391
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 138673
Amount: 98.458249
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:03:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

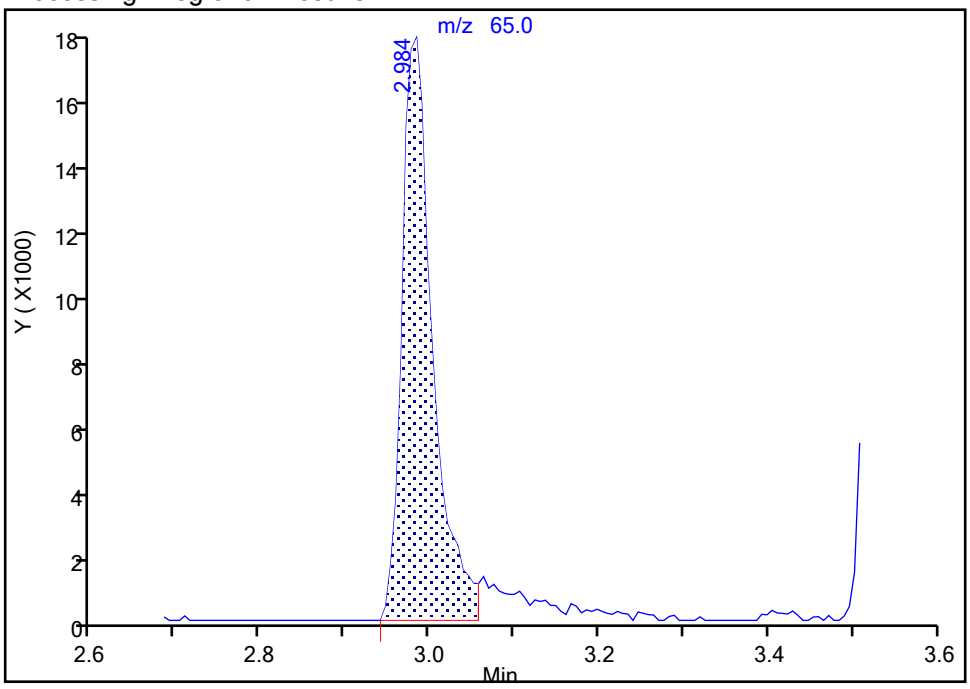
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 135 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

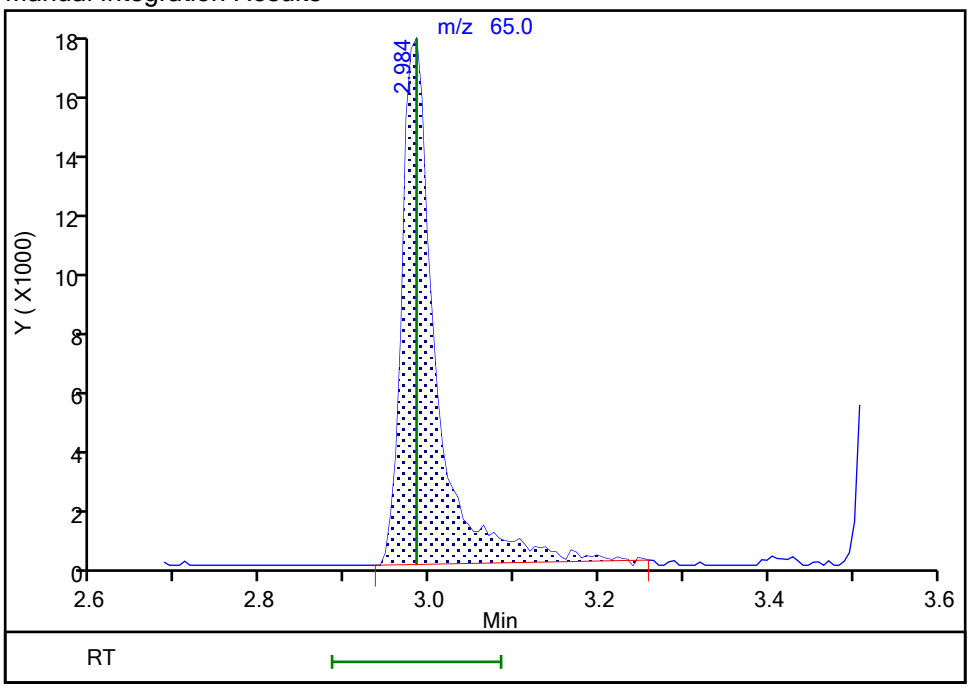
Processing Integration Results

RT: 2.98
Area: 44304
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 48408
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:03:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

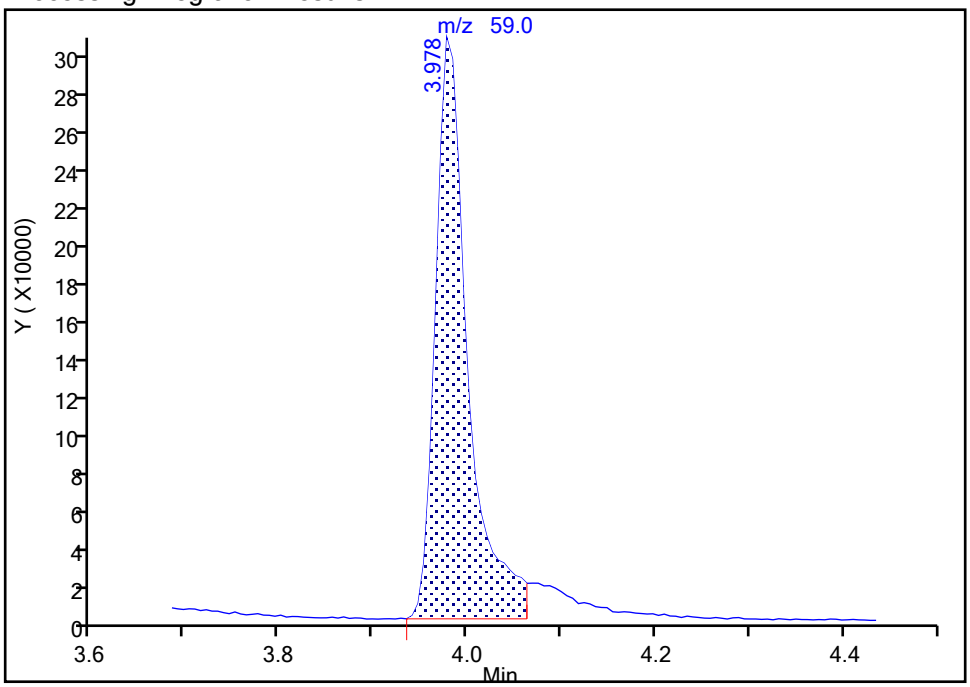
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

37 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

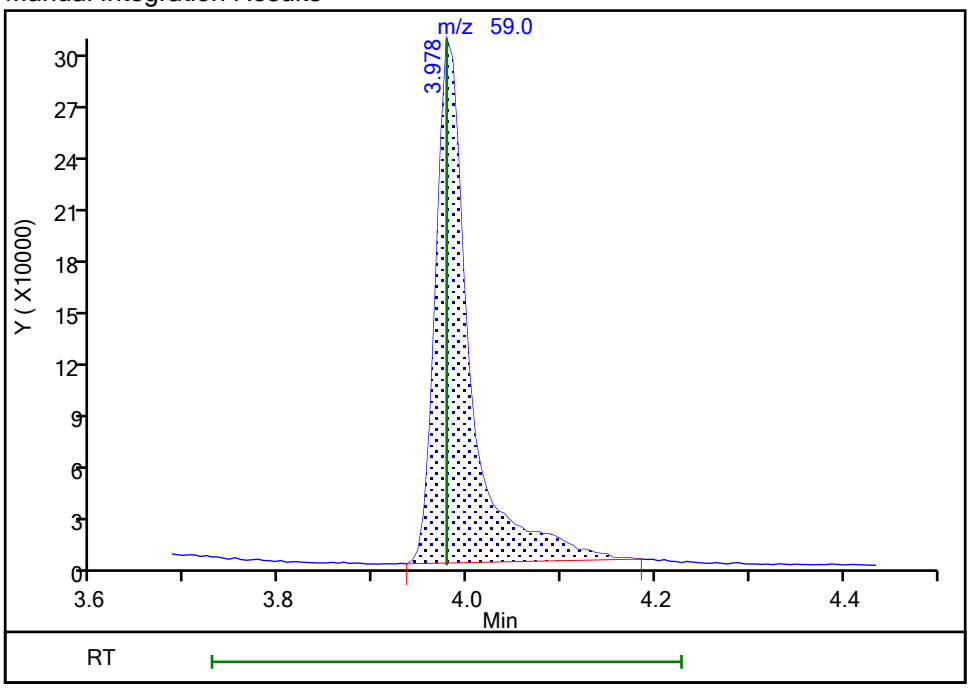
Processing Integration Results

RT: 3.98
Area: 719496
Amount: 4.961154
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 766153
Amount: 98.865460
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:02:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

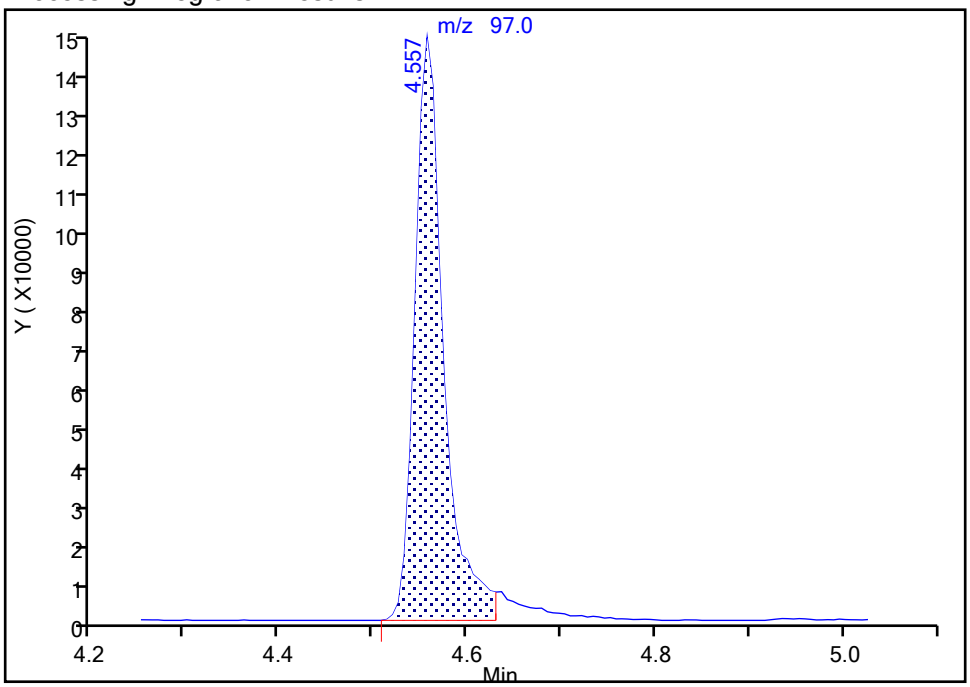
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

46 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

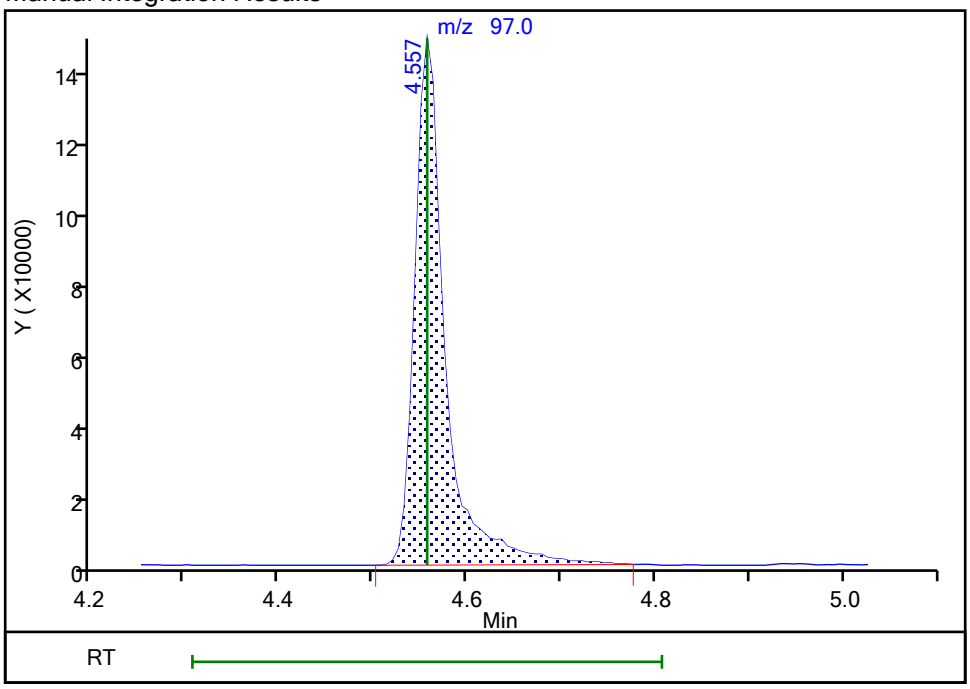
Processing Integration Results

RT: 4.56
Area: 304117
Amount: 4.516741
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 320400
Amount: 104.3273
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:02:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

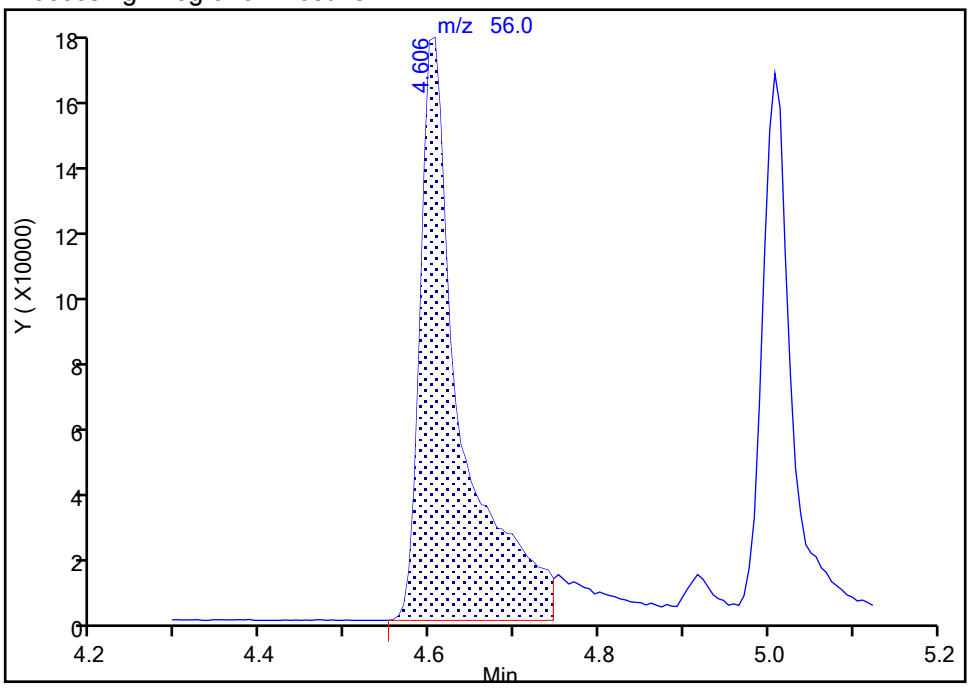
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

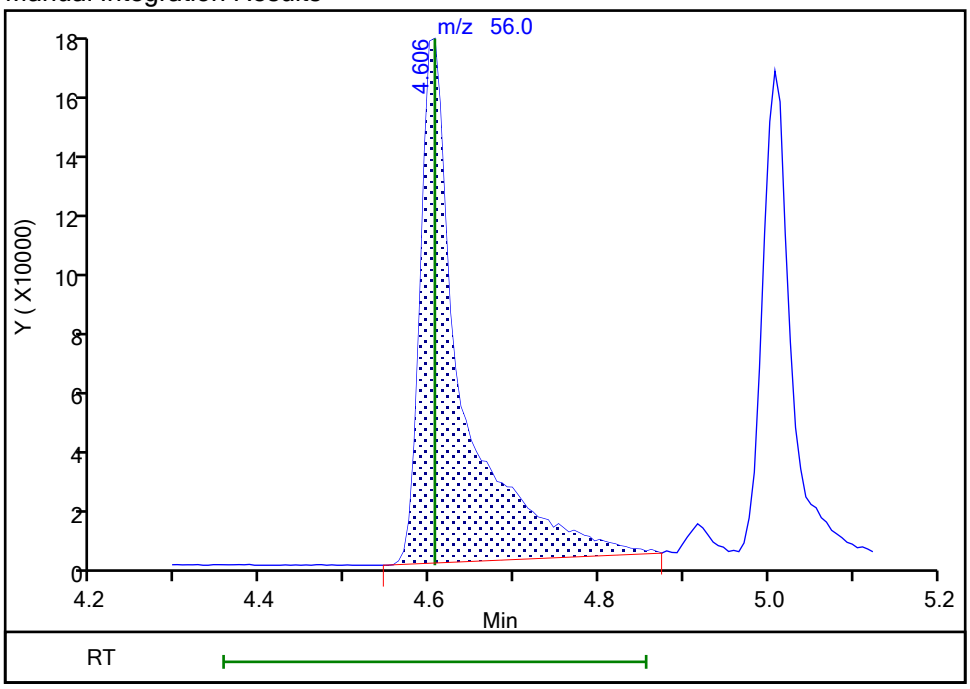
Processing Integration Results

RT: 4.61
Area: 577058
Amount: 4.054841
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 596912
Amount: 102.6941
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:02:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

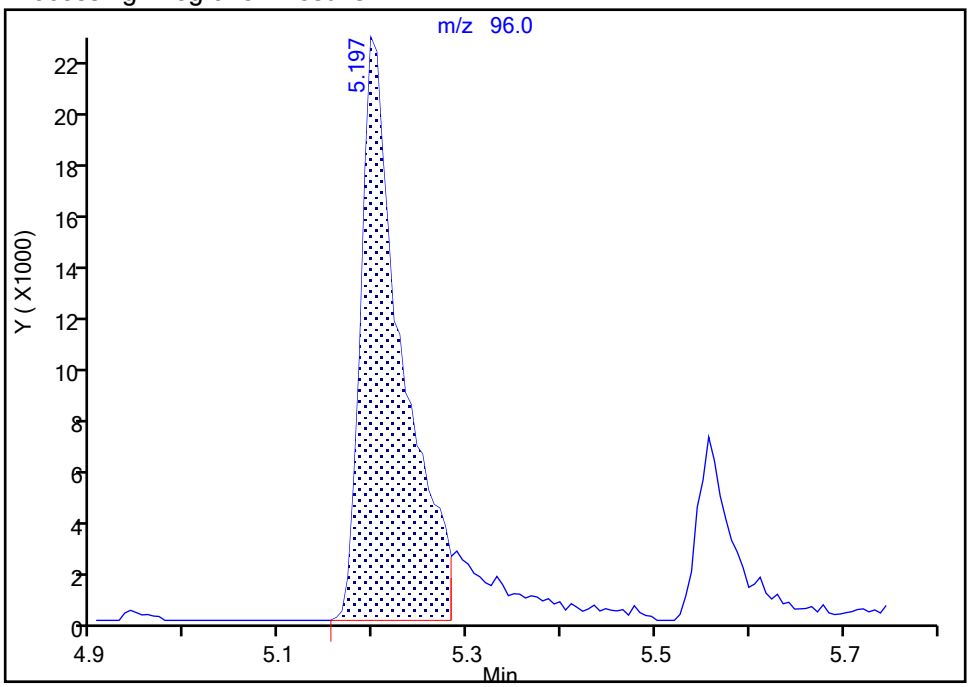
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

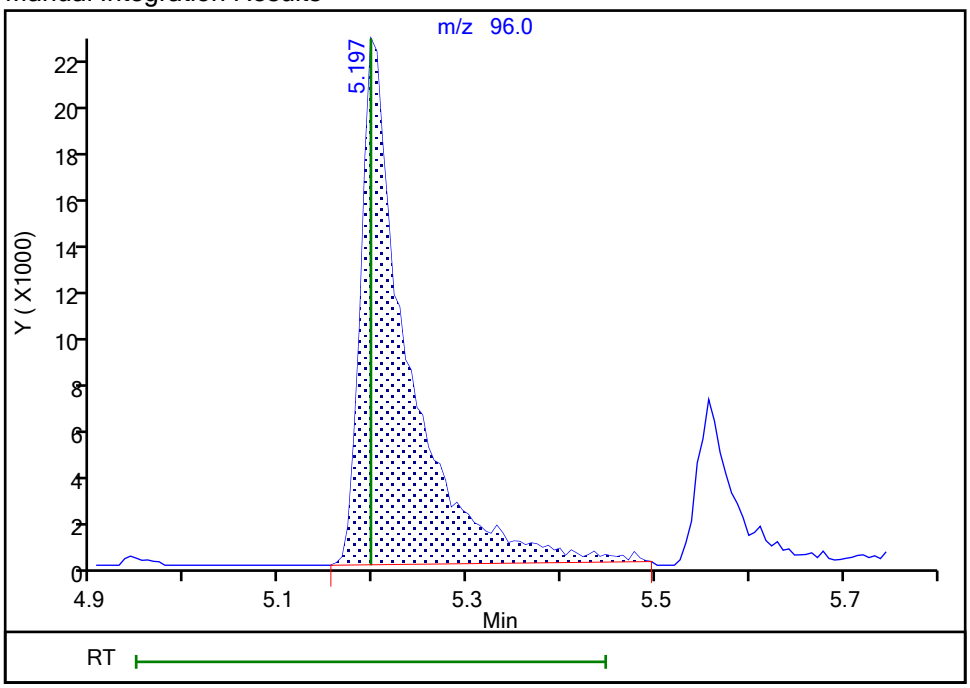
Processing Integration Results

RT: 5.20
Area: 67396
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 77245
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:03:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

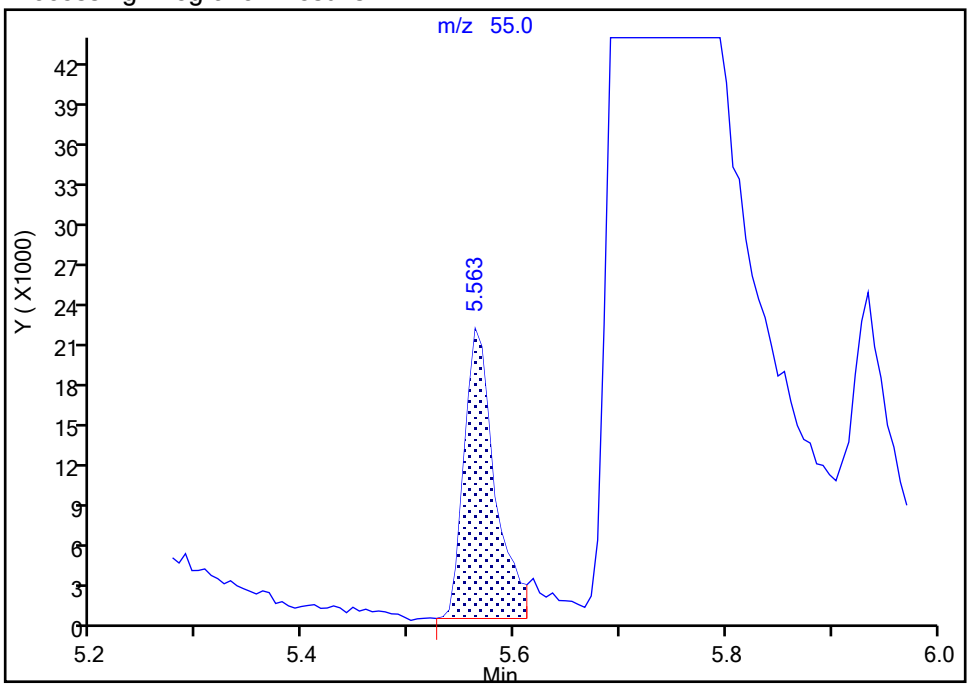
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

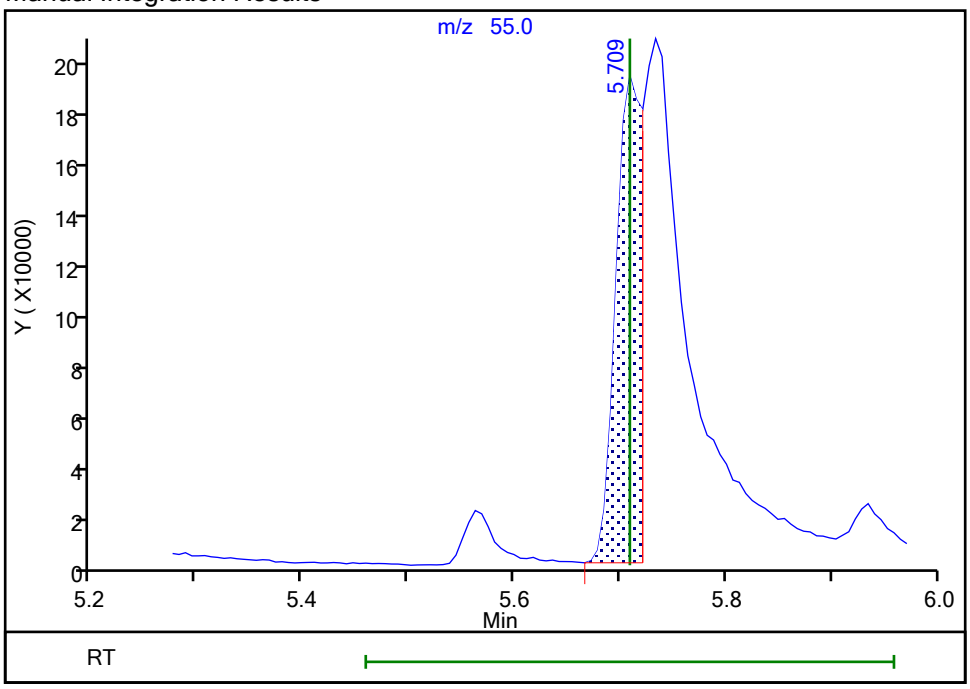
Processing Integration Results

RT: 5.56
Area: 43367
Amount: 3.437045
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 343693
Amount: 109.1001
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:02:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

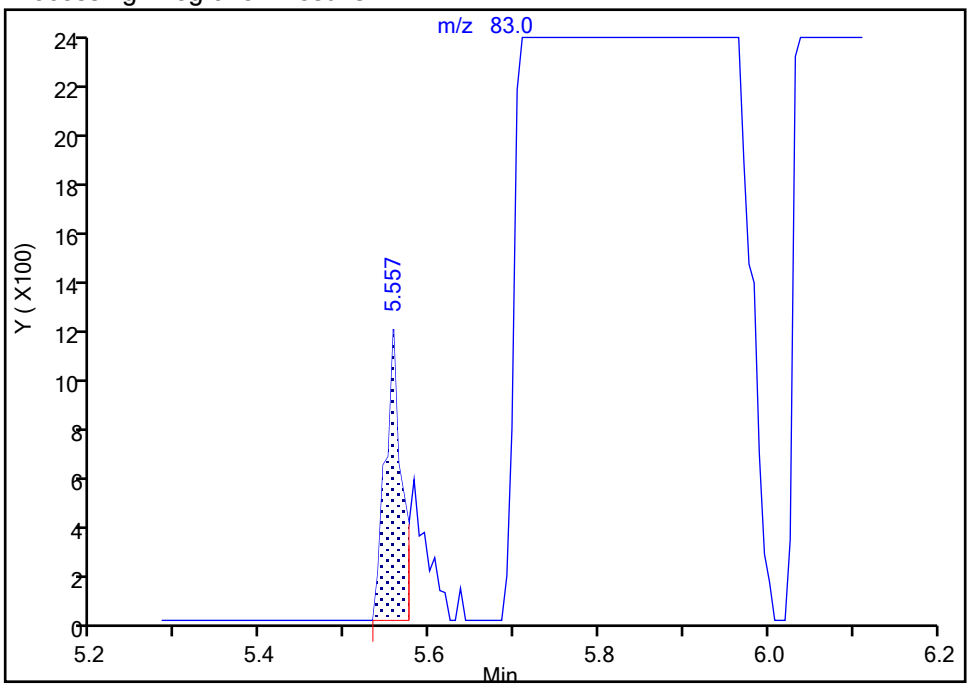
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3733.D
Injection Date: 09-Nov-2020 06:05:30 Instrument ID: Hobbes
Lims ID: icis
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

114 Methylcyclohexane, CAS: 108-87-2

Signal: 1

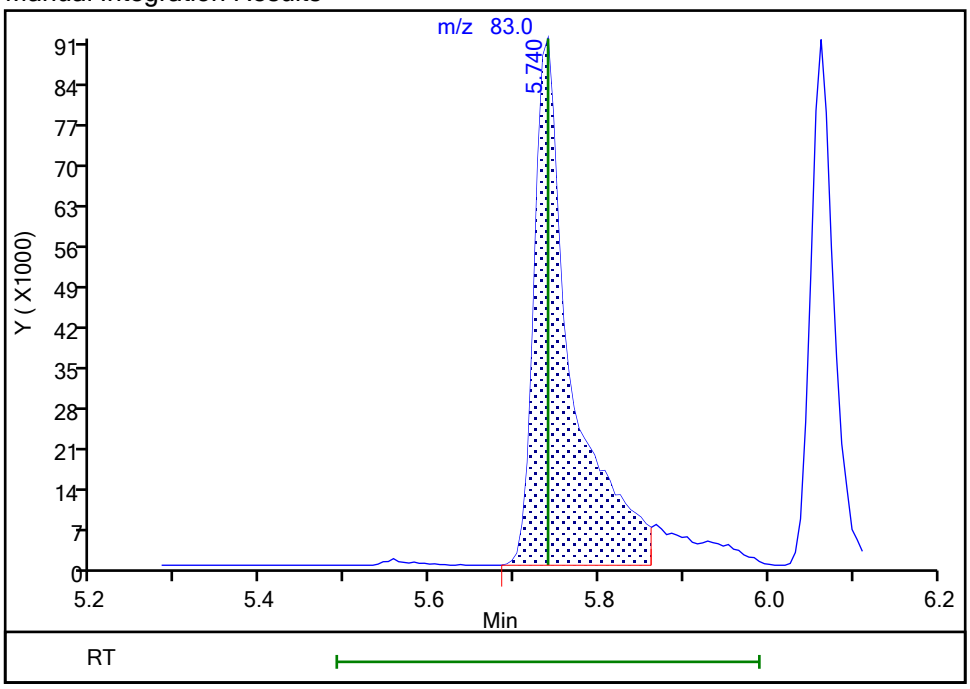
Processing Integration Results

RT: 5.56
Area: 1505
Amount: 0.828282
Amount Units: ug/l



Manual Integration Results

RT: 5.74
Area: 282561
Amount: 105.4330
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:02:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 09-Nov-2020 06:28:30 ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:13:25 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 08:05:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	49497	1000.0	1000.0	M
* 122 Fluorobenzene	96	5.197	5.197	0.000	96	77831	50.0	50.0	Ma
* 121 1,4-Dioxane-d8	96	5.898	5.892	0.006	32	7807	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.343	8.349	-0.006	87	59818	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	49	30006	50.0	50.0	
17 Ethanol	45	2.167	2.167	0.000	99	434124	6000.0	5962.0	
18 Ethyl ether	59	2.228	2.228	0.000	92	345323	150.0	171.0	
19 Acrolein	56	2.338	2.338	0.000	99	646551	714.6	785.2	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	288667	150.0	159.4	M
21 112TCTFE	101	2.429	2.429	0.000	93	205524	150.0	144.8	M
22 Acetone	43	2.490	2.490	0.000	97	528109	300.0	295.9	
23 Iodomethane	142	2.533	2.539	-0.006	99	175135	150.0	153.9	
24 Carbon disulfide	76	2.588	2.588	0.000	97	789228	150.0	163.4	
105 Isopropyl alcohol	45	2.673	2.673	0.000	99	474574	1500.0	1530.1	
118 Acetonitrile	40	2.746	2.746	0.000	94	801955	1500.0	1531.0	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	86	129770	150.0	169.9	
26 Methyl acetate	43	2.807	2.807	0.000	99	1248009	300.0	324.4	
27 Methylene Chloride	84	2.874	2.874	0.000	85	318411	150.0	162.9	
35 2-Methyl-2-propanol	59	3.057	3.057	0.000	97	370431	1500.0	1364.2	
30 Acrylonitrile	53	3.130	3.130	0.000	98	3434642	1500.0	1535.6	
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	89	302900	150.0	152.3	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	90	566872	150.0	135.0	
31 Hexane	57	3.405	3.405	0.000	95	299817	150.0	138.2	Ma
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	690382	150.0	153.6	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	91	766489	150.0	161.9	M
33 Vinyl acetate	86	3.618	3.618	0.000	96	152513	300.0	301.0	
36 Isopropyl ether	87	3.642	3.642	0.000	86	174759	150.0	198.0	M
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	95	1197986	150.0	153.4	
38 2,2-Dichloropropane	77	4.075	4.075	0.000	85	385458	150.0	152.6	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	89	410881	150.0	169.4	
40 2-Butanone (MEK)	43	4.136	4.130	0.006	96	575522	300.0	299.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.185	4.185	0.000	99	1350444	1500.0	1538.7	
104 Ethyl acetate	43	4.203	4.203	0.000	98	1594684	300.0	339.4	
42 Chlorobromomethane	128	4.313	4.313	0.000	76	174249	150.0	166.5	
43 Methacrylonitrile	67	4.331	4.331	0.000	95	1815798	1500.0	1640.9	
44 Tetrahydrofuran	71	4.374	4.374	0.000	92	86299	300.0	321.4	
45 Chloroform	83	4.404	4.404	0.000	94	553511	150.0	156.0	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	96	484969	150.0	156.7	
47 Cyclohexane	56	4.606	4.606	0.000	90	886870	150.0	151.4	
48 Carbon tetrachloride	117	4.715	4.709	0.006	95	305140	150.0	152.0	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	82	434026	150.0	160.2	
50 Benzene	78	4.923	4.917	0.006	88	1253504	150.0	155.4	
108 Isobutyl alcohol	43	4.916	4.917	-0.001	94	715950	3750.0	3962.5	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	94	489842	150.0	154.6	
116 n-Butanol	56	5.008	5.008	0.000	45	553499	3750.0	3575.5	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	86	676730	150.0	154.4	
53 n-Heptane	43	5.209	5.209	0.000	93	527810	150.0	155.5	
54 Trichloroethene	132	5.557	5.557	0.000	93	373457	150.0	155.0	
117 Ethyl acrylate	55	5.709	5.709	0.000	97	507535	150.0	159.9	a
114 Methylcyclohexane	83	5.740	5.740	0.000	88	429373	150.0	159.0	a
55 1,2-Dichloropropane	63	5.776	5.776	0.000	93	356477	150.0	147.9	
56 Dibromomethane	93	5.892	5.892	0.000	95	157405	150.0	156.4	
57 Methyl methacrylate	69	5.935	5.935	0.000	87	495357	300.0	349.5	
115 1,4-Dioxane	58	5.941	5.941	0.000	73	104849	3000.0	2471.5	
58 Dichlorobromomethane	83	6.063	6.063	0.000	95	272674	150.0	174.4	
106 2-Nitropropane	43	6.306	6.307	-0.001	96	395499	300.0	312.2	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	81	257219	150.0	170.1	
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	83	162772	150.0	116.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	97	1273791	300.0	309.7	
62 Toluene	92	6.867	6.867	0.000	96	813644	150.0	158.7	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	89	144917	150.0	132.9	
64 Ethyl methacrylate	69	7.245	7.239	0.006	86	365630	150.0	156.7	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	94	203269	150.0	157.4	
66 Tetrachloroethene	166	7.440	7.440	0.000	95	325930	150.0	168.5	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	240421	150.0	106.4	
68 2-Hexanone	43	7.599	7.599	0.000	98	849948	300.0	305.4	
69 Chlorodibromomethane	129	7.709	7.709	0.000	89	159677	150.0	176.3	
109 n-Butyl acetate	43	7.757	7.757	0.000	96	993687	150.0	153.4	
70 Ethylene Dibromide	107	7.818	7.818	0.000	98	80069	150.0	66.4	
71 Chlorobenzene	112	8.373	8.373	0.000	90	844879	150.0	150.6	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	94	273589	150.0	146.1	
73 Ethylbenzene	91	8.513	8.513	0.000	98	1222687	150.0	157.7	
74 m-Xylene & p-Xylene	106	8.647	8.648	-0.001	97	477767	150.0	155.6	
75 o-Xylene	106	9.093	9.093	-0.001	98	454950	150.0	157.2	a
76 Styrene	104	9.111	9.111	0.000	89	757556	150.0	151.5	
77 Bromoform	173	9.294	9.294	0.000	96	79707	150.0	171.5	
78 Isopropylbenzene	105	9.525	9.525	0.000	96	1008624	150.0	147.0	
79 Bromobenzene	156	9.842	9.842	0.000	90	307620	150.0	149.8	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	96	285760	150.0	151.0	
81 1,2,3-Trichloropropane	75	9.916	9.909	0.007	92	215362	150.0	145.5	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	77	47577	150.0	126.4	
83 N-Propylbenzene	91	10.007	10.001	0.006	99	1156257	150.0	151.7	
84 2-Chlorotoluene	91	10.080	10.080	0.000	95	817215	150.0	149.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.214	10.214	0.000	99	941175	150.0	148.0	
86 1,3,5-Trimethylbenzene	105	10.220	10.220	0.000	95	901136	150.0	139.9	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	1323019	150.0	154.7	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	818013	150.0	138.1	
89 sec-Butylbenzene	105	10.854	10.854	0.000	95	931196	150.0	135.3	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	98	555042	150.0	153.0	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	97	668711	150.0	138.1	
92 1,4-Dichlorobenzene	146	11.068	11.062	0.006	94	561993	150.0	145.0	
110 1,2,3-Trimethylbenzene	105	11.147	11.141	0.006	98	788689	150.0	141.4	
113 Benzyl chloride	126	11.238	11.238	0.000	99	47017	150.0	157.1	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	517623	150.0	148.5	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	599618	150.0	137.2	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	79	31517	150.0	141.5	
112 1,3,5-Trichlorobenzene	180	12.695	12.696	-0.001	96	298449	150.0	139.0	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	95	246590	150.0	137.2	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	107882	150.0	134.2	
98 Naphthalene	128	13.732	13.726	0.006	97	839538	150.0	144.6	
99 1,2,3-Trichlorobenzene	180	14.024	14.025	-0.001	96	228407	150.0	140.9	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		300.0	321.7	
S 100 Xylenes, Total	1				0		300.0	312.8	
S 102 1,3-Dichloropropene, Total	1				0		300.0	249.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

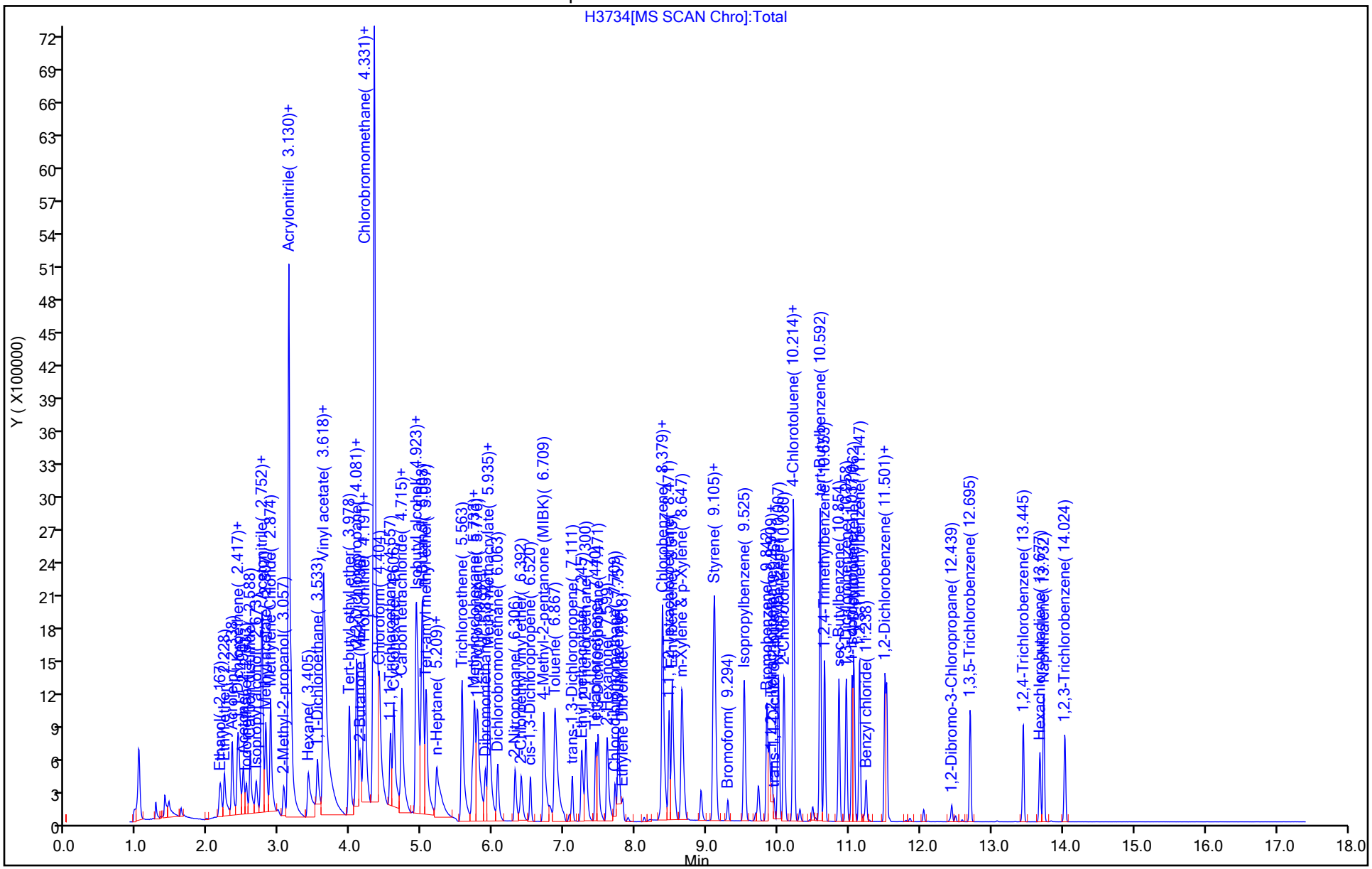
VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00219	Amount Added: 150.00	Units: uL

Report Date: 10-Nov-2020 04:13:28 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D

Injection Date:	09-Nov-2020 06:28:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std9			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

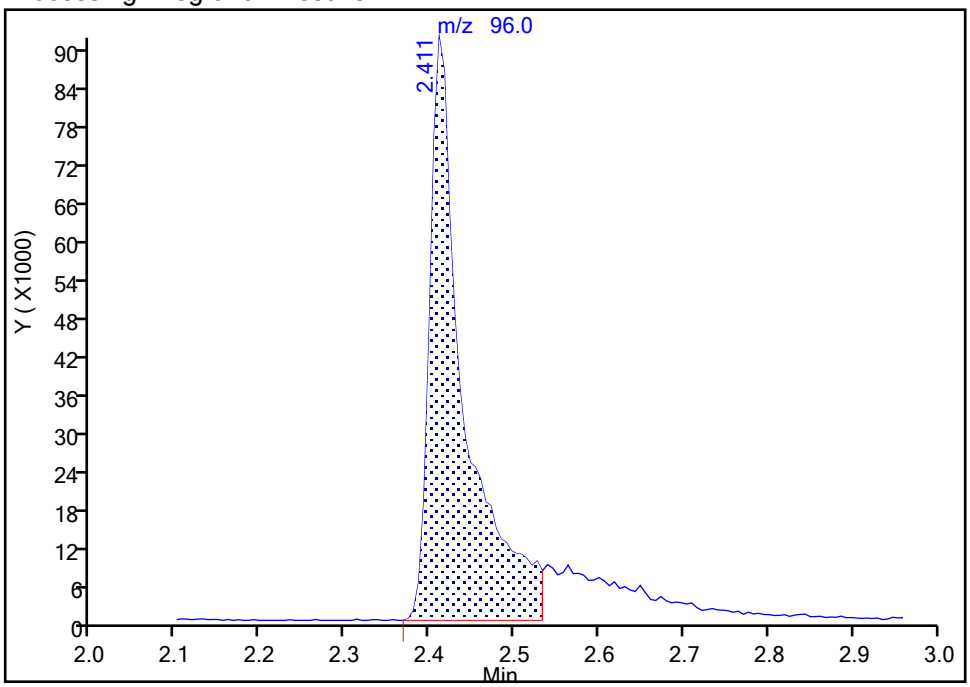
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

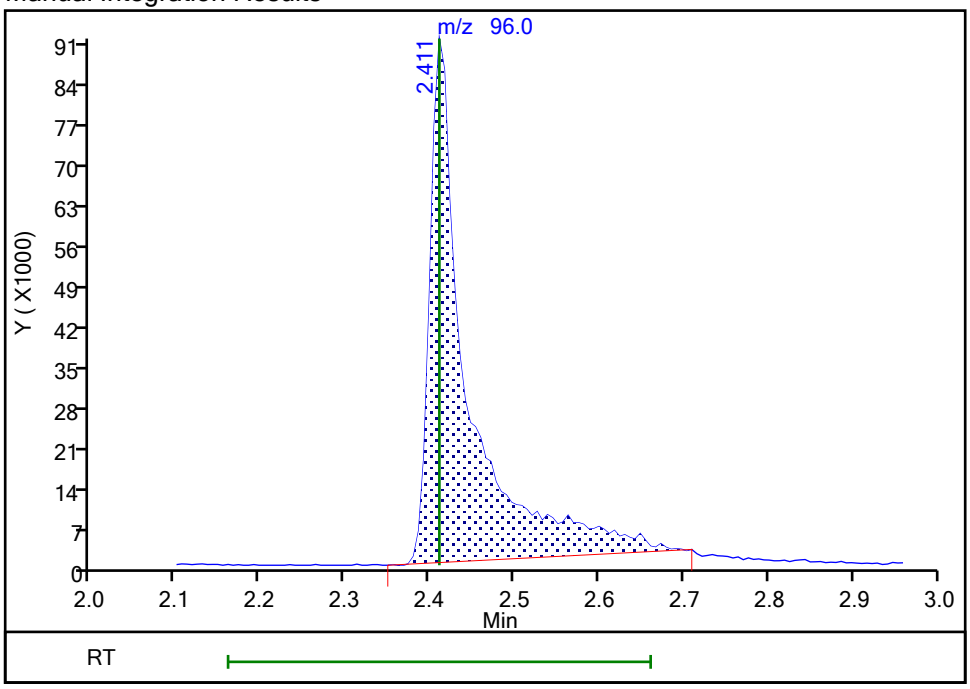
Processing Integration Results

RT: 2.41
Area: 261820
Amount: 6.293294
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 288667
Amount: 159.3935
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:04:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

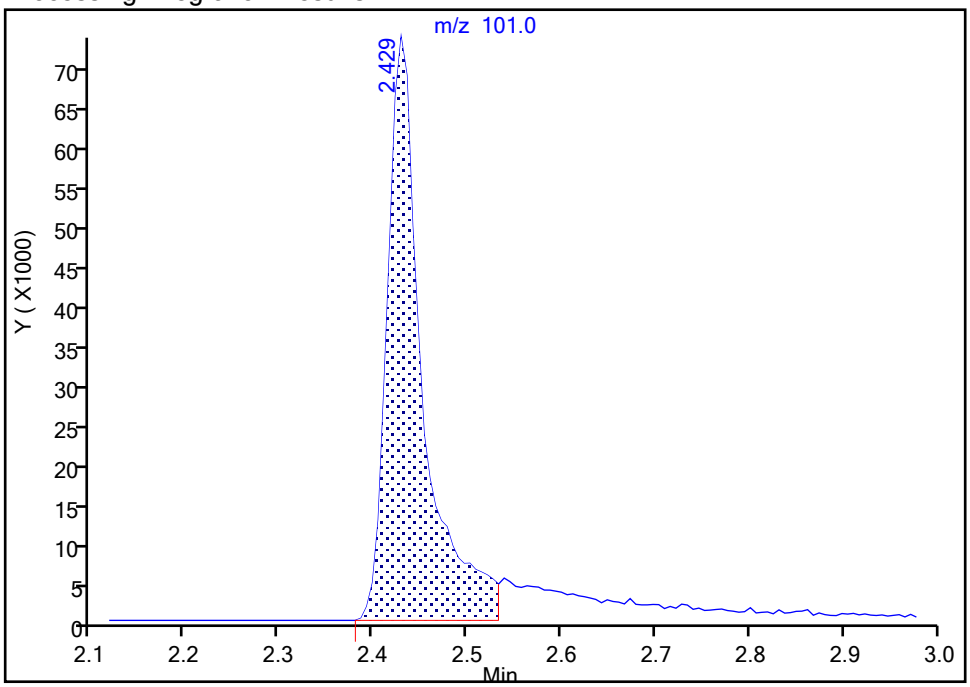
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

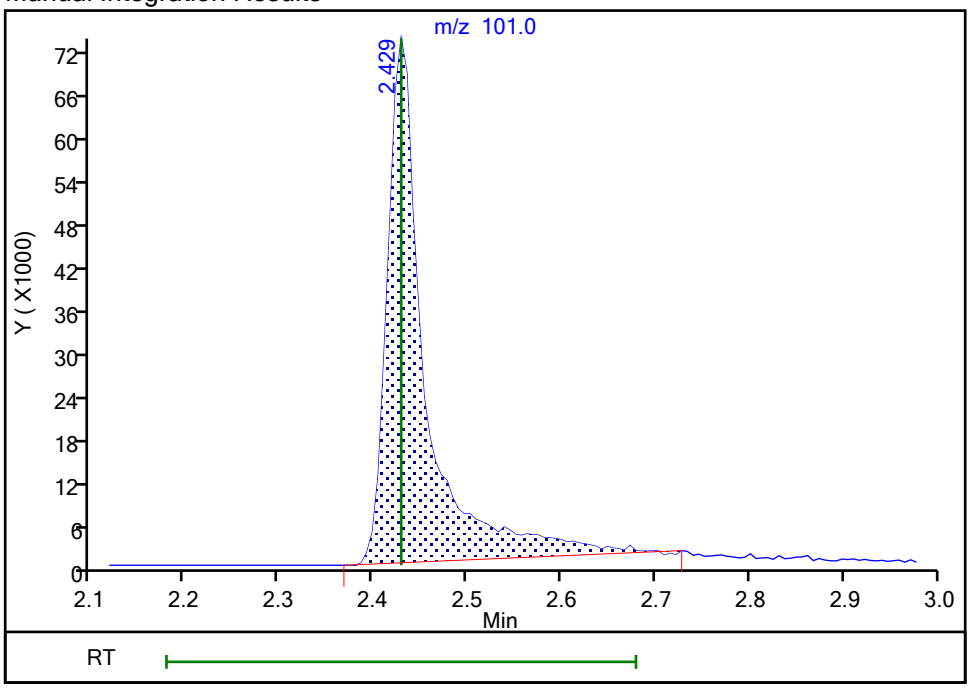
Processing Integration Results

RT: 2.43
Area: 193068
Amount: 7.200767
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 205524
Amount: 144.8240
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:04:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

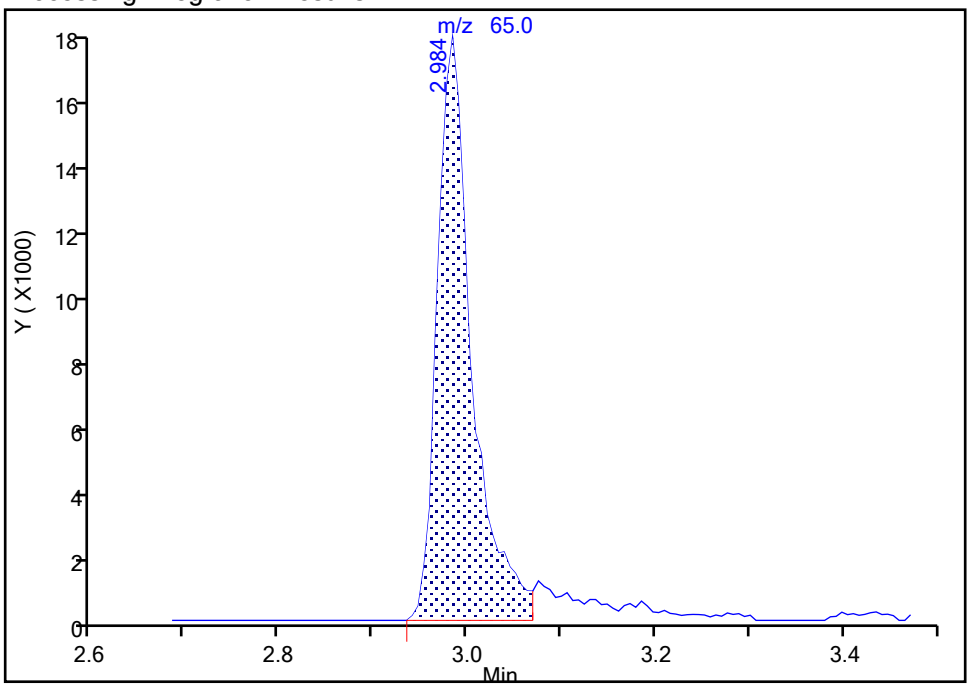
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 135 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

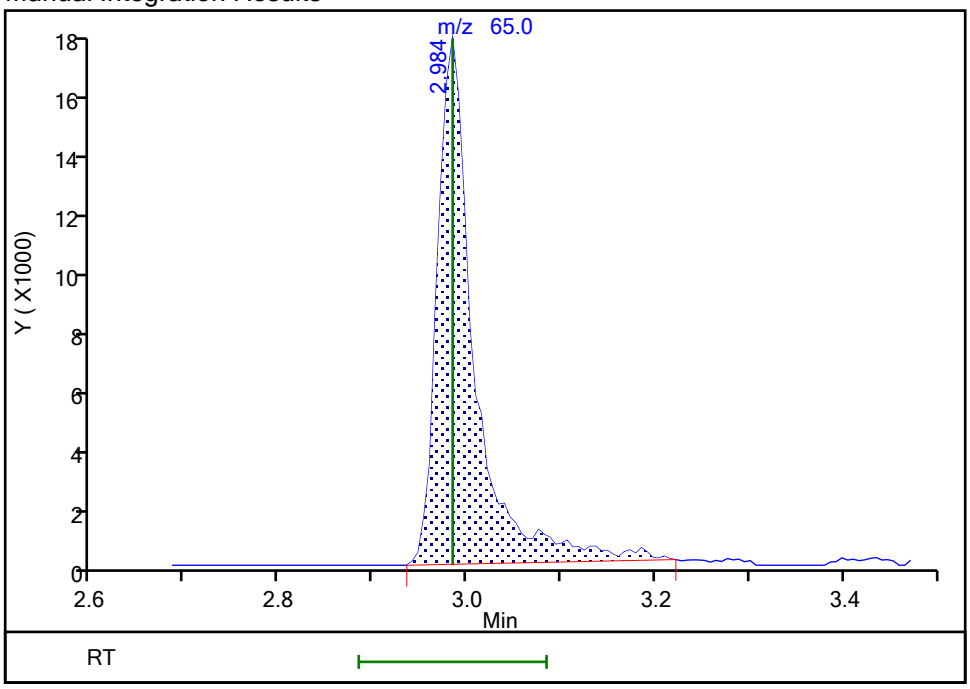
Processing Integration Results

RT: 2.98
Area: 46125
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 49497
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:04:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

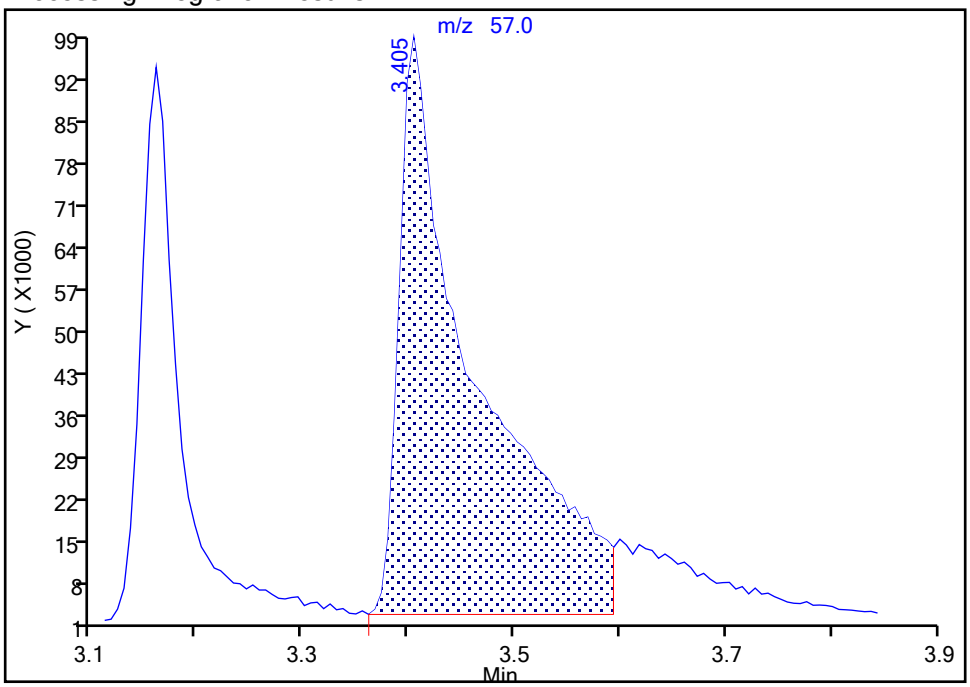
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

31 Hexane, CAS: 110-54-3

Signal: 1

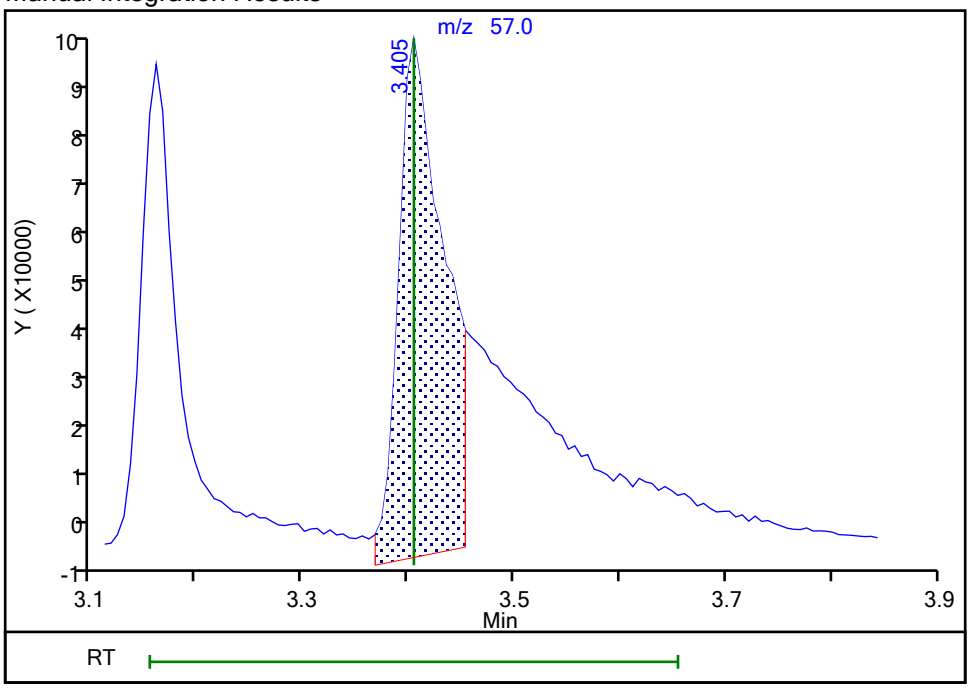
Processing Integration Results

RT: 3.40
Area: 482816
Amount: 219.2437
Amount Units: ug/l



Manual Integration Results

RT: 3.40
Area: 299817
Amount: 138.1652
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 04:07:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

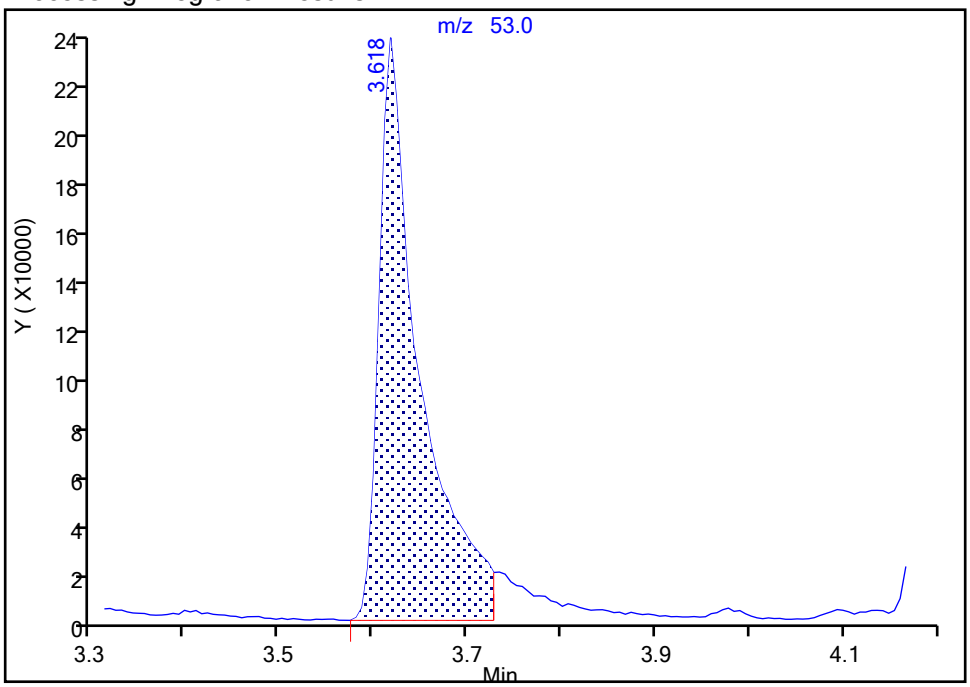
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

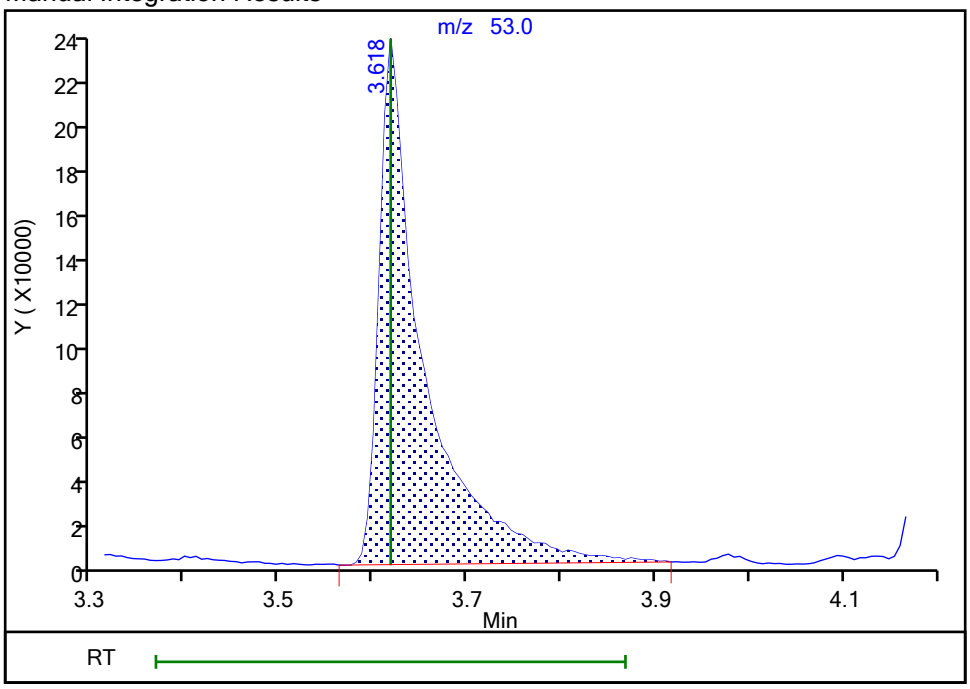
Processing Integration Results

RT: 3.62
Area: 706690
Amount: 6.130371
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 766489
Amount: 161.9346
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:04:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

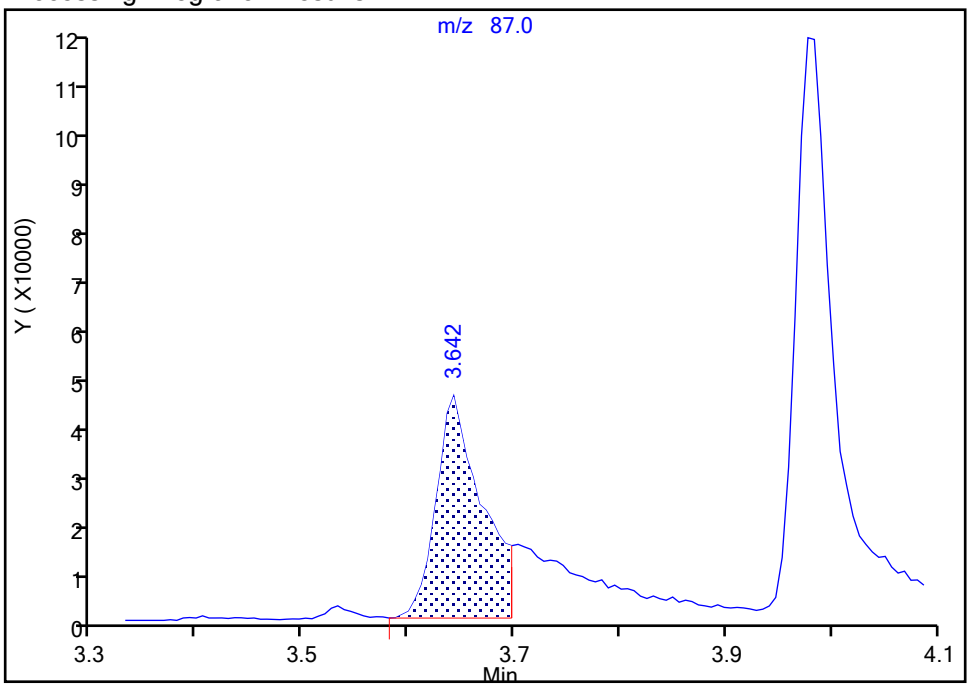
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

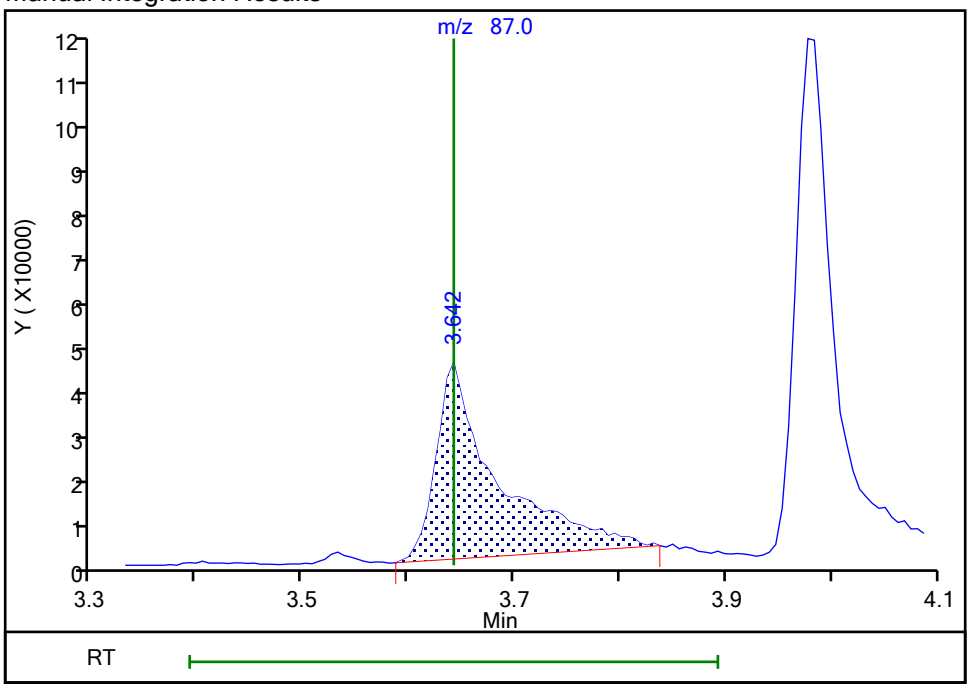
Processing Integration Results

RT: 3.64
Area: 134183
Amount: 5.321179
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 174759
Amount: 198.0226
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:04:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

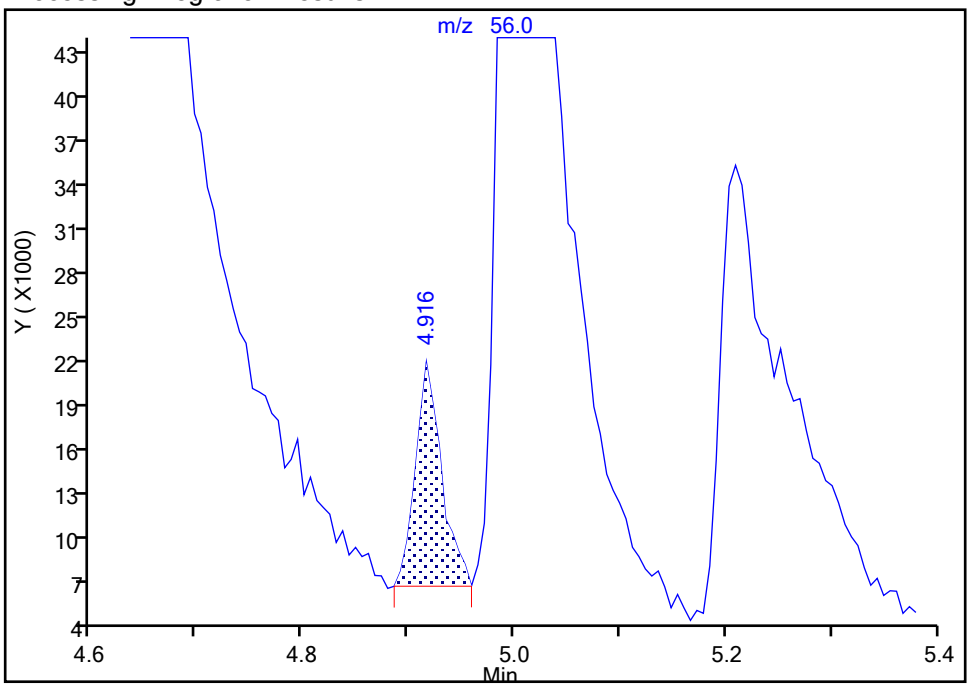
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

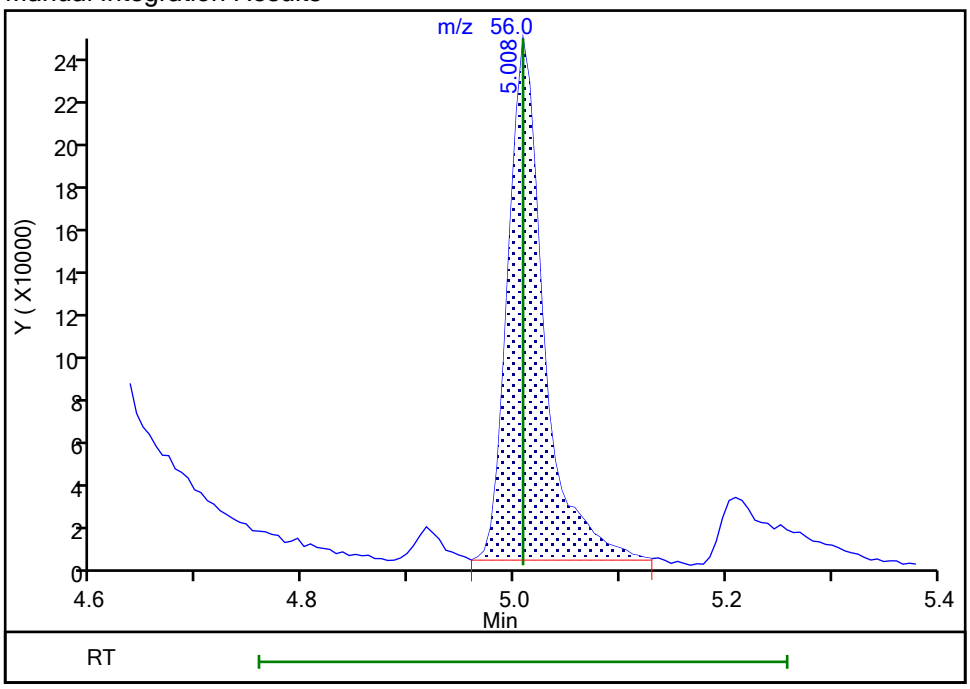
Processing Integration Results

RT: 4.92
Area: 25653
Amount: 35.151825
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 553499
Amount: 3575.5421
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:05:05
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

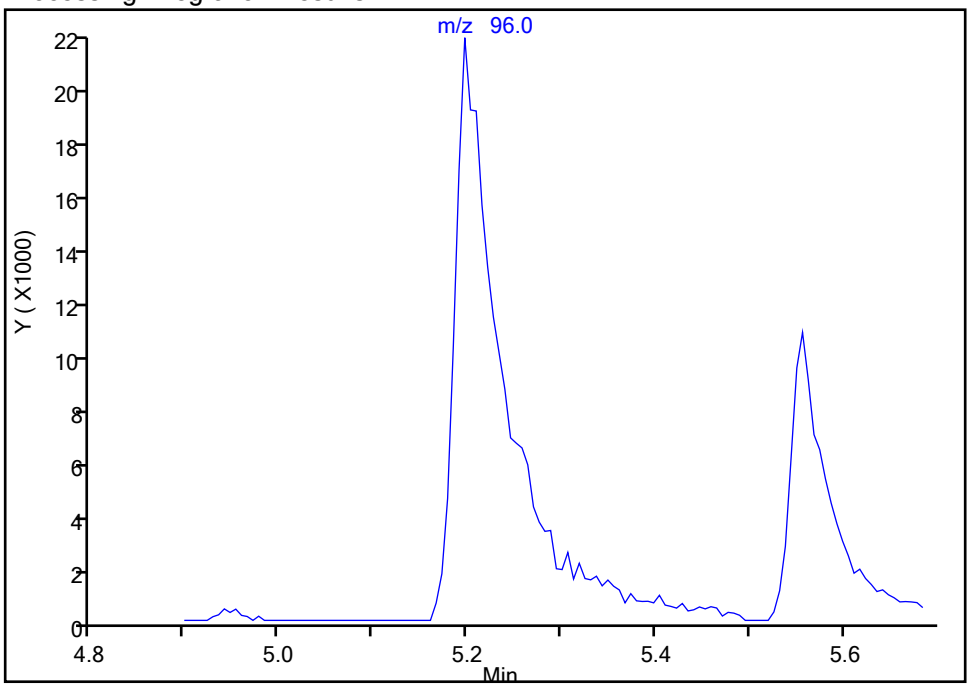
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

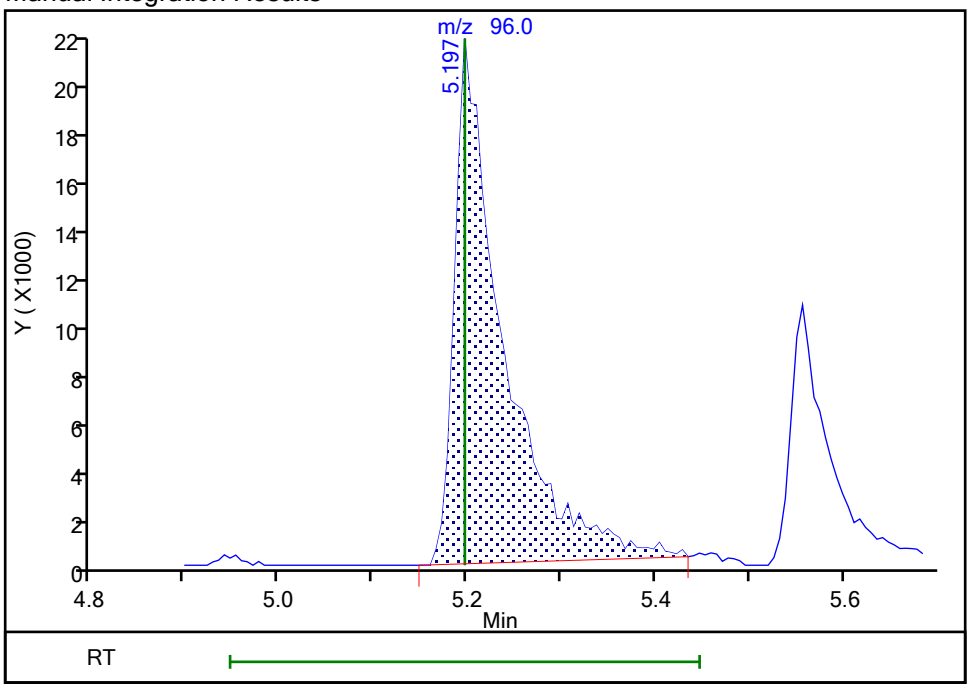
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 77831
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:04:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

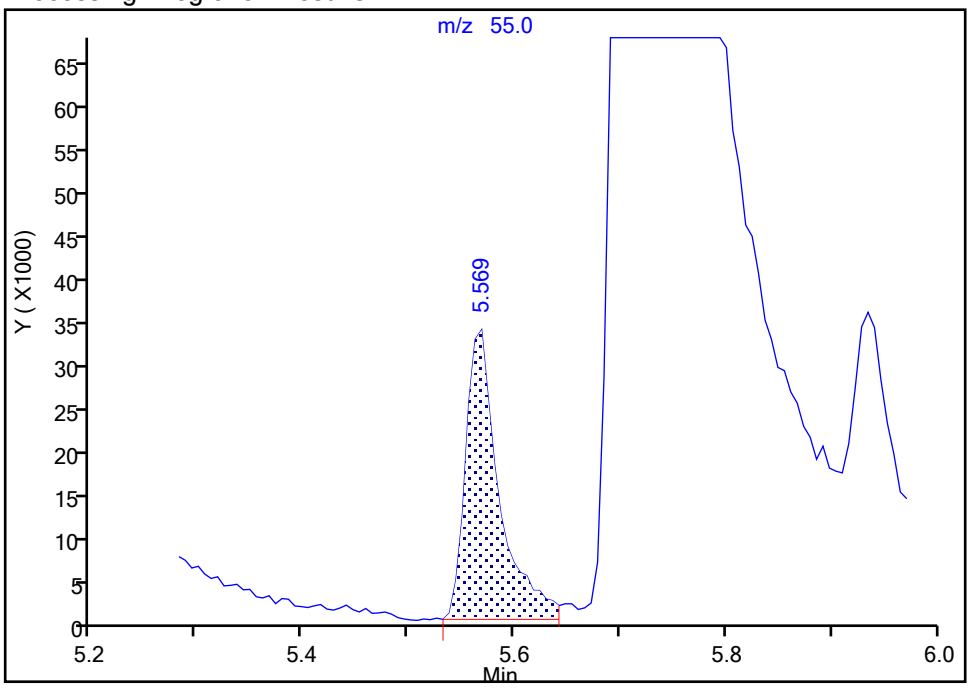
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

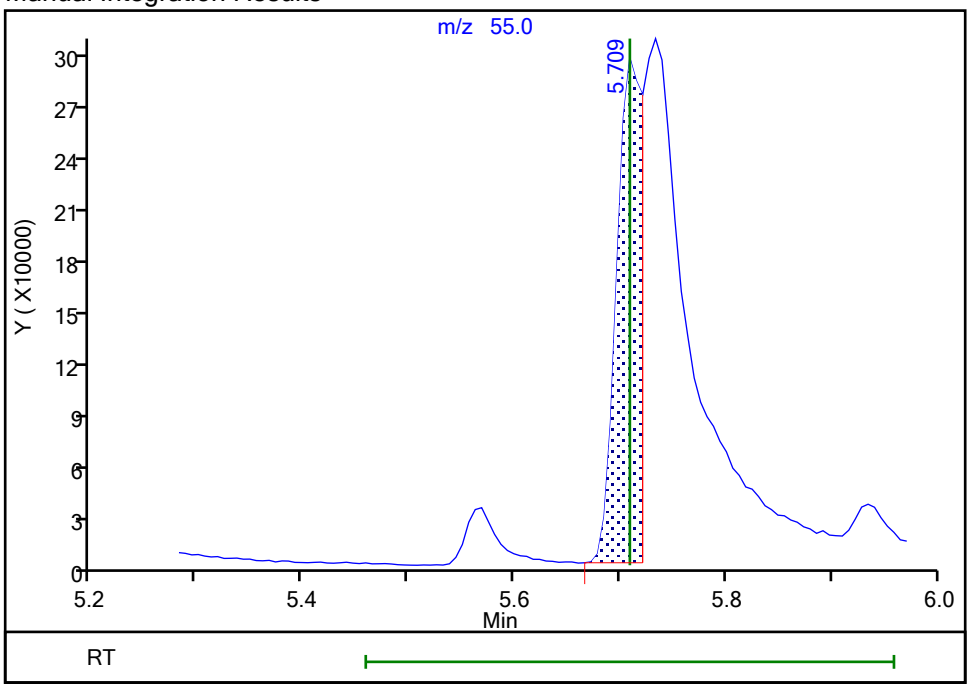
Processing Integration Results

RT: 5.57
Area: 73474
Amount: 5.418323
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 507535
Amount: 159.8962
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:05:13
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

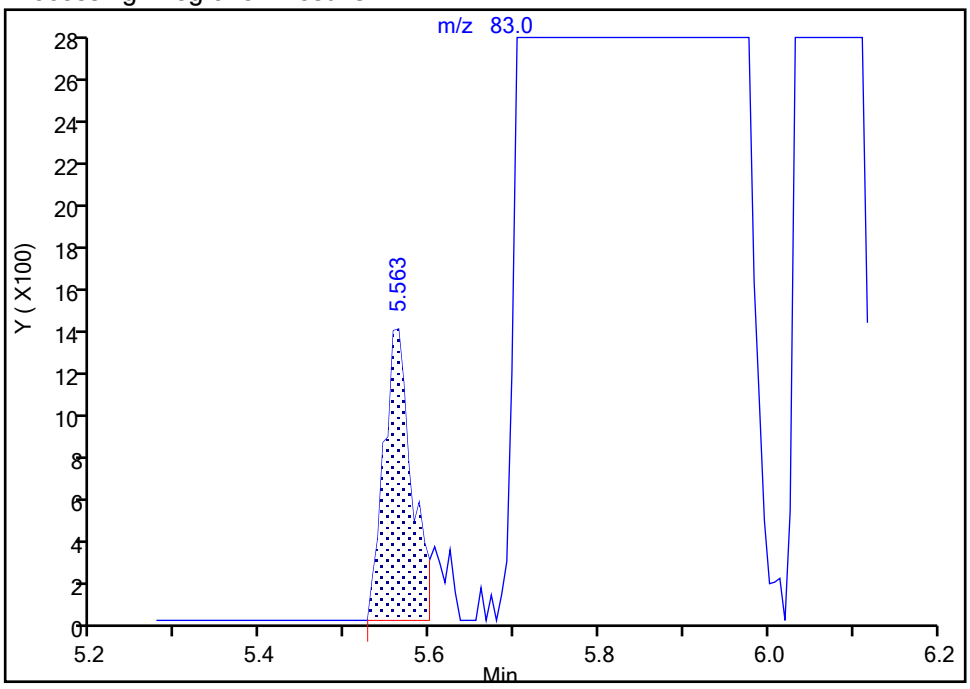
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

114 Methylcyclohexane, CAS: 108-87-2

Signal: 1

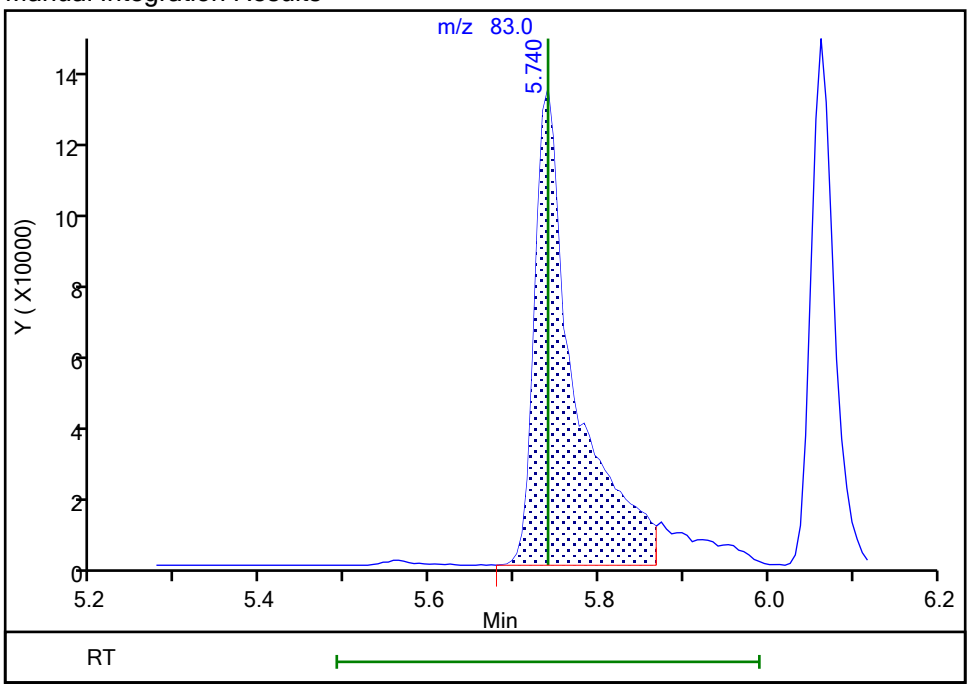
Processing Integration Results

RT: 5.56
Area: 3088
Amount: 1.420727
Amount Units: ug/l



Manual Integration Results

RT: 5.74
Area: 429373
Amount: 159.0072
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:05:21
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

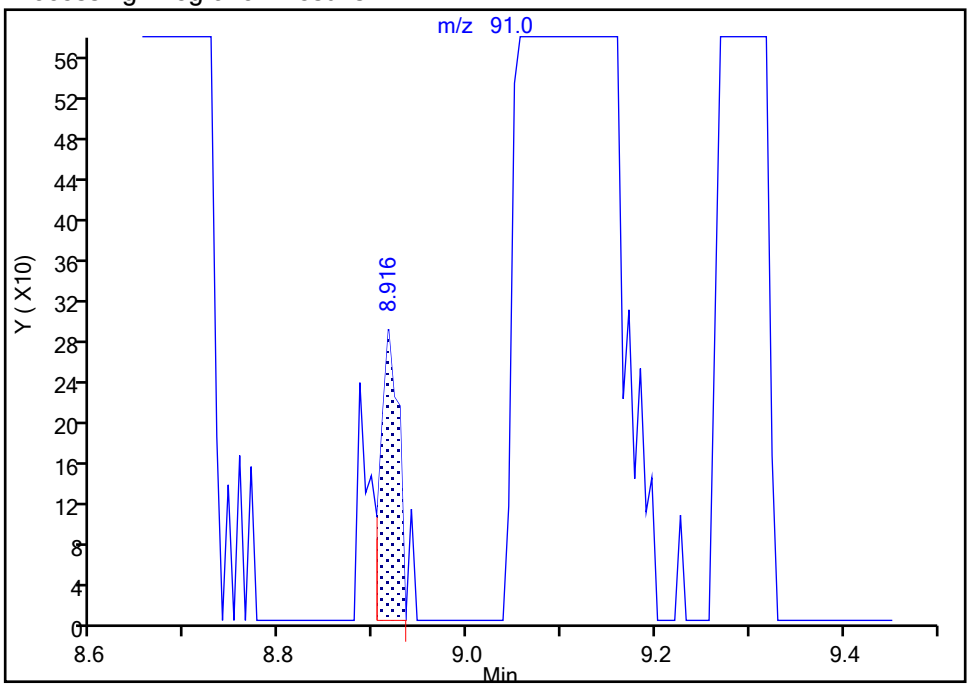
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3734.D
Injection Date: 09-Nov-2020 06:28:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

75 o-Xylene, CAS: 95-47-6

Signal: 1

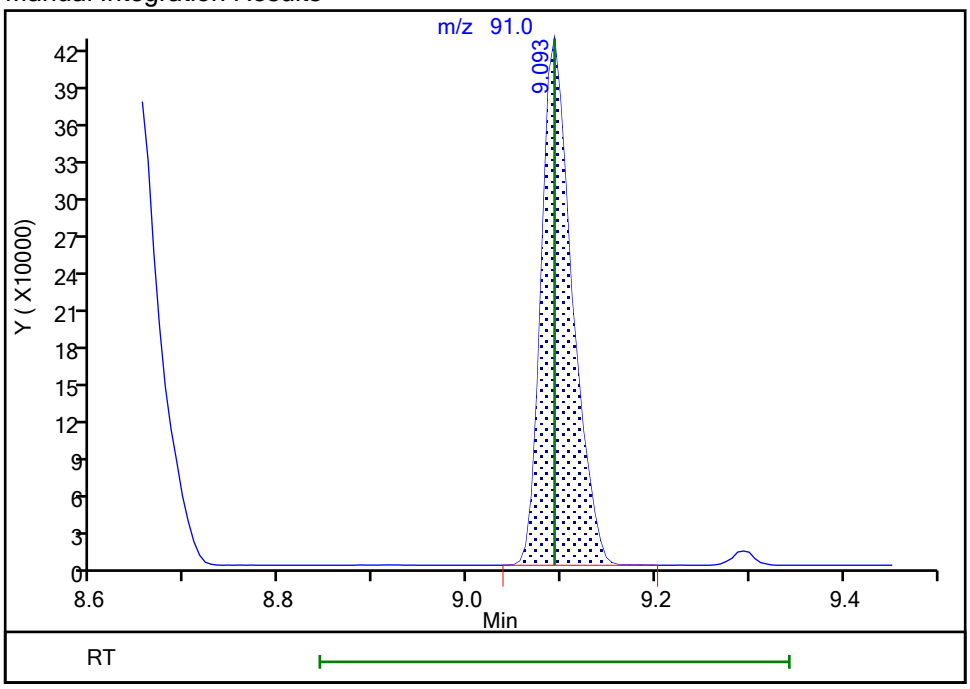
Processing Integration Results

RT: 8.92
Area: 376
Amount: 0.320200
Amount Units: ug/l



Manual Integration Results

RT: 9.09
Area: 968346
Amount: 157.1841
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:05:32
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 09-Nov-2020 06:50:30 ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:13:39 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 08:08:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.990	2.984	0.006	0	43810	1000.0	1000.0	
* 122 Fluorobenzene	96	5.203	5.197	0.006	41	76392	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	31	6009	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.349	8.349	0.000	88	58983	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	63	27926	50.0	50.0	
17 Ethanol	45	2.173	2.167	0.006	99	558070	8000.0	7808.6	
18 Ethyl ether	59	2.228	2.228	0.000	94	408415	200.0	206.0	M
19 Acrolein	56	2.338	2.338	0.000	99	851770	952.8	1053.9	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	381097	200.0	214.3	M
21 112TCTFE	101	2.429	2.429	0.000	93	273243	200.0	196.2	M
22 Acetone	43	2.496	2.490	0.006	97	715763	400.0	408.6	
23 Iodomethane	142	2.533	2.539	-0.006	98	231273	200.0	209.2	
24 Carbon disulfide	76	2.588	2.588	0.000	97	1069409	200.0	225.6	
105 Isopropyl alcohol	45	2.679	2.673	0.006	99	629820	2000.0	2068.9	
118 Acetonitrile	40	2.752	2.746	0.006	92	1049273	2000.0	2040.9	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	88	174562	200.0	232.8	
26 Methyl acetate	43	2.807	2.807	0.000	99	1605916	400.0	425.2	
27 Methylene Chloride	84	2.874	2.874	0.000	85	430505	200.0	224.4	
35 2-Methyl-2-propanol	59	3.063	3.057	0.006	97	467403	2000.0	1753.8	
30 Acrylonitrile	53	3.130	3.130	0.000	98	4616450	2000.0	2102.2	
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	37	422901	200.0	216.6	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	90	816483	200.0	198.1	M
31 Hexane	57	3.405	3.405	0.000	94	415338	200.0	195.0	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	1010450	200.0	229.1	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	88	1020113	200.0	219.6	
33 Vinyl acetate	86	3.618	3.618	0.000	96	209964	400.0	419.0	
36 Isopropyl ether	87	3.642	3.642	0.000	86	256230	200.0	295.8	
37 Tert-butyl ethyl ether	59	3.984	3.978	0.006	96	1533341	200.0	200.1	
38 2,2-Dichloropropane	77	4.081	4.075	0.006	86	504474	200.0	203.5	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	89	547702	200.0	230.1	
40 2-Butanone (MEK)	43	4.136	4.130	0.006	95	763750	400.0	405.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.191	4.185	0.006	99	1822299	2000.0	2115.5	
104 Ethyl acetate	43	4.203	4.203	0.000	98	2127581	400.0	461.4	
42 Chlorobromomethane	128	4.313	4.313	0.000	77	228127	200.0	222.1	
43 Methacrylonitrile	67	4.337	4.331	0.006	94	2397122	2000.0	2207.0	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	106974	400.0	405.9	
45 Chloroform	83	4.404	4.404	0.000	94	735768	200.0	211.3	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	96	649477	200.0	213.8	
47 Cyclohexane	56	4.606	4.606	0.000	90	1196965	200.0	208.2	M
48 Carbon tetrachloride	117	4.715	4.709	0.006	96	392212	200.0	199.1	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	83	563746	200.0	212.0	
50 Benzene	78	4.923	4.917	0.006	88	1745830	200.0	220.4	
108 Isobutyl alcohol	43	4.923	4.917	0.006	94	947012	5000.0	5340.1	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	94	616296	200.0	198.2	
116 n-Butanol	56	5.008	5.008	0.000	48	727358	5000.0	4787.2	a
52 Tert-amyl methyl ether	73	5.063	5.057	0.006	88	810196	200.0	188.3	
53 n-Heptane	43	5.209	5.209	0.000	94	648129	200.0	194.1	
54 Trichloroethene	132	5.557	5.557	0.000	94	510851	200.0	216.0	
117 Ethyl acrylate	55	5.709	5.709	0.000	97	664645	200.0	213.3	a
114 Methylcyclohexane	83	5.739	5.740	-0.001	94	569474	200.0	214.9	a
55 1,2-Dichloropropane	63	5.782	5.776	0.006	94	506509	200.0	214.1	
56 Dibromomethane	93	5.892	5.892	0.000	96	206825	200.0	209.4	
57 Methyl methacrylate	69	5.935	5.935	0.000	88	630419	400.0	453.2	
115 1,4-Dioxane	58	5.941	5.941	0.000	82	138961	4000.0	4255.8	M
58 Dichlorobromomethane	83	6.063	6.063	0.000	95	352817	200.0	229.9	
106 2-Nitropropane	43	6.306	6.307	-0.001	95	526901	400.0	421.0	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	88	326470	200.0	220.0	
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	83	202095	200.0	147.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	97	1676381	400.0	415.3	
62 Toluene	92	6.867	6.867	0.000	97	1105608	200.0	219.7	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	91	179657	200.0	167.9	
64 Ethyl methacrylate	69	7.245	7.239	0.006	86	486040	200.0	211.8	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	93	264811	200.0	208.9	
66 Tetrachloroethene	166	7.440	7.440	0.000	95	432861	200.0	228.1	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	305312	200.0	137.8	
68 2-Hexanone	43	7.599	7.599	0.000	98	1143299	400.0	418.6	
69 Chlorodibromomethane	129	7.709	7.709	0.000	89	206840	200.0	232.7	
109 n-Butyl acetate	43	7.757	7.757	0.000	96	1323145	200.0	207.3	
70 Ethylene Dibromide	107	7.818	7.818	0.000	99	99407	200.0	84.0	
71 Chlorobenzene	112	8.379	8.373	0.006	91	1125637	200.0	203.5	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	94	353075	200.0	191.2	
73 Ethylbenzene	91	8.513	8.513	0.000	98	1620782	200.0	212.0	
74 m-Xylene & p-Xylene	106	8.654	8.648	0.006	98	630775	200.0	208.3	
75 o-Xylene	106	9.092	9.093	-0.001	98	600288	200.0	210.3	
76 Styrene	104	9.111	9.111	0.000	92	997999	200.0	202.5	
77 Bromoform	173	9.294	9.294	0.000	96	104377	200.0	227.8	
78 Isopropylbenzene	105	9.525	9.525	0.000	96	1323055	200.0	195.5	
79 Bromobenzene	156	9.842	9.842	0.000	91	410756	200.0	202.9	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	97	379520	200.0	203.3	
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	92	270728	200.0	185.8	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	82	58193	200.0	156.9	
83 N-Propylbenzene	91	10.007	10.001	0.006	99	1523757	200.0	202.8	
84 2-Chlorotoluene	91	10.086	10.080	0.006	96	1081536	200.0	200.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.214	10.214	0.000	98	1233834	200.0	196.8	
86 1,3,5-Trimethylbenzene	105	10.220	10.220	0.000	95	1183673	200.0	186.3	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	1708263	200.0	202.6	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	1074484	200.0	183.9	
89 sec-Butylbenzene	105	10.854	10.854	0.000	95	1219421	200.0	179.7	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	97	722116	200.0	202.1	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	97	860843	200.0	191.2	
92 1,4-Dichlorobenzene	146	11.068	11.062	0.006	94	728724	200.0	202.0	
110 1,2,3-Trimethylbenzene	105	11.147	11.141	0.006	98	1034884	200.0	199.5	
113 Benzyl chloride	126	11.238	11.238	0.000	99	60383	200.0	216.9	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	683206	200.0	210.6	
94 n-Butylbenzene	91	11.525	11.525	0.000	99	776680	200.0	190.9	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	80	40323	200.0	194.5	
112 1,3,5-Trichlorobenzene	180	12.702	12.696	0.006	96	381799	200.0	191.2	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	95	321761	200.0	192.4	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	138114	200.0	184.7	
98 Naphthalene	128	13.732	13.726	0.006	97	1079912	200.0	199.8	
99 1,2,3-Trichlorobenzene	180	14.031	14.025	0.006	95	293470	200.0	194.5	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		400.0	446.7	
S 100 Xylenes, Total	1				0		400.0	418.7	
S 102 1,3-Dichloropropene, Total	1				0		400.0	315.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00219	Amount Added: 200.00	Units: uL

Report Date: 10-Nov-2020 04:13:41 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D

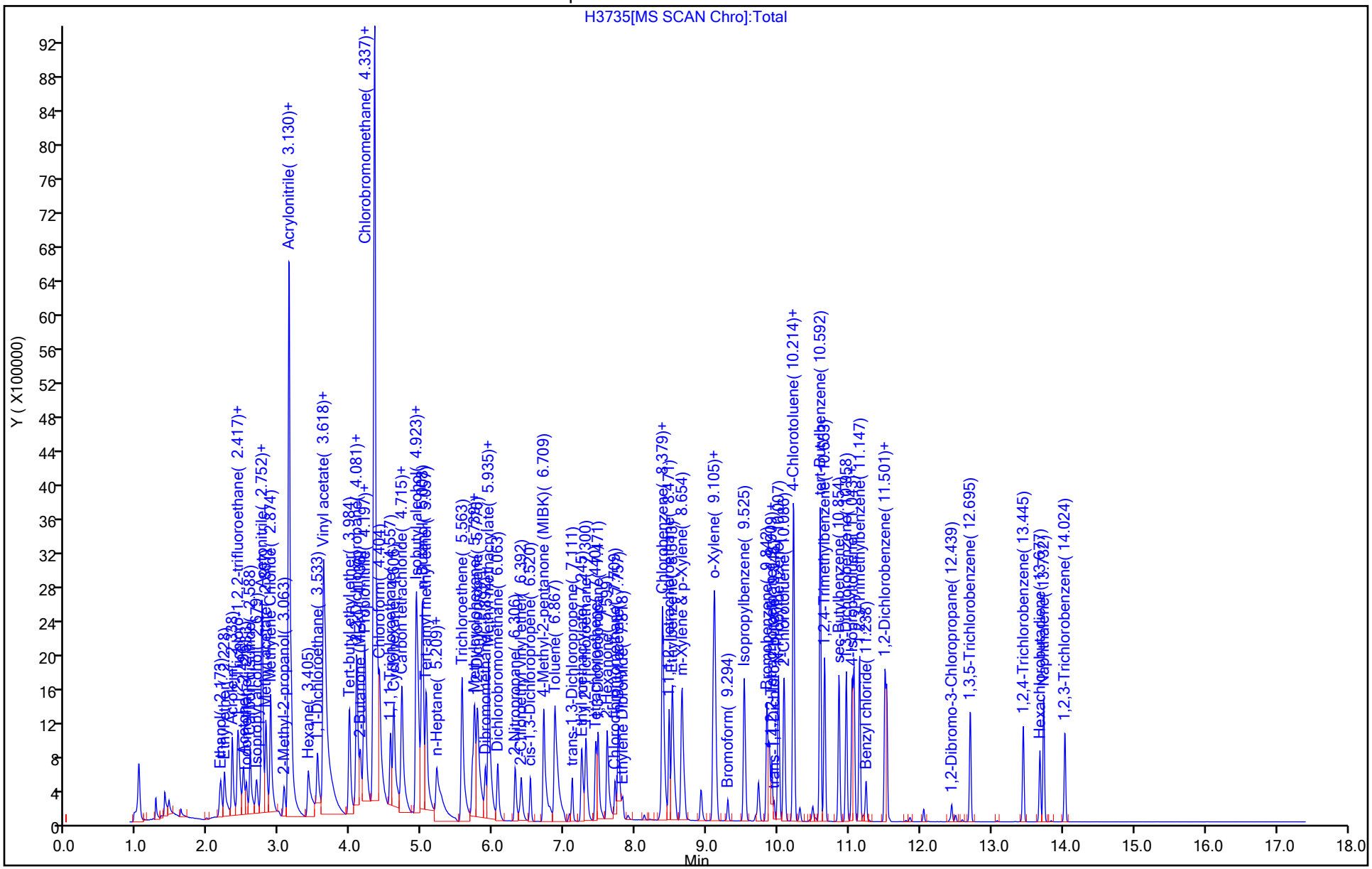
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes Operator ID:

Lims ID: std10 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

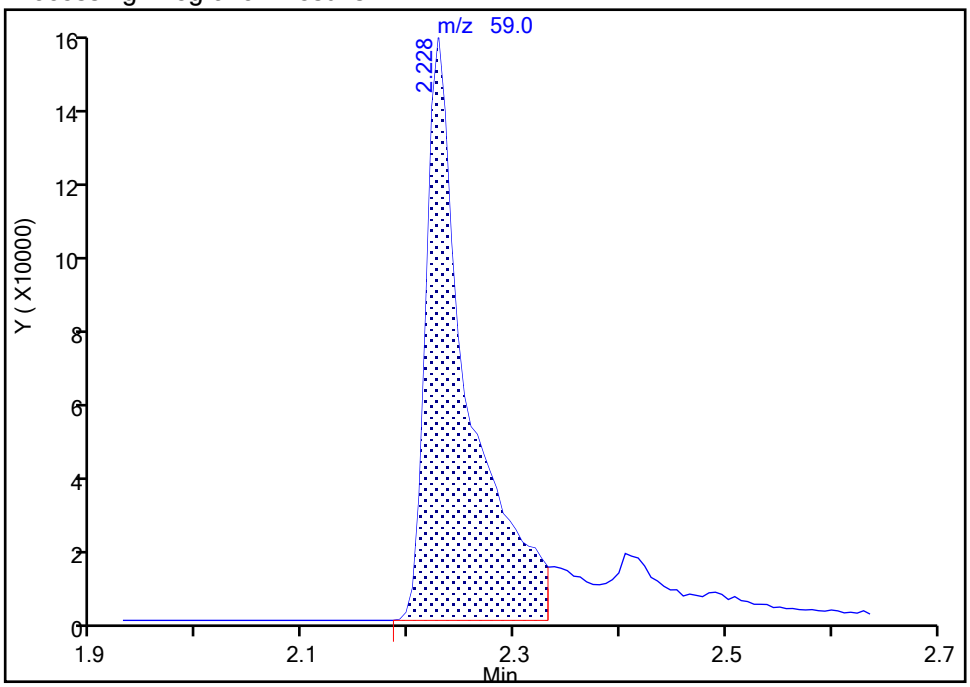
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

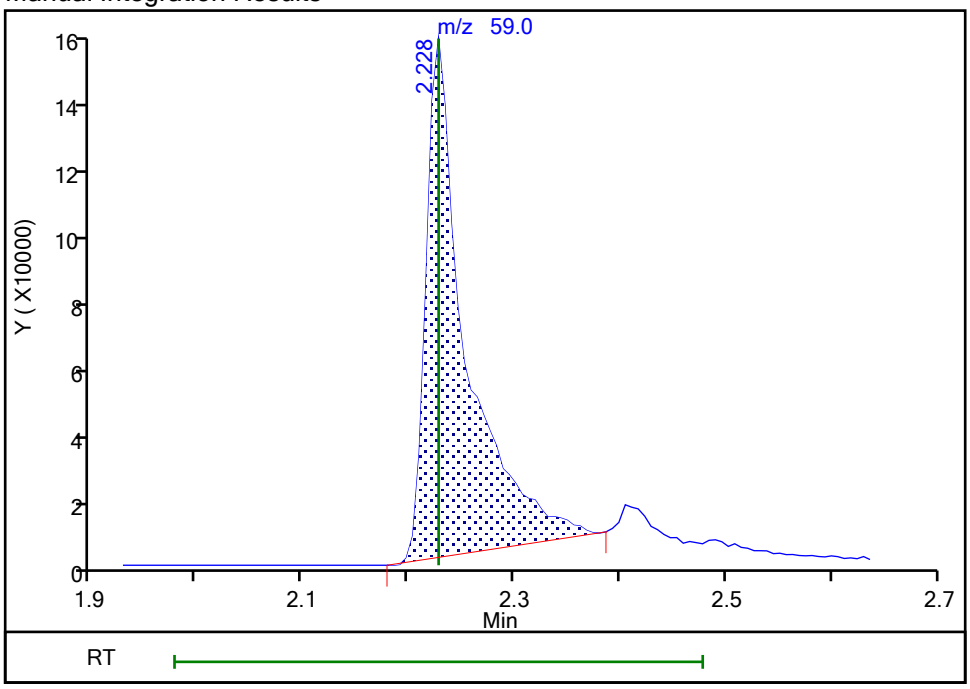
Processing Integration Results

RT: 2.23
Area: 433468
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 408415
Amount: 206.0407
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:07:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

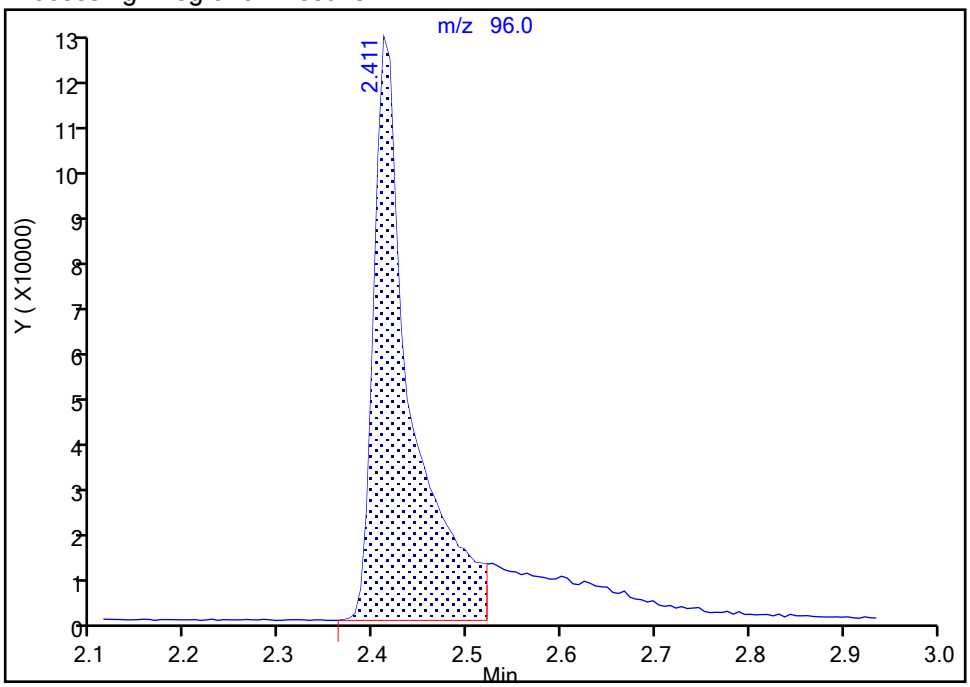
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

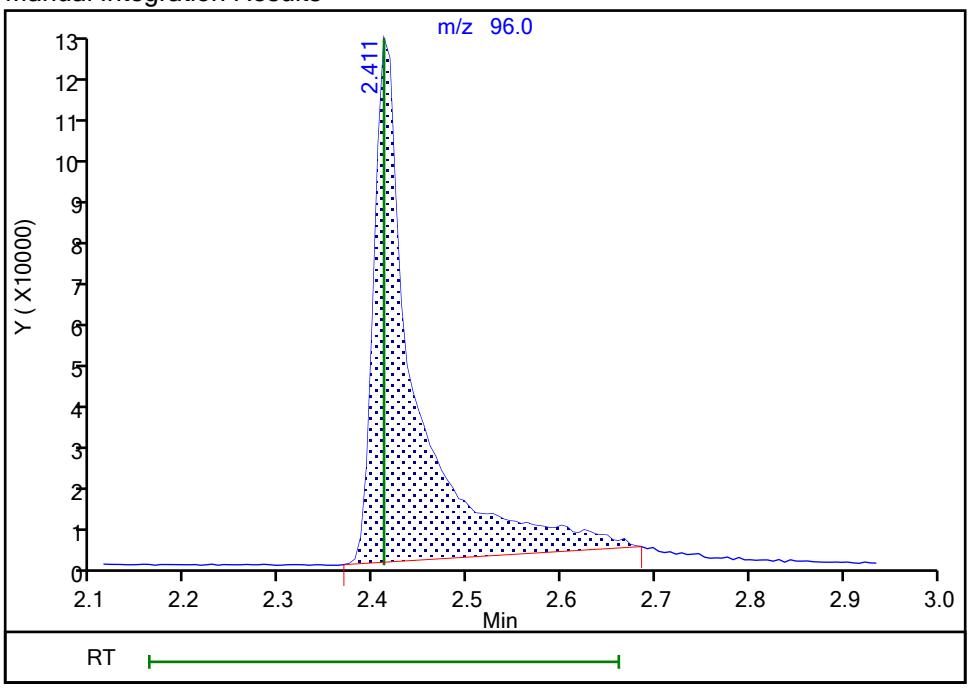
Processing Integration Results

RT: 2.41
Area: 343132
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 381097
Amount: 214.2503
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:07:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

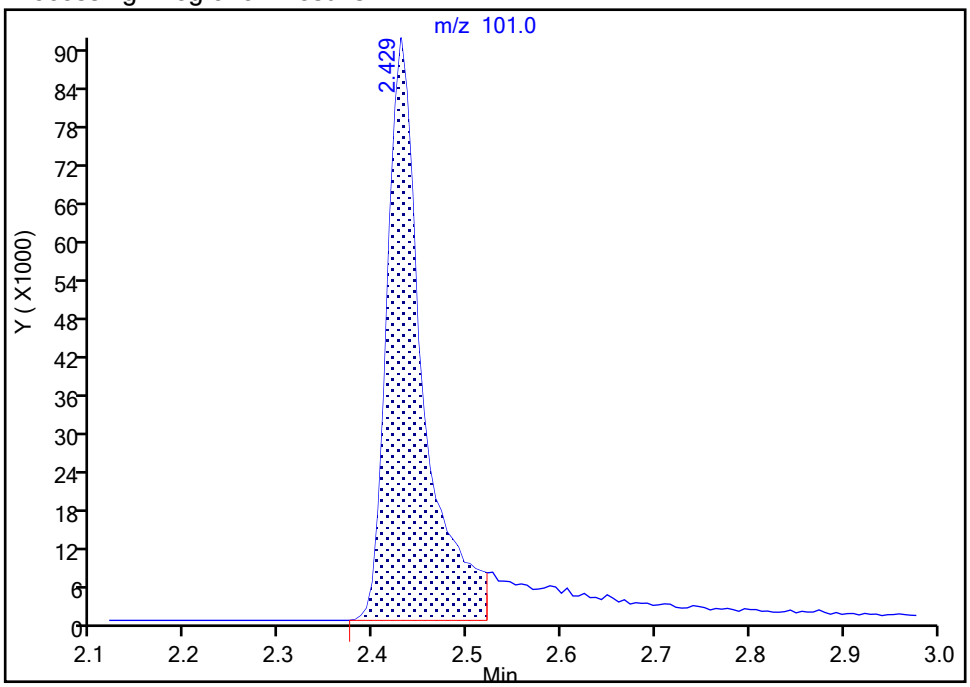
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

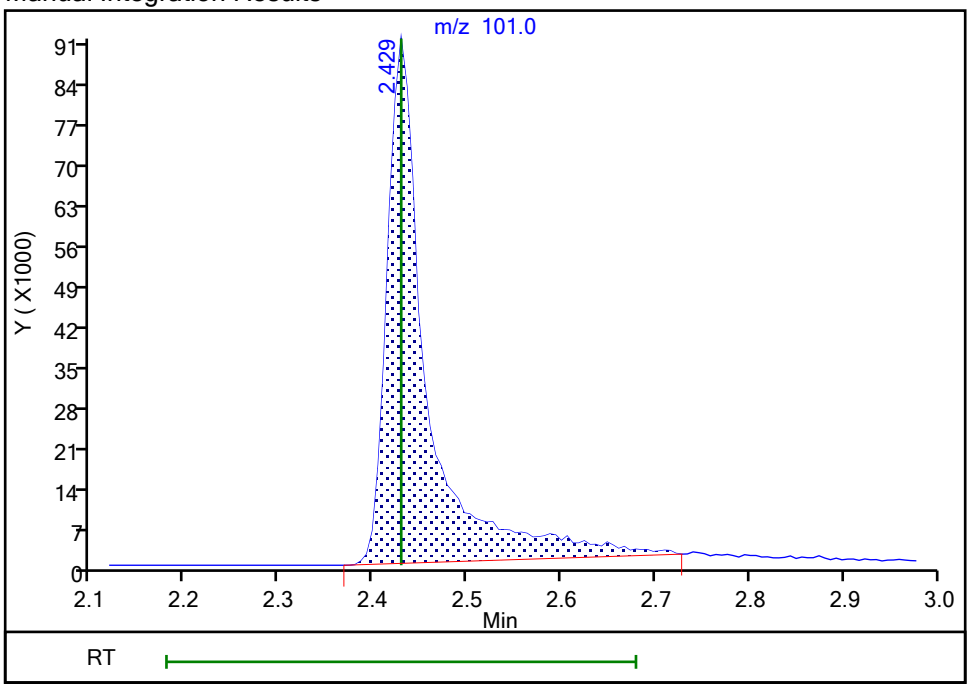
Processing Integration Results

RT: 2.43
Area: 243742
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 273243
Amount: 196.1696
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:07:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

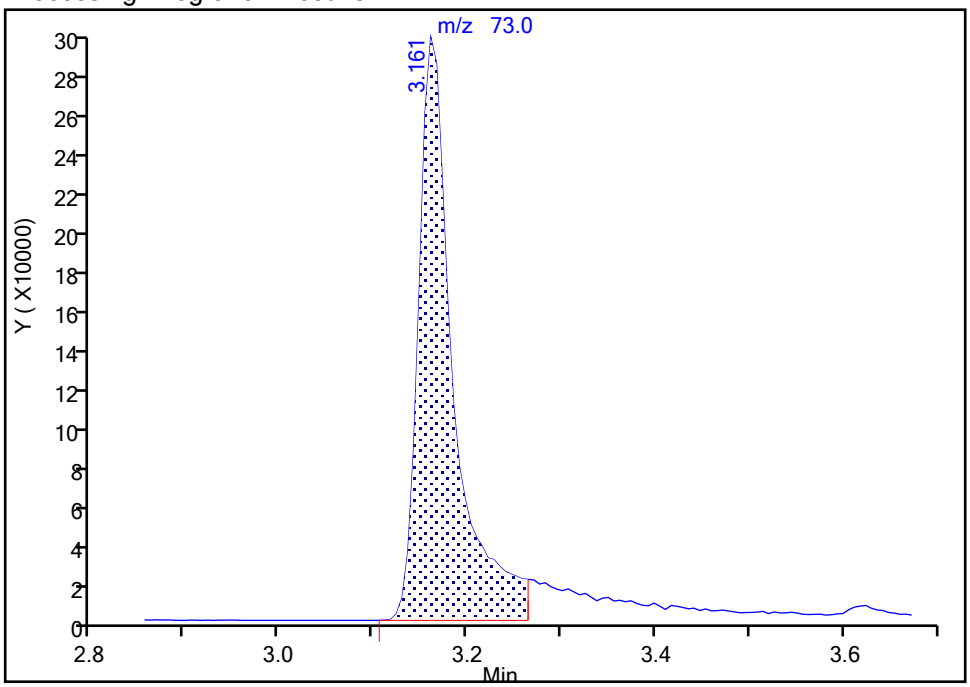
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

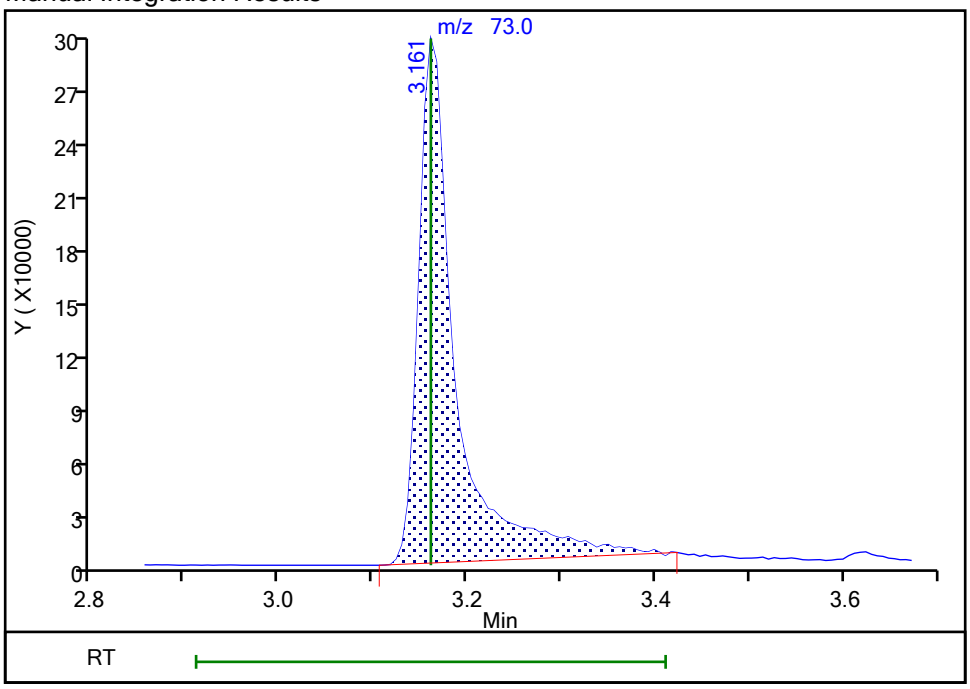
Processing Integration Results

RT: 3.16
Area: 773362
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 816483
Amount: 198.0710
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:07:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

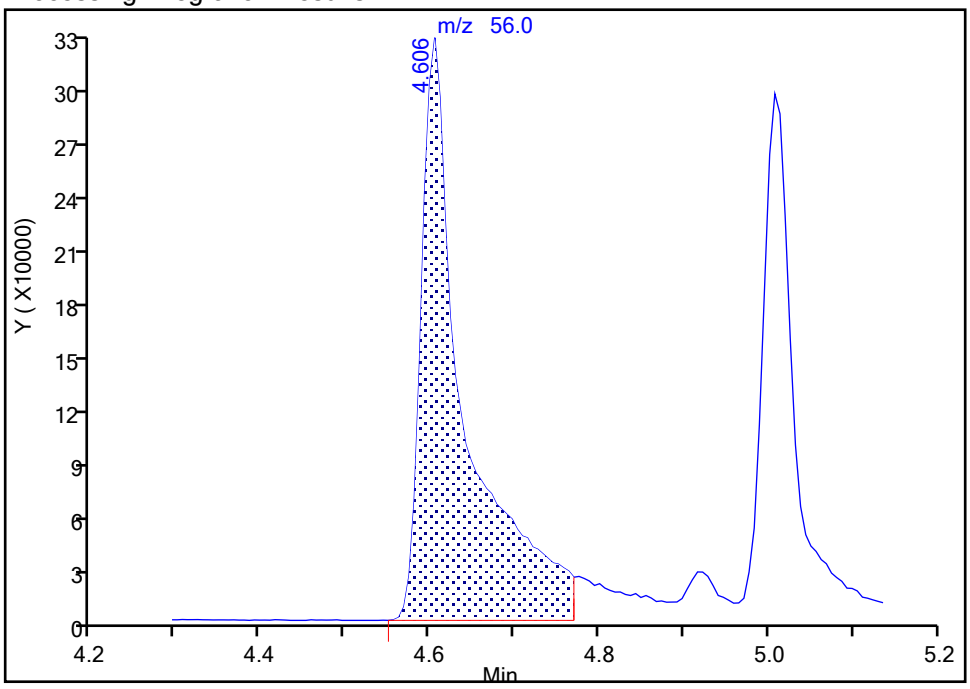
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

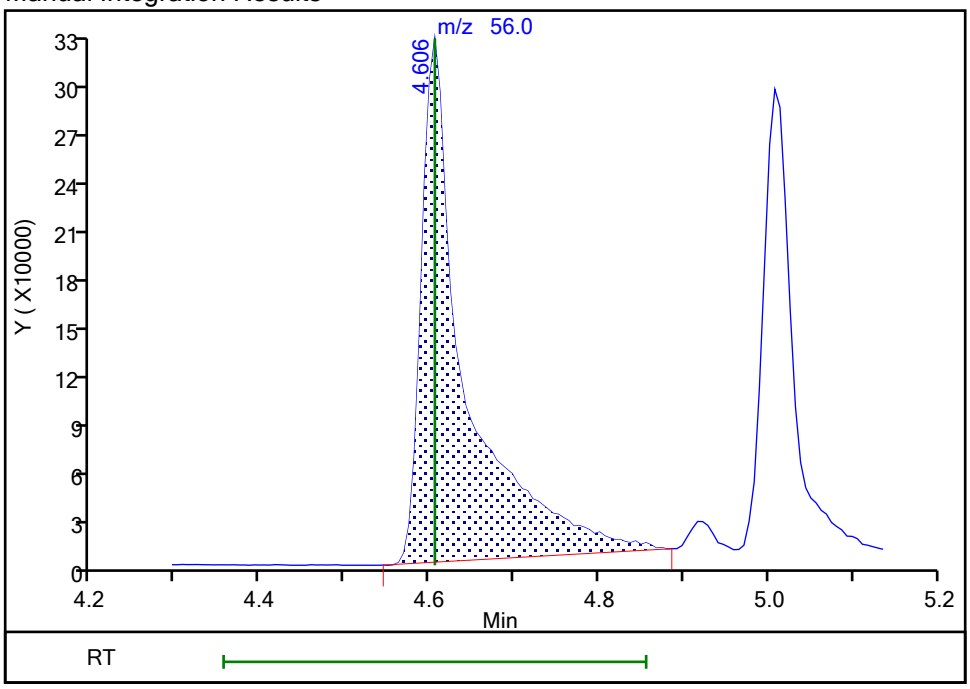
Processing Integration Results

RT: 4.61
Area: 1194493
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 1196965
Amount: 208.2280
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:07:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

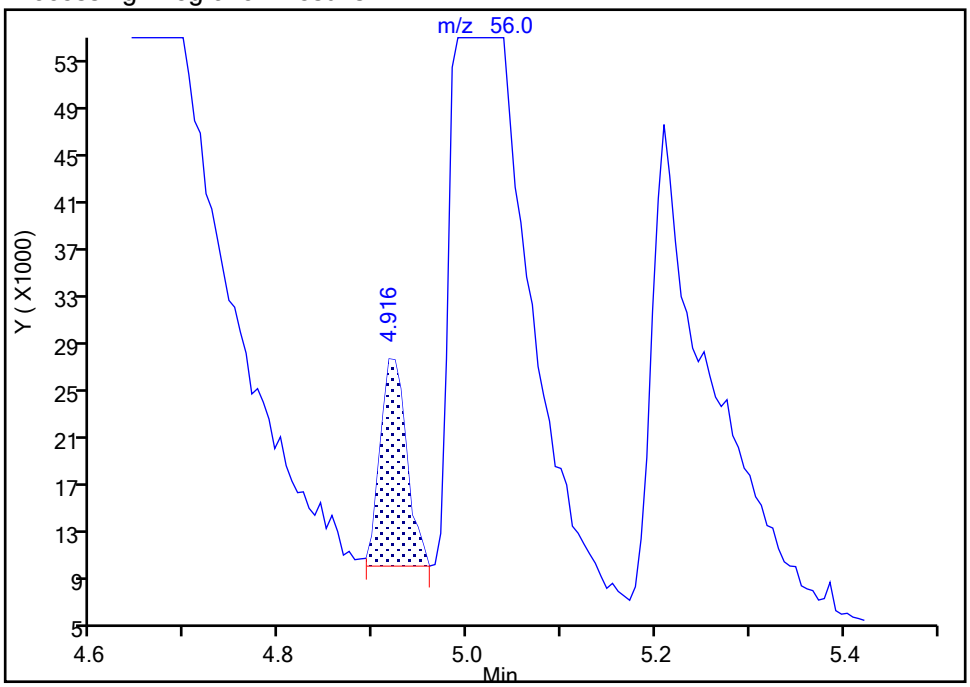
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

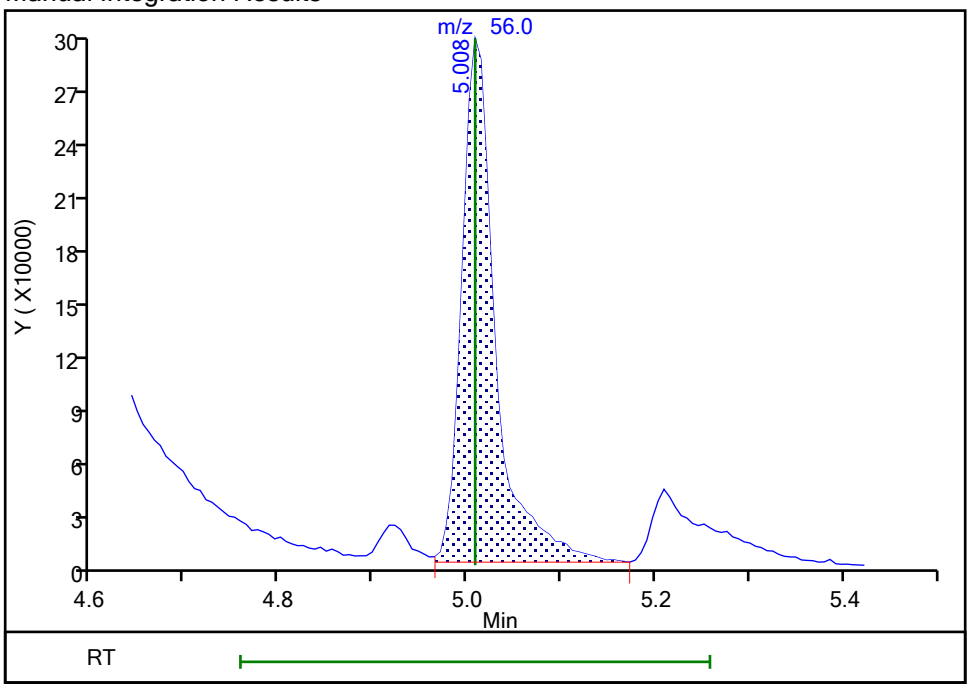
Processing Integration Results

RT: 4.92
Area: 34579
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 727358
Amount: 4787.1607
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:06:59
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

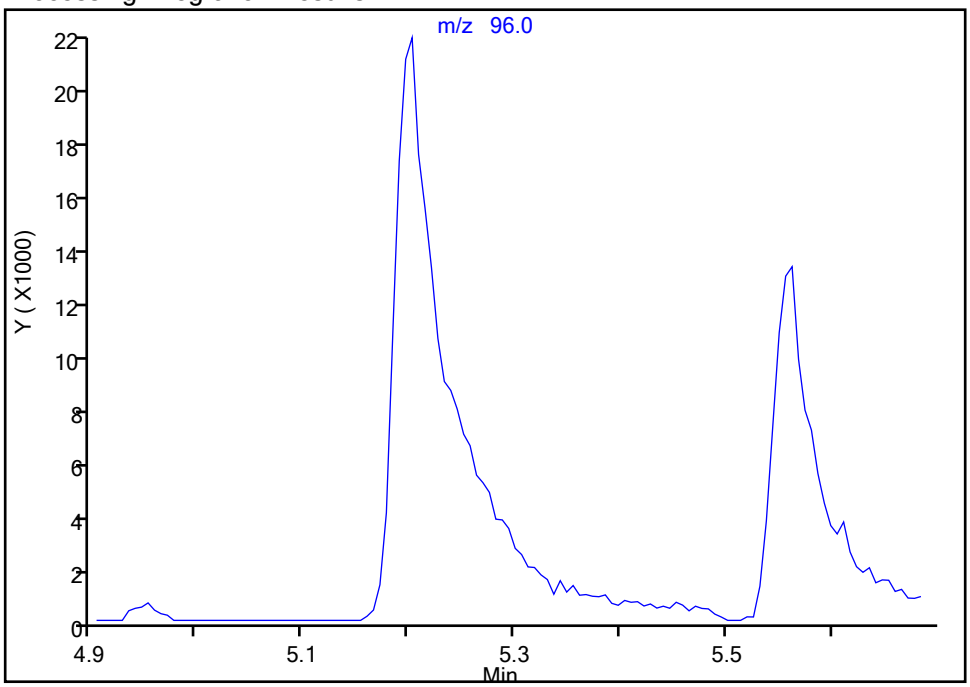
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

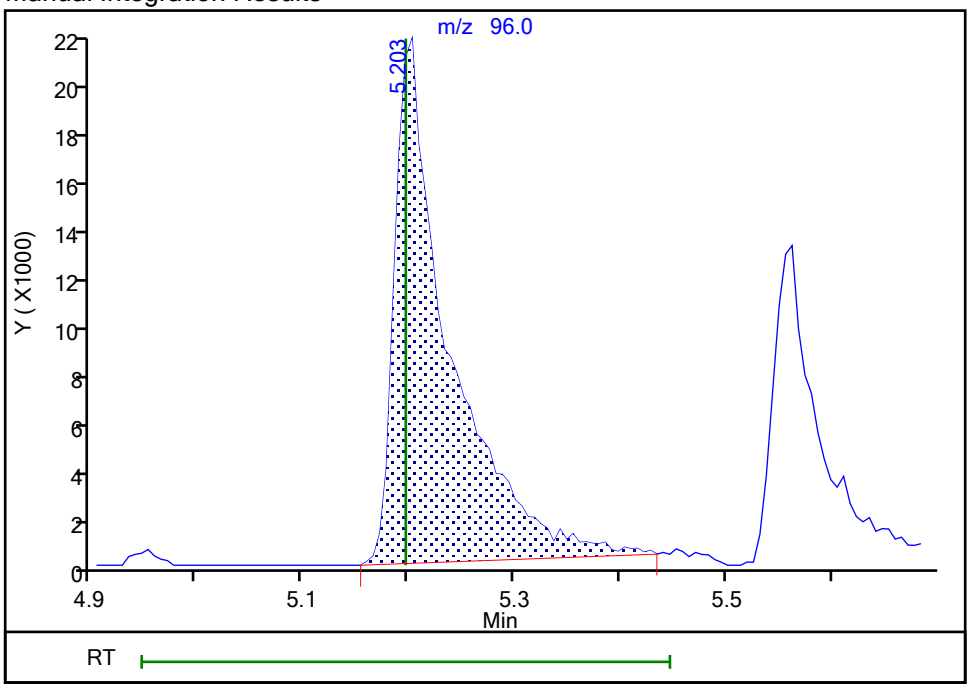
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 76392
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:07:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

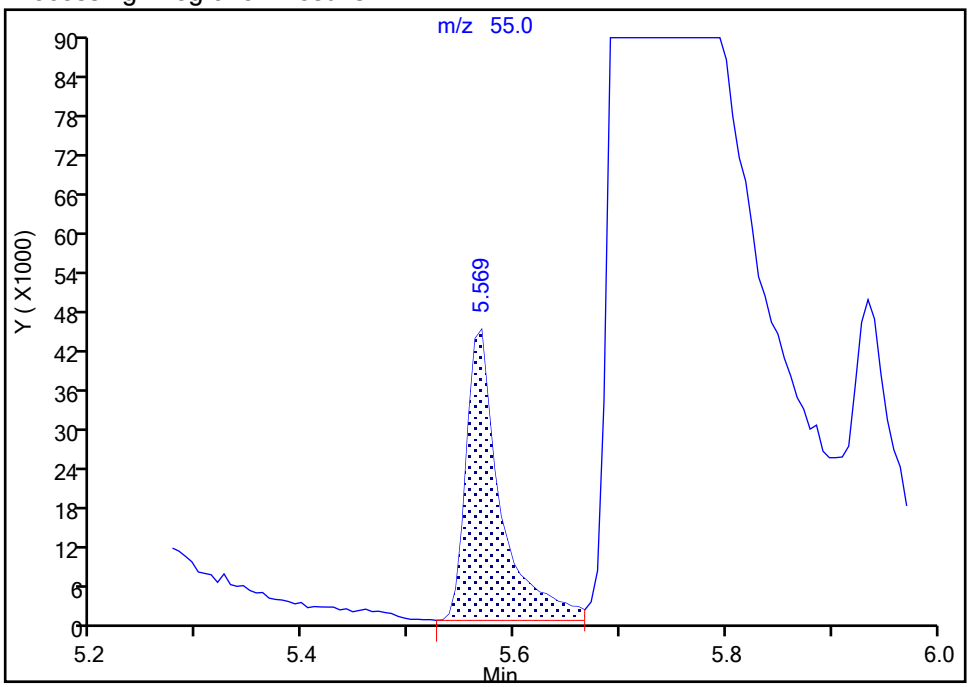
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

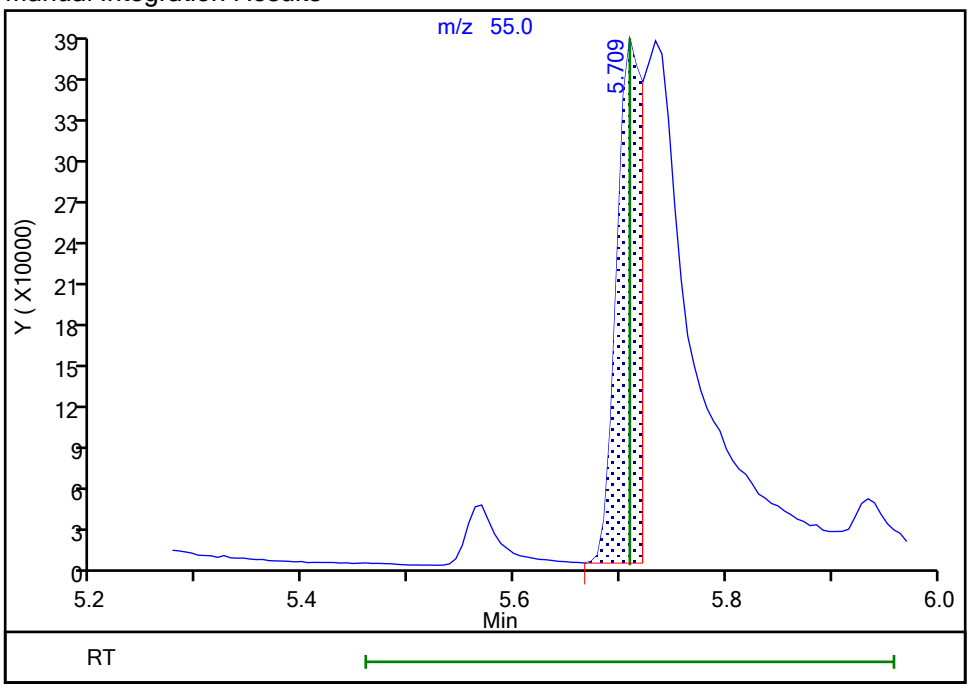
Processing Integration Results

RT: 5.57
Area: 100391
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 664645
Amount: 213.3372
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:06:51
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

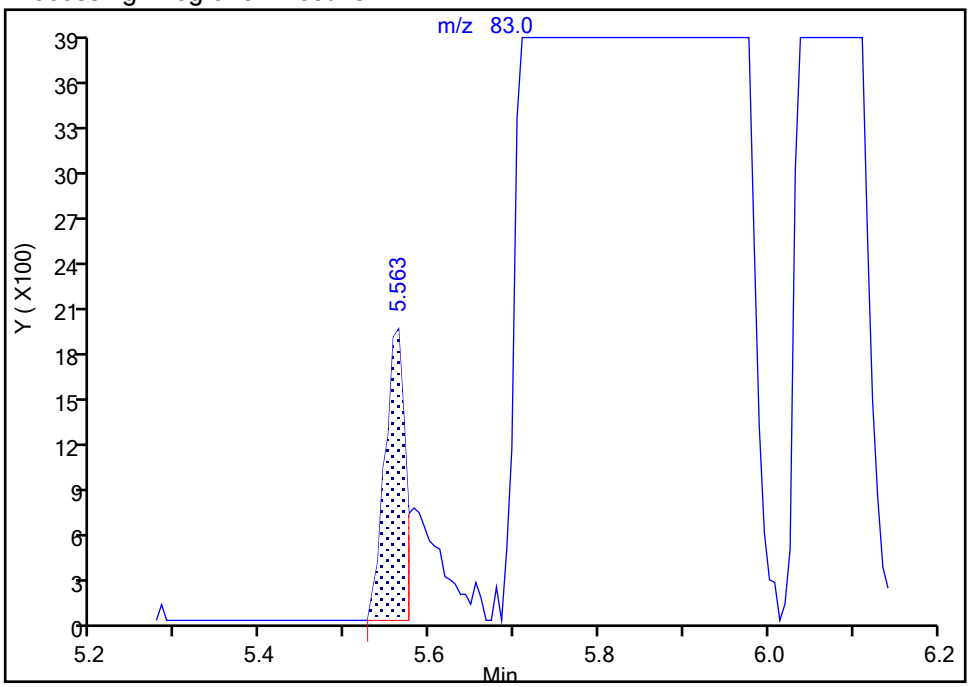
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

114 Methylcyclohexane, CAS: 108-87-2

Signal: 1

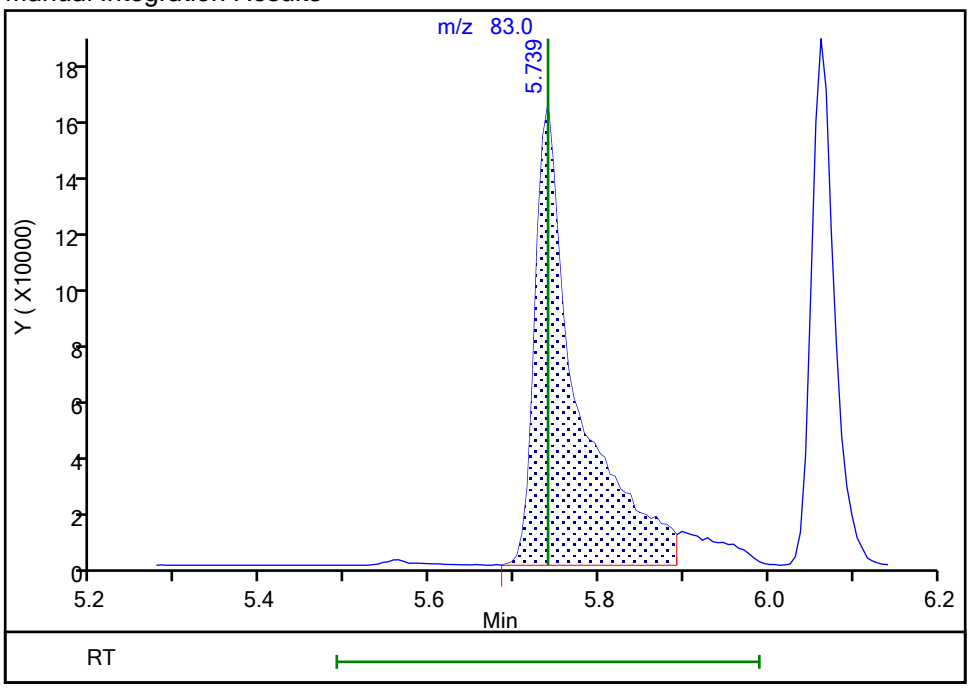
Processing Integration Results

RT: 5.56
Area: 3182
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 5.74
Area: 569474
Amount: 214.8625
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:06:45
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

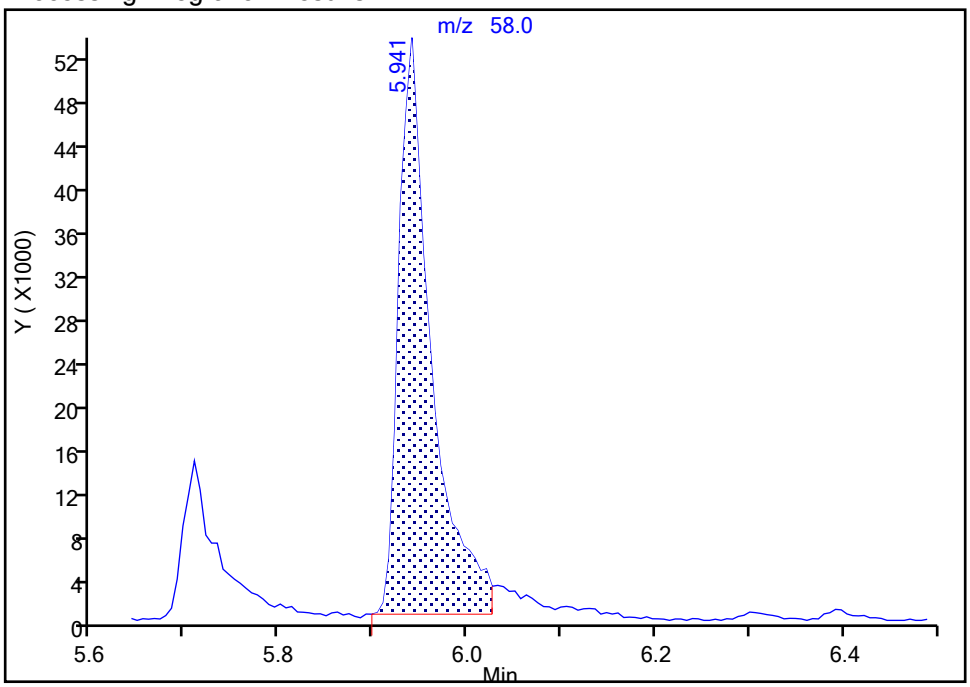
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3735.D
Injection Date: 09-Nov-2020 06:50:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

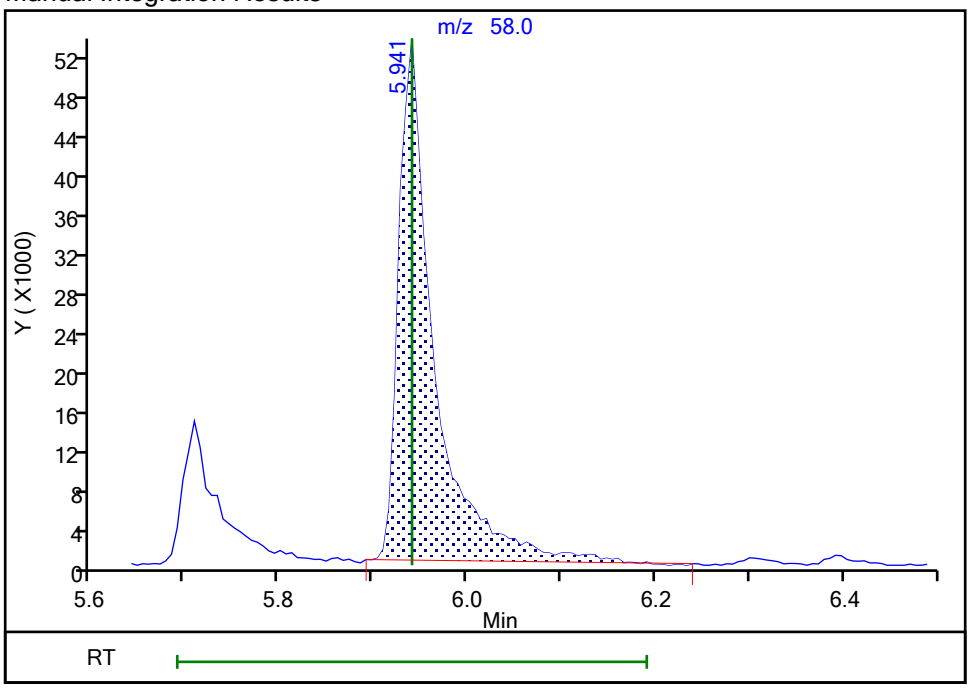
Processing Integration Results

RT: 5.94
Area: 128979
Amount: 2414.9120
Amount Units: ug/l



Manual Integration Results

RT: 5.94
Area: 138961
Amount: 4255.7722
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:06:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 09-Nov-2020 07:12:30 ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:13:54 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 08:09:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.990	2.984	0.006	0	44346	1000.0	1000.0	
* 122 Fluorobenzene	96	5.203	5.197	0.006	52	84316	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	27	9231	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.349	8.349	0.000	89	61935	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	46	28544	50.0	50.0	
17 Ethanol	45	2.179	2.167	0.012	99	707576	10000	8970.0	
18 Ethyl ether	59	2.228	2.228	0.000	96	591679	250.0	270.4	
19 Acrolein	56	2.338	2.338	0.000	99	1117309	1191.0	1252.6	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	477157	250.0	243.0	M
21 112TCTFE	101	2.429	2.429	0.000	93	331865	250.0	215.9	M
22 Acetone	43	2.496	2.490	0.006	97	923366	500.0	477.6	
23 Iodomethane	142	2.533	2.539	-0.006	99	286941	250.0	235.9	
24 Carbon disulfide	76	2.588	2.588	0.000	97	1397550	250.0	267.1	
105 Isopropyl alcohol	45	2.679	2.673	0.006	99	799757	2500.0	2380.3	
118 Acetonitrile	40	2.752	2.746	0.006	92	1342068	2500.0	2365.1	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	86	203599	250.0	246.0	
26 Methyl acetate	43	2.813	2.807	0.006	99	2196110	500.0	526.9	
27 Methylene Chloride	84	2.874	2.874	0.000	85	568742	250.0	268.6	
35 2-Methyl-2-propanol	59	3.069	3.057	0.012	98	588478	2500.0	2000.6	
30 Acrylonitrile	53	3.136	3.130	0.006	99	5989442	2500.0	2470.8	
28 trans-1,2-Dichloroethene	96	3.136	3.136	0.000	88	554571	250.0	257.4	
29 Methyl tert-butyl ether	73	3.161	3.161	0.000	90	1088774	250.0	239.3	
31 Hexane	57	3.405	3.405	0.000	97	895310	250.0	380.9	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	1296201	250.0	266.3	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	91	1300815	250.0	253.7	
33 Vinyl acetate	86	3.618	3.618	0.000	96	277092	500.0	499.5	
36 Isopropyl ether	87	3.642	3.642	0.000	87	304208	250.0	318.2	
37 Tert-butyl ethyl ether	59	3.984	3.978	0.006	95	1742218	250.0	206.0	
38 2,2-Dichloropropane	77	4.081	4.075	0.006	86	621895	250.0	227.3	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	89	701824	250.0	267.1	
40 2-Butanone (MEK)	43	4.136	4.130	0.006	95	1030598	500.0	495.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.191	4.185	0.006	99	2352406	2500.0	2474.2	
104 Ethyl acetate	43	4.209	4.203	0.006	98	2771796	500.0	544.6	
42 Chlorobromomethane	128	4.313	4.313	0.000	76	291453	250.0	257.1	
43 Methacrylonitrile	67	4.337	4.331	0.006	94	3042996	2500.0	2538.4	
44 Tetrahydrofuran	71	4.380	4.374	0.006	83	143117	500.0	492.0	
45 Chloroform	83	4.404	4.404	0.000	94	938951	250.0	244.3	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	97	810116	250.0	241.7	
47 Cyclohexane	56	4.606	4.606	0.000	90	1629214	250.0	256.8	
48 Carbon tetrachloride	117	4.715	4.709	0.006	94	484795	250.0	222.9	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	84	750683	250.0	255.8	
50 Benzene	78	4.923	4.917	0.006	87	2246311	250.0	257.0	
108 Isobutyl alcohol	43	4.923	4.917	0.006	93	1248787	6250.0	6380.0	
51 1,2-Dichloroethane	62	4.947	4.941	0.006	93	754167	250.0	219.8	
116 n-Butanol	56	5.008	5.008	0.000	58	930791	6250.0	5550.3	
52 Tert-amyl methyl ether	73	5.063	5.057	0.006	88	1014375	250.0	213.6	
53 n-Heptane	43	5.209	5.209	0.000	94	902660	250.0	244.5	
54 Trichloroethene	132	5.557	5.557	0.000	94	645165	250.0	247.1	
117 Ethyl acrylate	55	5.709	5.709	0.000	95	868254	250.0	252.5	a
114 Methylcyclohexane	83	5.740	5.740	0.000	94	712165	250.0	243.4	a
55 1,2-Dichloropropane	63	5.782	5.776	0.006	93	612334	250.0	234.5	
56 Dibromomethane	93	5.892	5.892	0.000	97	257995	250.0	236.7	
57 Methyl methacrylate	69	5.935	5.935	0.000	88	801367	500.0	522.0	
115 1,4-Dioxane	58	5.941	5.941	0.000	76	169945	5000.0	3388.0	
58 Dichlorobromomethane	83	6.063	6.063	0.000	95	431754	250.0	254.8	
106 2-Nitropropane	43	6.307	6.307	0.000	96	672172	500.0	485.5	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	86	404648	250.0	247.0	
60 cis-1,3-Dichloropropene	75	6.526	6.526	0.000	88	237668	250.0	157.2	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	97	2153416	500.0	483.3	
62 Toluene	92	6.873	6.867	0.006	96	1406644	250.0	253.2	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	90	219833	250.0	186.1	
64 Ethyl methacrylate	69	7.245	7.239	0.006	86	629971	250.0	248.6	
65 1,1,2-Trichloroethane	83	7.306	7.300	0.006	94	334558	250.0	239.1	
66 Tetrachloroethene	166	7.440	7.440	0.000	95	550375	250.0	262.7	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	366072	250.0	149.7	
68 2-Hexanone	43	7.599	7.599	0.000	98	1462645	500.0	485.2	
69 Chlorodibromomethane	129	7.709	7.709	0.000	89	248999	250.0	253.8	
109 n-Butyl acetate	43	7.757	7.757	0.000	96	1704514	250.0	241.6	
70 Ethylene Dibromide	107	7.818	7.818	0.000	99	118639	250.0	90.9	
71 Chlorobenzene	112	8.379	8.373	0.006	90	1423130	250.0	245.0	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	95	439623	250.0	226.7	
73 Ethylbenzene	91	8.513	8.513	0.000	98	2052534	250.0	255.6	
74 m-Xylene & p-Xylene	106	8.654	8.648	0.006	97	799696	250.0	251.5	
75 o-Xylene	106	9.093	9.093	0.000	95	752233	250.0	251.0	
76 Styrene	104	9.111	9.111	0.000	92	1257255	250.0	242.9	
77 Bromoform	173	9.294	9.294	0.000	95	127632	250.0	265.2	
78 Isopropylbenzene	105	9.525	9.525	0.000	96	1656562	250.0	233.1	
79 Bromobenzene	156	9.849	9.842	0.007	89	522753	250.0	245.9	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	96	482257	250.0	246.1	
81 1,2,3-Trichloropropane	75	9.916	9.909	0.007	91	288408	250.0	188.5	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.946	0.000	81	71332	250.0	183.1	
83 N-Propylbenzene	91	10.007	10.001	0.006	99	1929112	250.0	244.5	
84 2-Chlorotoluene	91	10.086	10.080	0.006	95	1383544	250.0	244.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.214	10.214	0.000	98	1567849	250.0	238.2	
86 1,3,5-Trimethylbenzene	105	10.220	10.220	0.000	95	1502245	250.0	225.2	
87 tert-Butylbenzene	119	10.592	10.592	0.000	96	2137657	250.0	241.4	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	1360874	250.0	221.8	
89 sec-Butylbenzene	105	10.854	10.854	0.000	95	1524750	250.0	214.0	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	98	917027	250.0	244.5	
91 4-Isopropyltoluene	119	11.043	11.037	0.006	98	1079268	250.0	234.7	
92 1,4-Dichlorobenzene	146	11.068	11.062	0.006	94	917070	250.0	248.7	
110 1,2,3-Trimethylbenzene	105	11.147	11.141	0.006	98	1314013	250.0	247.9	
113 Benzyl chloride	126	11.238	11.238	0.000	99	71921	250.0	252.7	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	859046	250.0	259.0	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	979522	250.0	235.5	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.433	0.006	80	52579	250.0	248.1	
112 1,3,5-Trichlorobenzene	180	12.702	12.696	0.006	96	476910	250.0	233.8	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	95	404545	250.0	236.7	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	172824	250.0	226.1	
98 Naphthalene	128	13.732	13.726	0.006	97	1332781	250.0	241.3	
99 1,2,3-Trichlorobenzene	180	14.031	14.025	0.006	96	364968	250.0	236.7	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		500.0	524.5	
S 100 Xylenes, Total	1				0		500.0	502.6	
S 102 1,3-Dichloropropene, Total	1				0		500.0	343.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

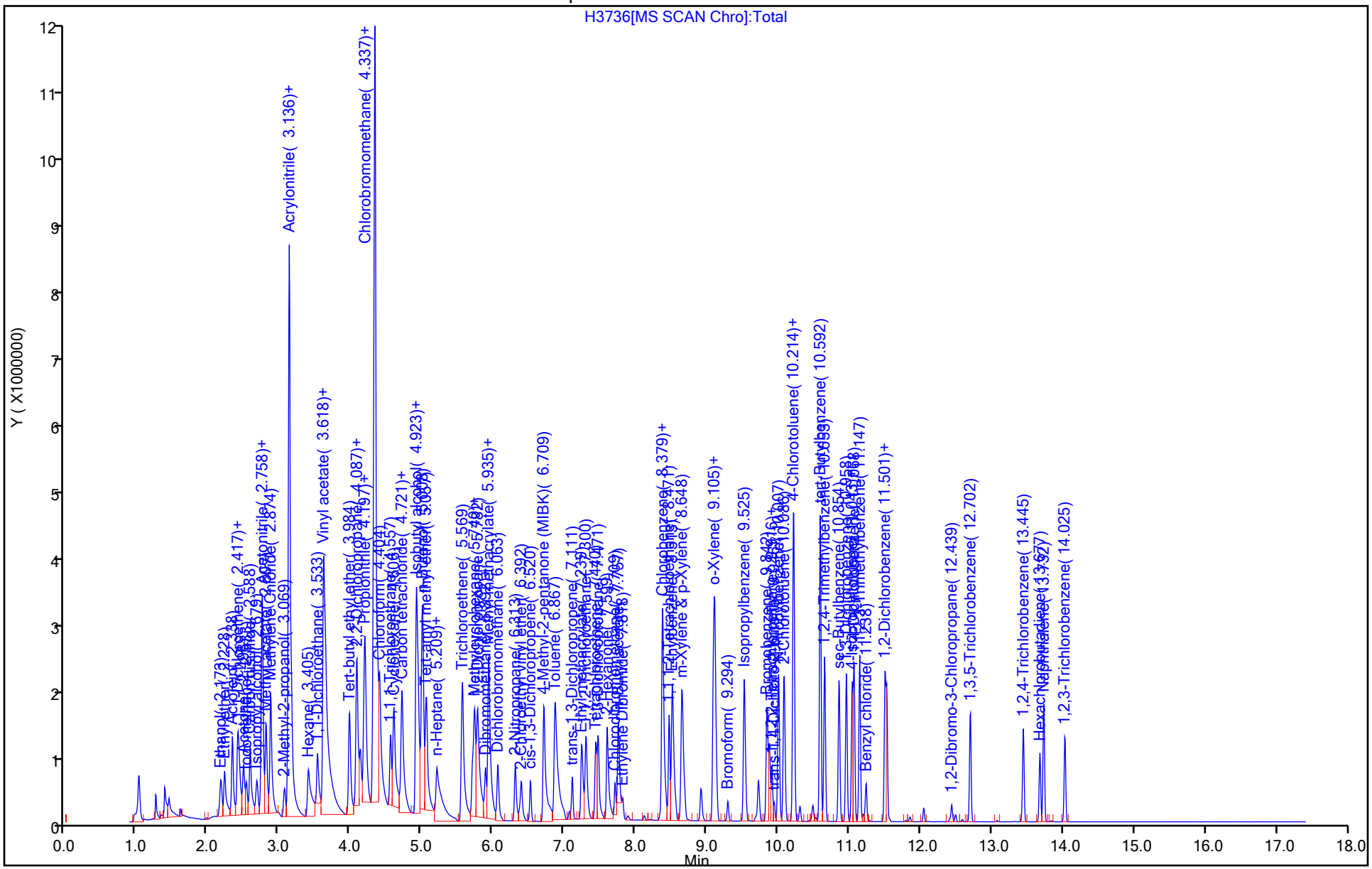
VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00219	Amount Added: 250.00	Units: uL

Report Date: 10-Nov-2020 04:13:57 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D

Injection Date:	09-Nov-2020 07:12:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std11			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

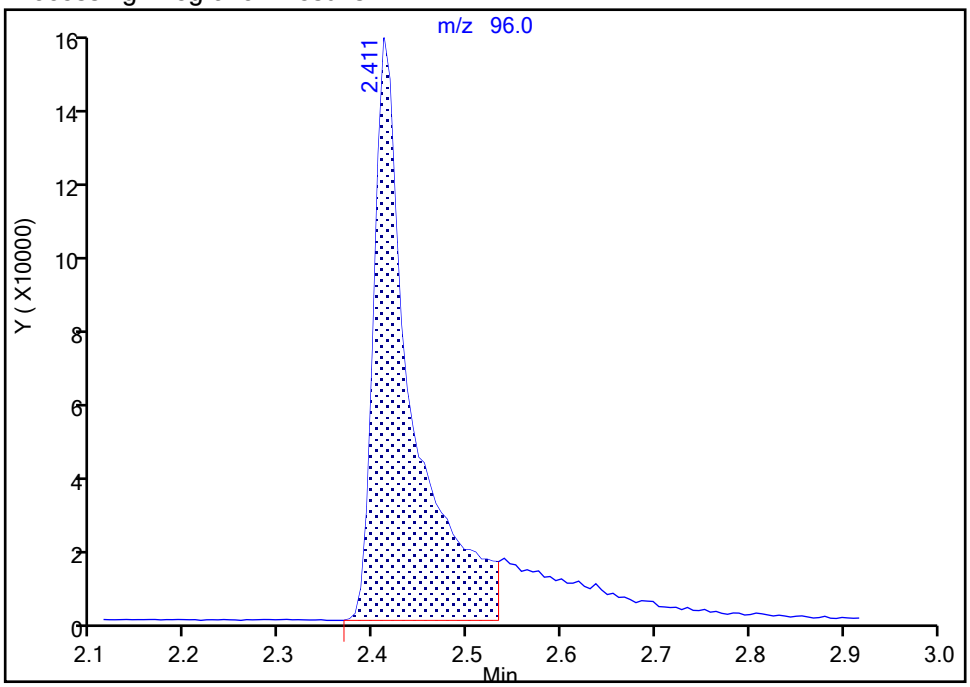
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D
Injection Date: 09-Nov-2020 07:12:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

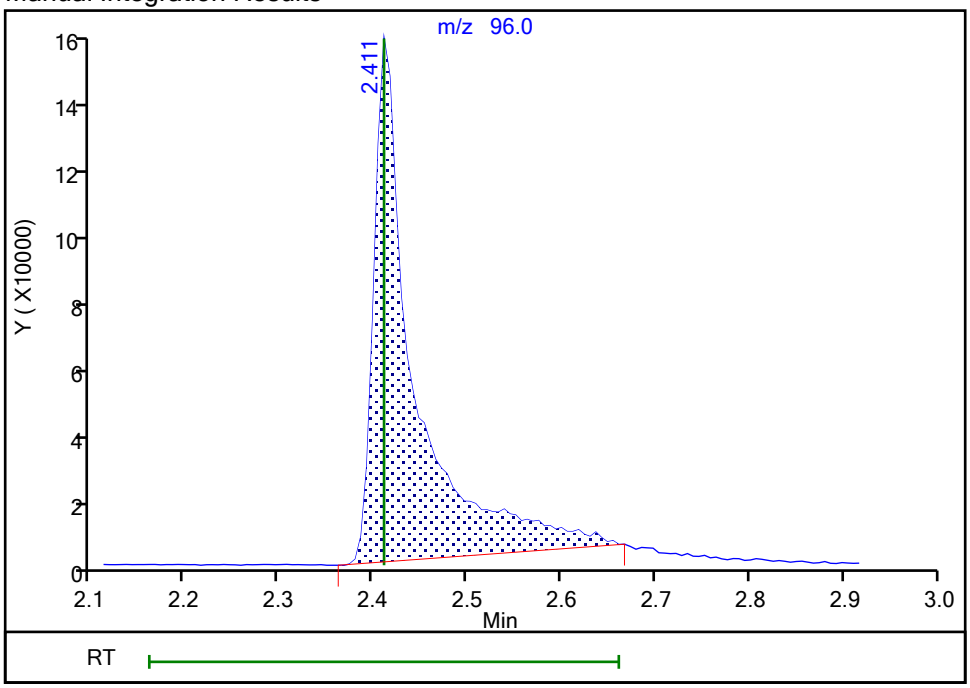
Processing Integration Results

RT: 2.41
Area: 448348
Amount: 12.197576
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 477157
Amount: 242.9879
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:08:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

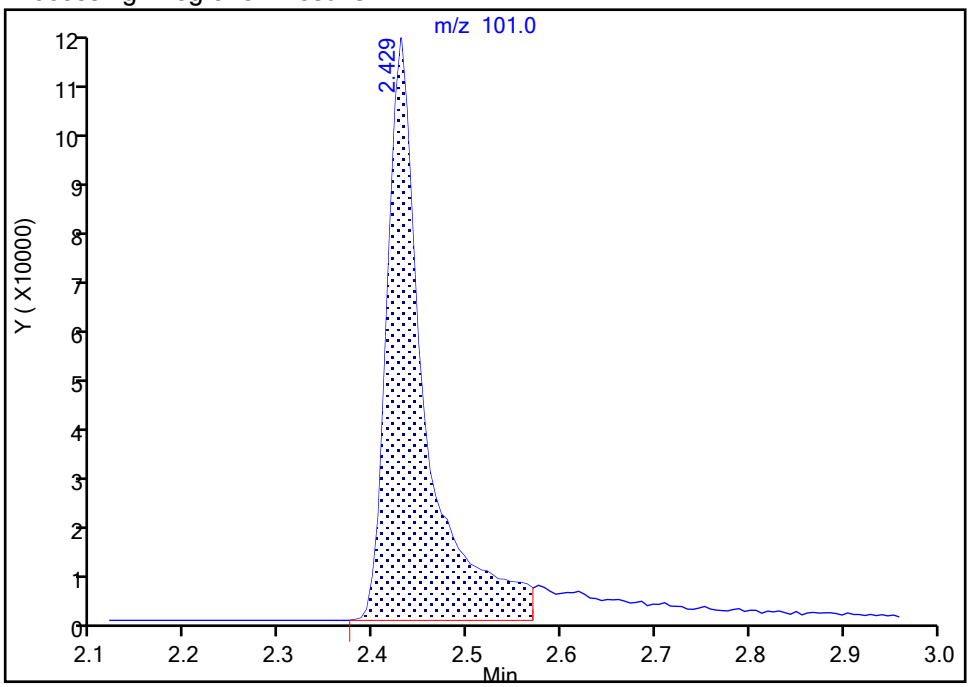
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D
Injection Date: 09-Nov-2020 07:12:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

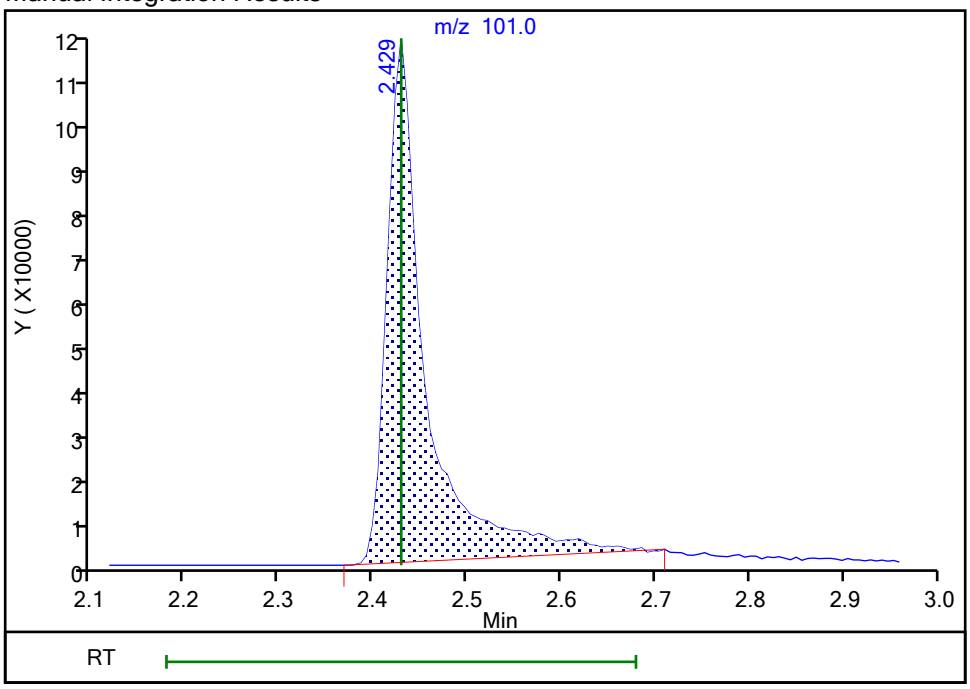
Processing Integration Results

RT: 2.43
Area: 330243
Amount: 14.196920
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 331865
Amount: 215.8649
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:08:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

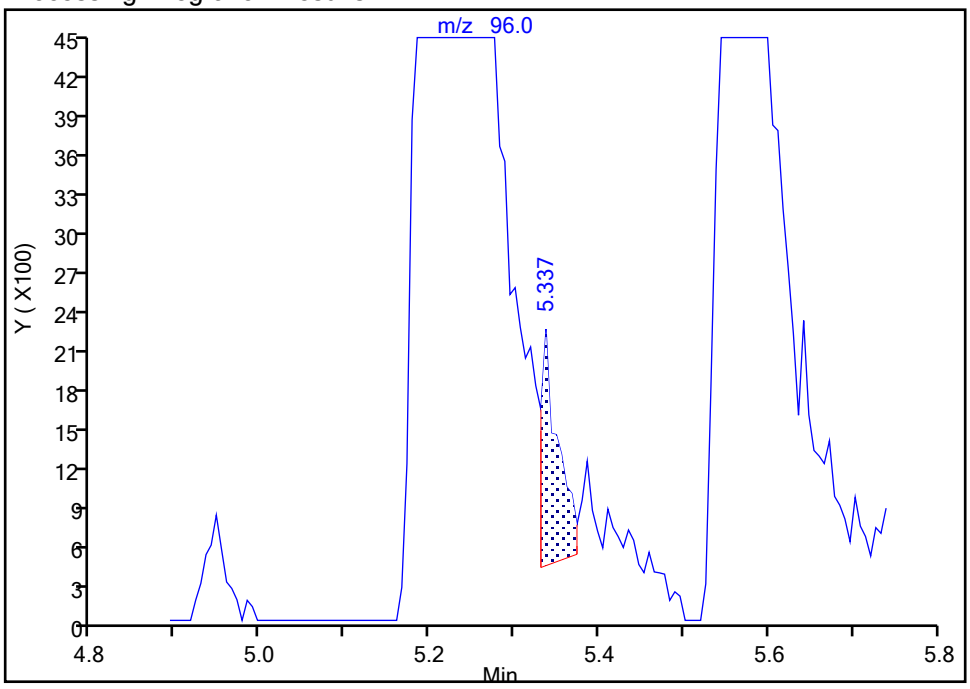
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D
Injection Date: 09-Nov-2020 07:12:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

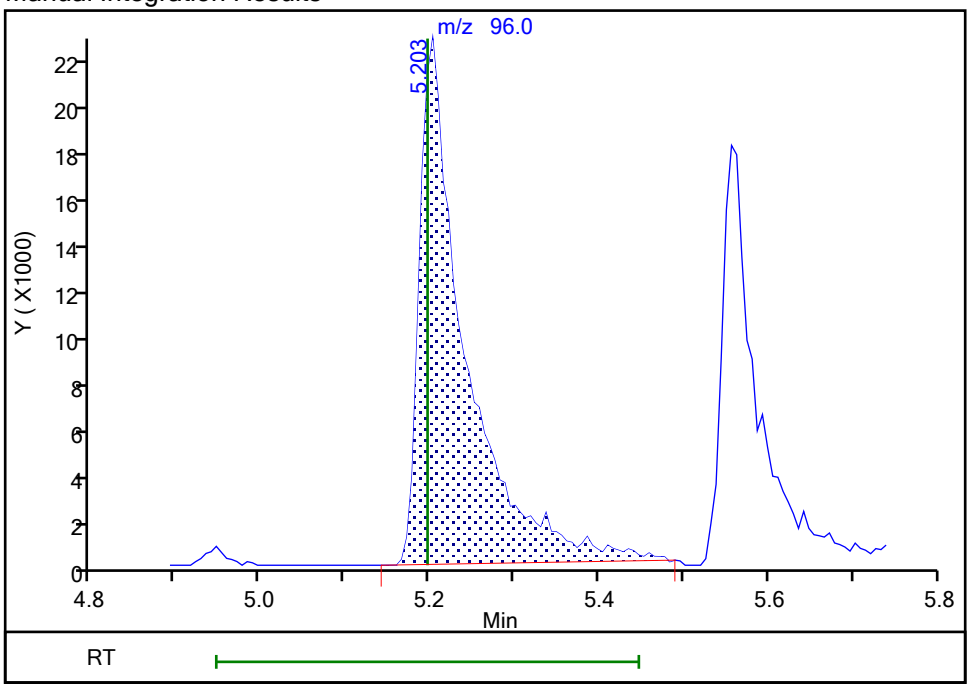
Processing Integration Results

RT: 5.34
Area: 2573
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 84316
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:08:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

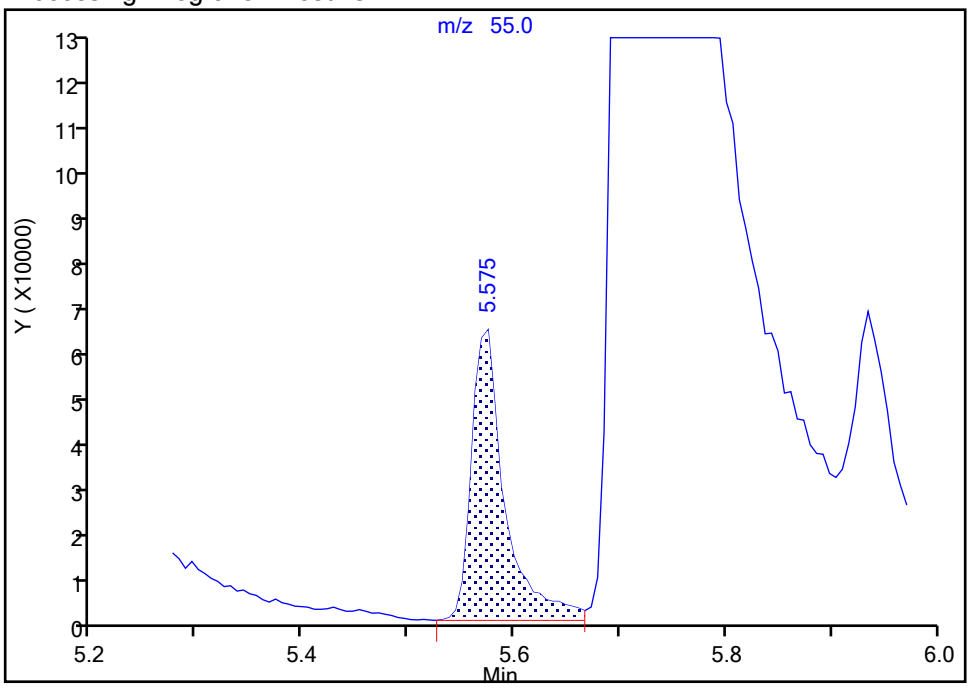
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D
Injection Date: 09-Nov-2020 07:12:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

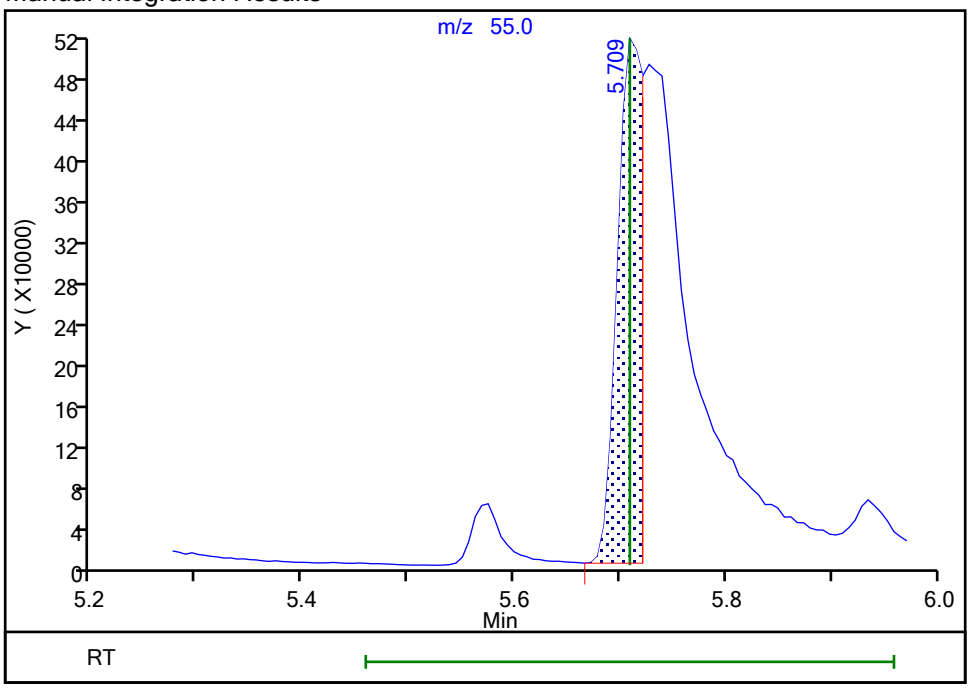
Processing Integration Results

RT: 5.57
Area: 131070
Amount: 10.365479
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 868254
Amount: 252.5000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:09:09
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

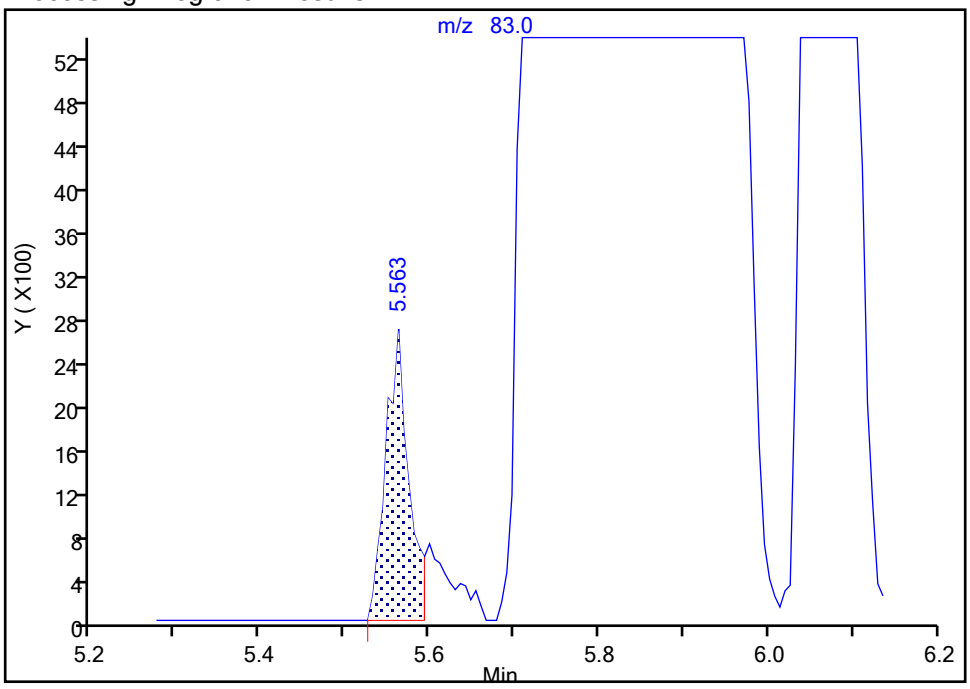
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3736.D
Injection Date: 09-Nov-2020 07:12:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

114 Methylcyclohexane, CAS: 108-87-2

Signal: 1

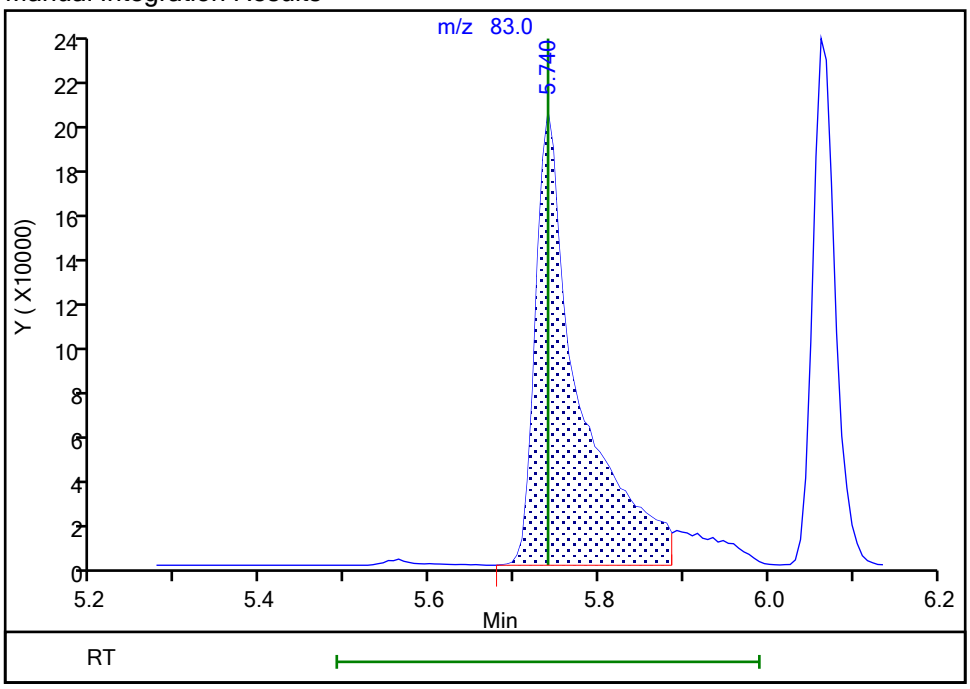
Processing Integration Results

RT: 5.56
Area: 5047
Amount: 1.906070
Amount Units: ug/l



Manual Integration Results

RT: 5.74
Area: 712165
Amount: 243.4475
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:09:17
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Report Date: 10-Nov-2020 04:14:13 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 09-Nov-2020 07:34:30 ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:10 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 08:31:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.002	2.984	0.018	0	39395	1000.0	1000.0	
* 122 Fluorobenzene	96	5.203	5.197	0.006	91	81496	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	31	11055	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.349	8.349	0.000	89	63488	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.043	11.037	0.006	45	27722	50.0	50.0	a
17 Ethanol	45	2.198	2.167	0.031	99	1629878	20000	21377	
18 Ethyl ether	59	2.228	2.228	0.000	88	1218021	500.0	576.0	
19 Acrolein	56	2.338	2.338	0.000	99	2284749	2382.0	2650.0	
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	993324	500.0	522.9	M
21 112TCTFE	101	2.429	2.429	0.000	93	704718	500.0	474.3	M
22 Acetone	43	2.496	2.490	0.006	97	1922372	1000.0	1028.7	
23 Iodomethane	142	2.533	2.539	-0.006	98	522595	500.0	450.1	
24 Carbon disulfide	76	2.588	2.588	0.000	97	2860718	500.0	565.7	
105 Isopropyl alcohol	45	2.698	2.673	0.025	99	1635640	5000.0	5036.5	
118 Acetonitrile	40	2.758	2.746	0.012	90	2782178	5000.0	5072.7	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	83	415093	500.0	519.0	
26 Methyl acetate	43	2.813	2.807	0.006	99	4499628	1000.0	1116.9	
27 Methylene Chloride	84	2.874	2.874	0.000	85	1235744	500.0	603.8	
35 2-Methyl-2-propanol	59	3.082	3.057	0.025	98	1314219	5000.0	4622.4	
30 Acrylonitrile	53	3.149	3.130	0.019	99	12109545	5000.0	5166.6	
28 trans-1,2-Dichloroethene	96	3.130	3.136	-0.006	87	1084978	500.0	521.0	
29 Methyl tert-butyl ether	73	3.167	3.161	0.006	90	1910950	500.0	434.5	
31 Hexane	57	3.405	3.405	0.000	96	1621348	500.0	713.6	
32 1,1-Dichloroethane	63	3.533	3.533	0.000	96	2463801	500.0	523.6	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	46	2561100	500.0	516.7	
33 Vinyl acetate	86	3.618	3.618	0.000	96	539552	1000.0	998.3	
36 Isopropyl ether	87	3.649	3.642	0.007	86	666586	500.0	721.4	M
37 Tert-butyl ethyl ether	59	3.984	3.978	0.006	96	3348899	500.0	409.6	
38 2,2-Dichloropropane	77	4.081	4.075	0.006	89	1137988	500.0	430.4	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	89	1423962	500.0	560.7	
40 2-Butanone (MEK)	43	4.142	4.130	0.012	95	2074738	1000.0	1032.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.203	4.185	0.018	99	4915826	5000.0	5349.3	
104 Ethyl acetate	43	4.216	4.203	0.013	98	5962914	1000.0	1212.1	
42 Chlorobromomethane	128	4.313	4.313	0.000	77	589213	500.0	537.8	
43 Methacrylonitrile	67	4.362	4.331	0.031	94	6064455	5000.0	5233.9	
44 Tetrahydrofuran	71	4.386	4.374	0.012	90	301545	1000.0	1072.6	
45 Chloroform	83	4.411	4.404	0.007	94	1914419	500.0	515.4	
46 1,1,1-Trichloroethane	97	4.563	4.557	0.006	96	1567622	500.0	483.8	
47 Cyclohexane	56	4.606	4.606	0.000	90	3345319	500.0	545.5	
48 Carbon tetrachloride	117	4.715	4.709	0.006	96	862288	500.0	410.3	
49 1,1-Dichloropropene	75	4.722	4.721	0.001	88	1542641	500.0	543.9	
50 Benzene	78	4.923	4.917	0.006	92	4651820	500.0	550.6	
108 Isobutyl alcohol	43	4.941	4.917	0.024	96	2498144	12500	13205	
51 1,2-Dichloroethane	62	4.947	4.941	0.006	94	1412425	500.0	425.9	
116 n-Butanol	56	5.008	5.008	0.000	44	1768796	12500	10912	a
52 Tert-amyl methyl ether	73	5.063	5.057	0.006	88	1937769	500.0	422.2	
53 n-Heptane	43	5.209	5.209	0.000	93	2511710	500.0	700.5	
54 Trichloroethene	132	5.563	5.557	0.006	94	1345161	500.0	533.1	
117 Ethyl acrylate	55	5.715	5.709	0.006	97	1679856	500.0	505.4	M
114 Methylcyclohexane	83	5.740	5.740	0.000	76	1521889	500.0	538.2	M
55 1,2-Dichloropropane	63	5.782	5.776	0.006	96	1257808	500.0	498.4	
56 Dibromomethane	93	5.892	5.892	0.000	97	483755	500.0	459.1	
57 Methyl methacrylate	69	5.941	5.935	0.006	88	1759256	1000.0	1185.5	
115 1,4-Dioxane	58	5.947	5.941	0.006	81	358473	10000	5967.4	
58 Dichlorobromomethane	83	6.069	6.063	0.006	95	863128	500.0	527.1	
106 2-Nitropropane	43	6.313	6.307	0.006	95	1460649	1000.0	1081.7	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	89	781524	500.0	493.6	
60 cis-1,3-Dichloropropene	75	6.526	6.526	0.000	84	471517	500.0	322.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.715	6.709	0.006	97	4561389	1000.0	1059.1	
62 Toluene	92	6.874	6.867	0.007	96	2910171	500.0	542.1	
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	90	448985	500.0	393.3	
64 Ethyl methacrylate	69	7.245	7.239	0.006	86	1305232	500.0	531.6	
65 1,1,2-Trichloroethane	83	7.306	7.300	0.006	93	658179	500.0	486.8	
66 Tetrachloroethene	166	7.447	7.440	0.007	95	1116244	500.0	551.3	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	705828	500.0	298.8	
68 2-Hexanone	43	7.605	7.599	0.006	97	3113493	1000.0	1068.6	
69 Chlorodibromomethane	129	7.715	7.709	0.006	89	509649	500.0	537.4	
109 n-Butyl acetate	43	7.758	7.757	0.001	97	3582043	500.0	523.0	
70 Ethylene Dibromide	107	7.818	7.818	0.000	98	215900	500.0	171.1	
71 Chlorobenzene	112	8.379	8.373	0.006	90	2880480	500.0	483.8	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	95	793735	500.0	399.3	
73 Ethylbenzene	91	8.520	8.513	0.007	98	4066729	500.0	494.1	
74 m-Xylene & p-Xylene	106	8.654	8.648	0.006	97	1600868	500.0	491.2	
75 o-Xylene	106	9.099	9.093	0.006	98	1478010	500.0	481.1	
76 Styrene	104	9.117	9.111	0.006	90	2487172	500.0	468.8	
77 Bromoform	173	9.300	9.294	0.006	96	269894	500.0	547.1	
78 Isopropylbenzene	105	9.525	9.525	0.000	96	3191326	500.0	438.2	
79 Bromobenzene	156	9.849	9.842	0.007	90	1037474	500.0	476.1	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	96	996918	500.0	496.2	
81 1,2,3-Trichloropropane	75	9.916	9.909	0.007	92	545820	500.0	348.8	
82 trans-1,4-Dichloro-2-butene	53	9.952	9.946	0.006	80	145803	500.0	365.1	
83 N-Propylbenzene	91	10.007	10.001	0.006	99	3702479	500.0	457.8	
84 2-Chlorotoluene	91	10.086	10.080	0.006	95	2754770	500.0	474.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.220	10.214	0.006	98	3076969	500.0	456.0	
86 1,3,5-Trimethylbenzene	105	10.220	10.220	0.000	95	2890816	500.0	422.7	
87 tert-Butylbenzene	119	10.598	10.592	0.006	96	3915092	500.0	431.3	
88 1,2,4-Trimethylbenzene	105	10.659	10.653	0.006	98	2621409	500.0	416.9	
89 sec-Butylbenzene	105	10.861	10.854	0.007	95	2860807	500.0	391.7	
90 1,3-Dichlorobenzene	146	10.964	10.958	0.006	97	1820557	500.0	473.9	
91 4-Isopropyltoluene	119	11.043	11.037	0.006	97	1976461	500.0	442.9	
92 1,4-Dichlorobenzene	146	11.068	11.062	0.006	93	1773853	500.0	495.4	
110 1,2,3-Trimethylbenzene	105	11.147	11.141	0.006	98	2533498	500.0	492.6	
113 Benzyl chloride	126	11.239	11.238	0.001	99	144962	500.0	524.4	
93 1,2-Dichlorobenzene	146	11.507	11.501	0.006	97	1682302	500.0	522.3	
94 n-Butylbenzene	91	11.525	11.525	0.000	99	1814690	500.0	449.3	
95 1,2-Dibromo-3-Chloropropane	75	12.440	12.433	0.007	81	93828	500.0	455.9	
112 1,3,5-Trichlorobenzene	180	12.702	12.696	0.006	96	879127	500.0	444.0	
96 1,2,4-Trichlorobenzene	180	13.445	13.439	0.006	95	744683	500.0	448.6	
97 Hexachlorobutadiene	225	13.677	13.677	0.000	95	302203	500.0	407.0	
98 Naphthalene	128	13.732	13.726	0.006	97	2374685	500.0	442.7	
99 1,2,3-Trichlorobenzene	180	14.031	14.025	0.006	95	669956	500.0	447.4	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		1000.0	1081.7	
S 100 Xylenes, Total	1				0		1000.0	972.4	
S 102 1,3-Dichloropropene, Total	1				0		1000.0	715.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

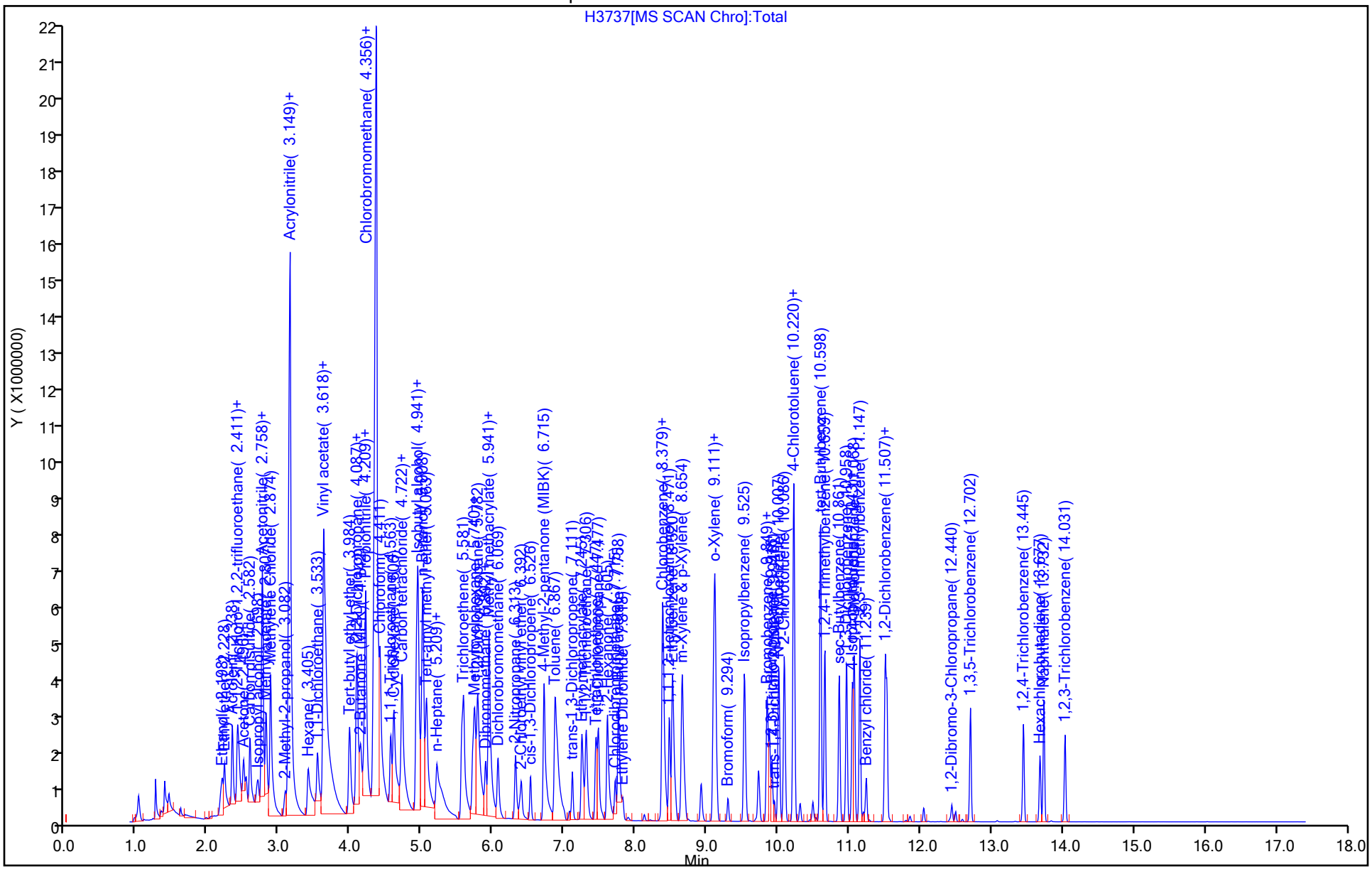
Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00219	Amount Added: 500.00	Units: uL

Report Date: 10-Nov-2020 04:14:13 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D				
Injection Date:	09-Nov-2020 07:34:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std12			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

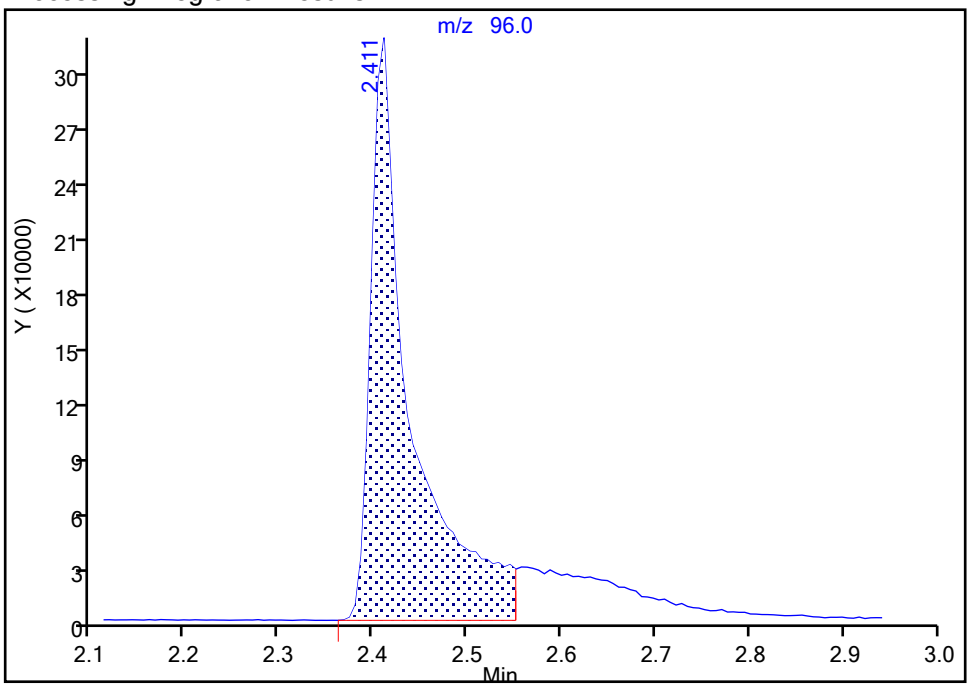
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

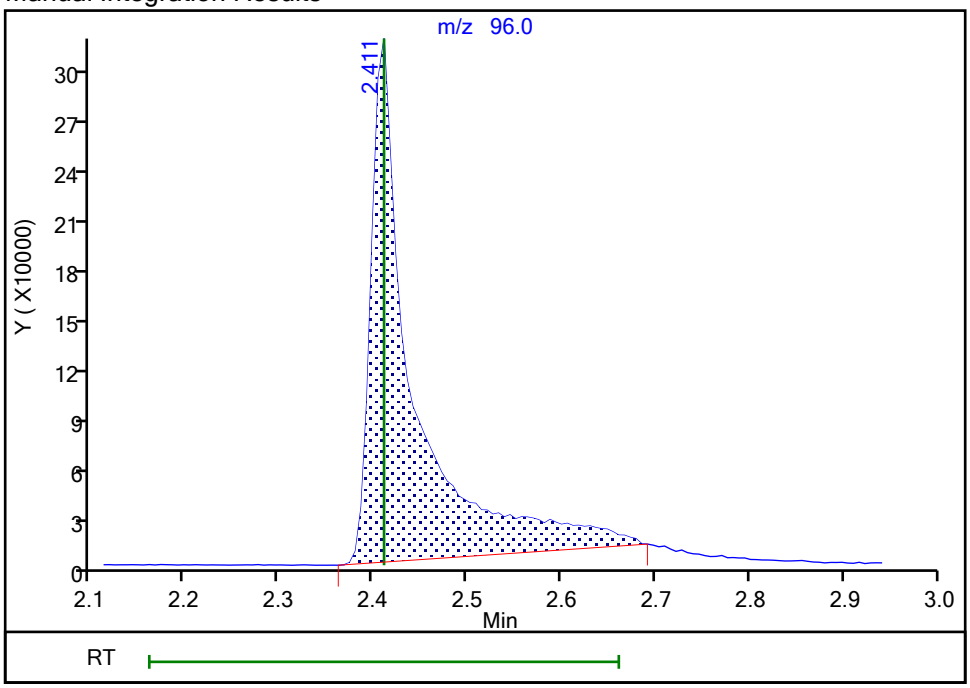
Processing Integration Results

RT: 2.41
Area: 932729
Amount: 5749.9939
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 993324
Amount: 522.8624
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:11:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

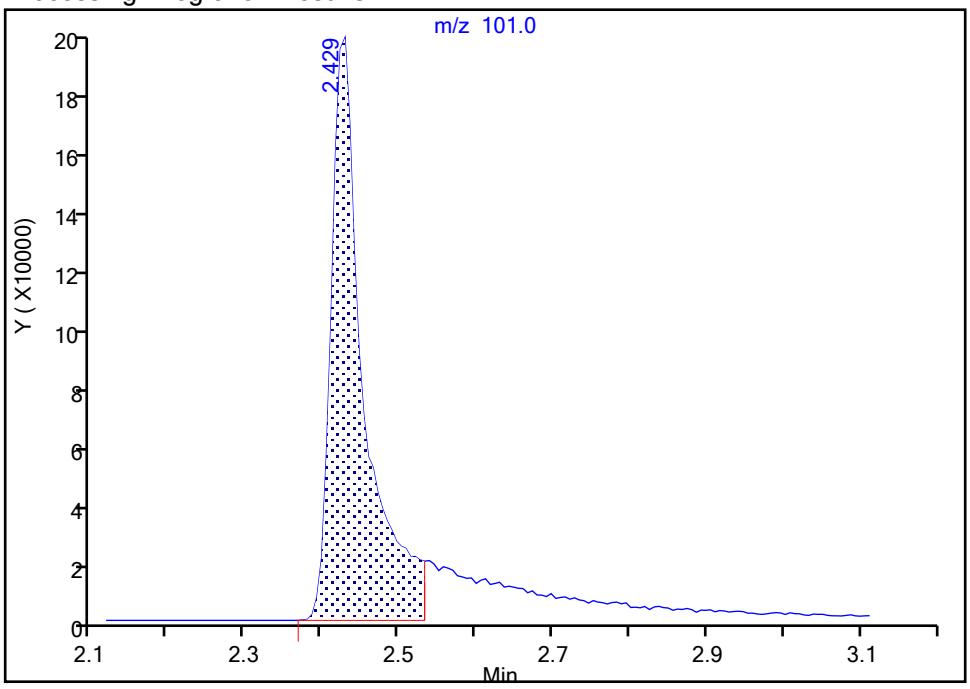
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

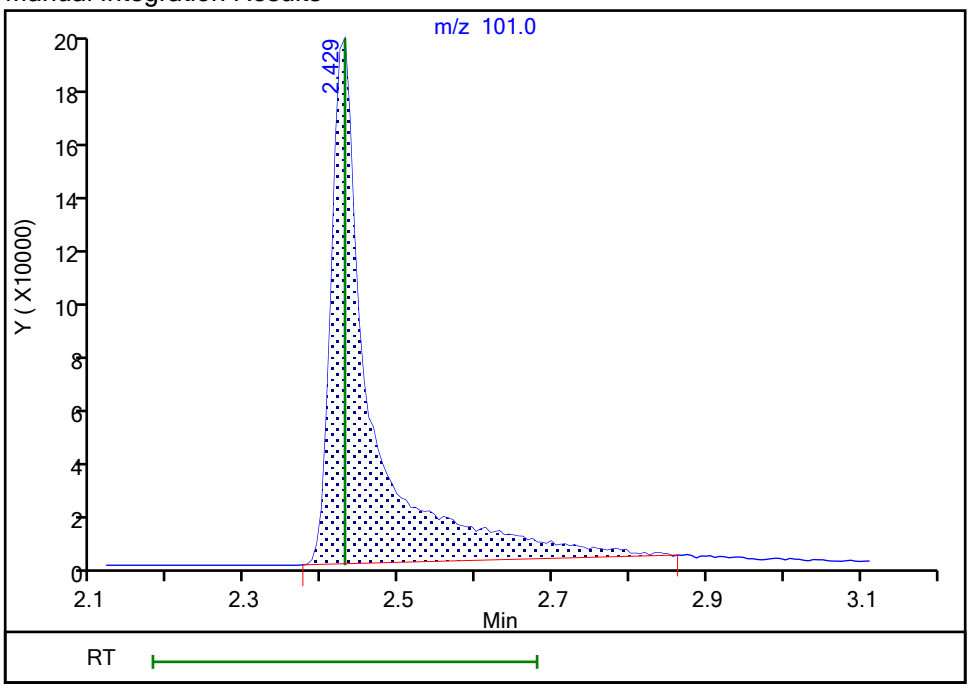
Processing Integration Results

RT: 2.43
Area: 579929
Amount: 5650.5707
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 704718
Amount: 474.2525
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:11:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

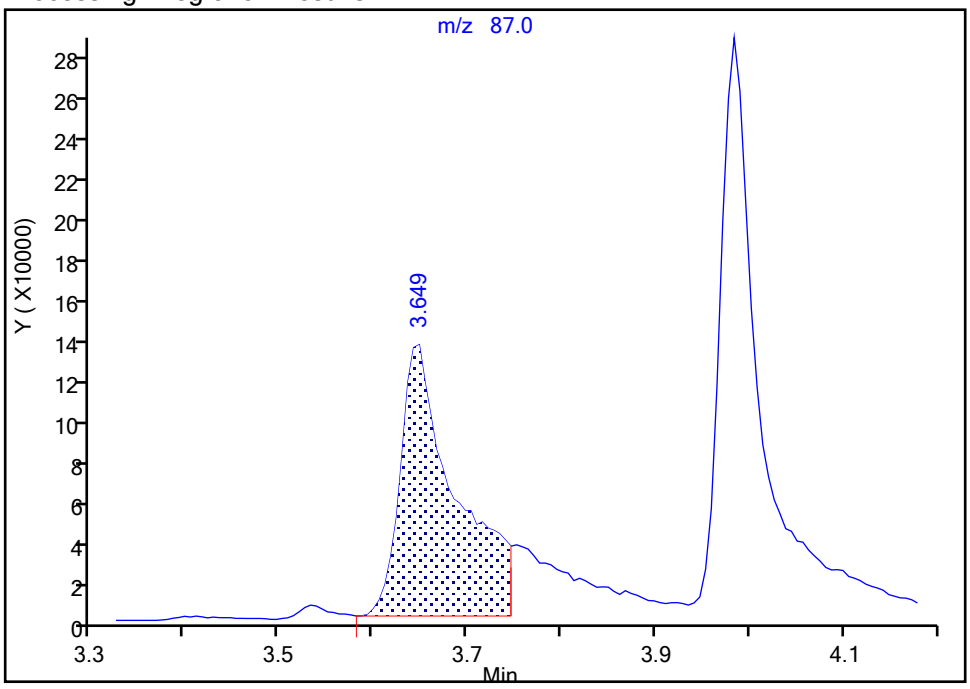
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

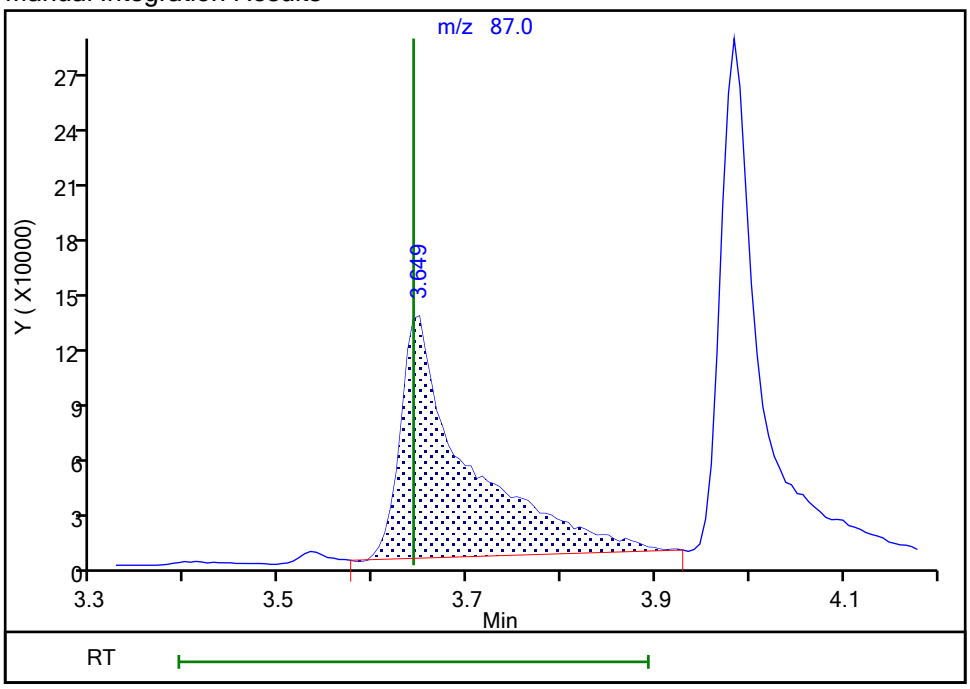
Processing Integration Results

RT: 3.65
Area: 555153
Amount: 5729.3487
Amount Units: ug/l



Manual Integration Results

RT: 3.65
Area: 666586
Amount: 721.3528
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:11:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

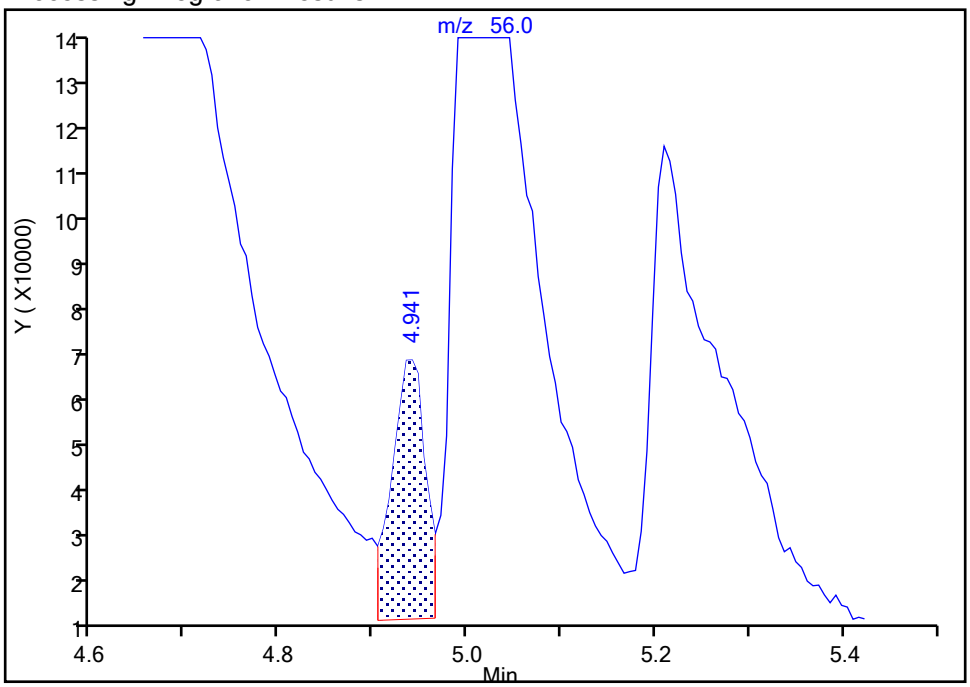
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

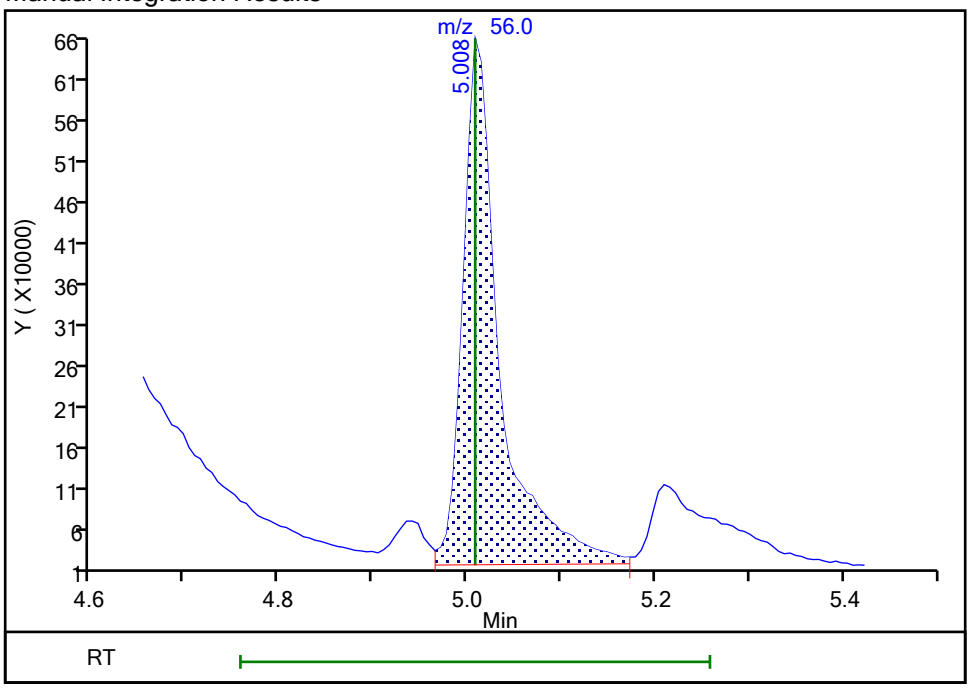
Processing Integration Results

RT: 4.94
Area: 137836
Amount: 87631
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 1768796
Amount: 10912
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:10:50
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

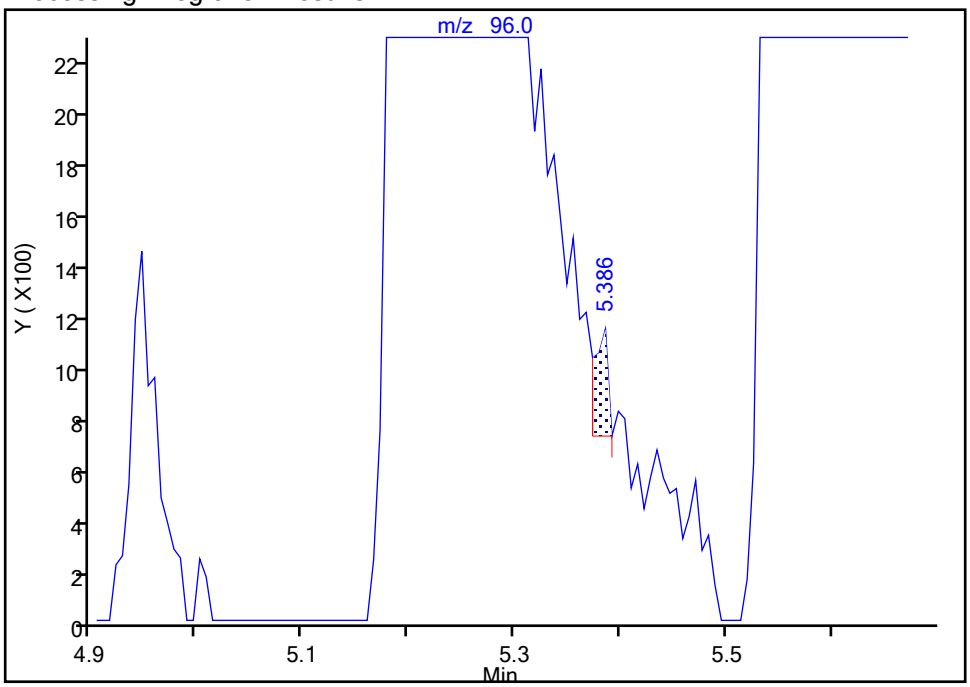
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

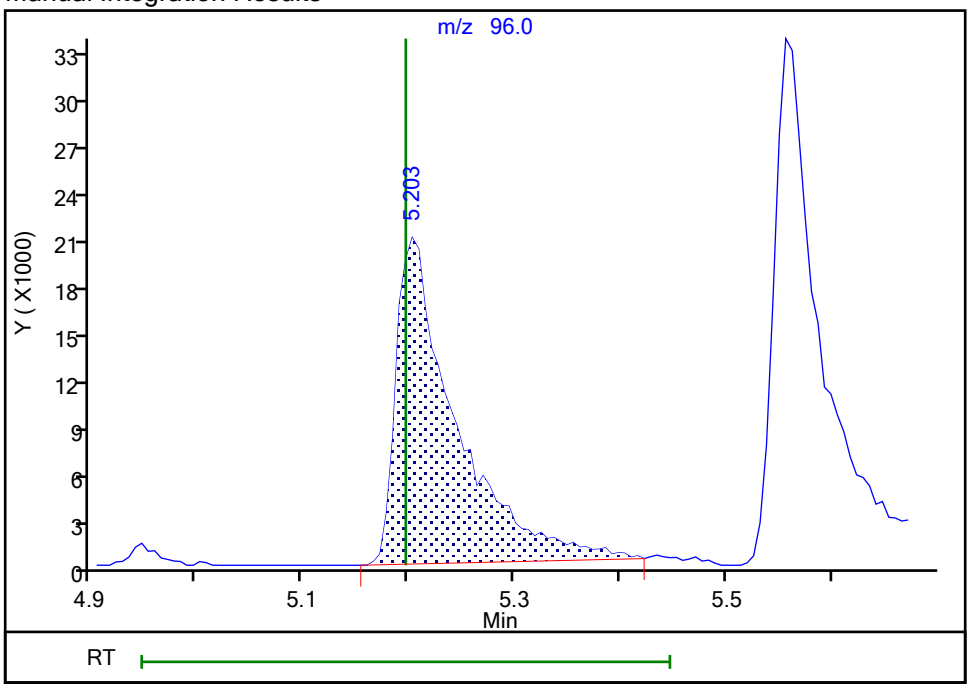
Processing Integration Results

RT: 5.39
Area: 372
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 81496
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:12:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

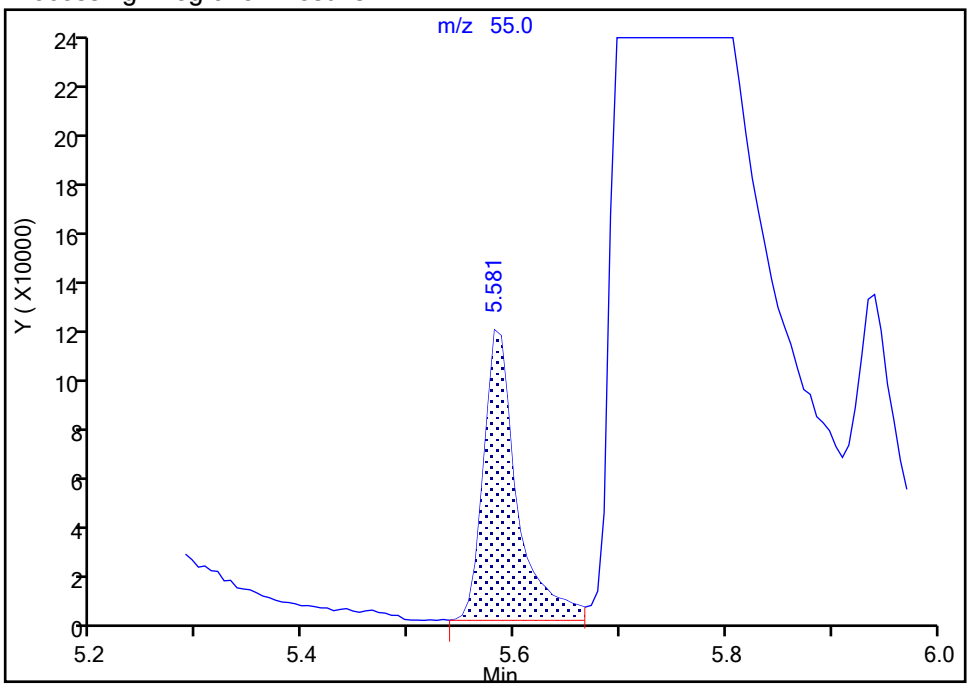
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

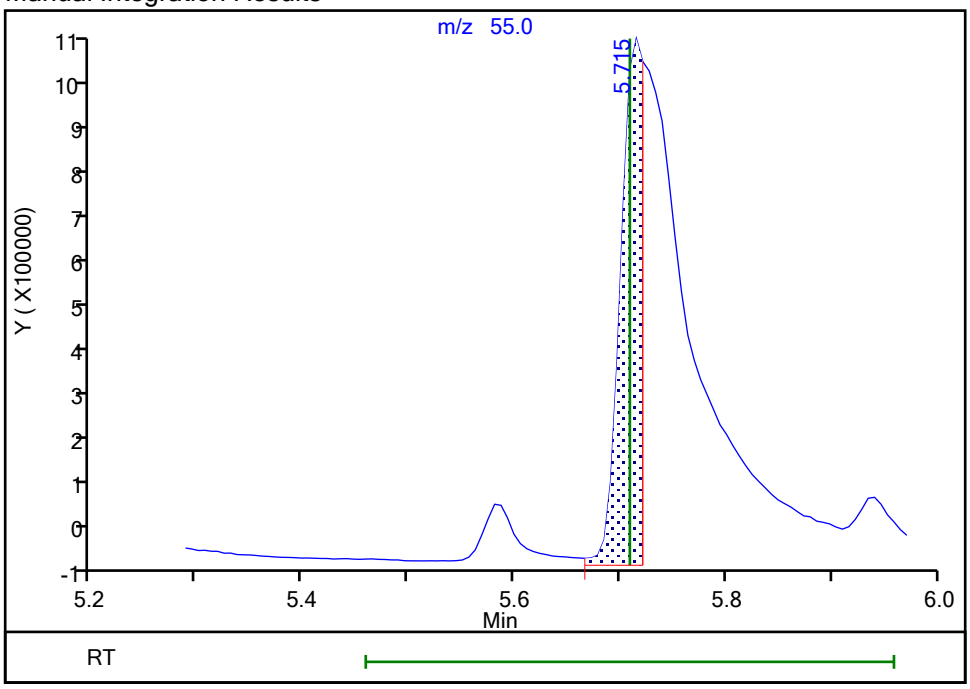
Processing Integration Results

RT: 5.58
Area: 256902
Amount: 4517.1228
Amount Units: ug/l



Manual Integration Results

RT: 5.72
Area: 1679856
Amount: 505.4293
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:10:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

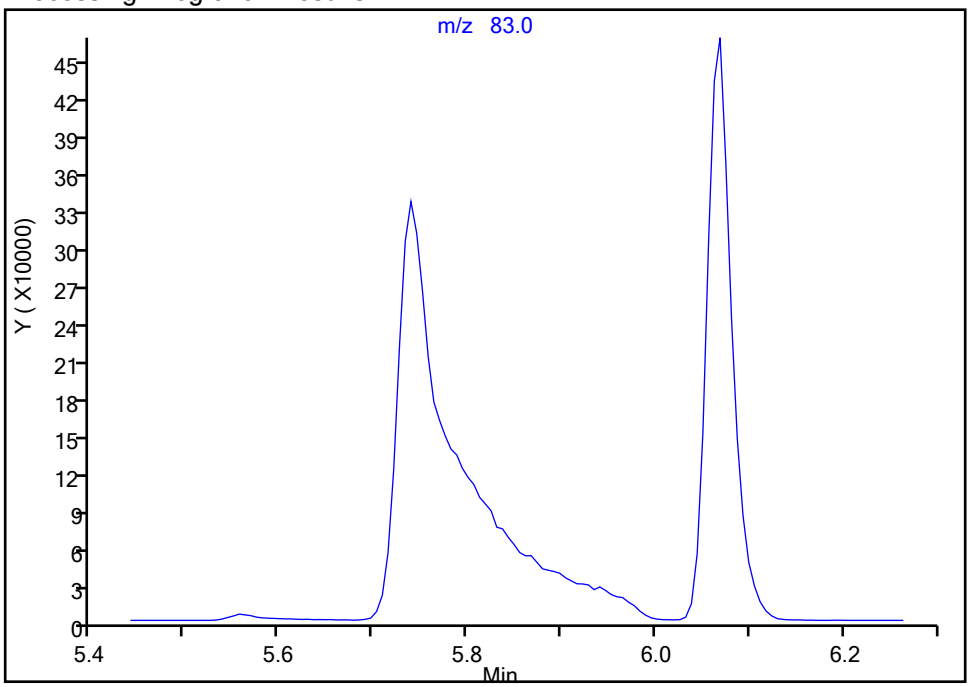
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

114 Methylcyclohexane, CAS: 108-87-2

Signal: 1

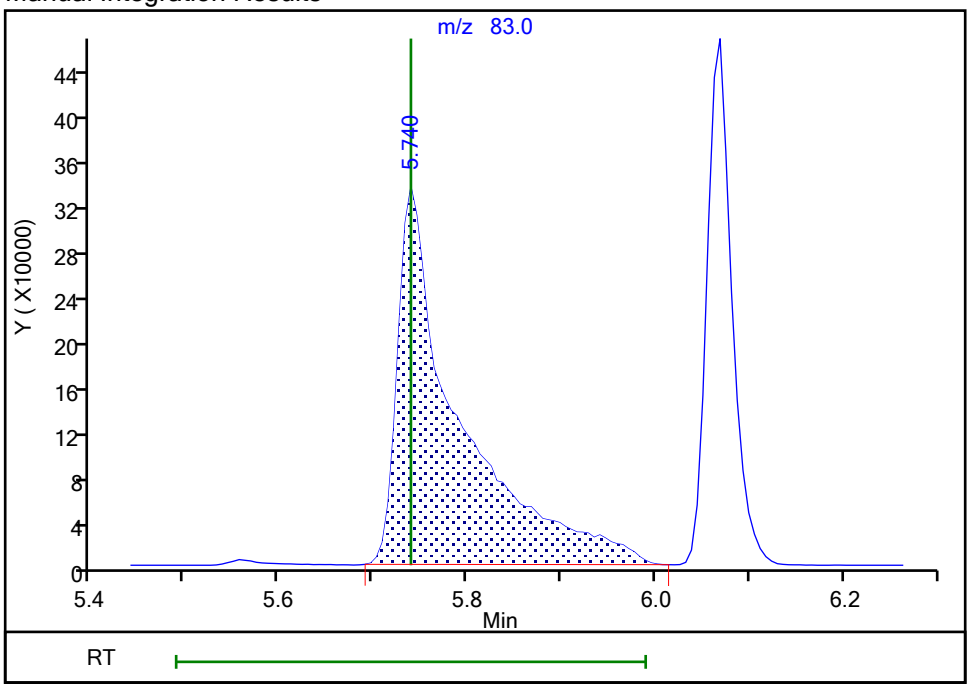
Not Detected
Expected RT: 5.74

Processing Integration Results



Manual Integration Results

RT: 5.74
Area: 1521889
Amount: 538.2467
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:10:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

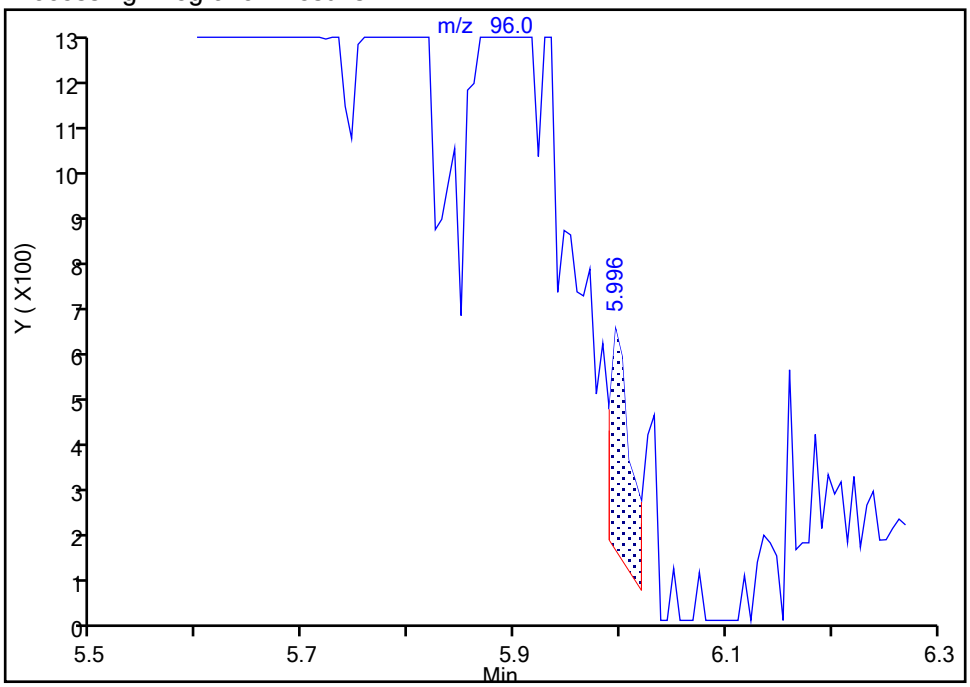
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

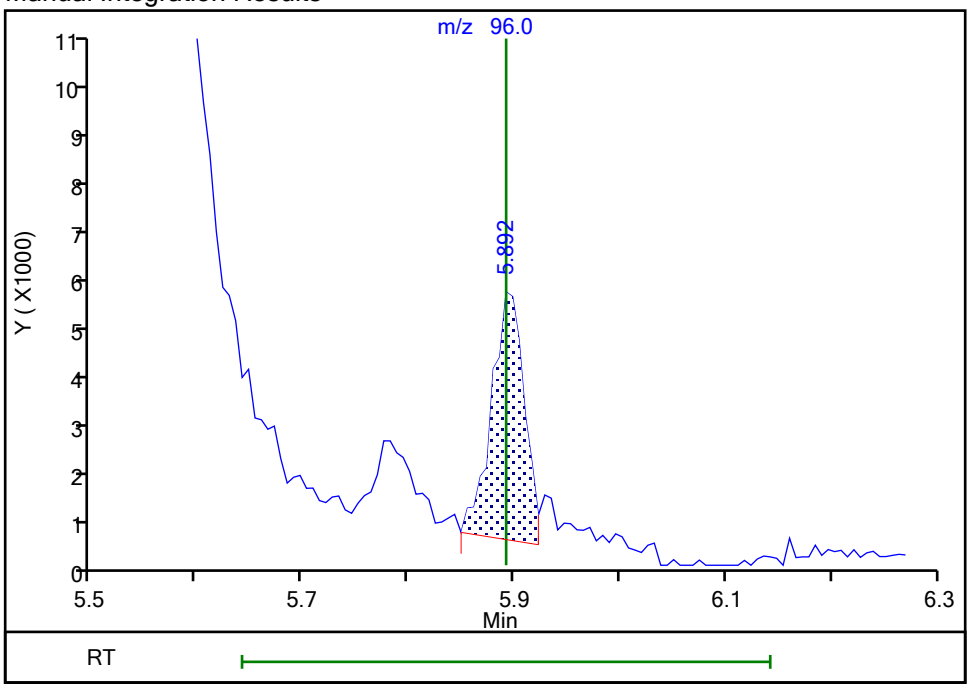
Processing Integration Results

RT: 6.00
Area: 698
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 11055
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:11:59
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

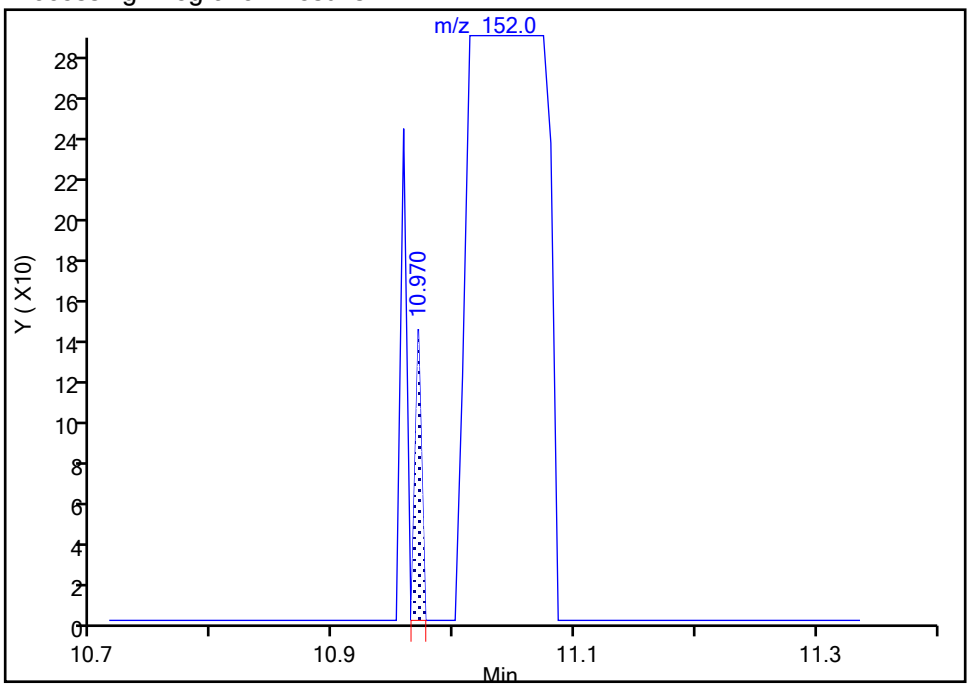
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3737.D
Injection Date: 09-Nov-2020 07:34:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

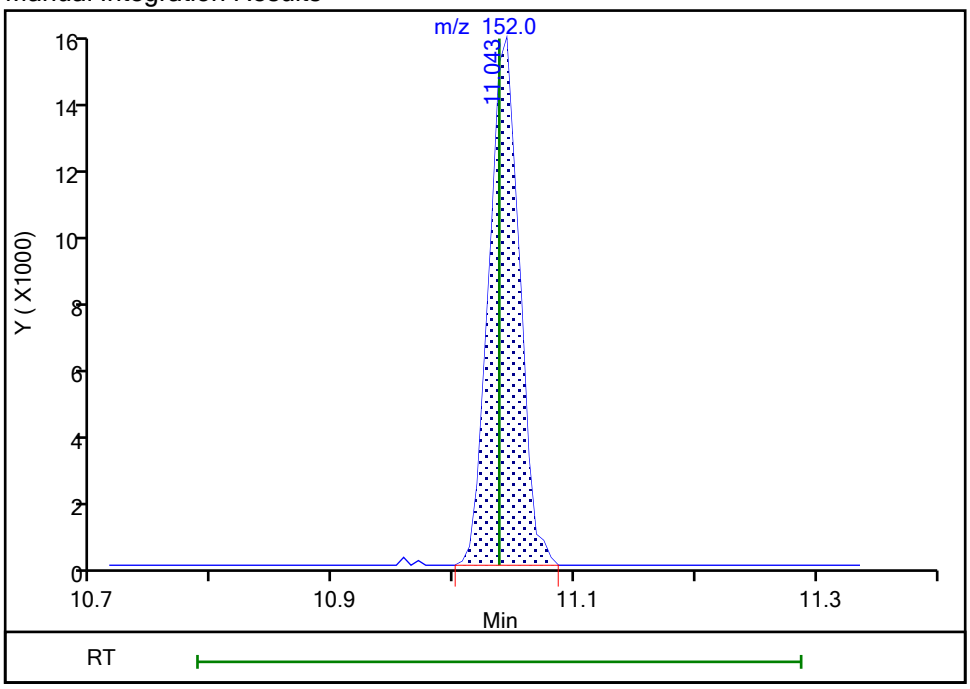
Processing Integration Results

RT: 10.97
Area: 52
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 11.04
Area: 27722
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 08:11:52
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Nov-2020 10:55:30 ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:24 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:08:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	55968	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	81350	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	88	6184	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.349	-0.012	90	65592	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.037	-0.006	95	39973	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	92	16174	50.0	47.7	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	97	71636	50.0	48.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	25254	50.0	49.1	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	95	1102	0.5000	0.3975	M
10 Chloromethane	50	1.271	1.265	0.006	96	3956	0.5000	0.5360	M
11 Vinyl chloride	62	1.350	1.350	0.000	91	2118	0.5000	0.5114	M
12 Butadiene	54	1.387	1.387	0.000	94	2012	0.5000	0.4272	M
13 Bromomethane	94	1.618	1.618	0.000	4	659	0.5000	0.4976	
14 Chloroethane	64	1.710	1.710	0.000	30	1154	0.5000	0.5985	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	95	1432	0.5000	0.4037	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	90	1187	0.5000	0.3826	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

VV_I_GASES_00413 Amount Added: 0.50 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:25 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D

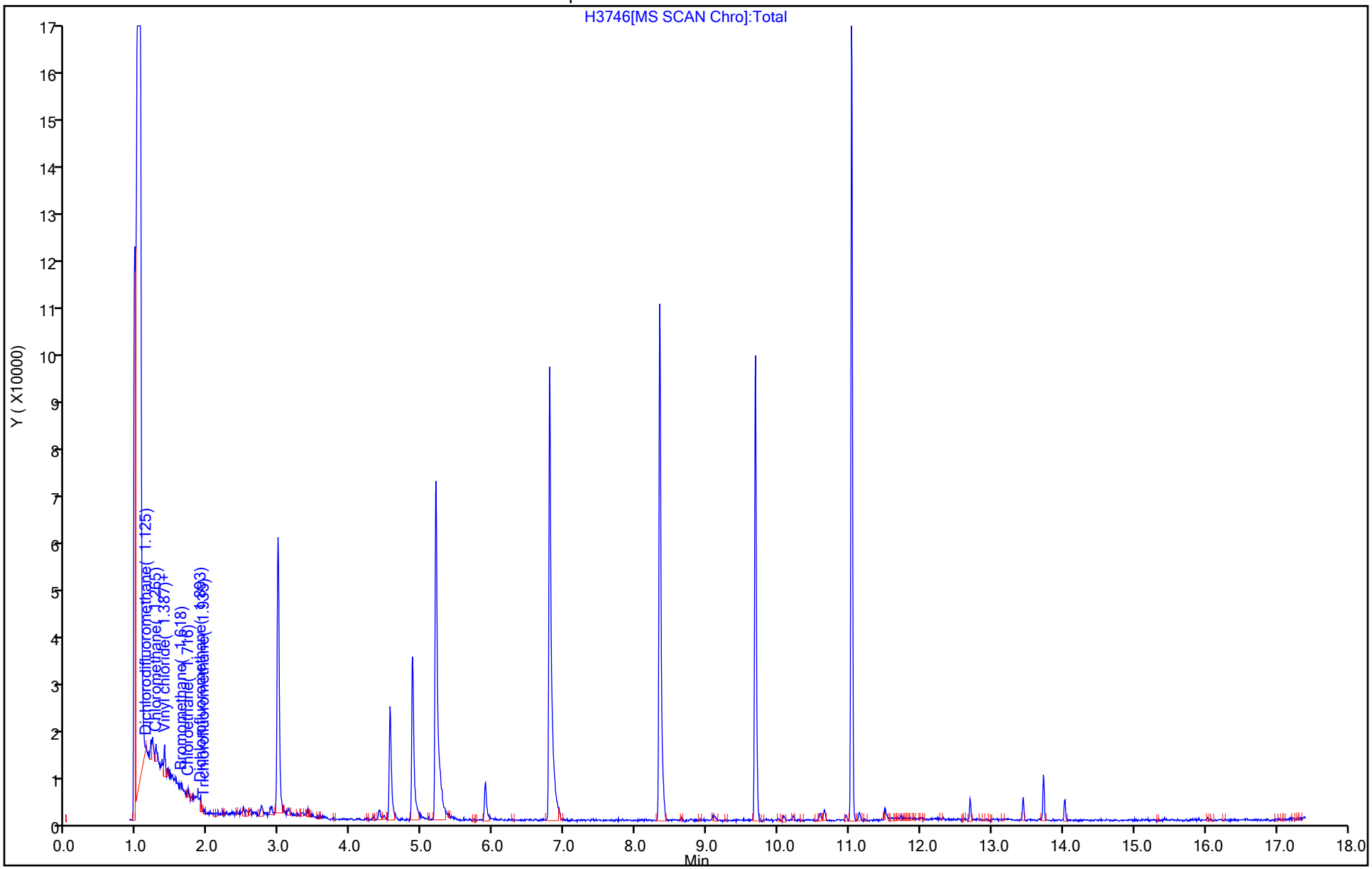
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes Operator ID:

Lims ID: std1 Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 25

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

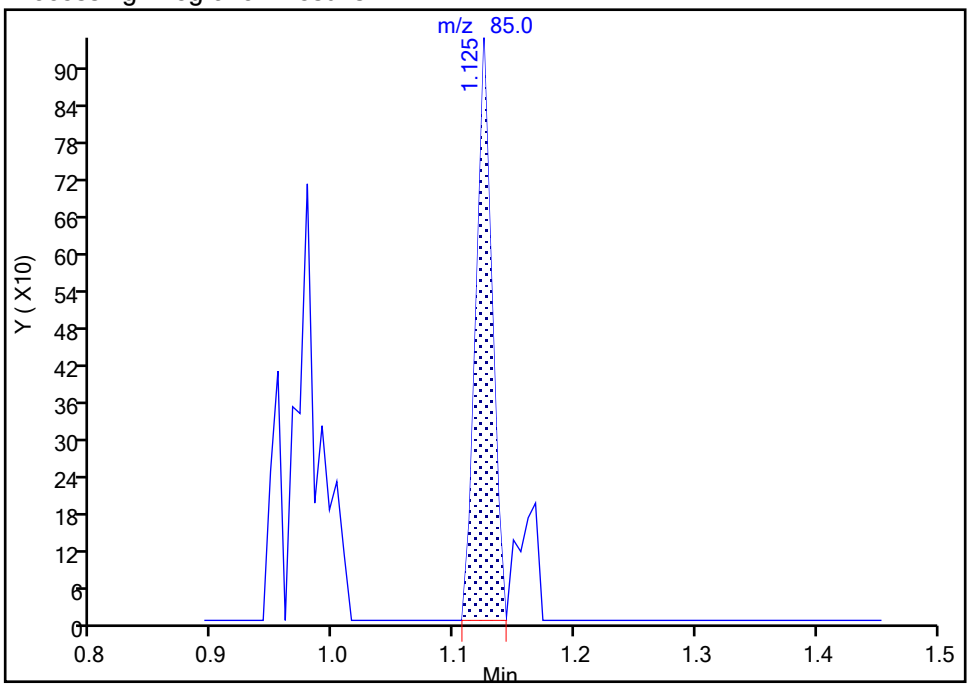
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

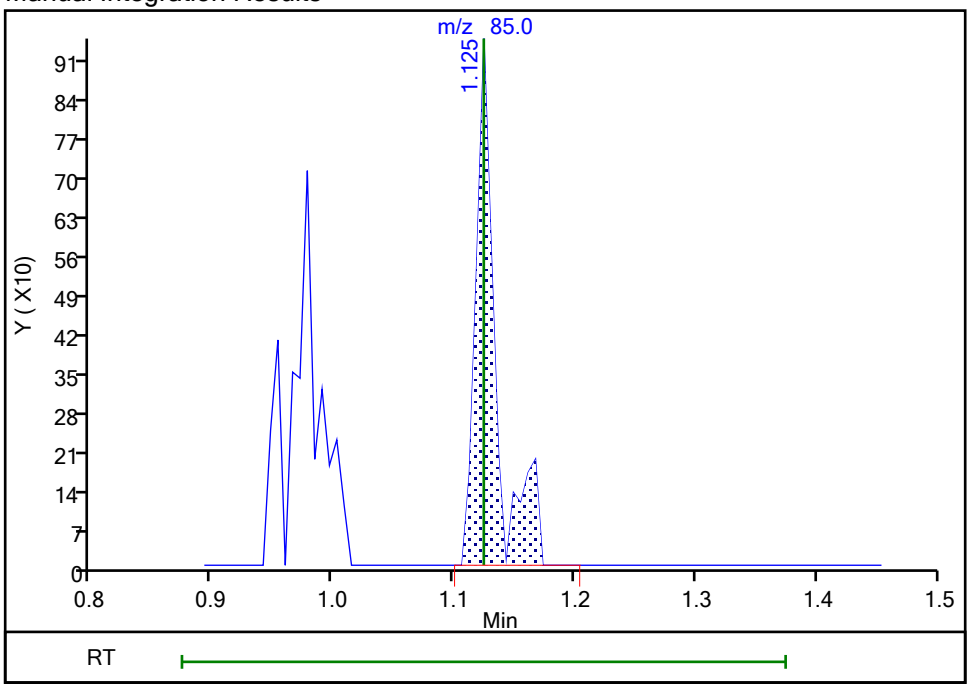
Processing Integration Results

RT: 1.12
Area: 882
Amount: 0.292077
Amount Units: ug/l



Manual Integration Results

RT: 1.12
Area: 1102
Amount: 0.397499
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:07:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

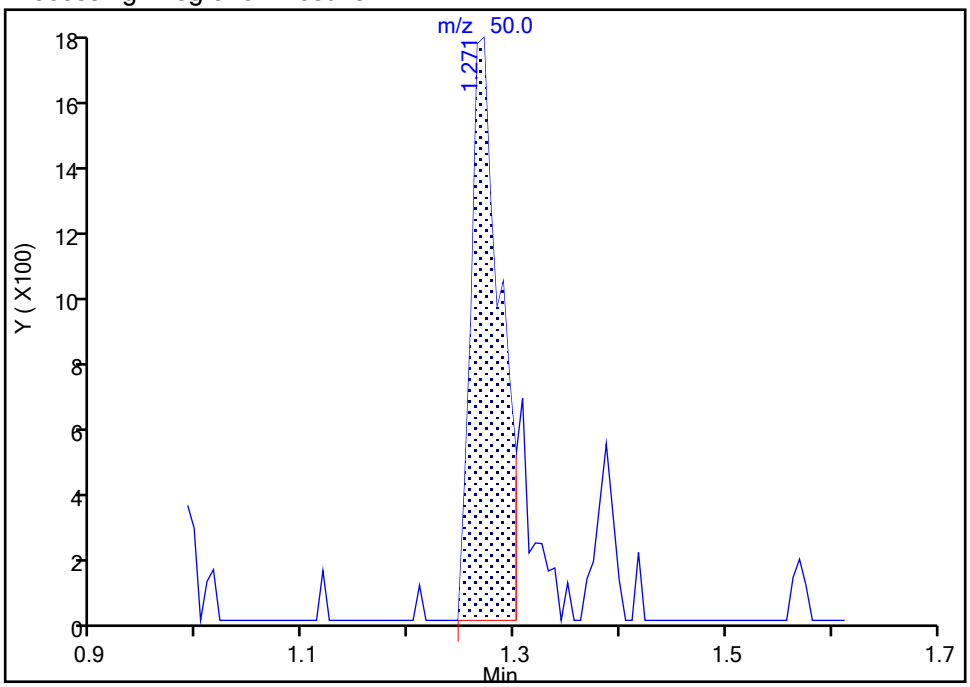
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

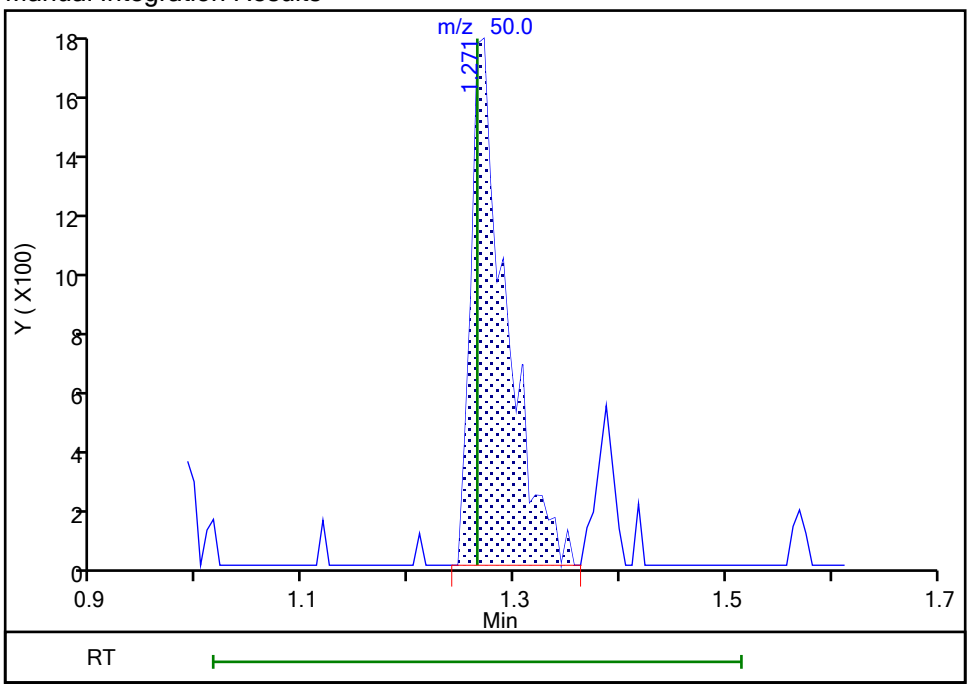
Processing Integration Results

RT: 1.27
Area: 3325
Amount: 0.403309
Amount Units: ug/l



Manual Integration Results

RT: 1.27
Area: 3956
Amount: 0.535975
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:07:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

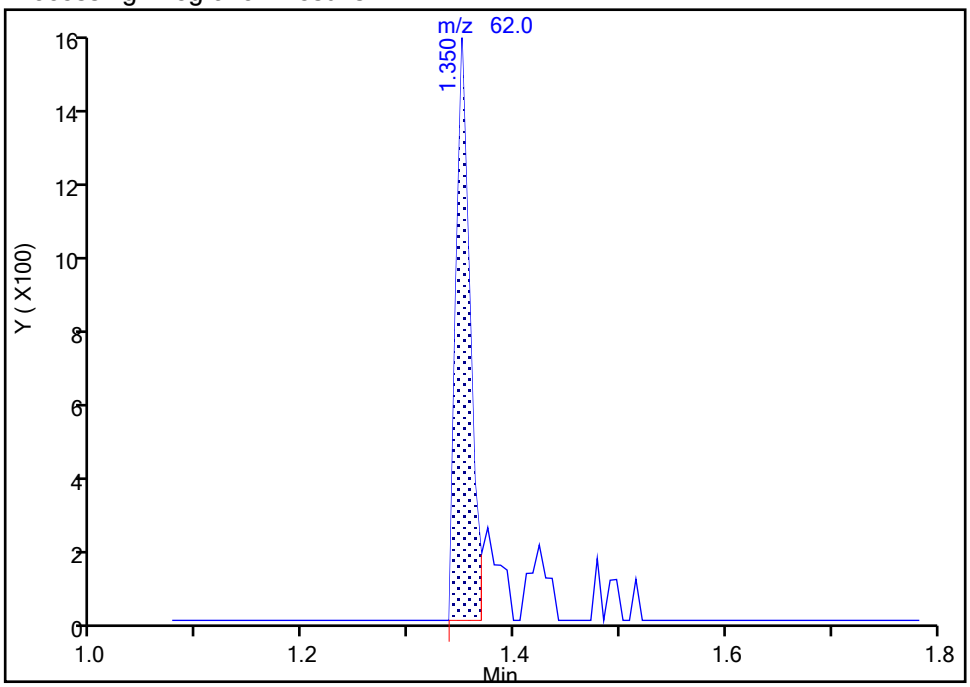
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

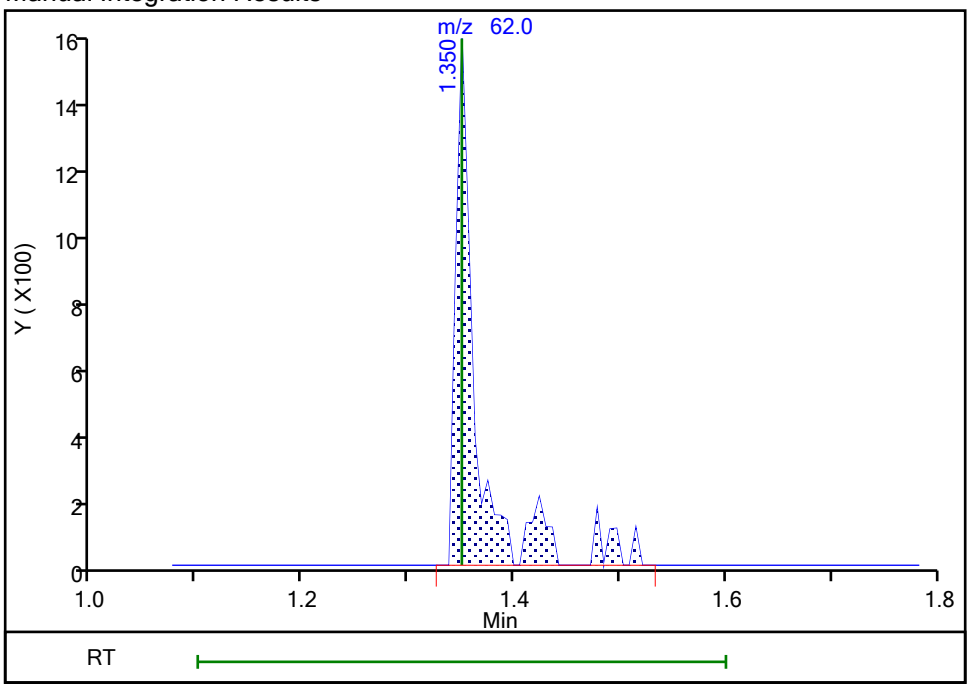
Processing Integration Results

RT: 1.35
Area: 1444
Amount: 0.325778
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 2118
Amount: 0.511381
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:07:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

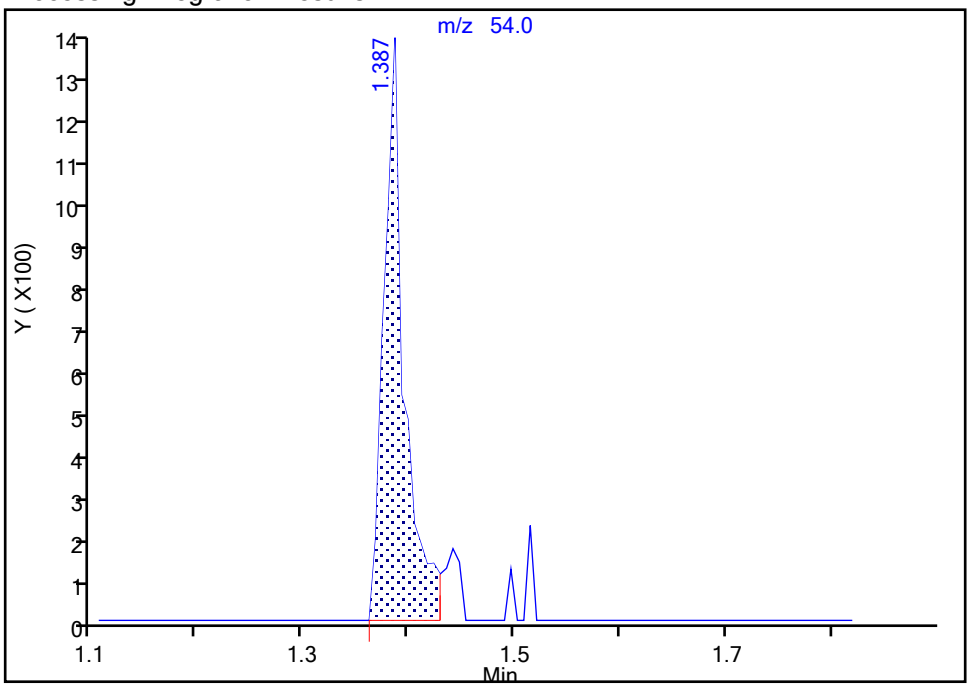
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

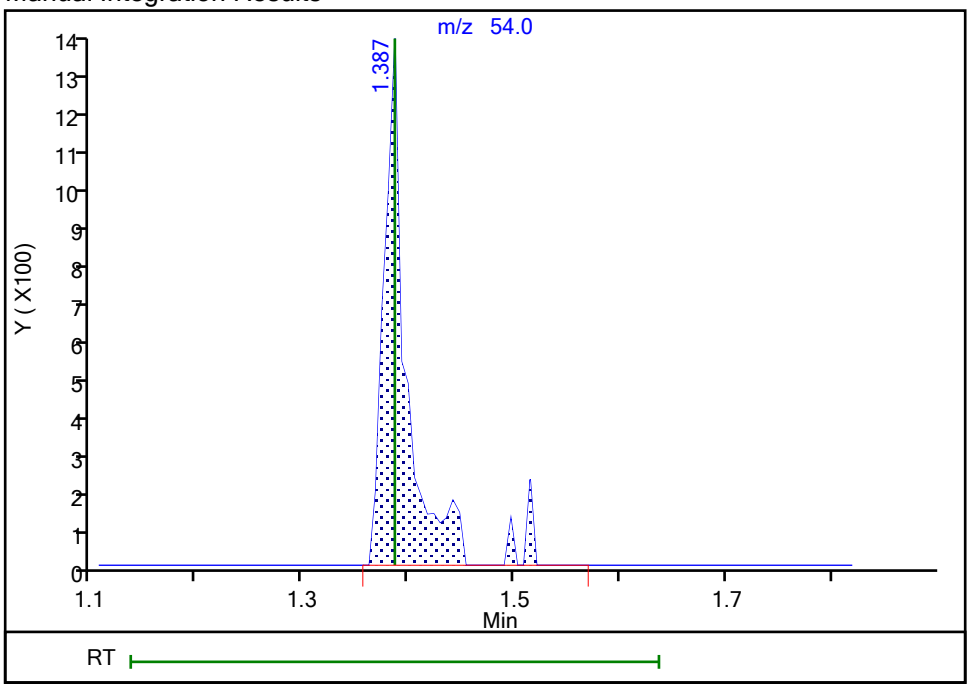
Processing Integration Results

RT: 1.39
Area: 1743
Amount: 0.344158
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 2012
Amount: 0.427189
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

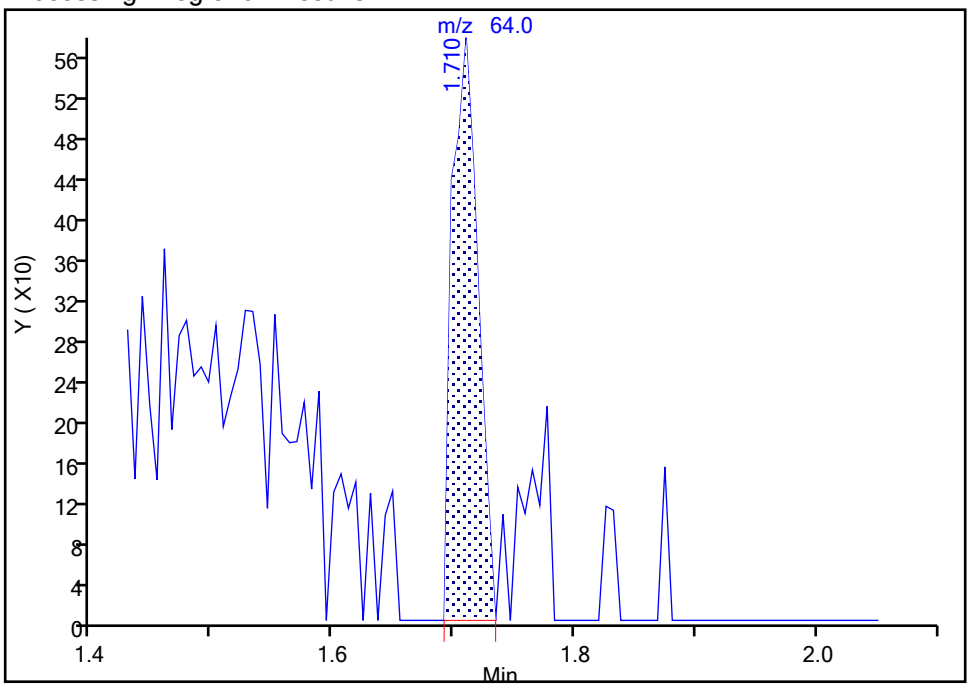
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

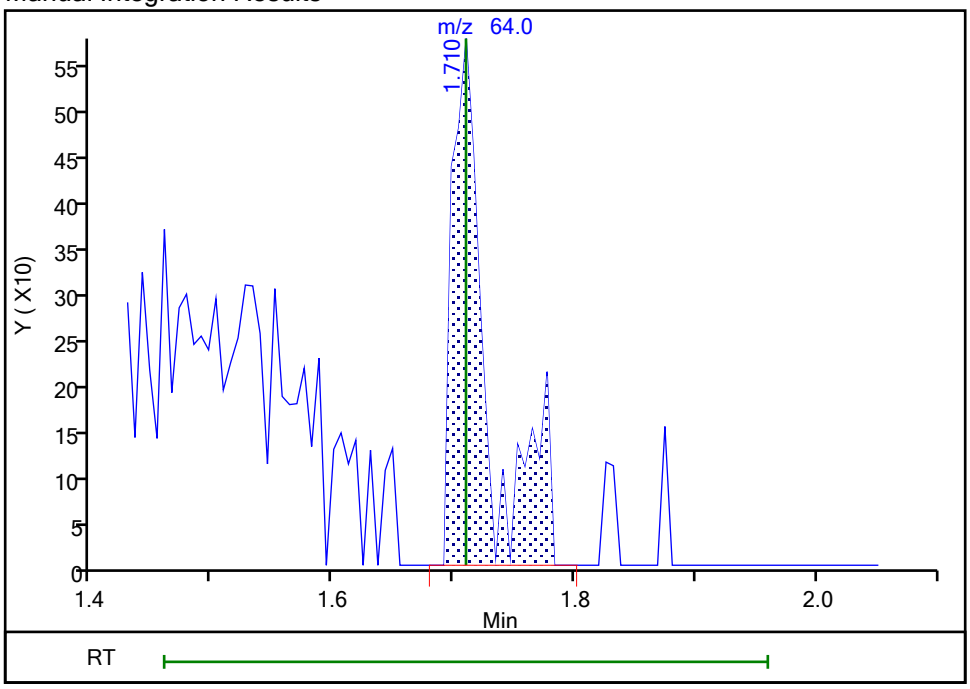
Processing Integration Results

RT: 1.71
Area: 854
Amount: 0.422917
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 1154
Amount: 0.598474
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

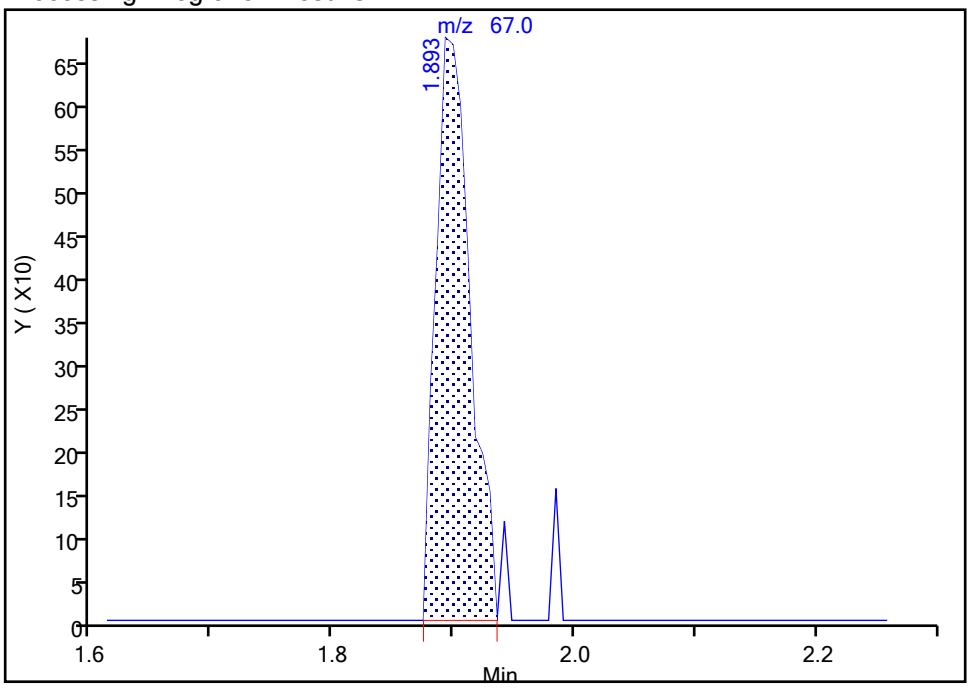
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

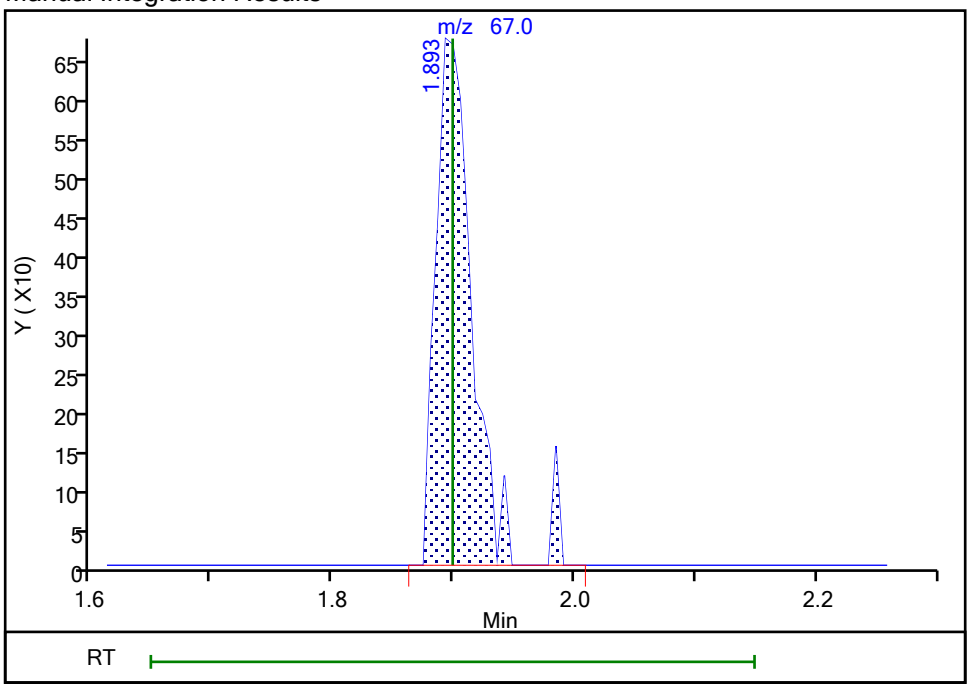
Processing Integration Results

RT: 1.89
Area: 1334
Amount: 0.352144
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 1432
Amount: 0.403656
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

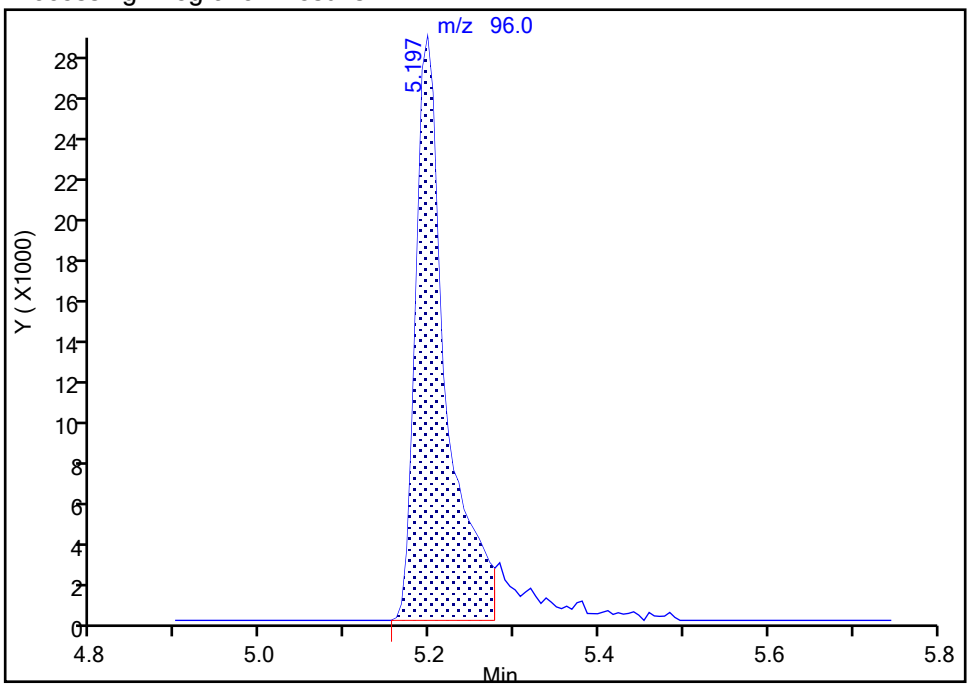
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

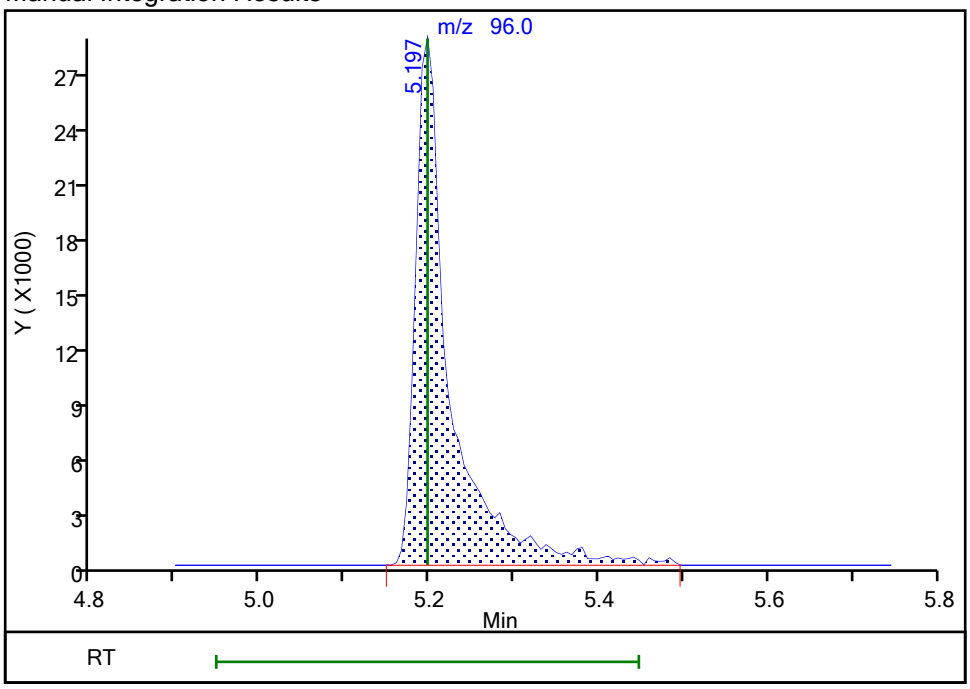
Processing Integration Results

RT: 5.20
Area: 71856
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 81350
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:07:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

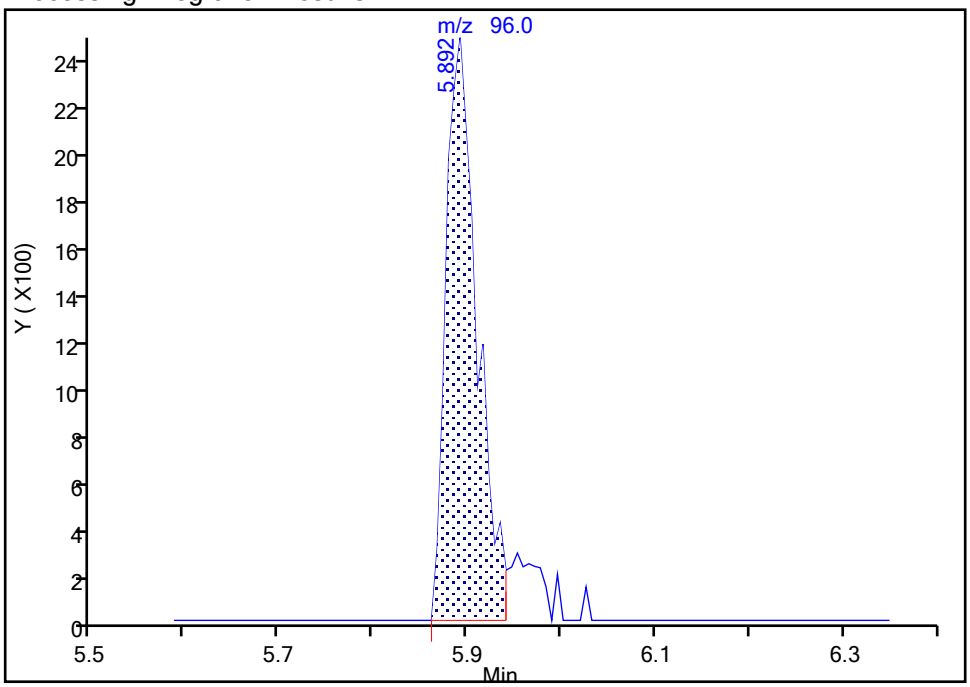
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3746.D
Injection Date: 09-Nov-2020 10:55:30 Instrument ID: Hobbes
Lims ID: std1
Client ID:
Operator ID: ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

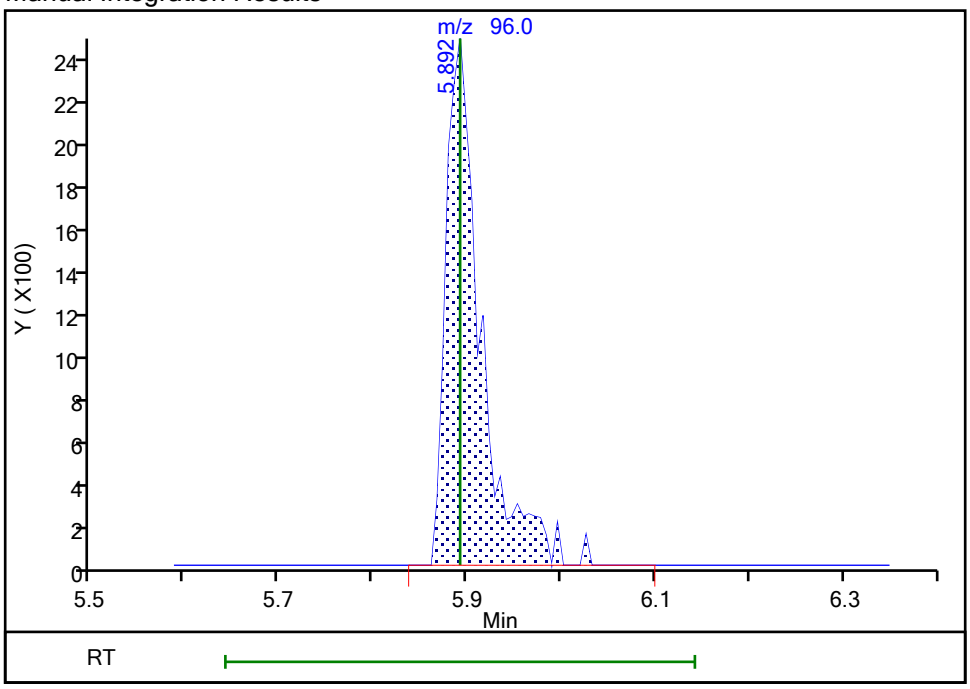
Processing Integration Results

RT: 5.89
Area: 5504
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 6184
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:07:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Nov-2020 11:17:30 ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:28 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:09:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	51891	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.197	-0.006	98	79427	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	79	5836	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.349	-0.012	92	62170	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.037	-0.006	95	37251	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	92	16016	50.0	48.4	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	71692	50.0	51.3	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.684	-0.006	0	24616	50.0	51.4	
9 Dichlorodifluoromethane	85	1.118	1.124	-0.006	95	2024	1.00	0.7477	M
10 Chloromethane	50	1.259	1.265	-0.006	97	6344	1.00	0.8803	M
11 Vinyl chloride	62	1.350	1.350	0.000	94	3357	1.00	0.8302	M
12 Butadiene	54	1.381	1.387	-0.006	93	3433	1.00	0.7465	M
13 Bromomethane	94	1.612	1.618	-0.006	86	877	1.00	0.6783	M
14 Chloroethane	64	1.710	1.710	0.000	94	1898	1.00	1.01	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	94	2565	1.00	0.7405	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	86	1813	1.00	0.5986	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

VV_I_GASES_00413 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:29 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D

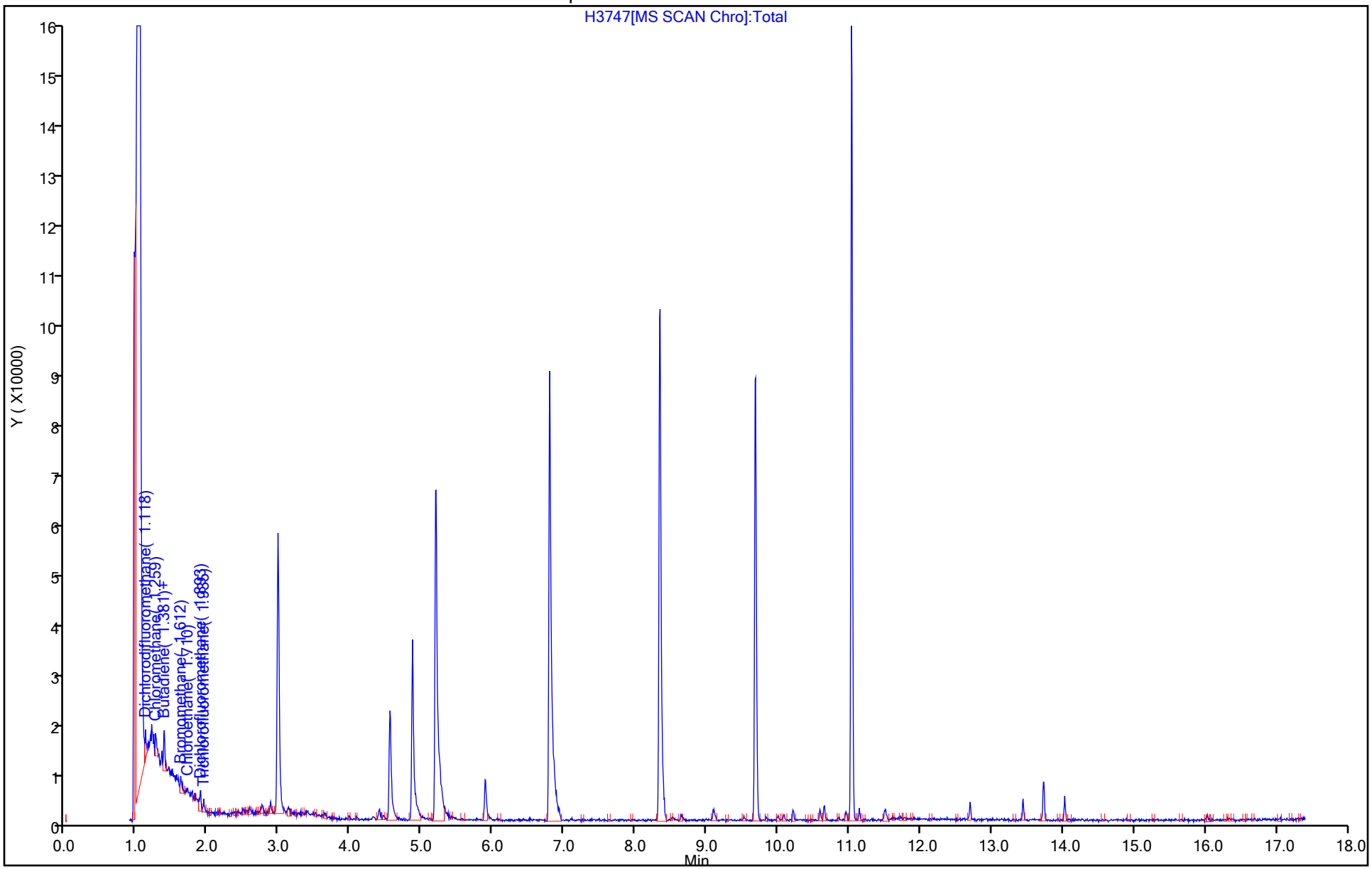
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes Operator ID:

Lims ID: std2 Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 26

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

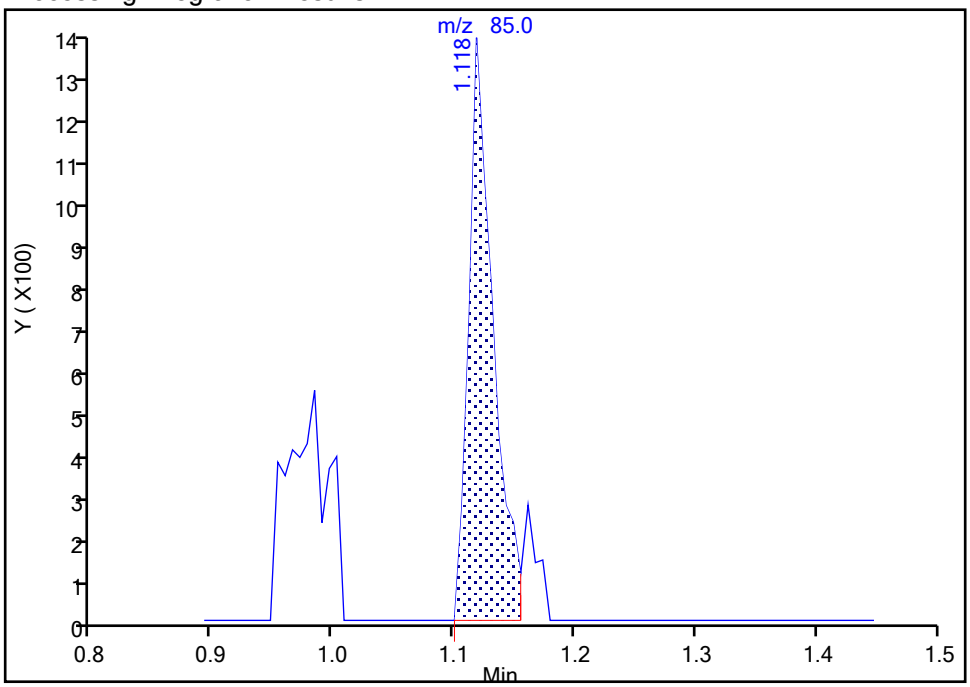
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

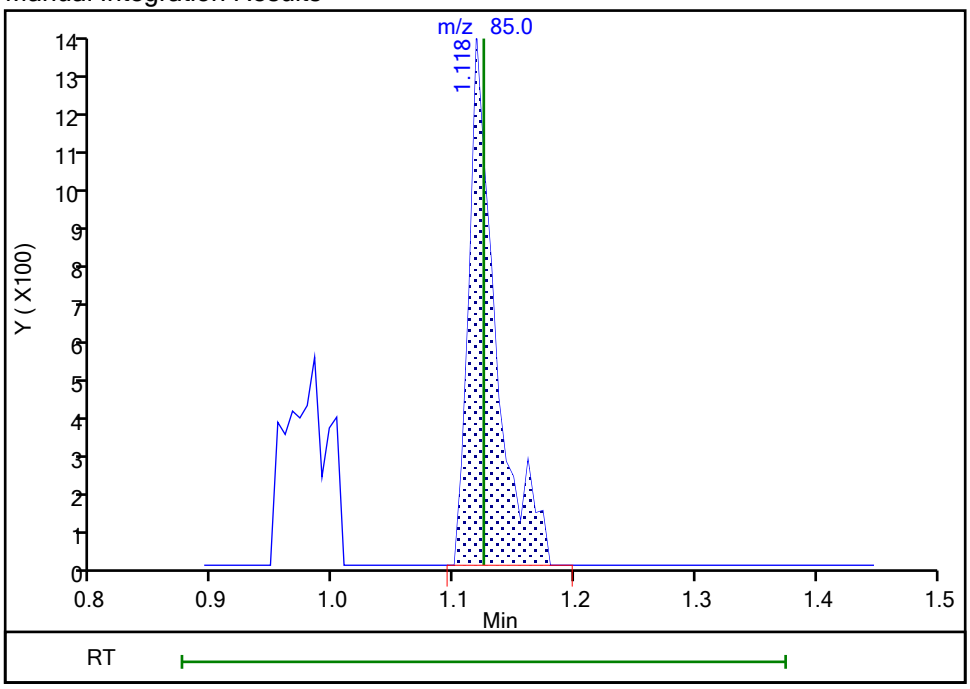
Processing Integration Results

RT: 1.12
Area: 1832
Amount: 0.709443
Amount Units: ug/l



Manual Integration Results

RT: 1.12
Area: 2024
Amount: 0.747747
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

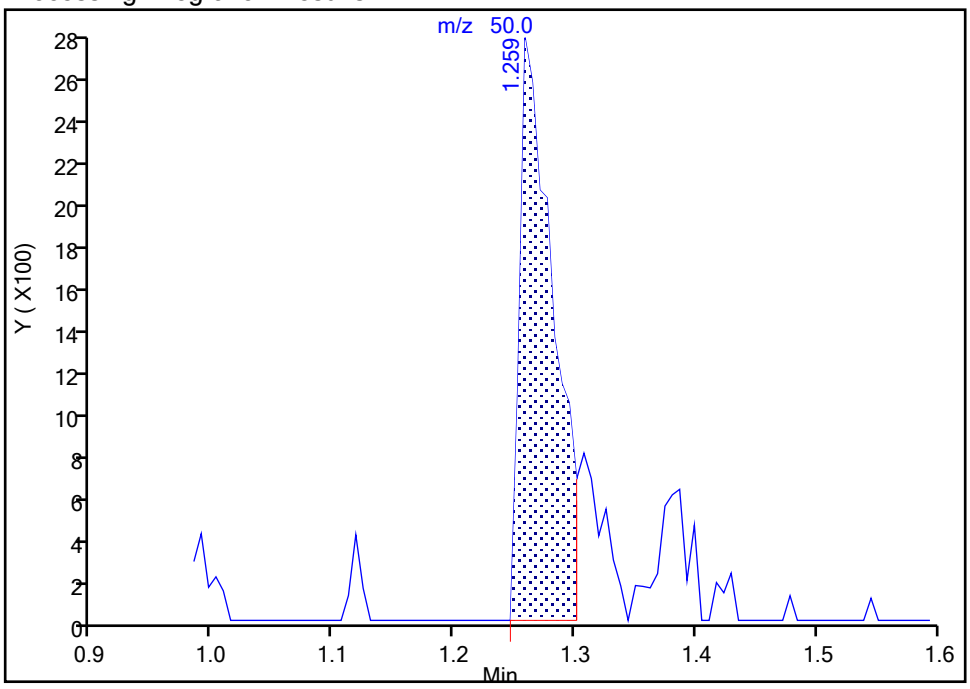
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

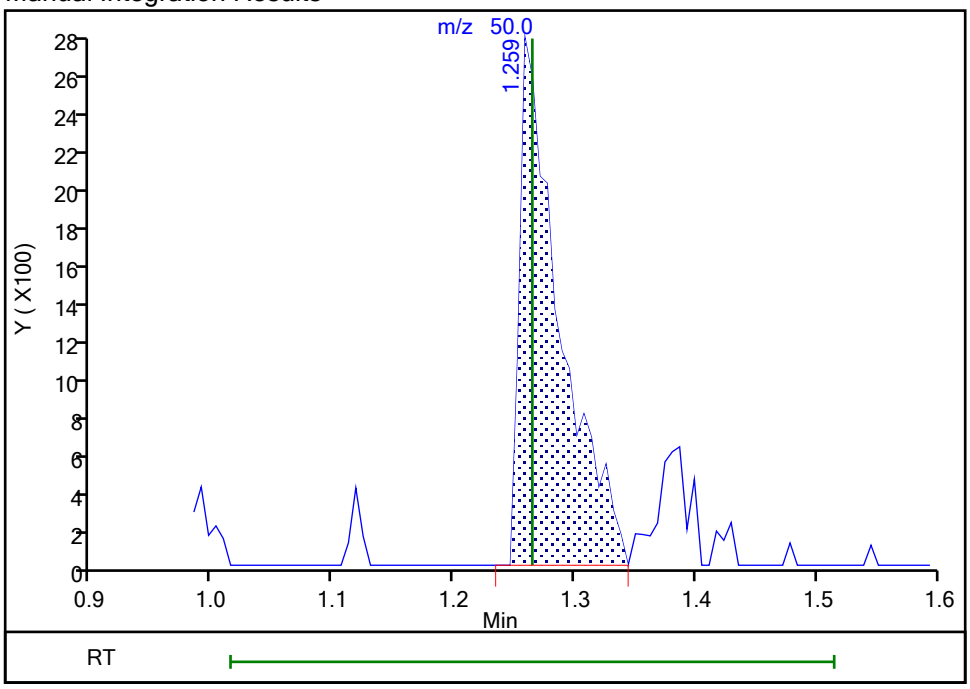
Processing Integration Results

RT: 1.26
Area: 5311
Amount: 0.752874
Amount Units: ug/l



Manual Integration Results

RT: 1.26
Area: 6344
Amount: 0.880320
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

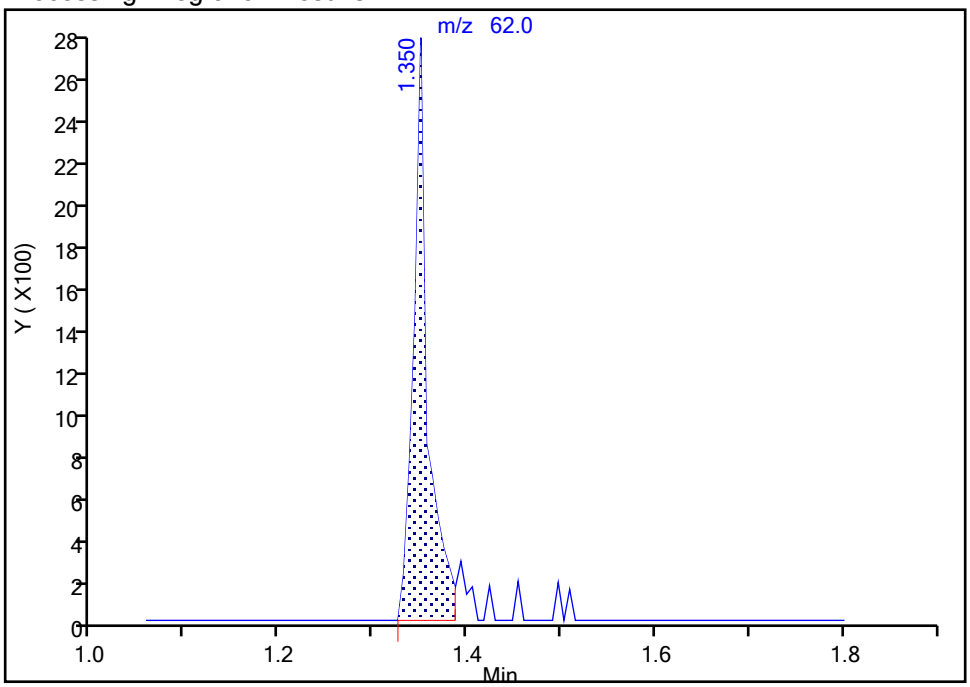
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

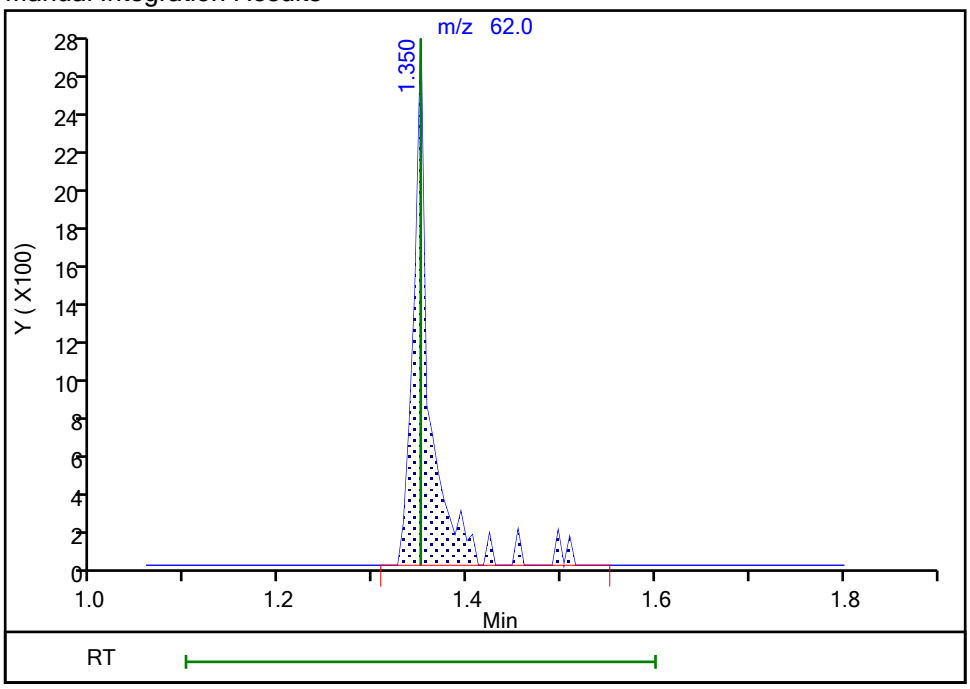
Processing Integration Results

RT: 1.35
Area: 2903
Amount: 0.756026
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 3357
Amount: 0.830155
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

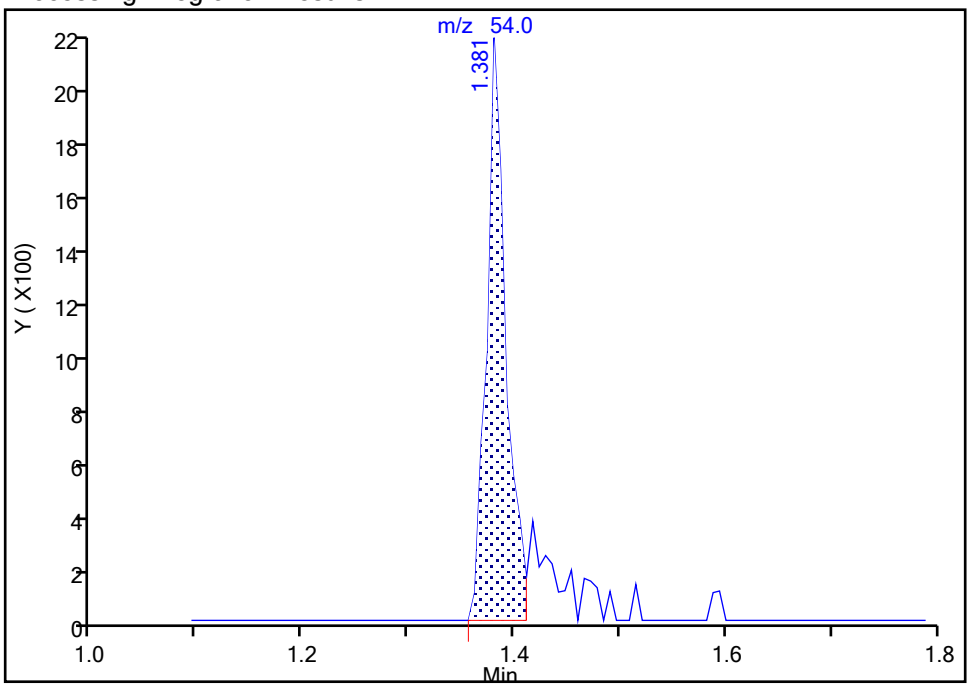
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

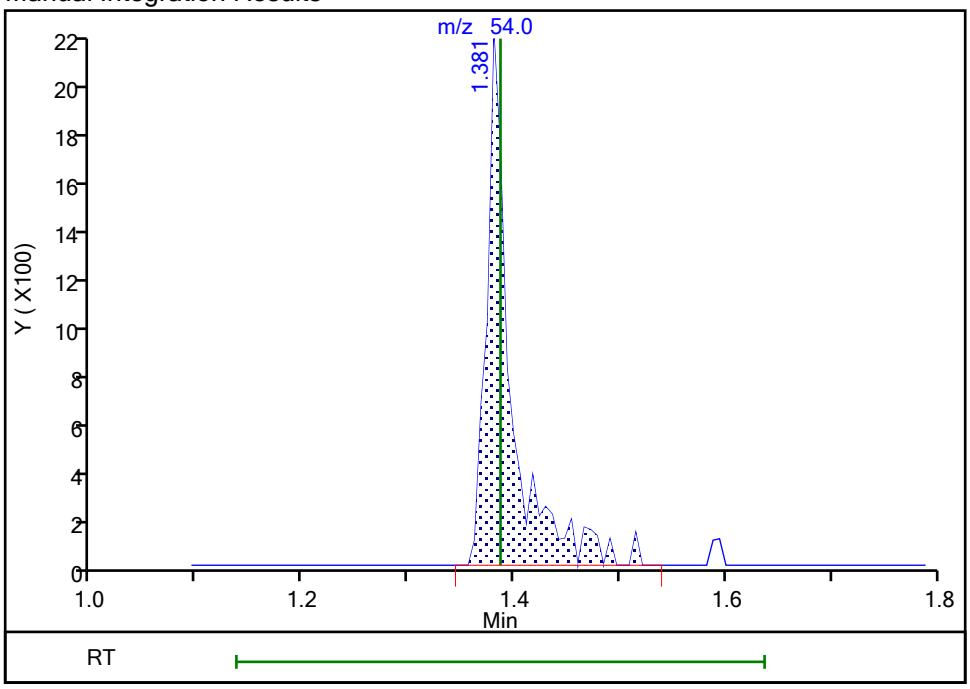
Processing Integration Results

RT: 1.38
Area: 2686
Amount: 0.622219
Amount Units: ug/l



Manual Integration Results

RT: 1.38
Area: 3433
Amount: 0.746544
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

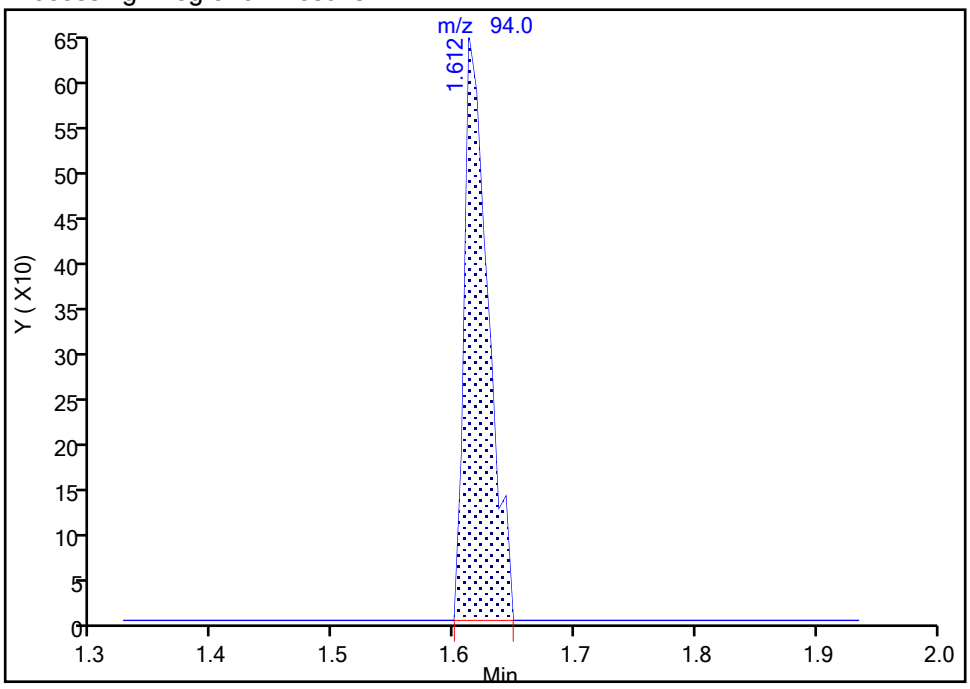
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

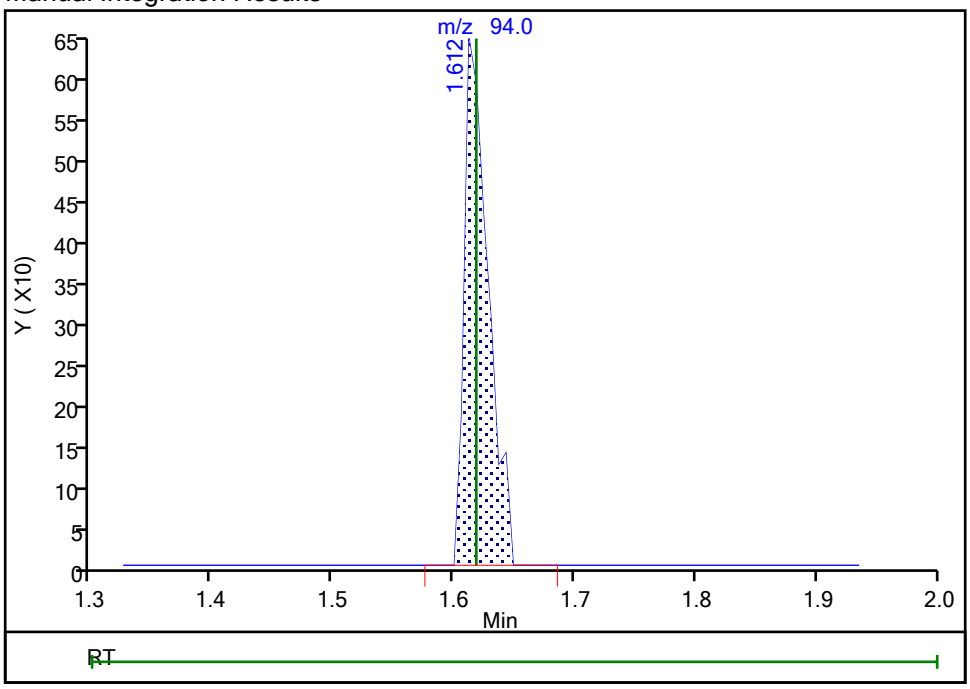
Processing Integration Results

RT: 1.61
Area: 877
Amount: 0.735231
Amount Units: ug/l



Manual Integration Results

RT: 1.61
Area: 877
Amount: 0.678294
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

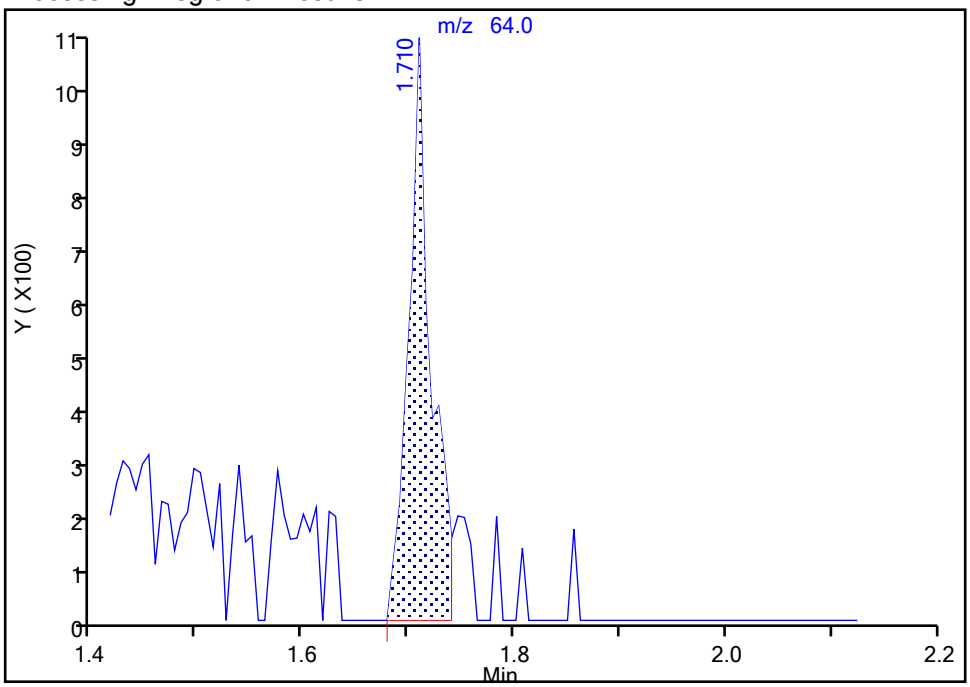
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

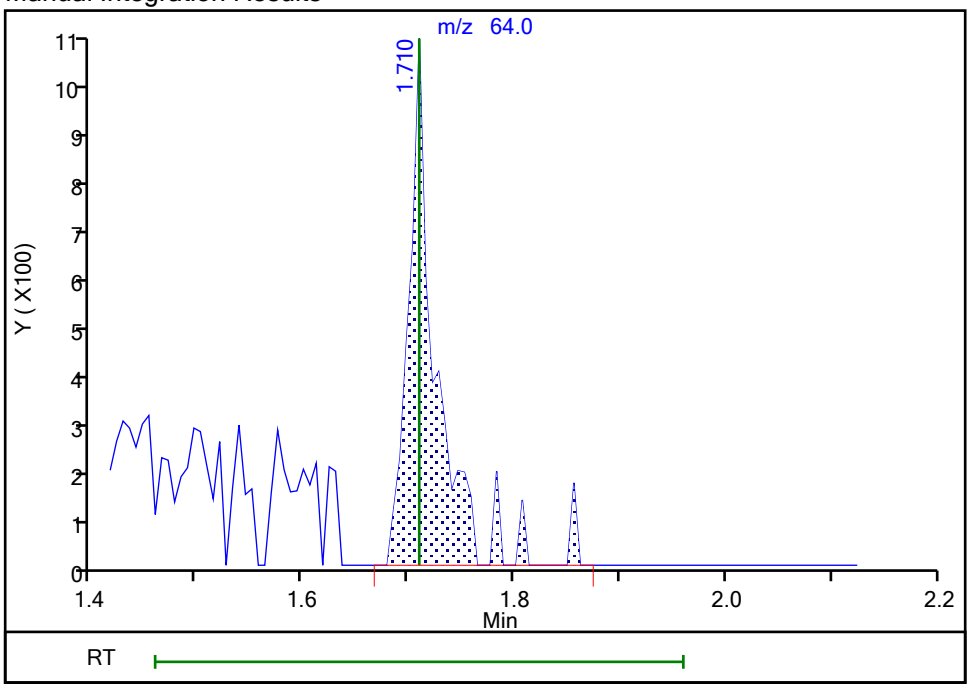
Processing Integration Results

RT: 1.71
Area: 1535
Amount: 0.877987
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 1898
Amount: 1.008151
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

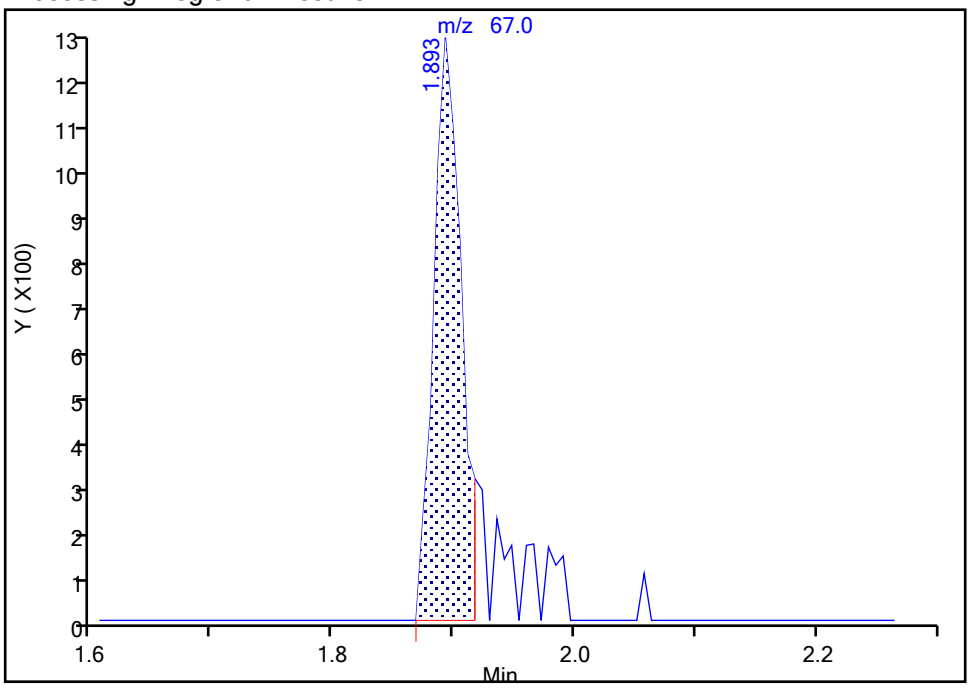
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

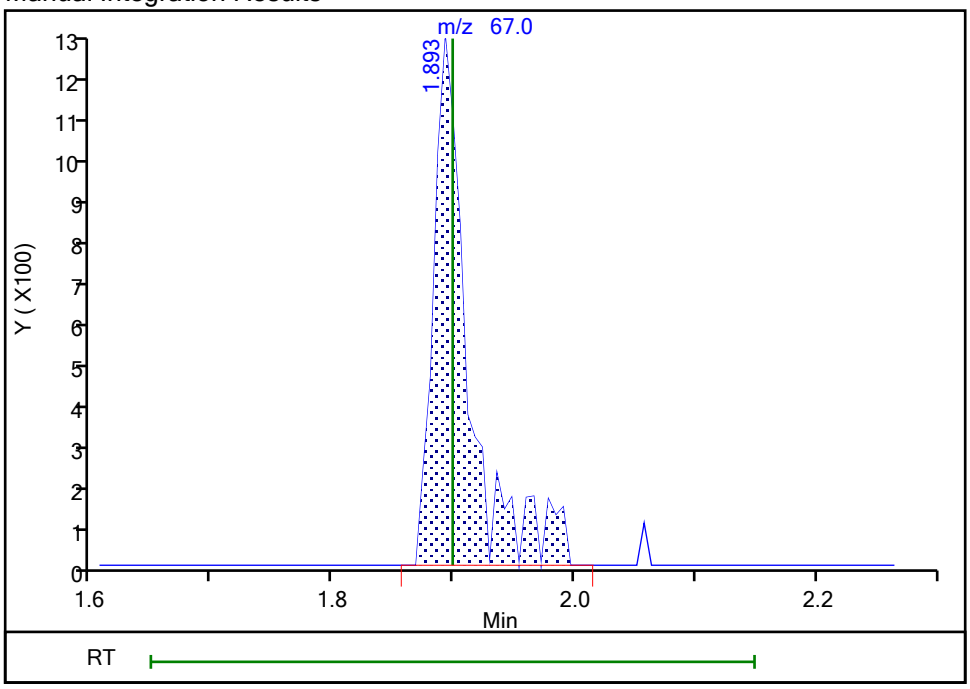
Processing Integration Results

RT: 1.89
Area: 2003
Amount: 0.623134
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 2565
Amount: 0.740535
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

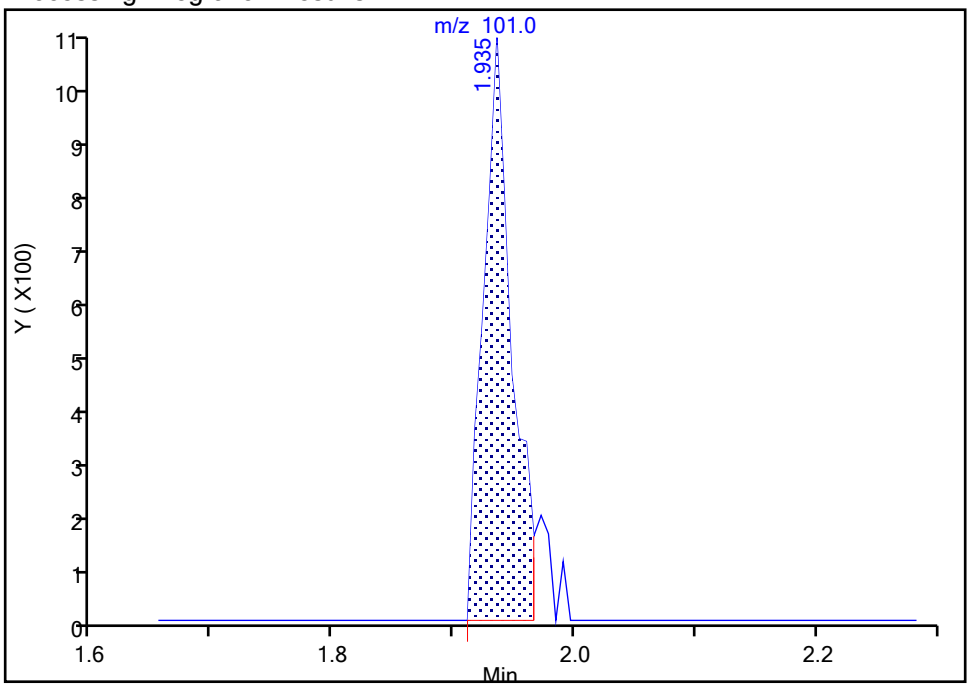
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

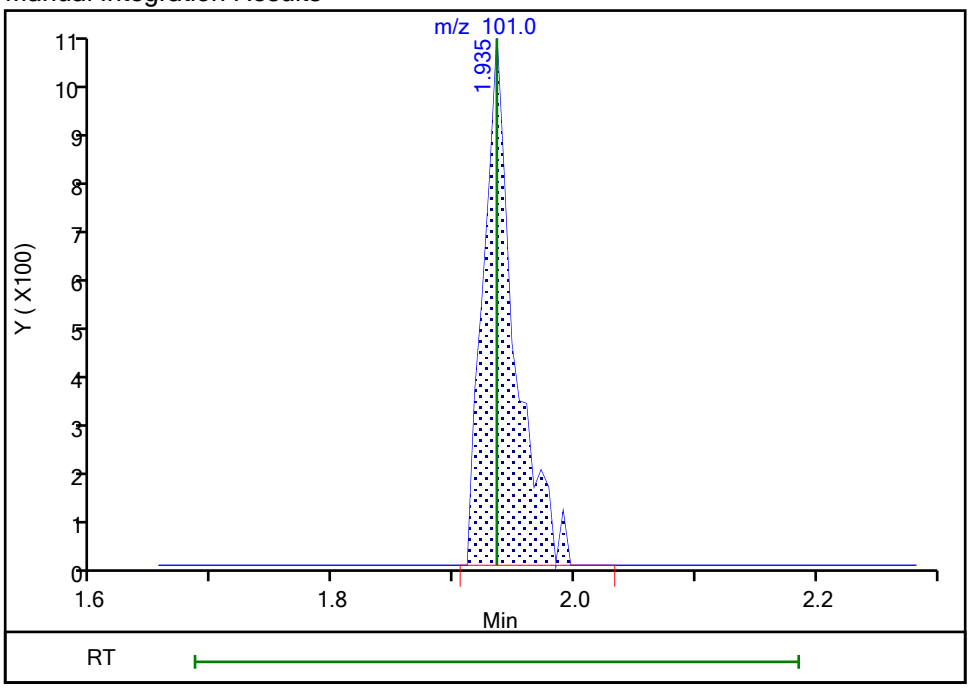
Processing Integration Results

RT: 1.94
Area: 1654
Amount: 0.646754
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 1813
Amount: 0.598560
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

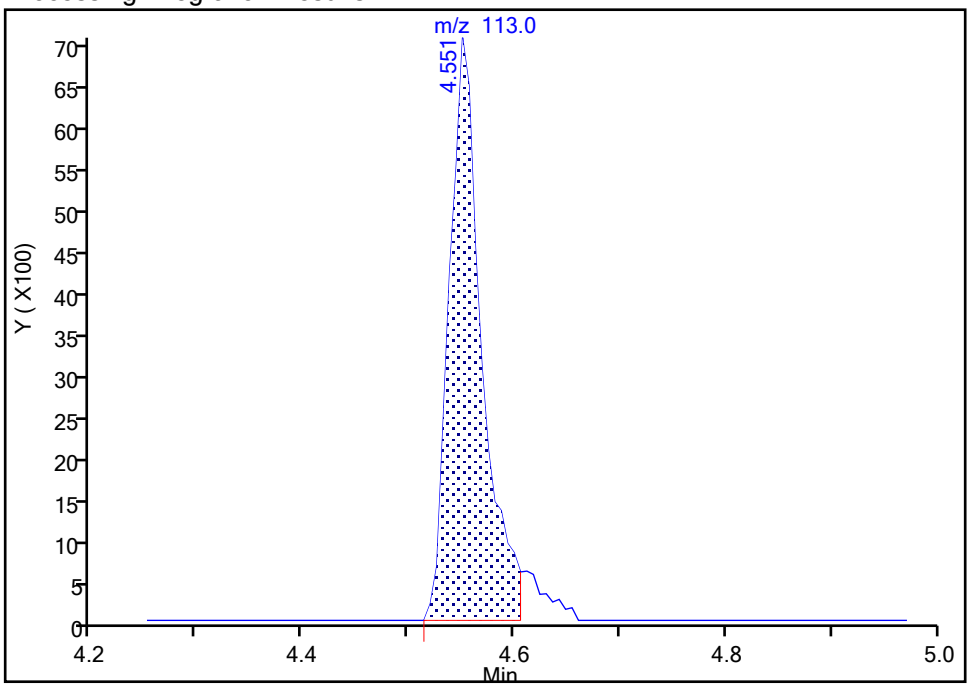
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

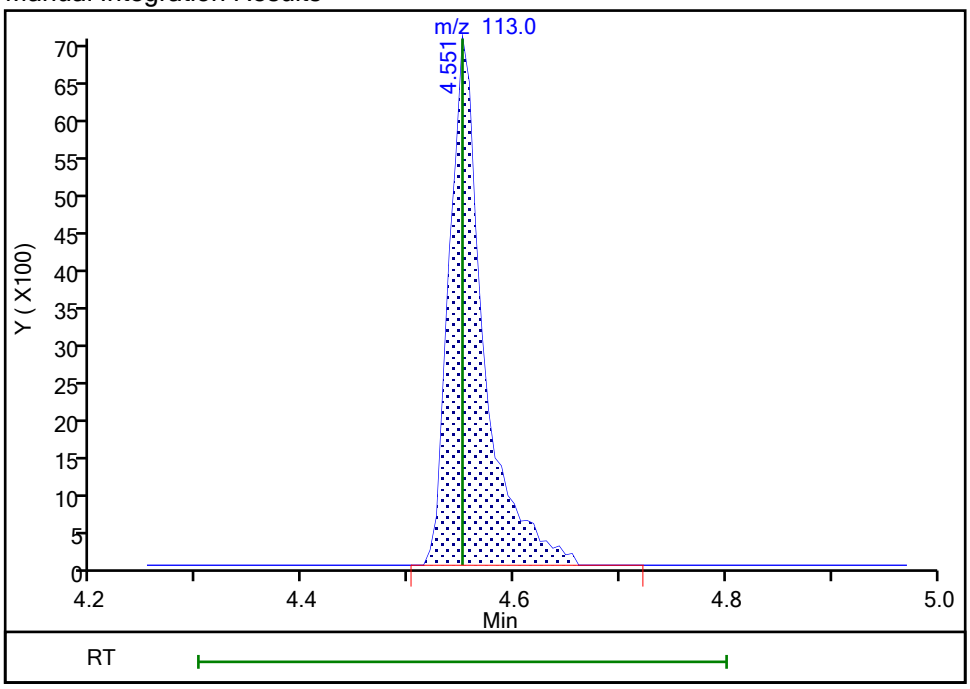
Processing Integration Results

RT: 4.55
Area: 15083
Amount: 49.712367
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 16016
Amount: 48.390699
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

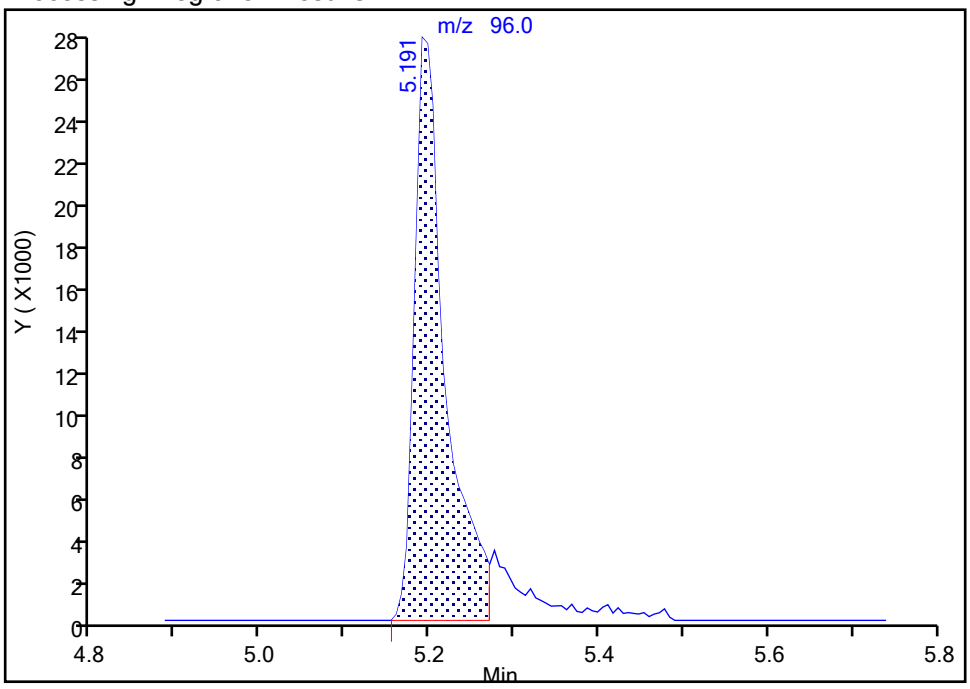
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

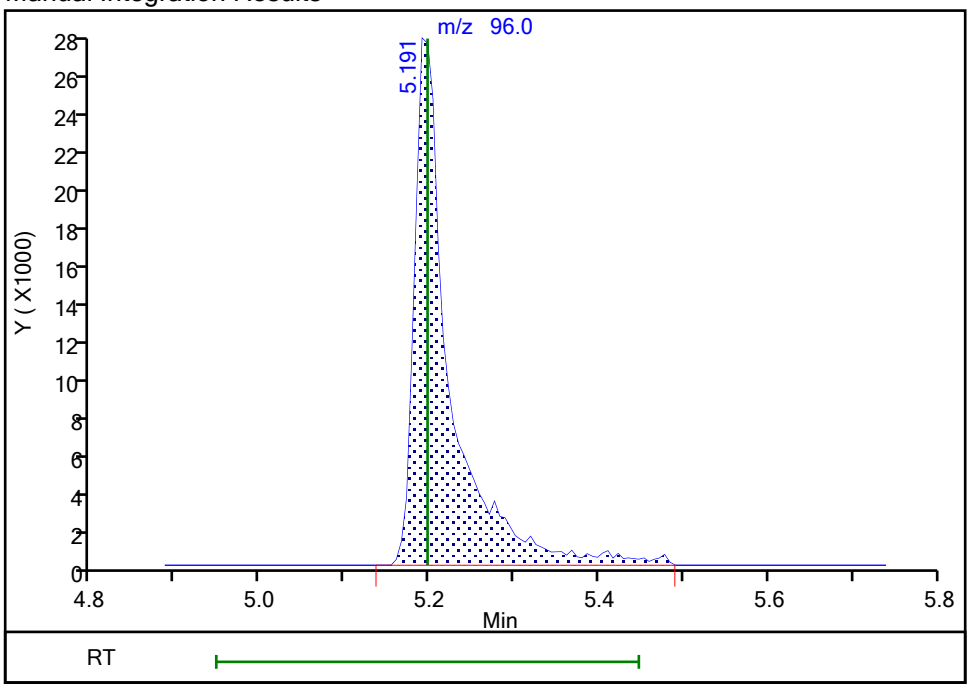
Processing Integration Results

RT: 5.19
Area: 68731
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 79427
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

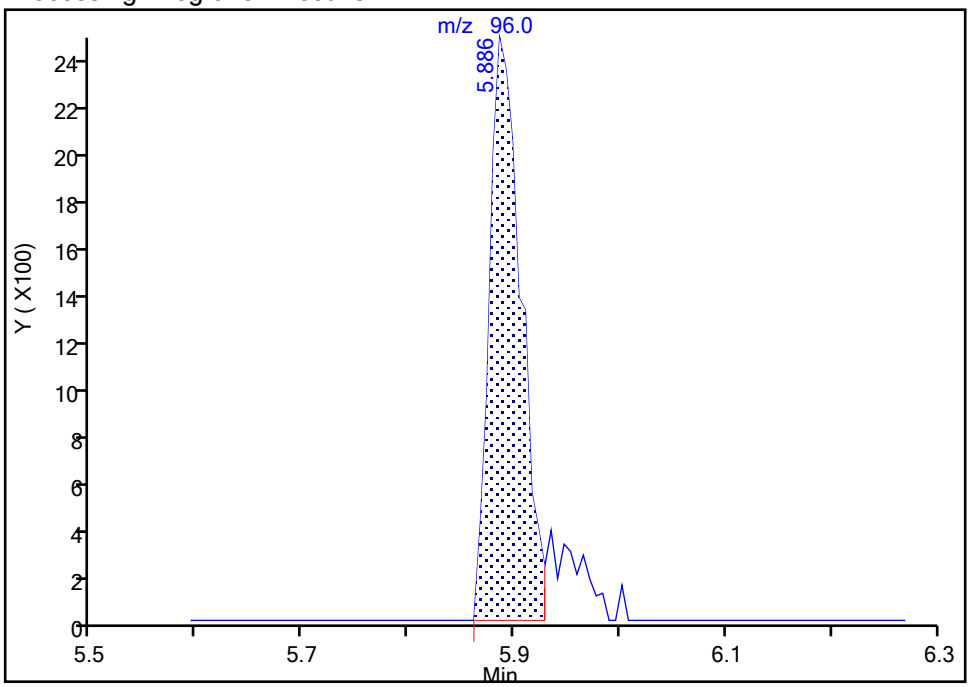
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

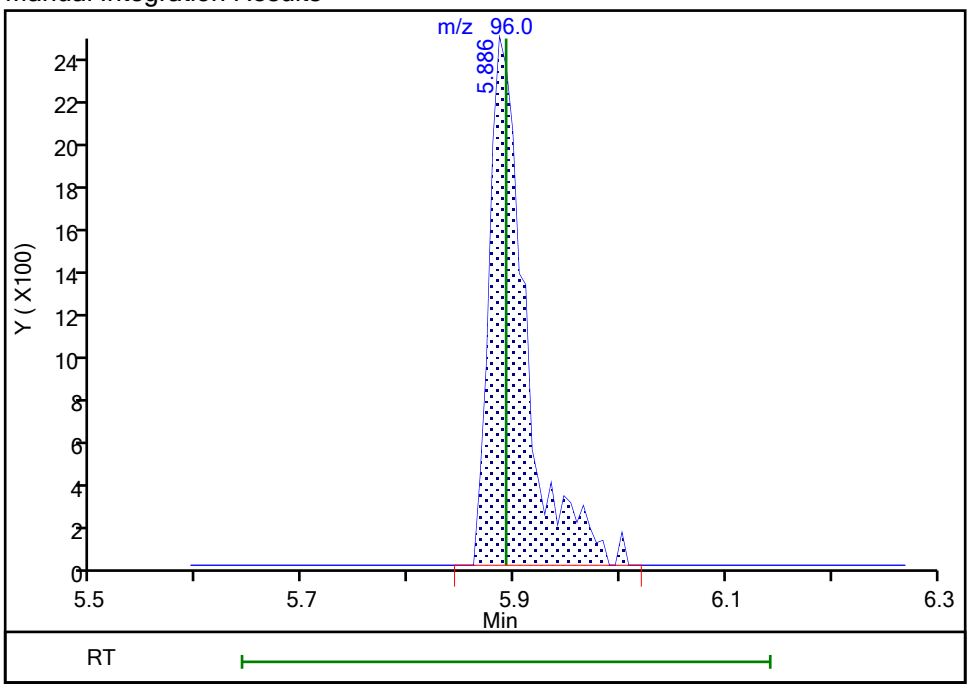
Processing Integration Results

RT: 5.89
Area: 5047
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5836
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

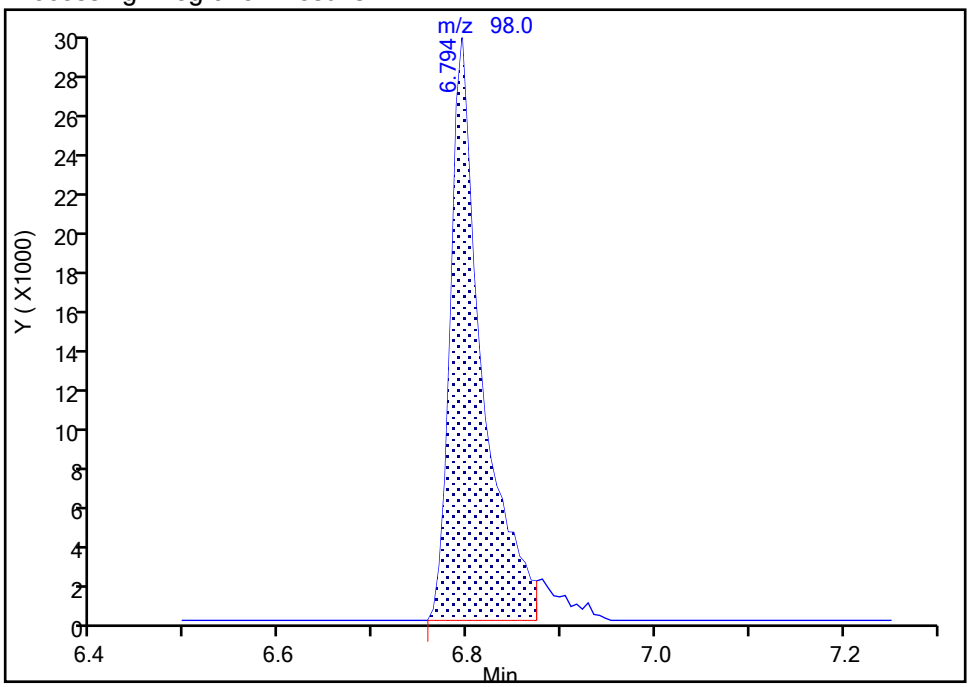
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3747.D
Injection Date: 09-Nov-2020 11:17:30 Instrument ID: Hobbes
Lims ID: std2
Client ID:
Operator ID: ALS Bottle#: 26 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

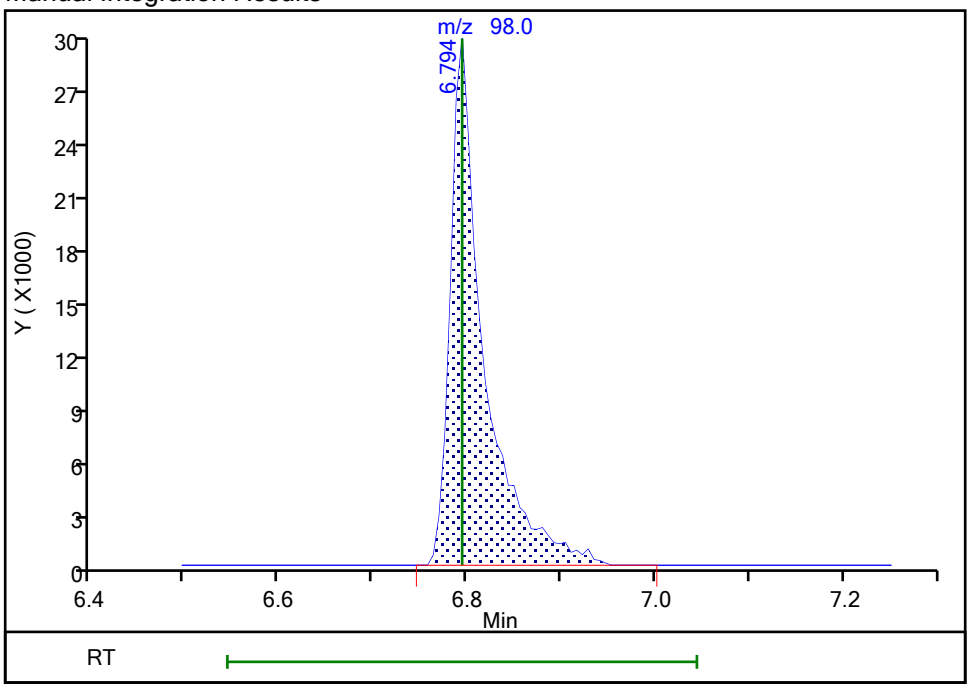
Processing Integration Results

RT: 6.79
Area: 67701
Amount: 50.284043
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 71692
Amount: 51.311803
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:08:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Nov-2020 11:39:30 ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:32 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:10:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	55163	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	77089	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	83	5402	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.349	-0.012	90	63753	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	95	38495	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	90	15299	50.0	47.6	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	73469	50.0	51.3	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24867	50.0	50.2	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	96	5510	2.00	2.10	M
10 Chloromethane	50	1.265	1.265	0.000	98	13439	2.00	1.92	
11 Vinyl chloride	62	1.350	1.350	0.000	97	8825	2.00	2.25	M
12 Butadiene	54	1.387	1.387	0.000	97	7712	2.00	1.73	M
13 Bromomethane	94	1.619	1.618	0.000	89	2190	2.00	1.75	M
14 Chloroethane	64	1.710	1.710	0.000	92	3854	2.00	2.11	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	97	6379	2.00	1.90	M
16 Trichlorofluoromethane	101	1.936	1.935	0.001	97	5319	2.00	1.81	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

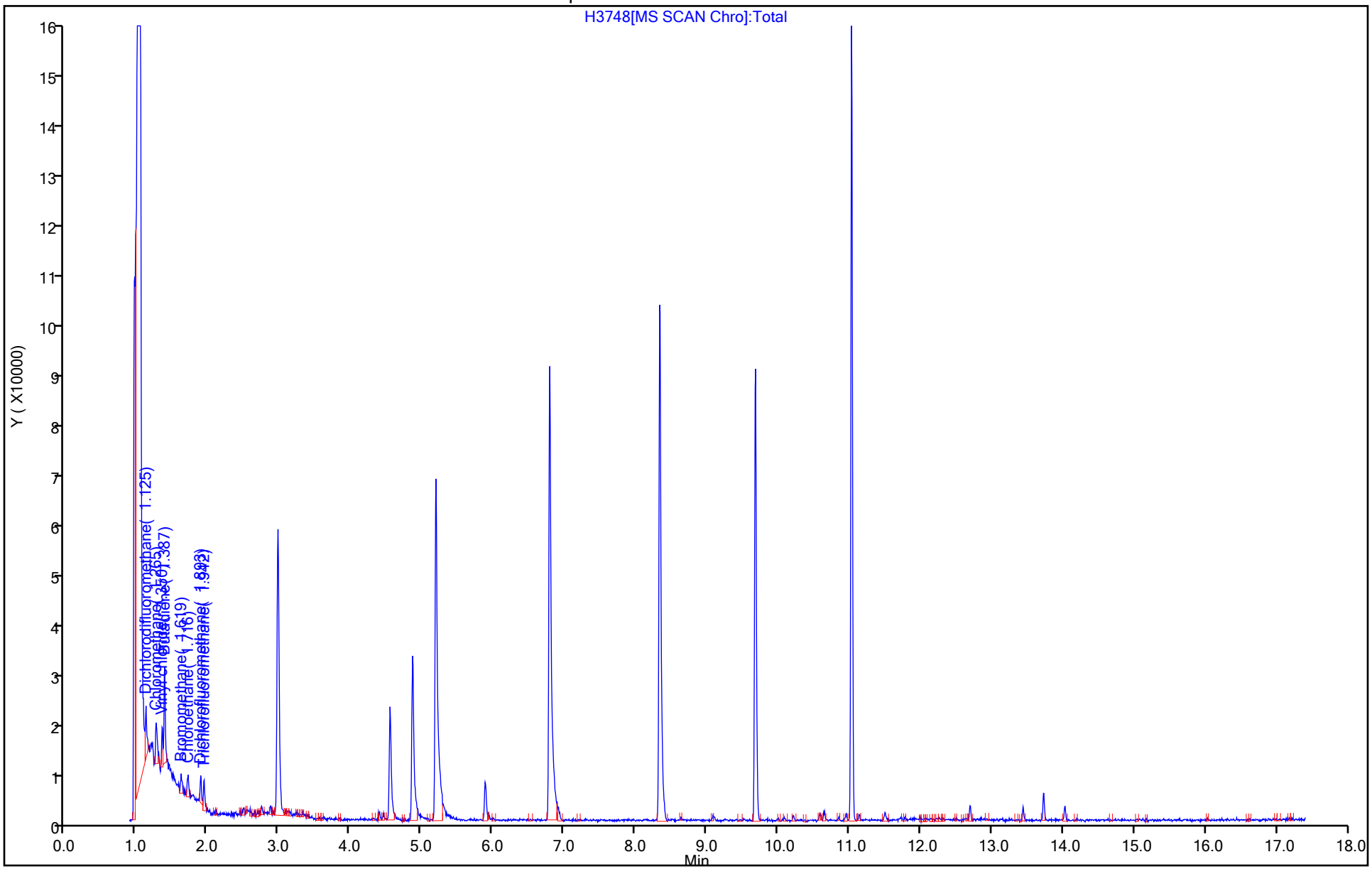
VV_I_GASES_00413 Amount Added: 2.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:33 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D

Injection Date:	09-Nov-2020 11:39:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std3			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

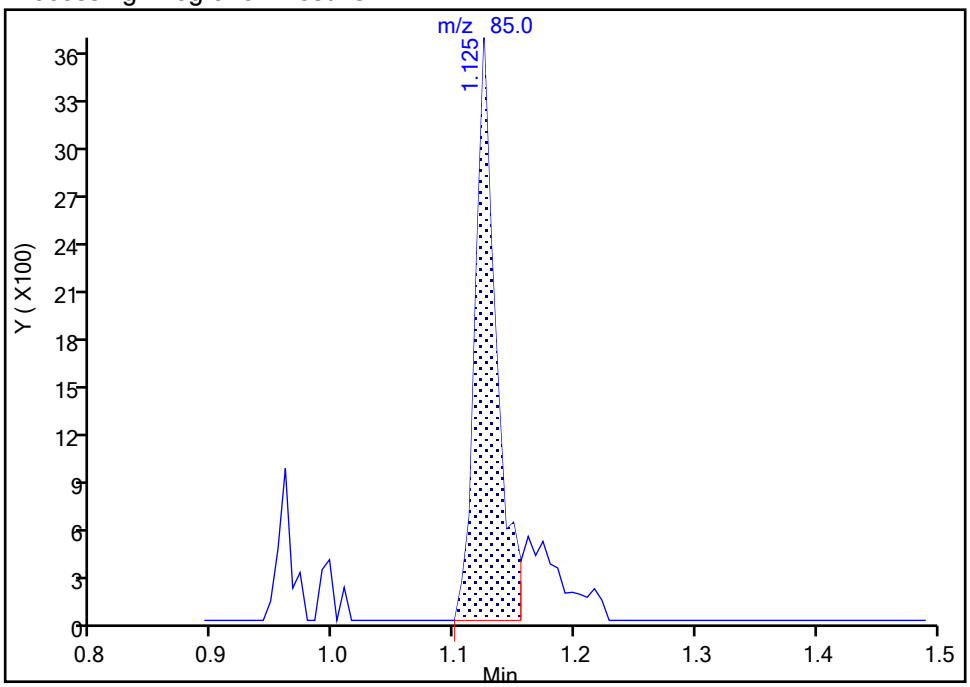
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

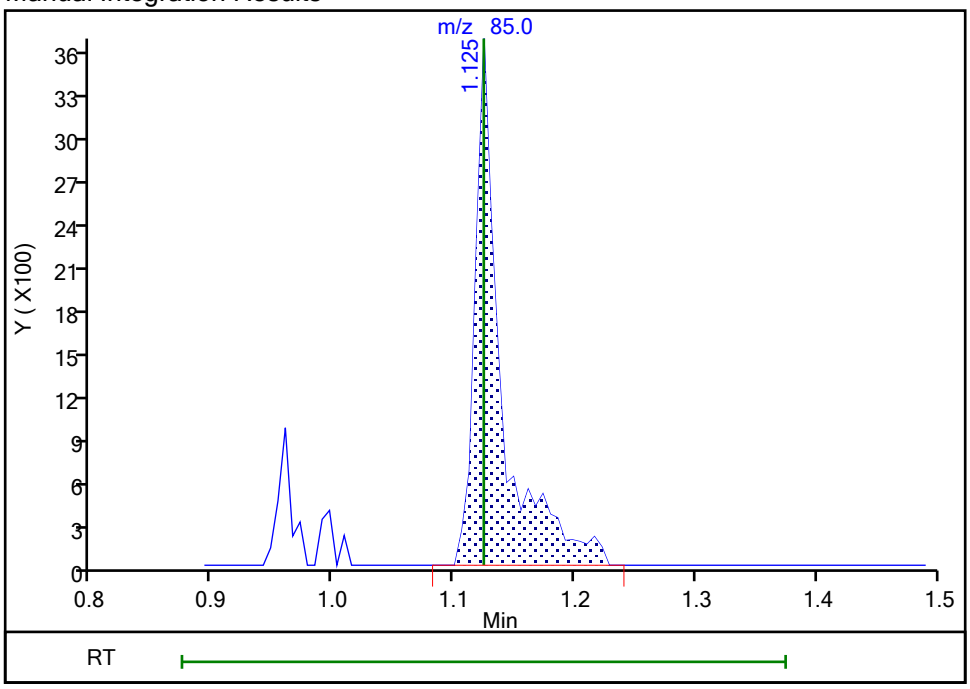
Processing Integration Results

RT: 1.12
Area: 4392
Amount: 1.537266
Amount Units: ug/l



Manual Integration Results

RT: 1.12
Area: 5510
Amount: 2.097353
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

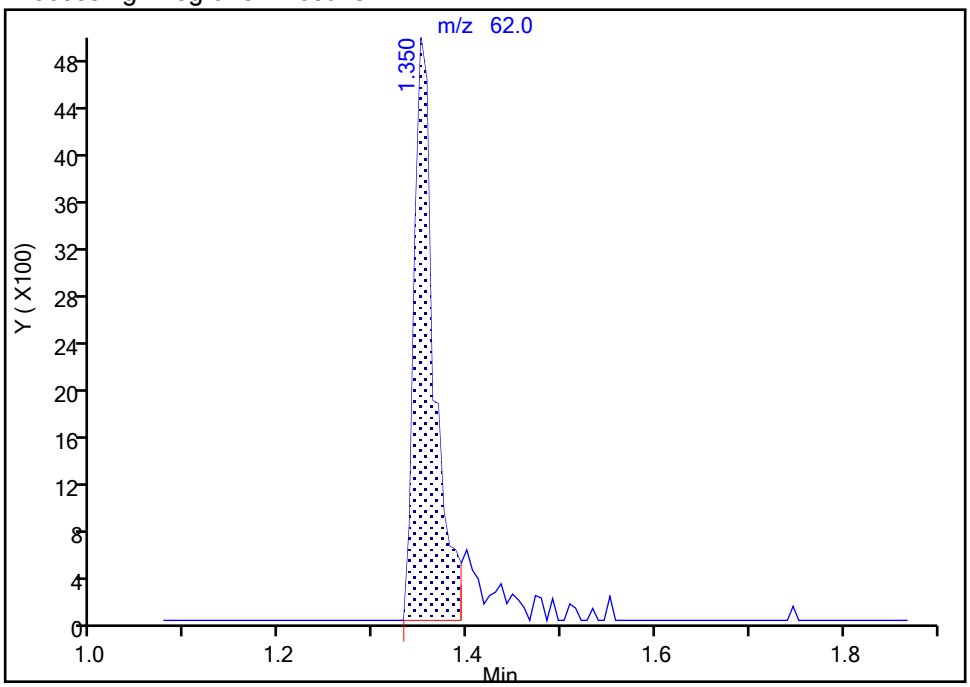
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

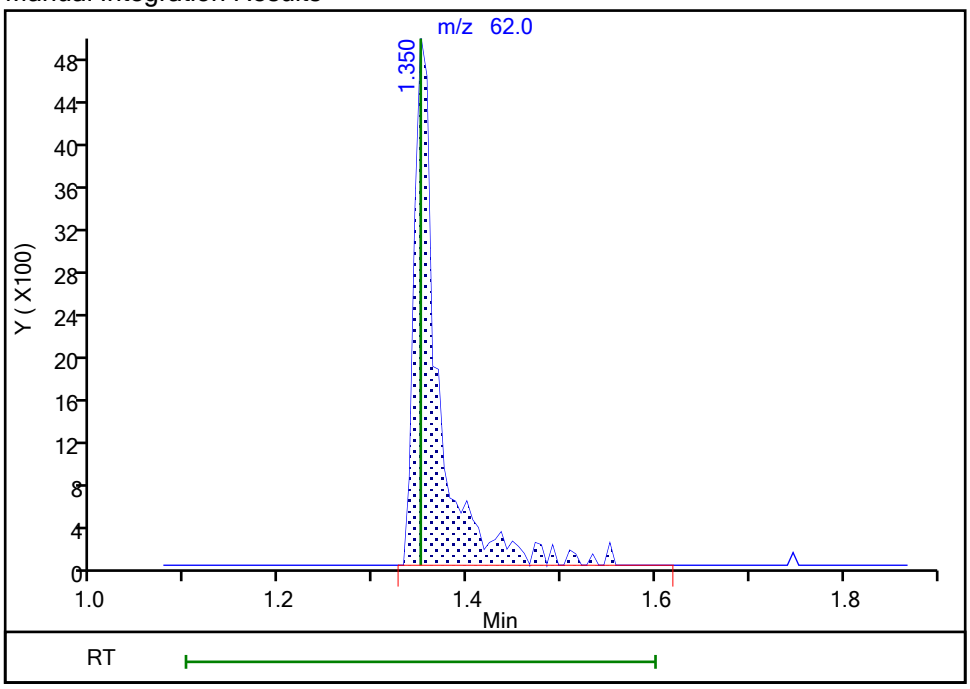
Processing Integration Results

RT: 1.35
Area: 7335
Amount: 1.724316
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 8825
Amount: 2.248528
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

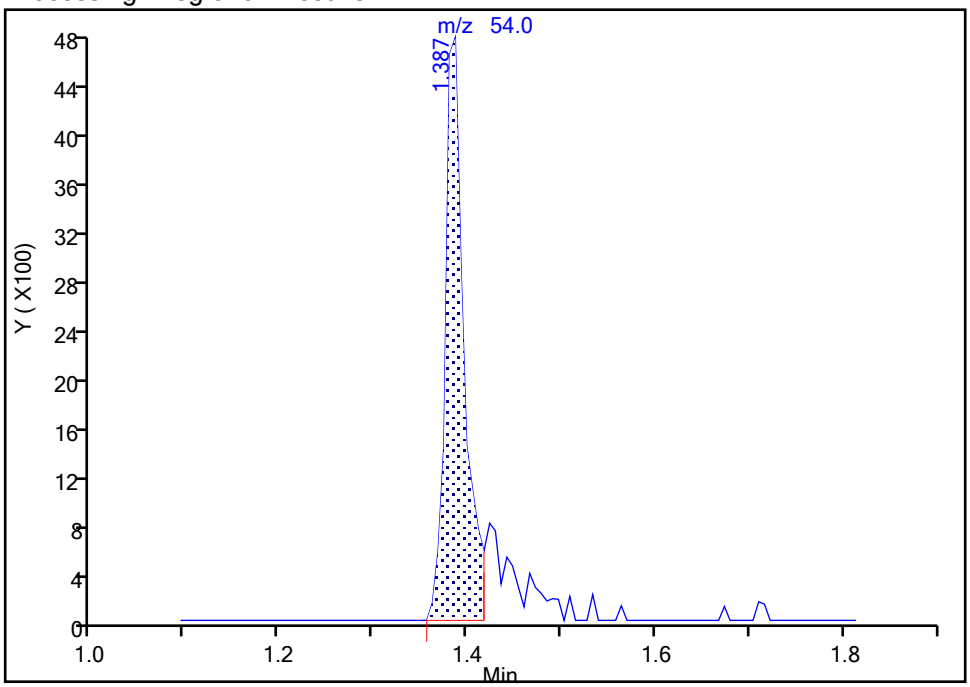
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

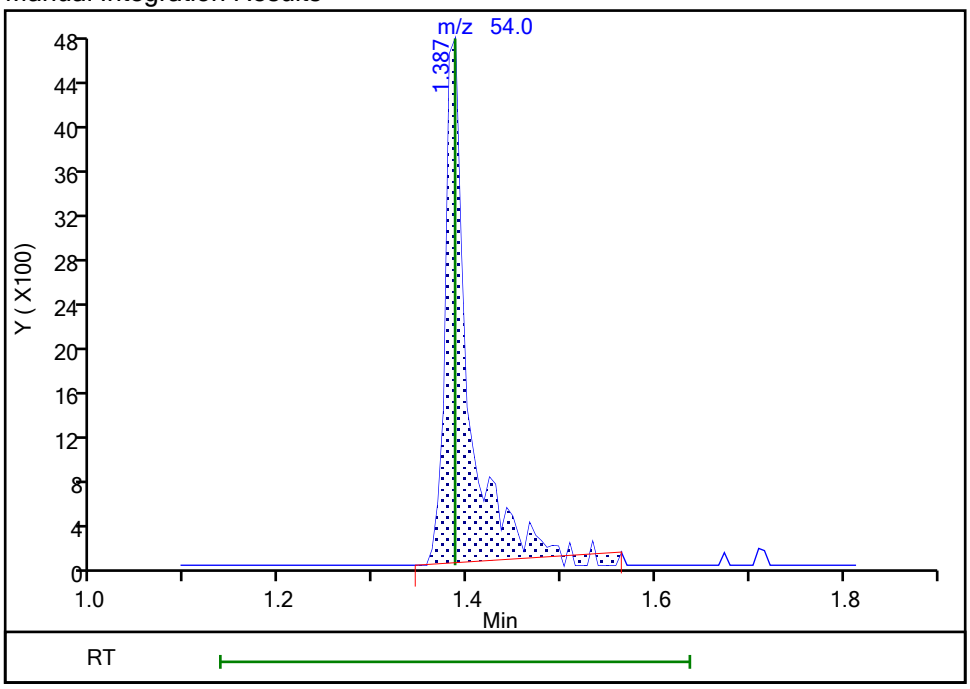
Processing Integration Results

RT: 1.39
Area: 6662
Amount: 1.382113
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 7712
Amount: 1.727924
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

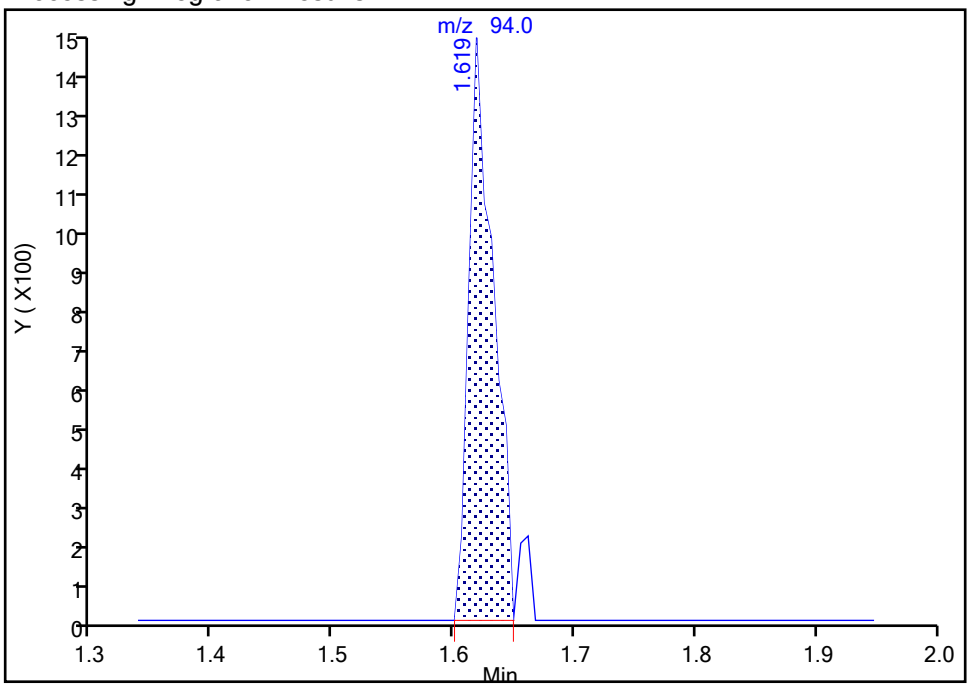
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

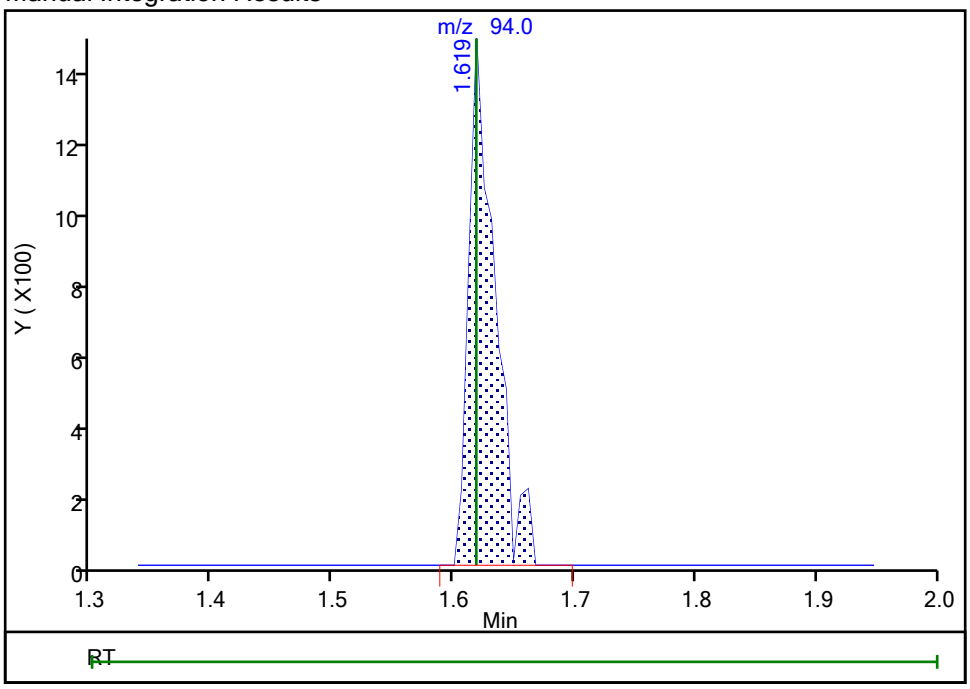
Processing Integration Results

RT: 1.62
Area: 2042
Amount: 1.556330
Amount Units: ug/l



Manual Integration Results

RT: 1.62
Area: 2190
Amount: 1.745172
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

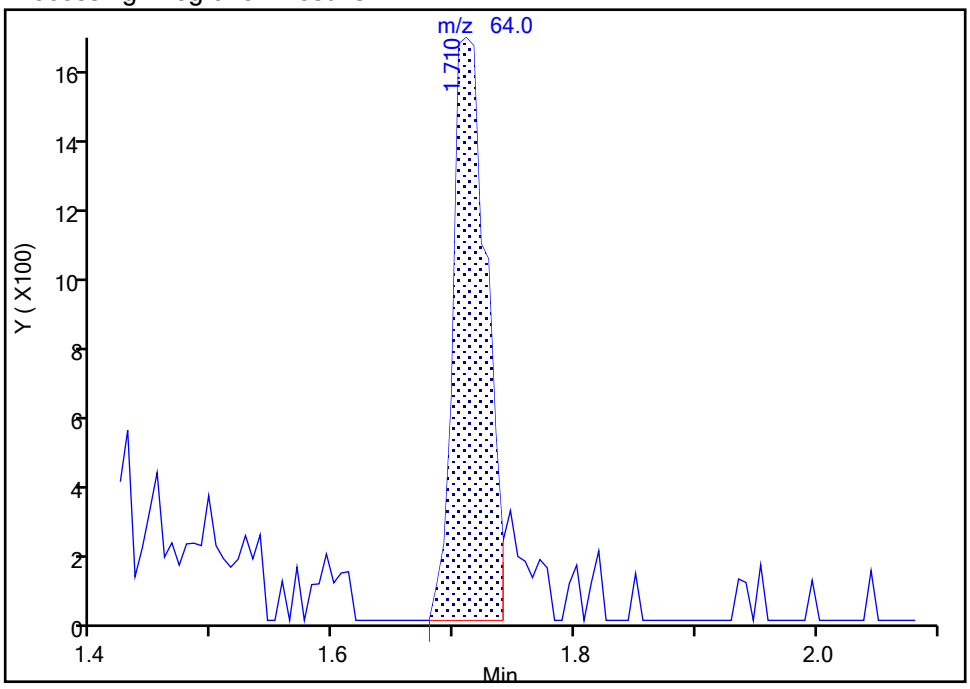
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

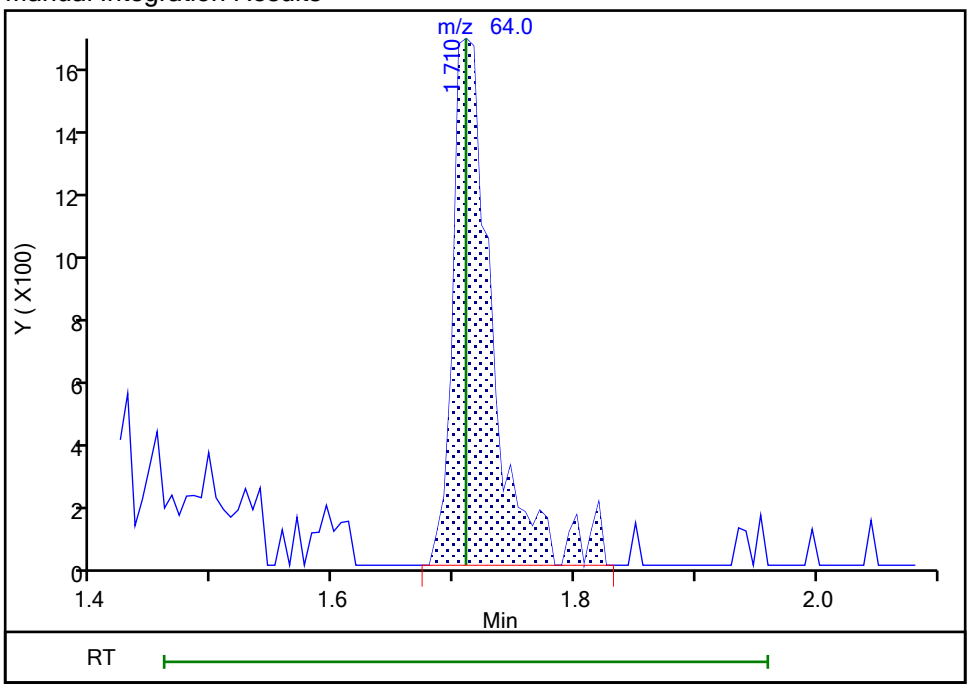
Processing Integration Results

RT: 1.71
Area: 3234
Amount: 1.660540
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 3854
Amount: 2.109195
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

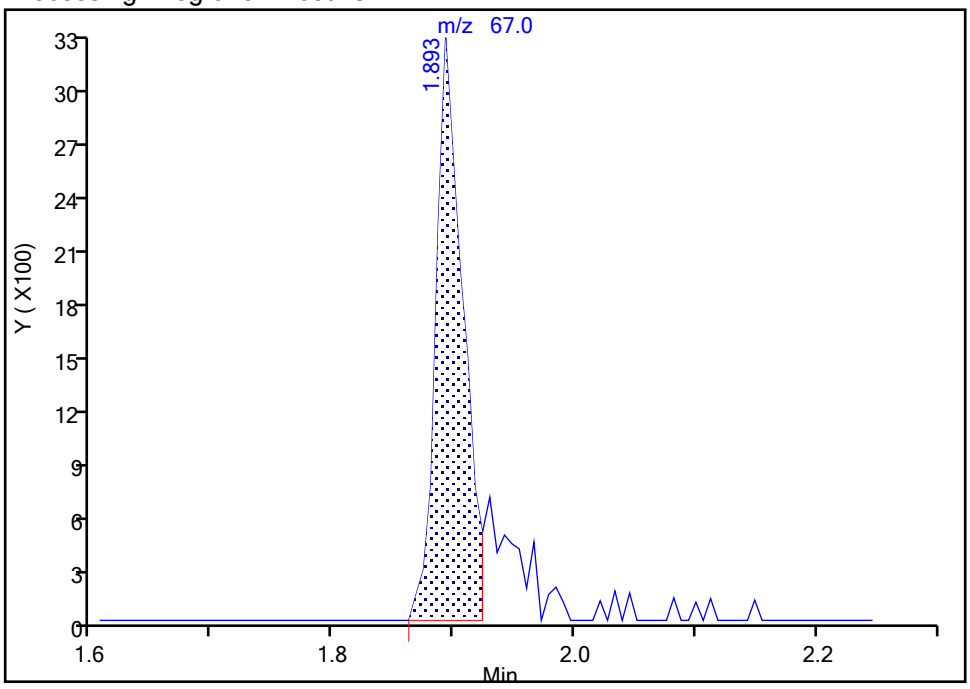
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

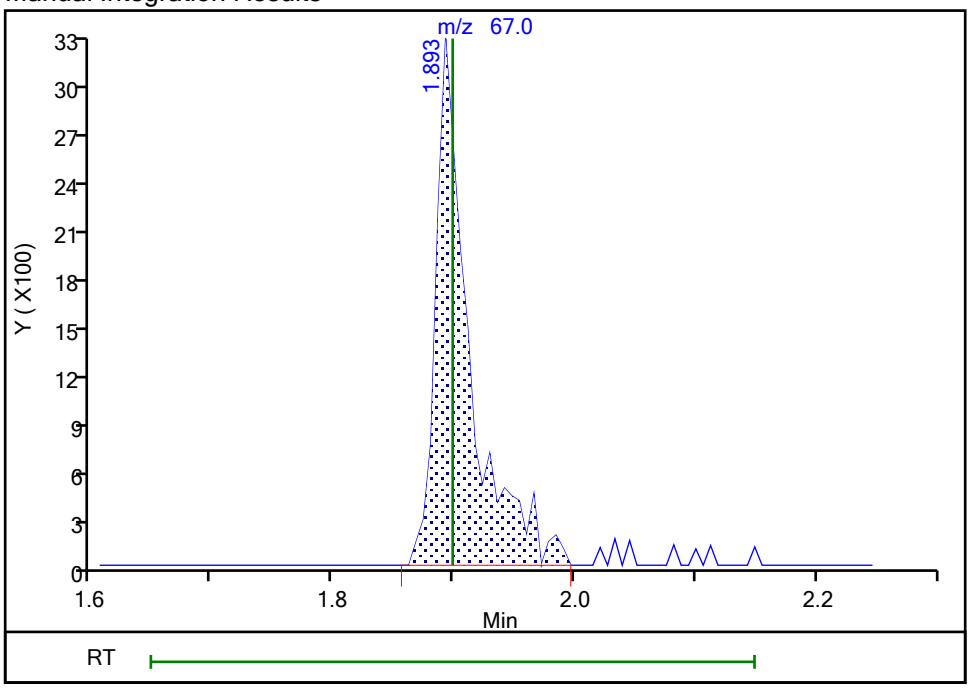
Processing Integration Results

RT: 1.89
Area: 5118
Amount: 1.426224
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 6379
Amount: 1.897521
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:06
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

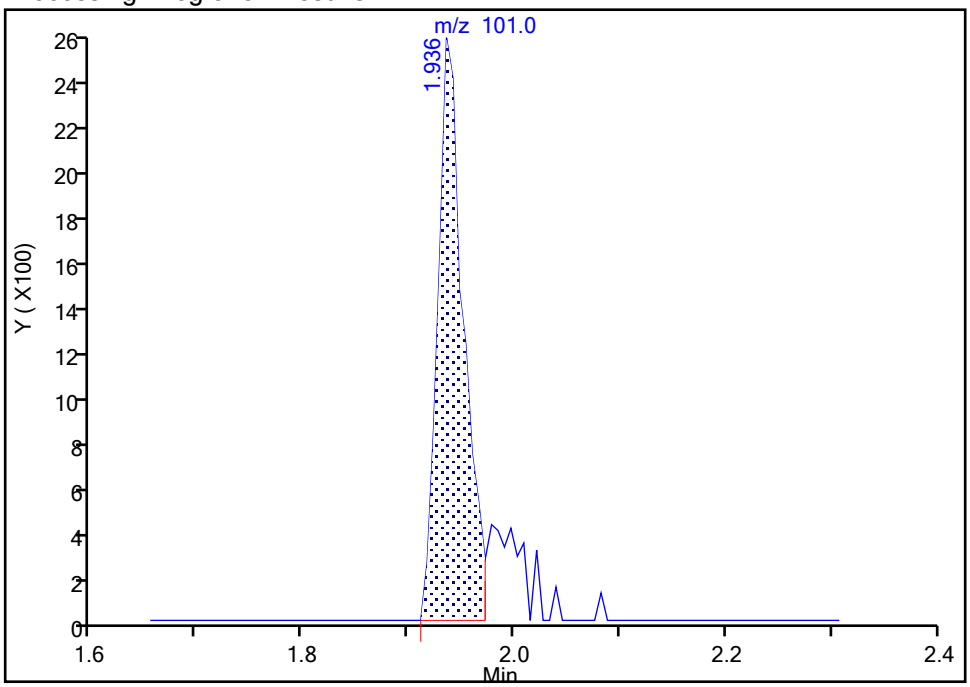
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

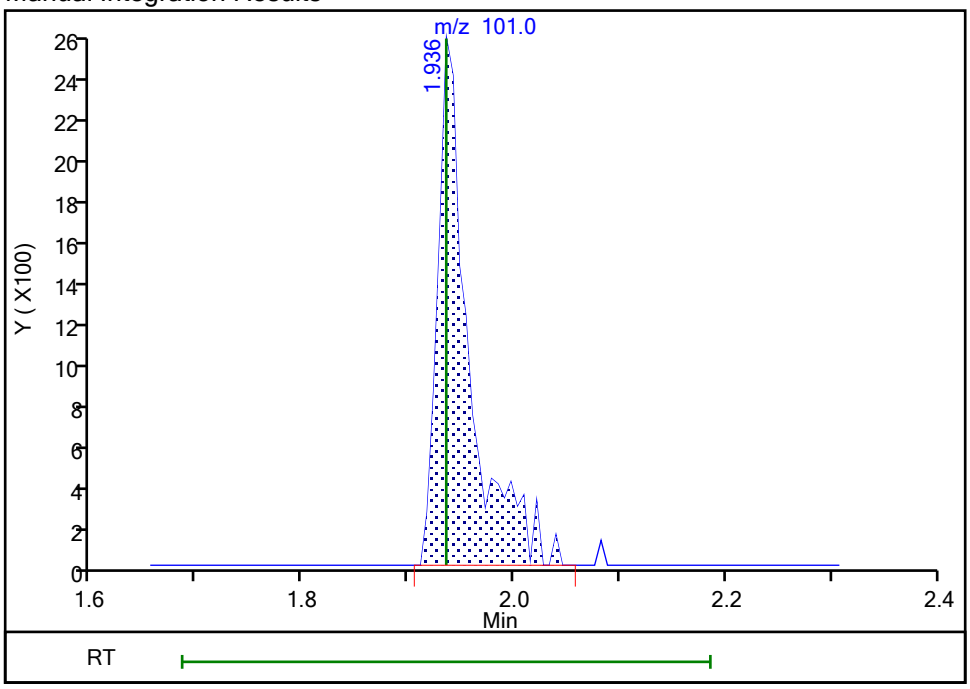
Processing Integration Results

RT: 1.94
Area: 4359
Amount: 1.540893
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 5319
Amount: 1.809321
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

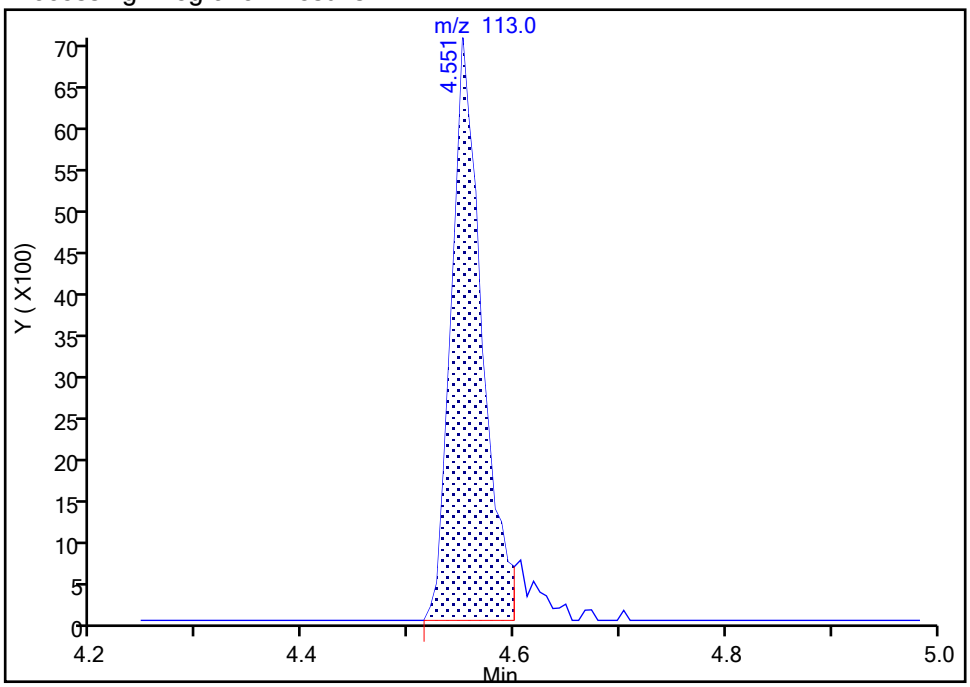
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

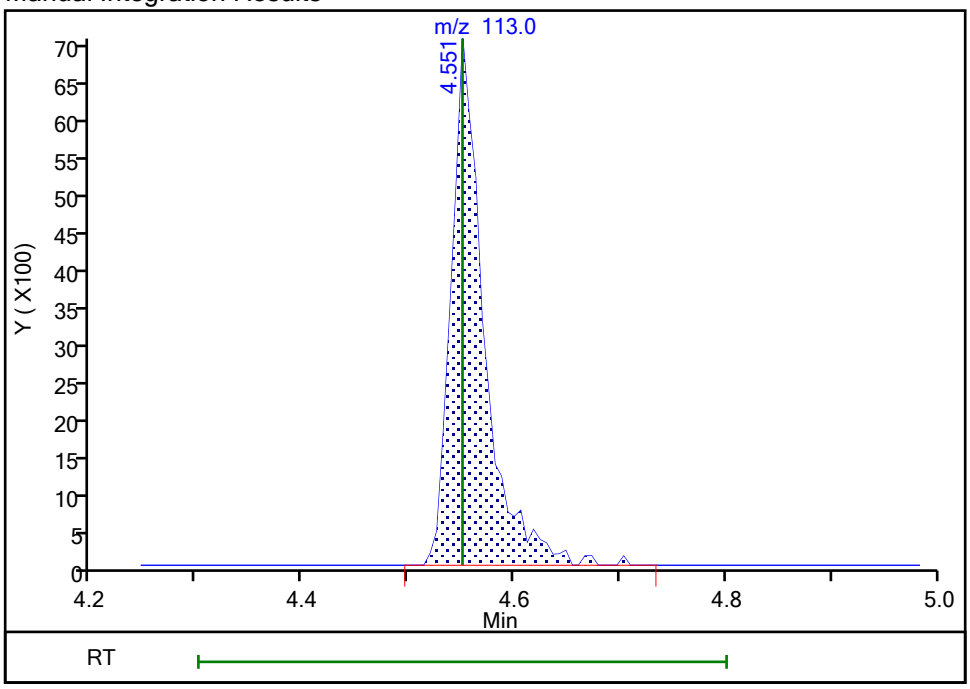
Processing Integration Results

RT: 4.55
Area: 14200
Amount: 42.527268
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 15299
Amount: 47.626276
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

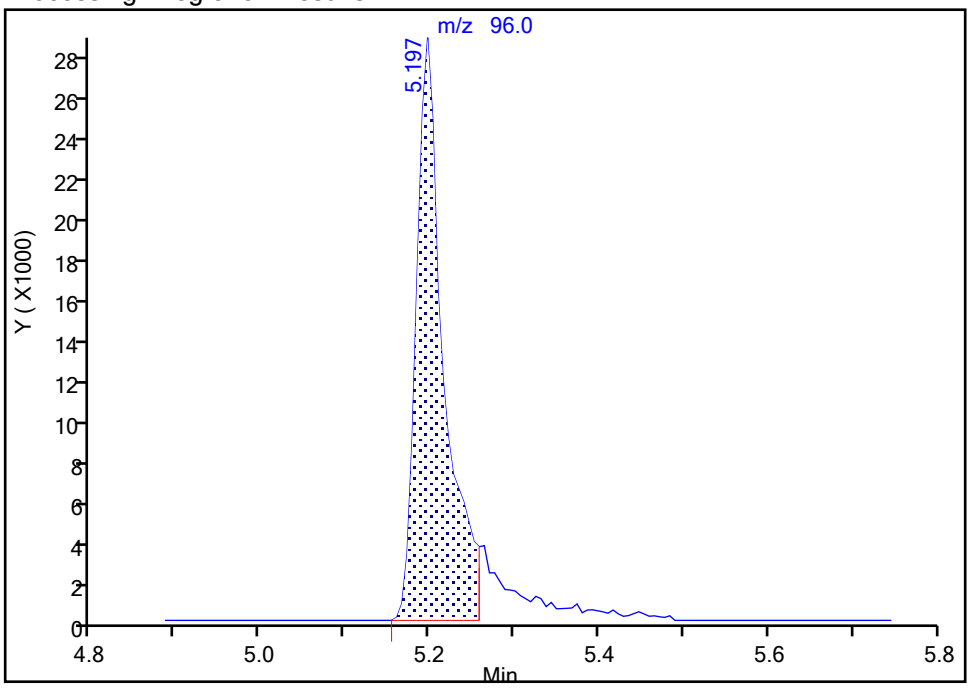
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

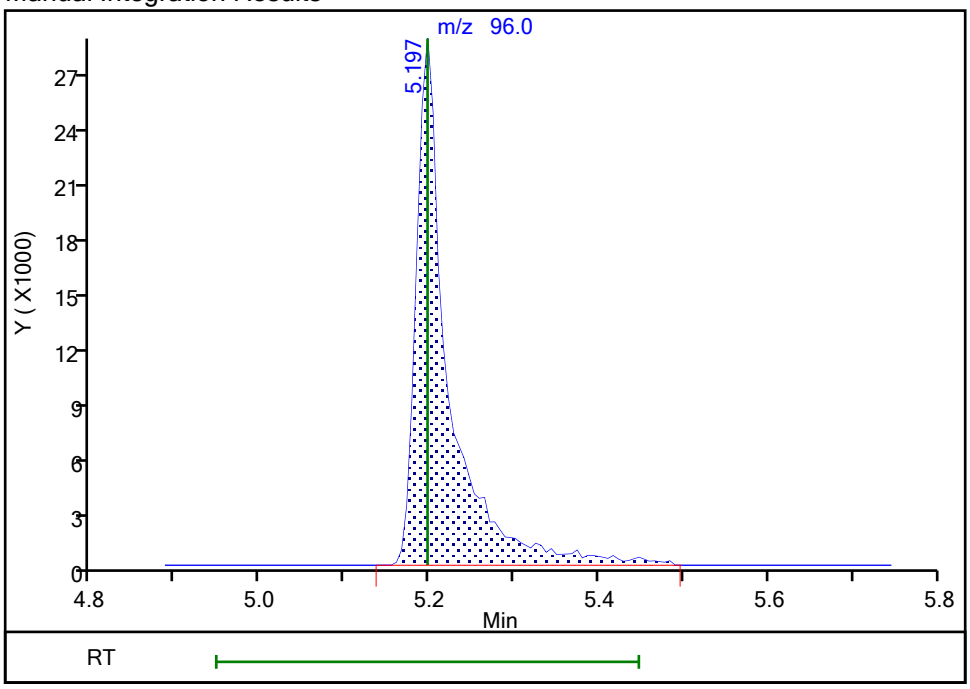
Processing Integration Results

RT: 5.20
Area: 65683
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 77089
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

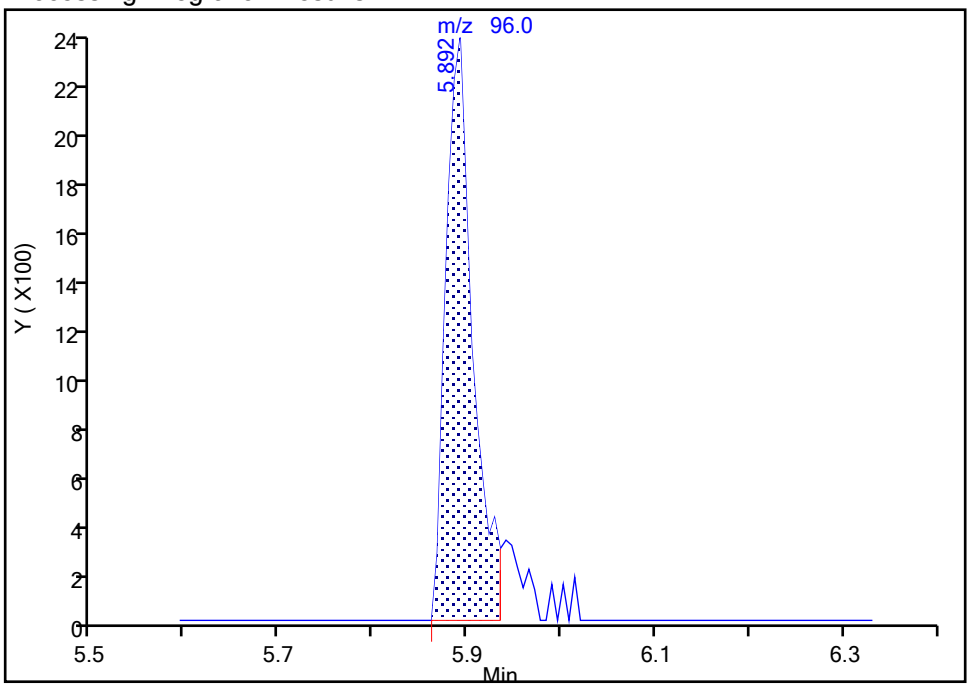
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

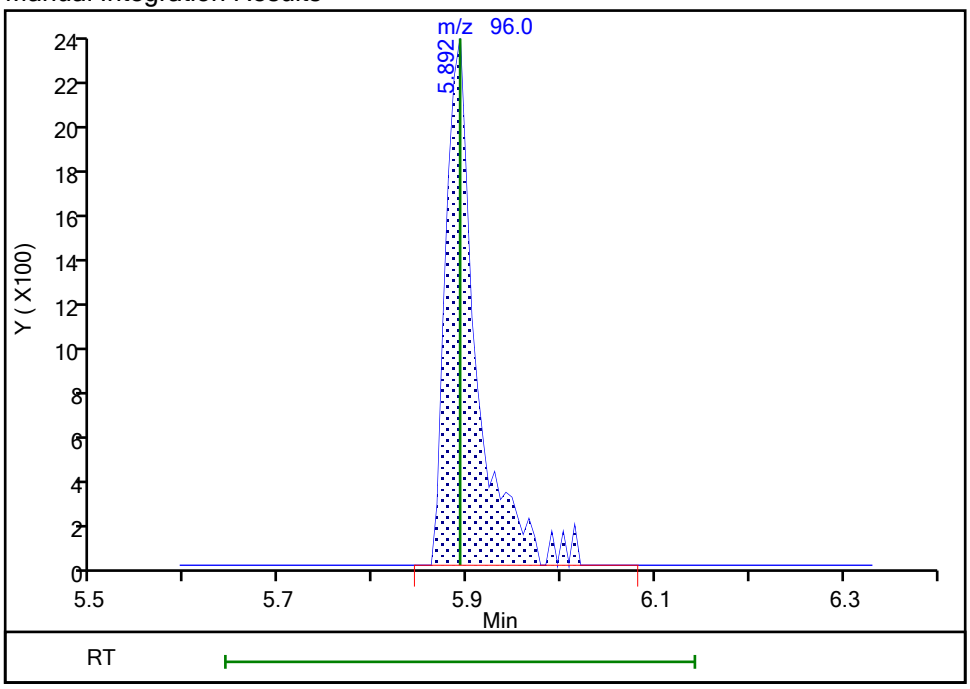
Processing Integration Results

RT: 5.89
Area: 4748
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5402
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

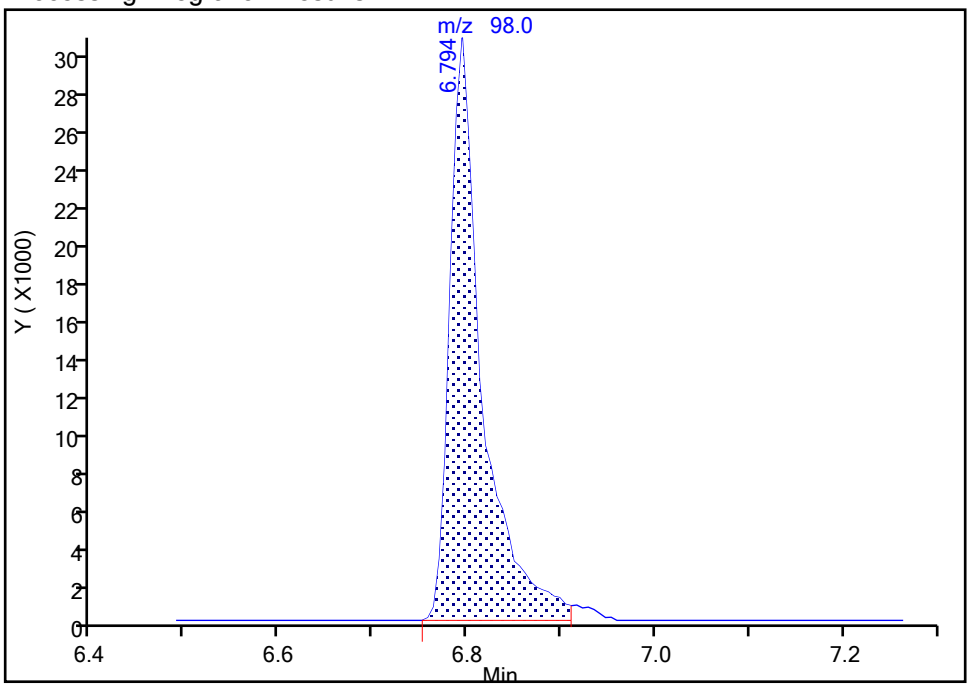
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3748.D
Injection Date: 09-Nov-2020 11:39:30 Instrument ID: Hobbes
Lims ID: std3
Client ID:
Operator ID: ALS Bottle#: 27 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

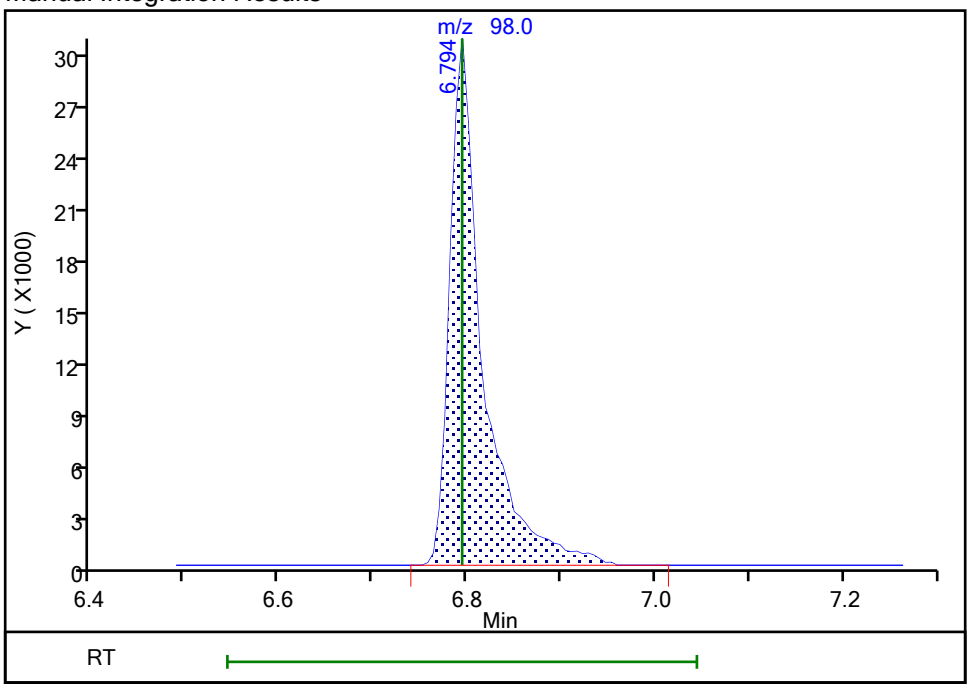
Processing Integration Results

RT: 6.79
Area: 72240
Amount: 52.065826
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 73469
Amount: 51.277984
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:09:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Nov-2020 12:02:30 ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:36 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:11:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	53415	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	75763	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	80	5497	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.349	-0.006	91	62127	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	95	37711	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	93	15965	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	71470	50.0	51.2	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24696	50.0	50.9	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	98	9460	4.00	3.66	M
10 Chloromethane	50	1.265	1.265	0.000	99	25363	4.00	3.69	
11 Vinyl chloride	62	1.350	1.350	0.000	97	14124	4.00	3.66	M
12 Butadiene	54	1.381	1.387	-0.006	97	16274	4.00	3.71	M
13 Bromomethane	94	1.618	1.618	0.000	93	4650	4.00	3.77	M
14 Chloroethane	64	1.710	1.710	0.000	93	6717	4.00	3.74	M
15 Dichlorofluoromethane	67	1.899	1.899	0.000	95	14013	4.00	4.24	M
16 Trichlorofluoromethane	101	1.941	1.935	0.006	97	9697	4.00	3.36	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

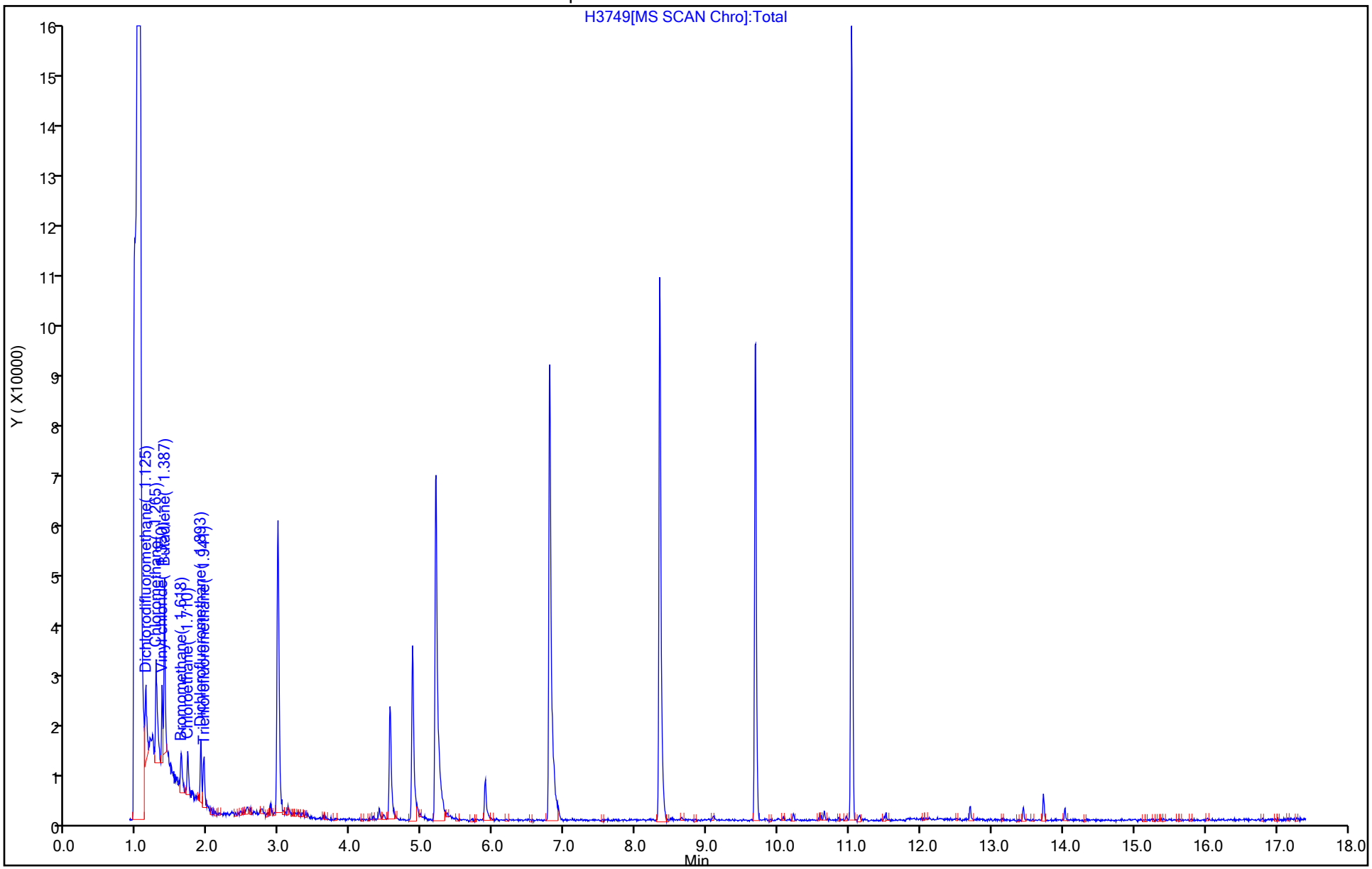
Reagents:

VV_I_GASES_00413 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:38 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D				
Injection Date:	09-Nov-2020 12:02:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std4			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

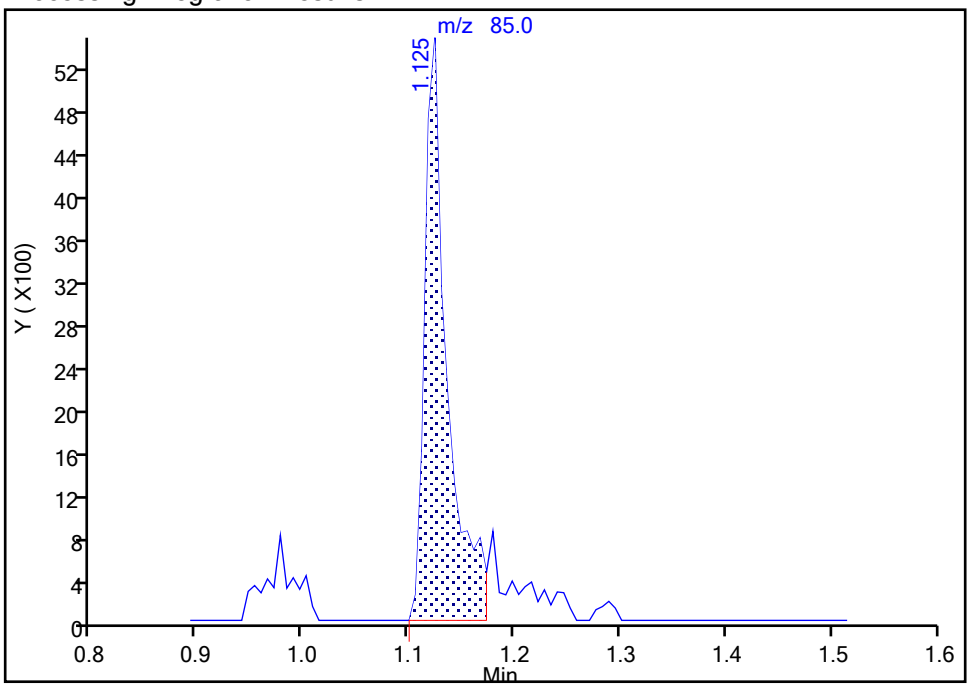
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

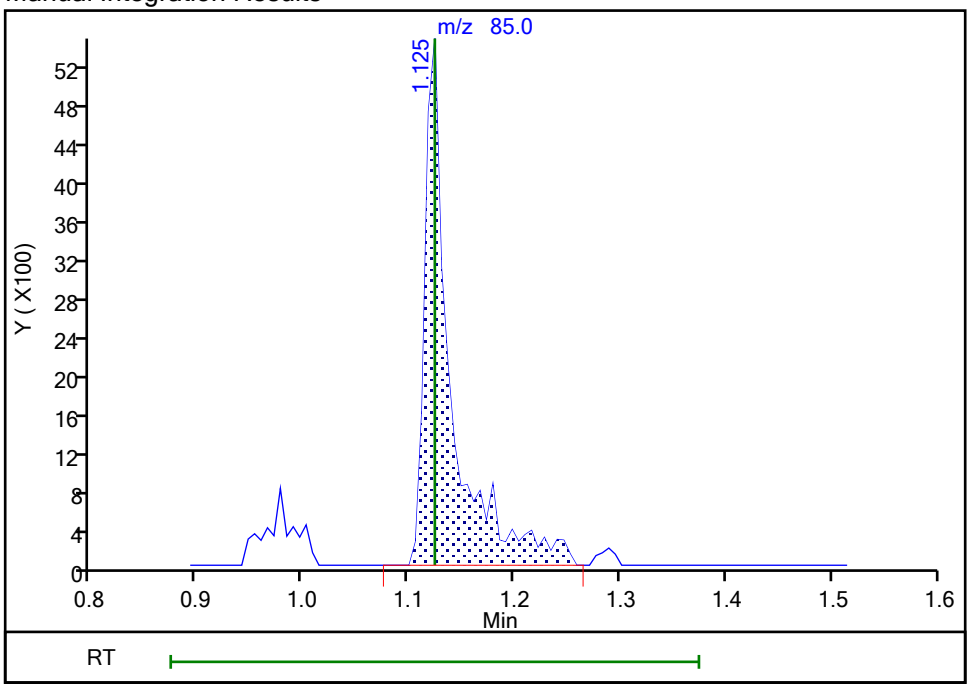
Processing Integration Results

RT: 1.12
Area: 8048
Amount: 2.962574
Amount Units: ug/l



Manual Integration Results

RT: 1.12
Area: 9460
Amount: 3.663922
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

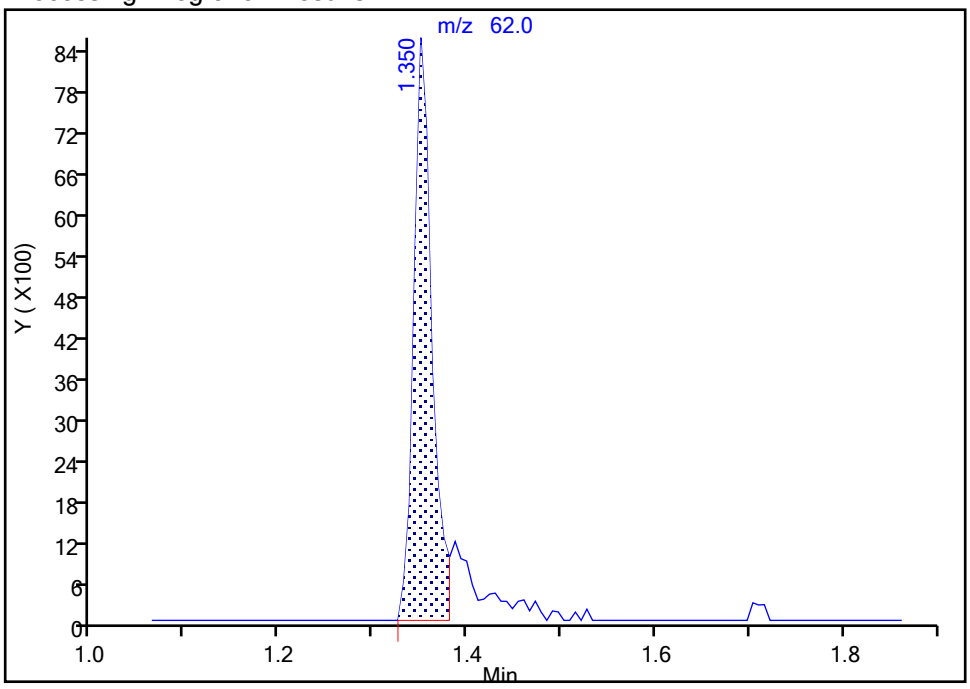
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

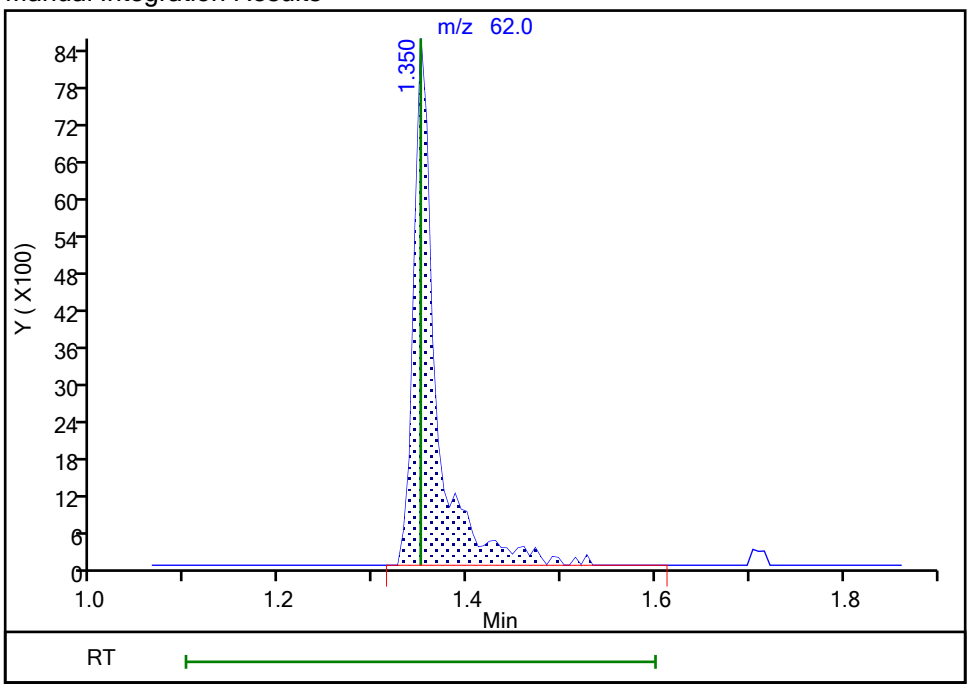
Processing Integration Results

RT: 1.35
Area: 11469
Amount: 2.840327
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 14124
Amount: 3.661647
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

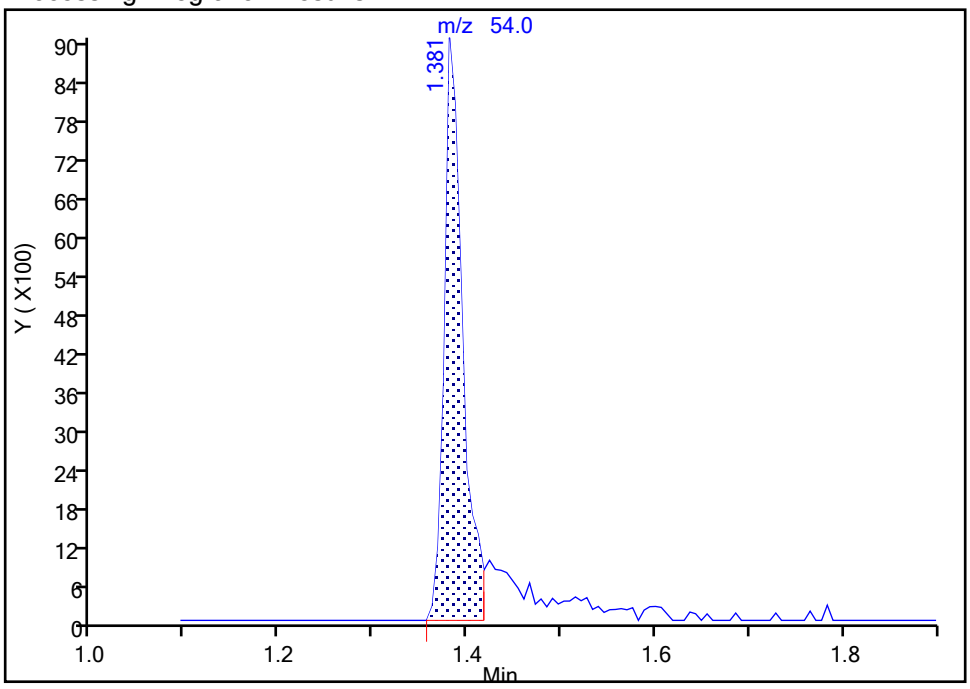
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

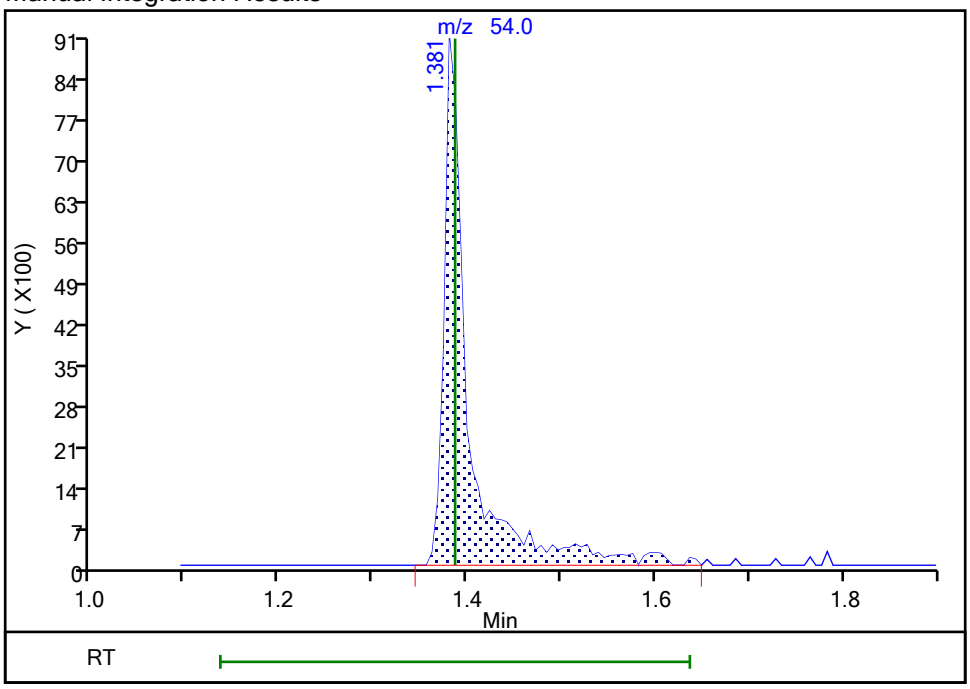
Processing Integration Results

RT: 1.38
Area: 12313
Amount: 2.705811
Amount Units: ug/l



Manual Integration Results

RT: 1.38
Area: 16274
Amount: 3.710113
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

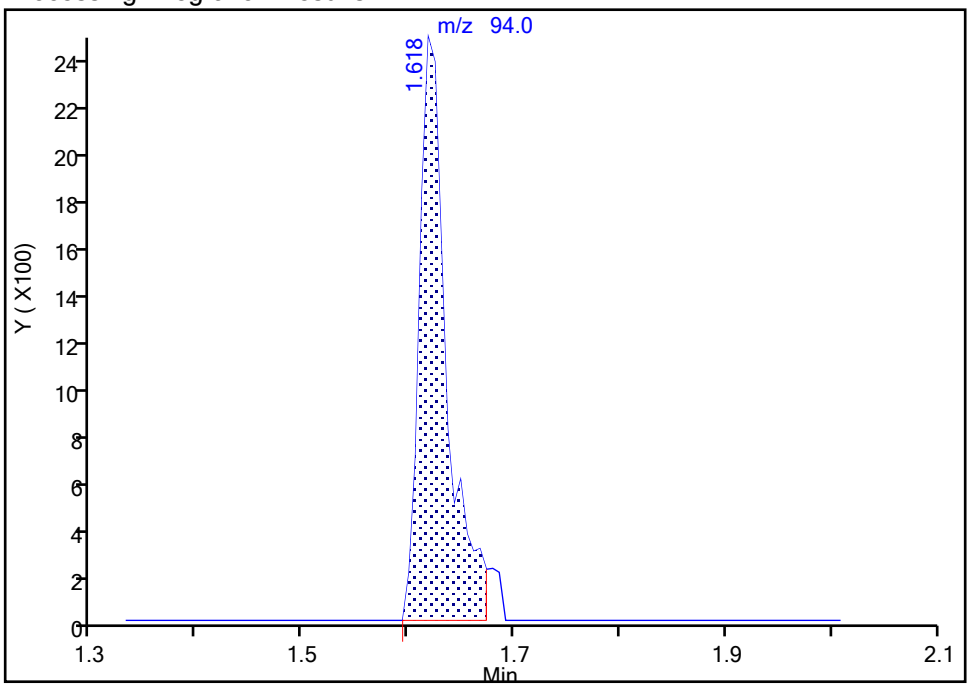
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

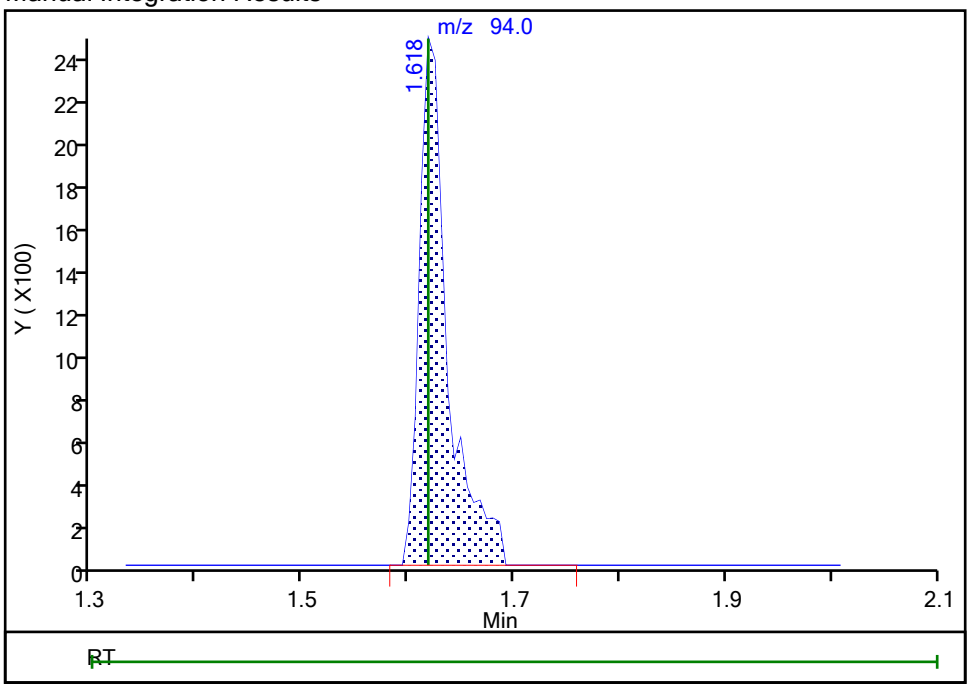
Processing Integration Results

RT: 1.62
Area: 4494
Amount: 3.643856
Amount Units: ug/l



Manual Integration Results

RT: 1.62
Area: 4650
Amount: 3.770357
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

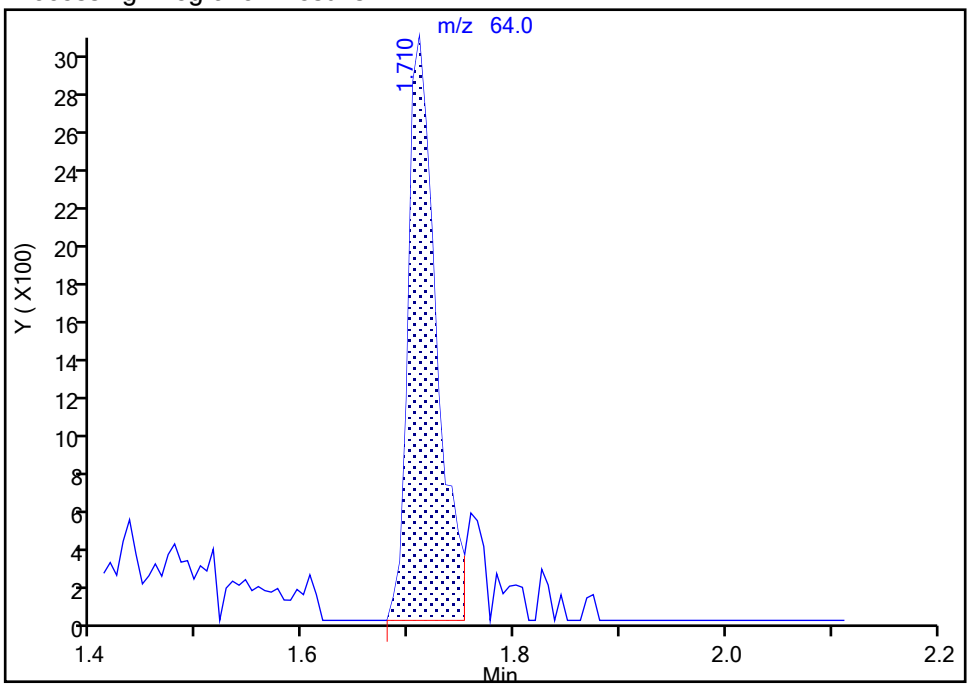
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

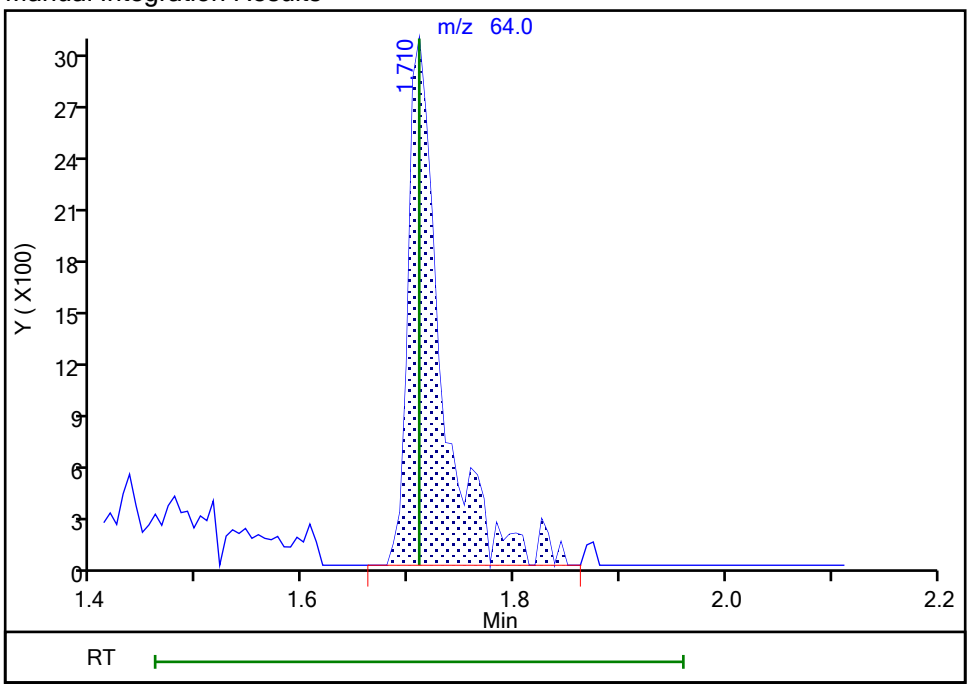
Processing Integration Results

RT: 1.71
Area: 5633
Amount: 3.051019
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 6717
Amount: 3.740378
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

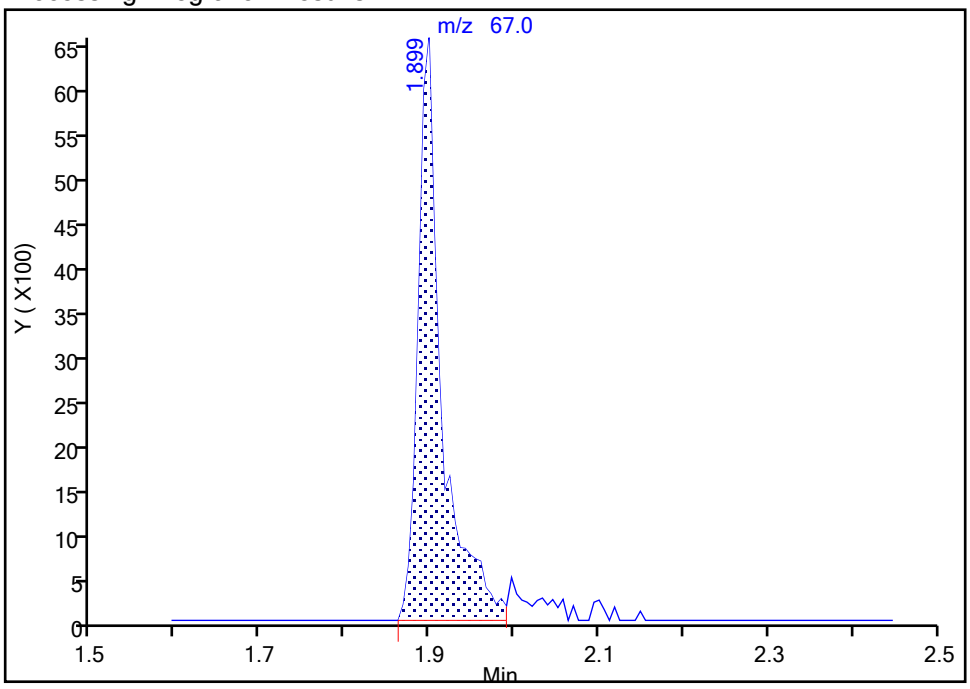
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

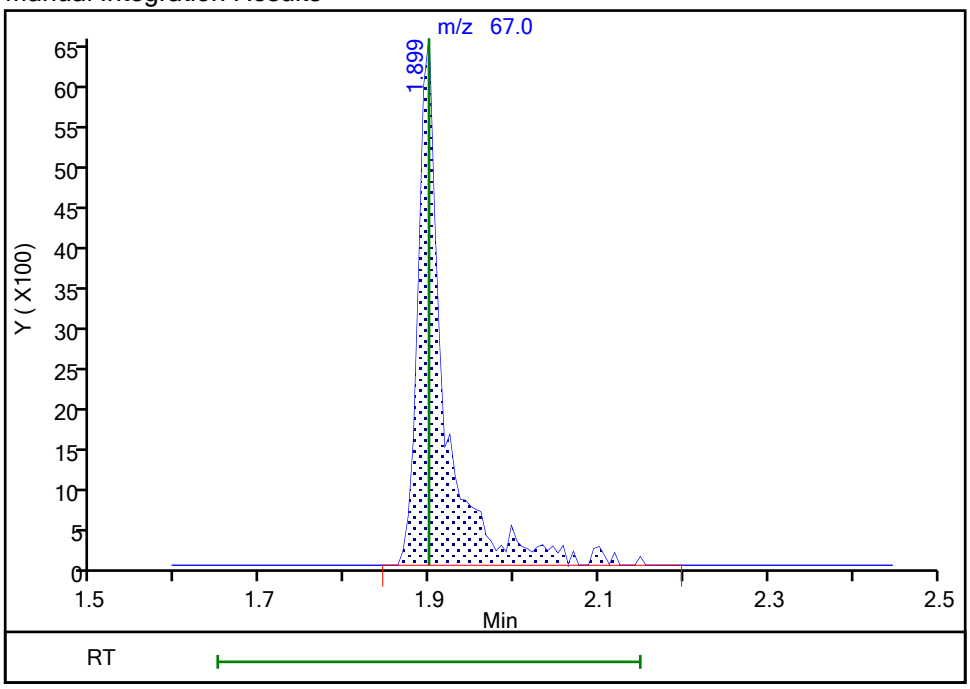
Processing Integration Results

RT: 1.90
Area: 12696
Amount: 3.727009
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 14013
Amount: 4.241313
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

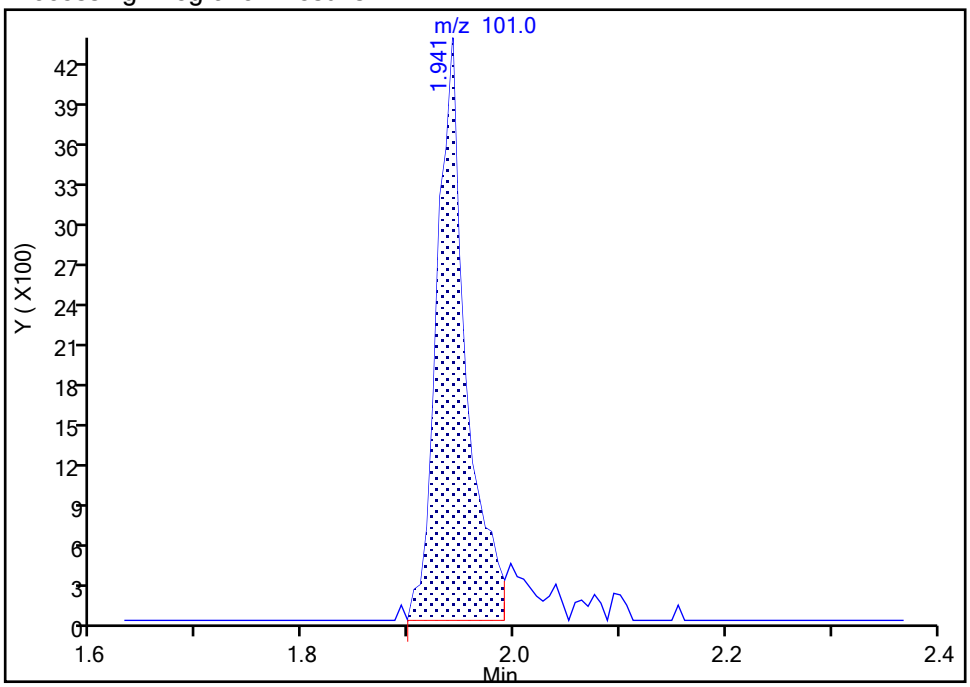
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

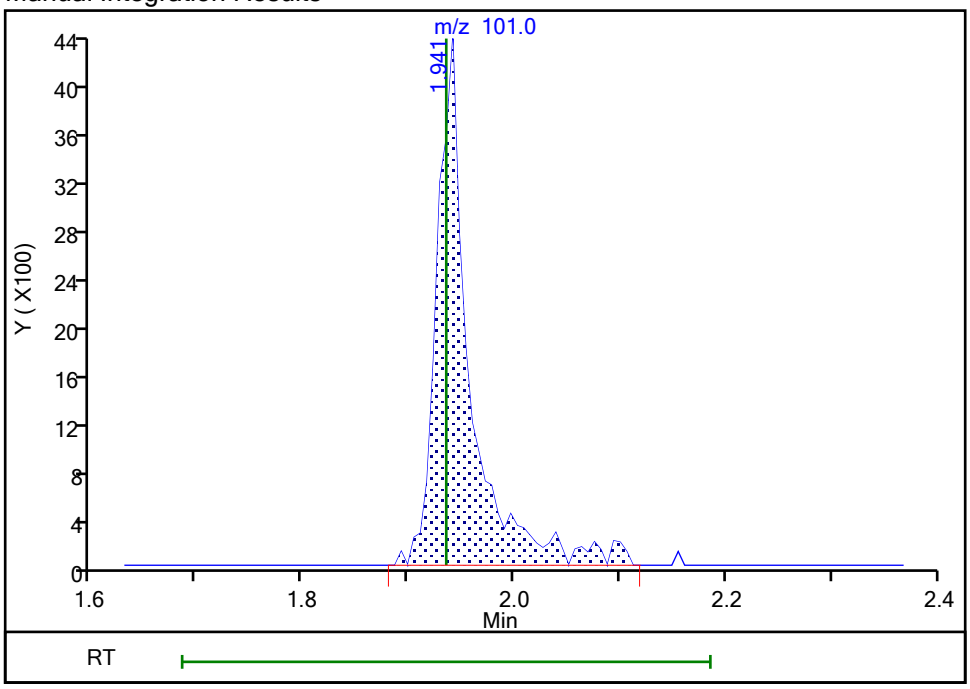
Processing Integration Results

RT: 1.94
Area: 8386
Amount: 3.124362
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 9697
Amount: 3.356280
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

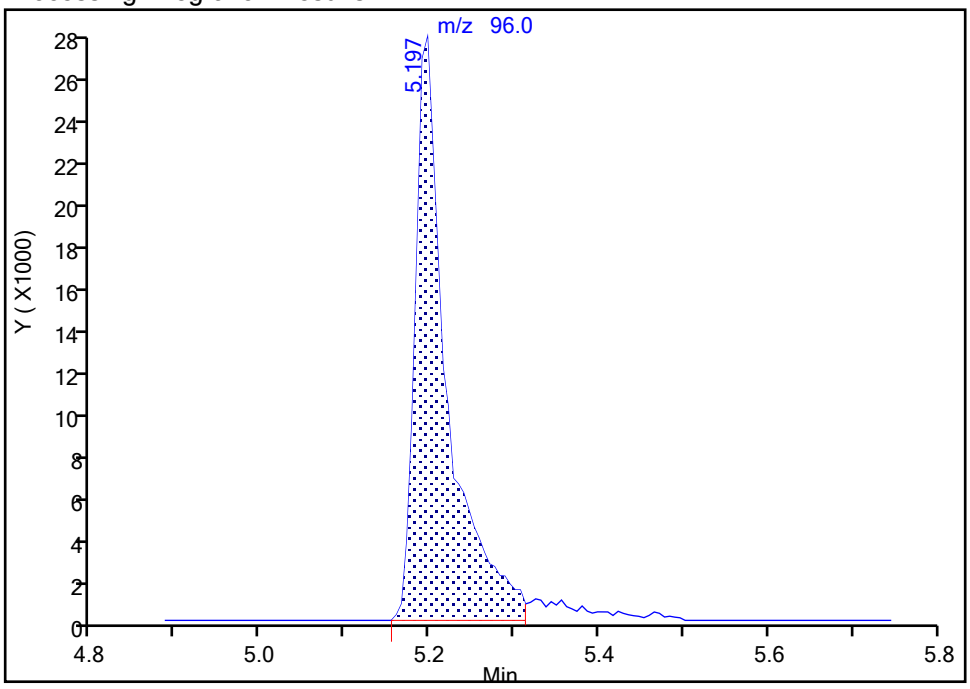
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

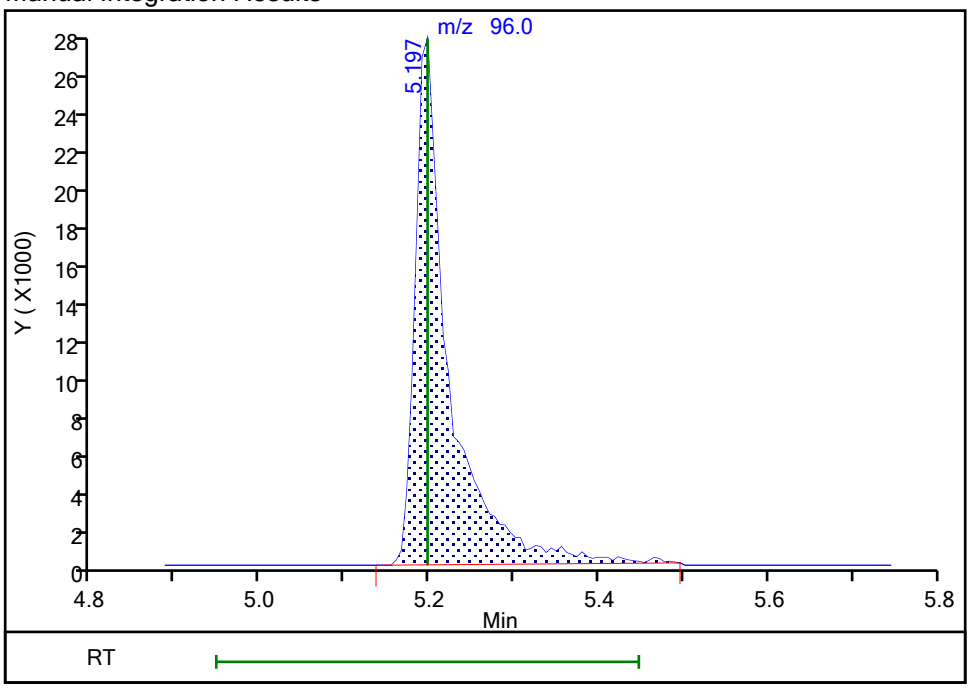
Processing Integration Results

RT: 5.20
Area: 72123
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 75763
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

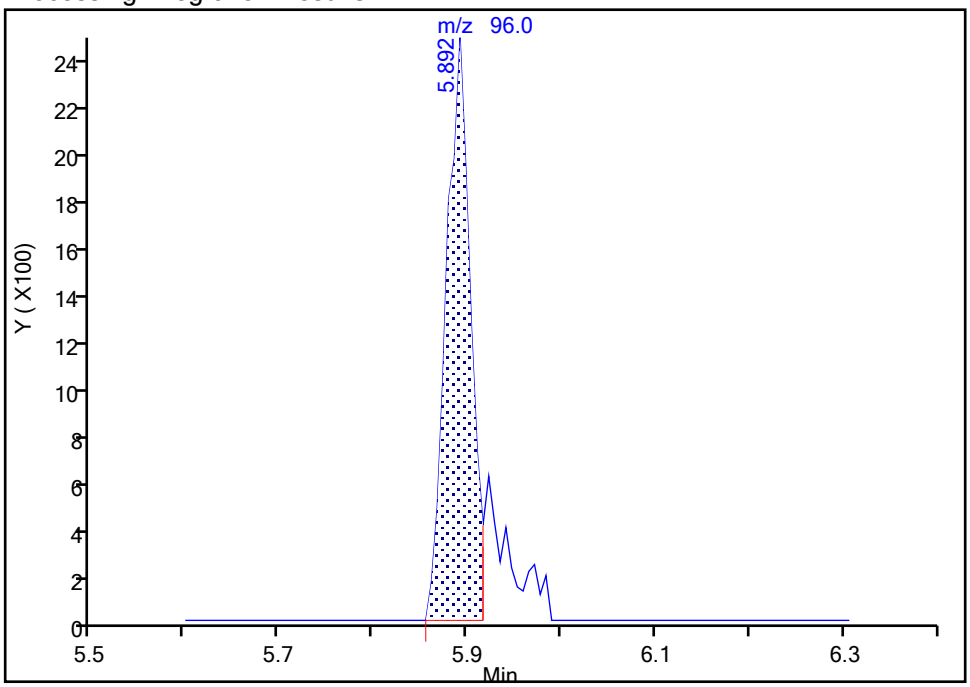
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

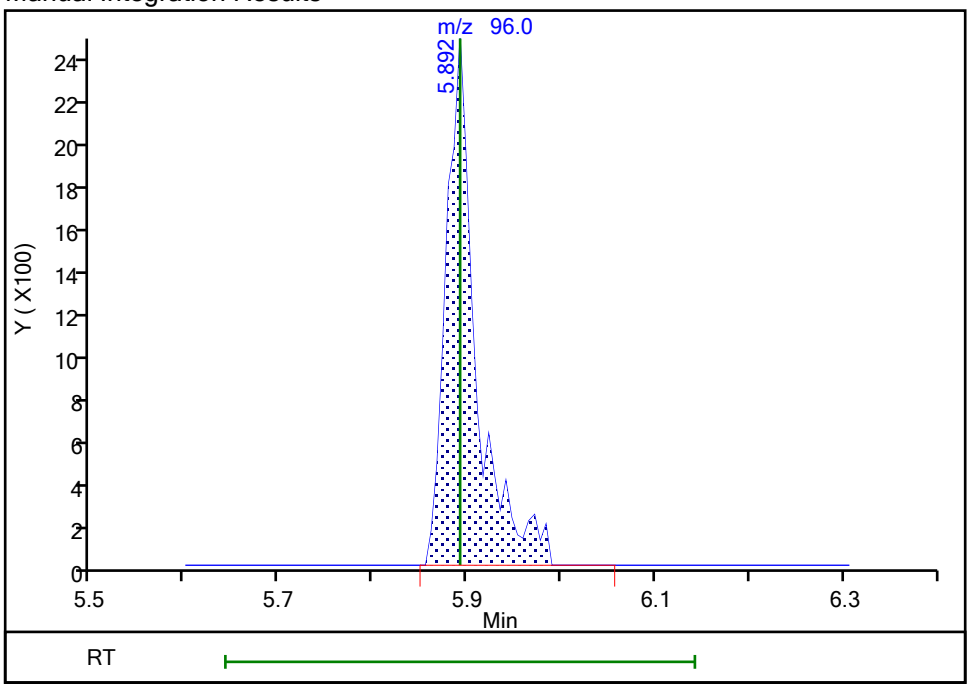
Processing Integration Results

RT: 5.89
Area: 4437
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5497
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

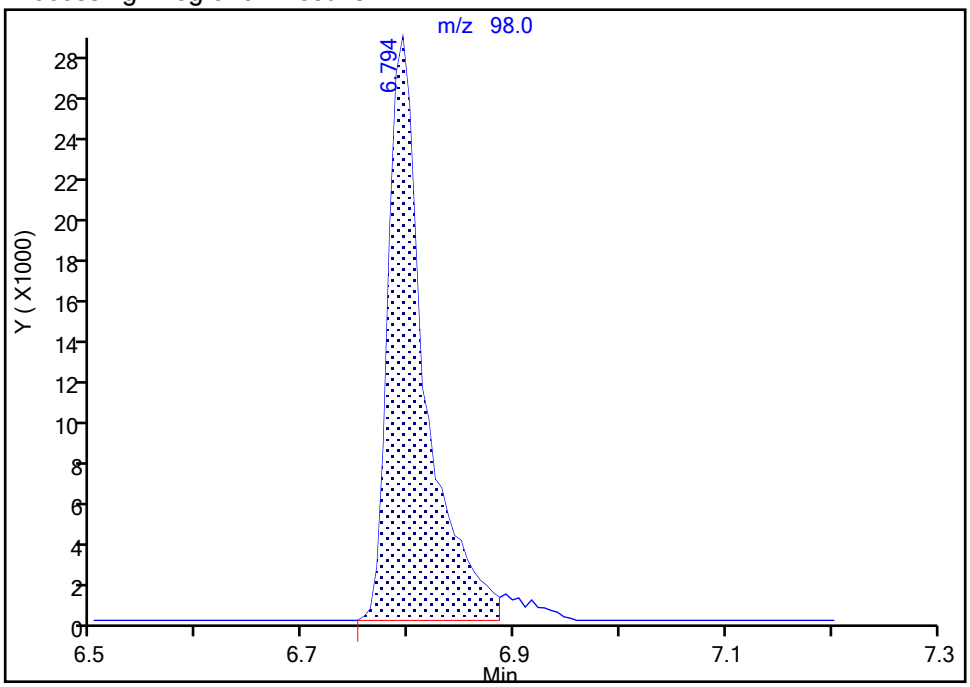
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3749.D
Injection Date: 09-Nov-2020 12:02:30 Instrument ID: Hobbes
Lims ID: std4
Client ID:
Operator ID: ALS Bottle#: 28 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

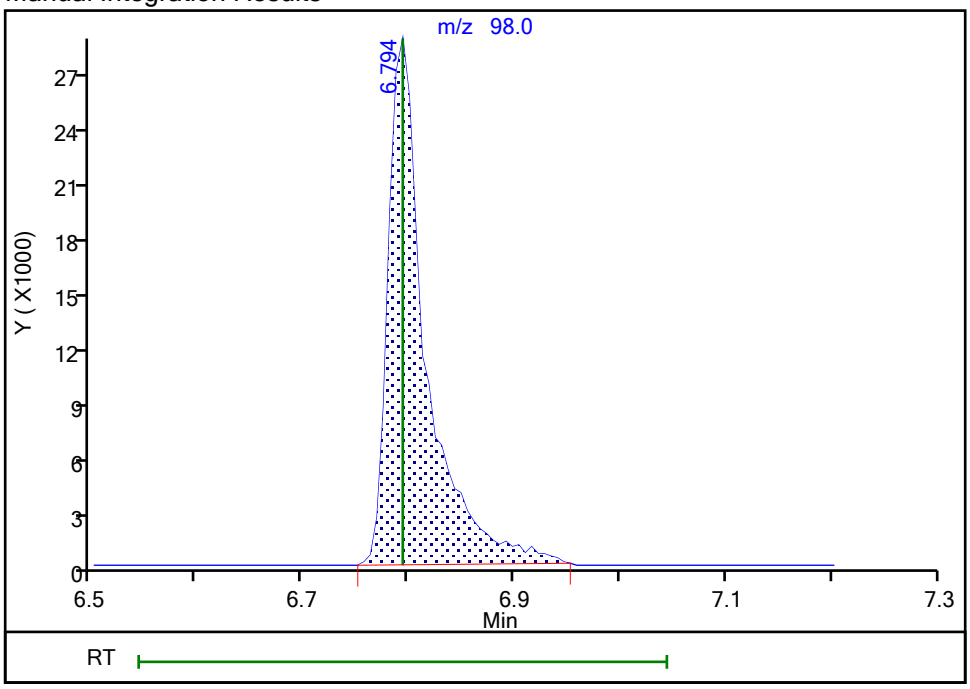
Processing Integration Results

RT: 6.79
Area: 69414
Amount: 51.262721
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 71470
Amount: 51.188316
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:10:51
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Nov-2020 12:24:30 ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:41 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:12:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.984	-0.012	0	54624	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	78733	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	90	6106	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.349	-0.006	91	63324	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	95	38999	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	92	16701	50.0	50.9	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	72047	50.0	50.6	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24753	50.0	49.3	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	97	29185	10.0	10.9	M
10 Chloromethane	50	1.265	1.265	0.000	99	72113	10.0	10.1	
11 Vinyl chloride	62	1.350	1.350	0.000	97	42965	10.0	10.7	M
12 Butadiene	54	1.387	1.387	0.000	93	48842	10.0	10.7	M
13 Bromomethane	94	1.618	1.618	0.000	91	12930	10.0	10.1	M
14 Chloroethane	64	1.710	1.710	0.000	94	20065	10.0	10.8	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	97	38797	10.0	11.3	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	96	33312	10.0	11.1	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

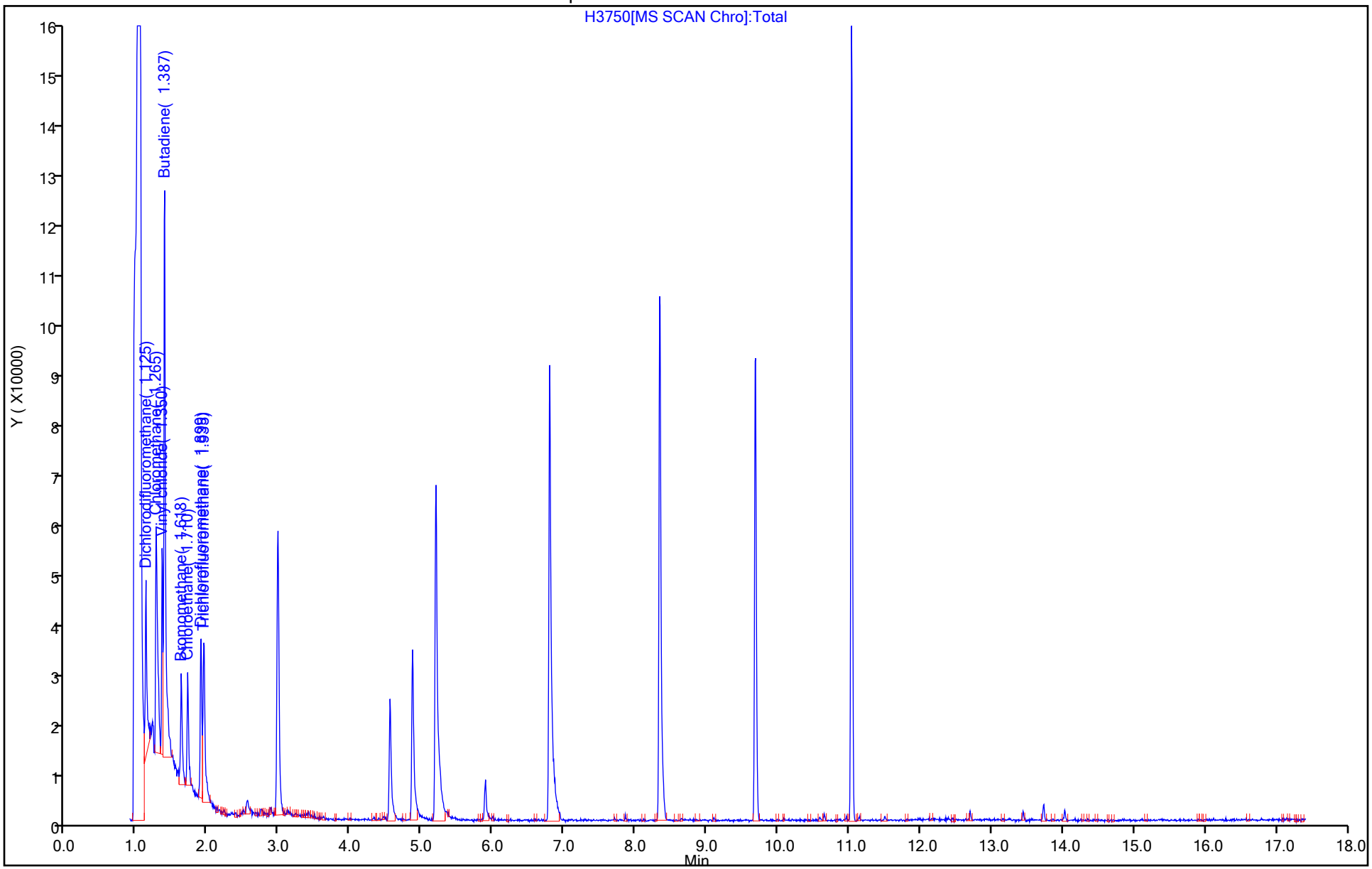
VV_I_GASES_00413 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:42 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D

Injection Date:	09-Nov-2020 12:24:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std5			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

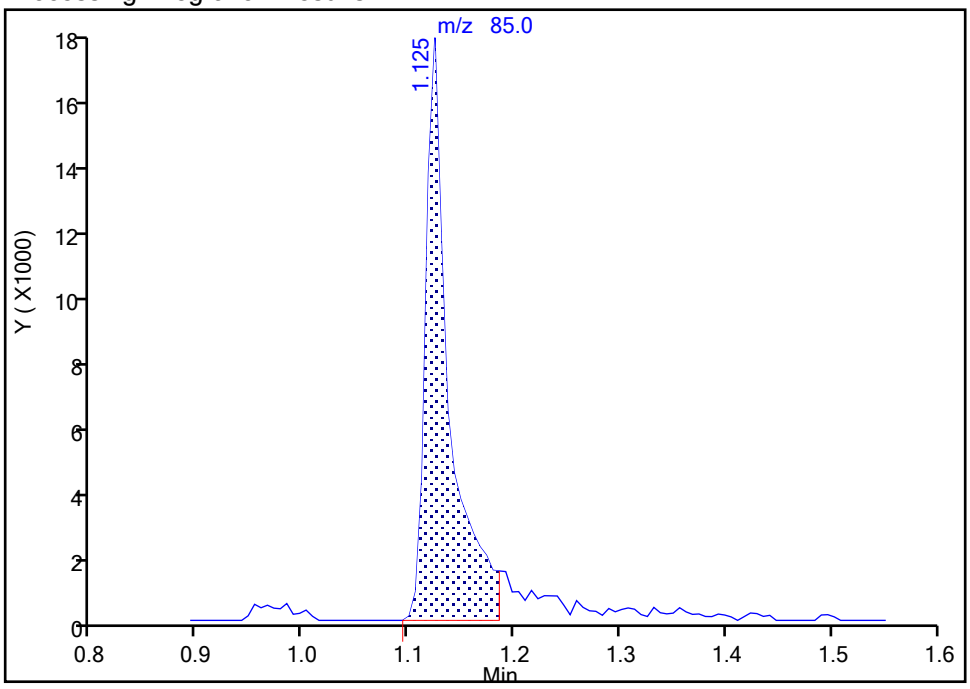
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

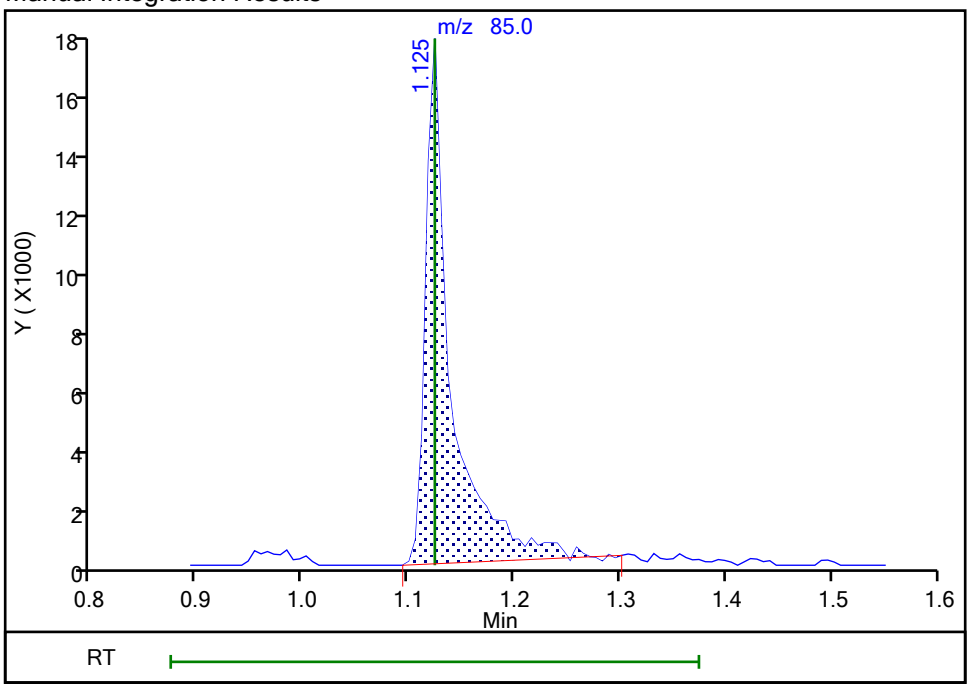
Processing Integration Results

RT: 1.12
Area: 27337
Amount: 9.247649
Amount Units: ug/l



Manual Integration Results

RT: 1.12
Area: 29185
Amount: 10.877151
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

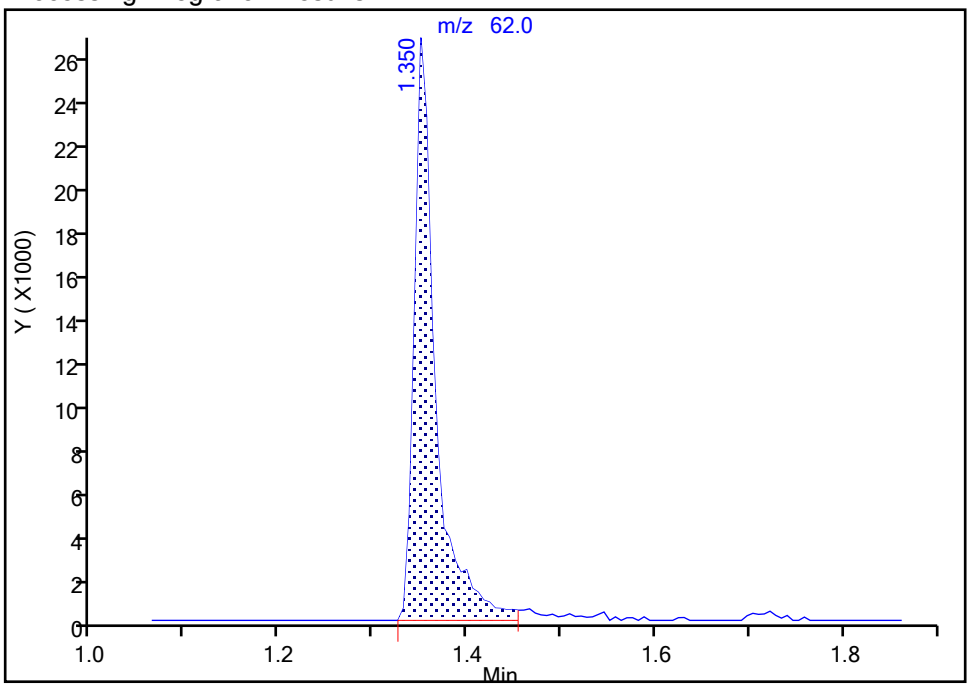
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

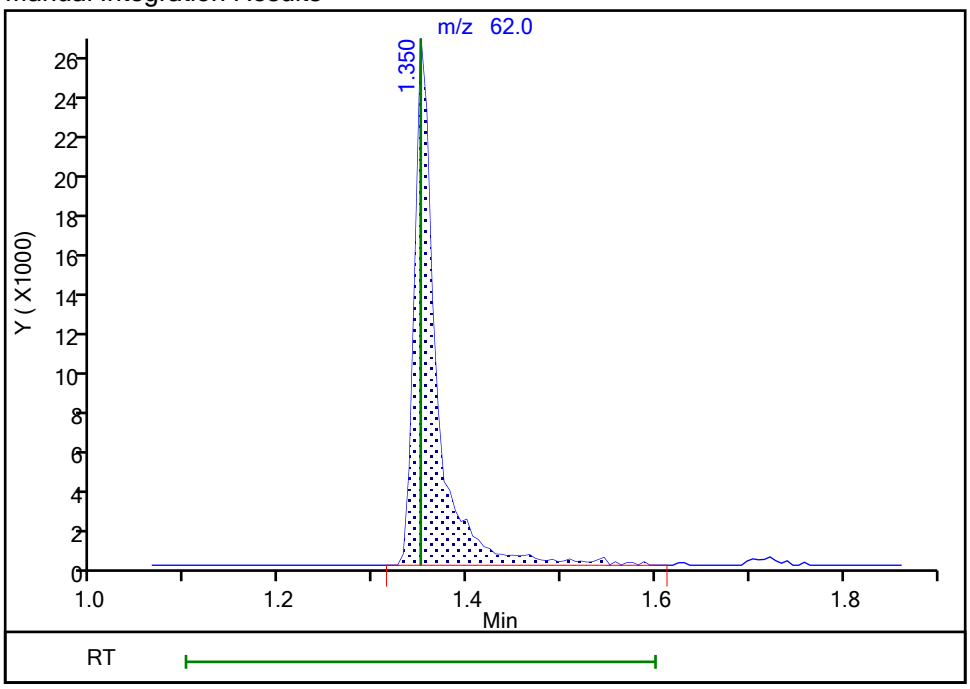
Processing Integration Results

RT: 1.35
Area: 41276
Amount: 9.368501
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 42965
Amount: 10.718499
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

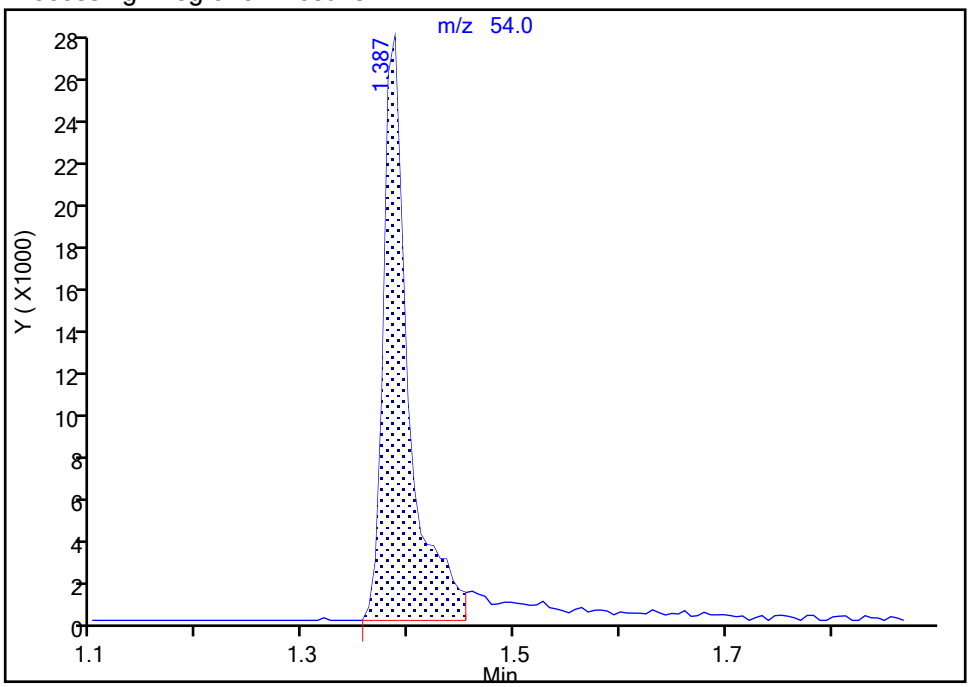
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

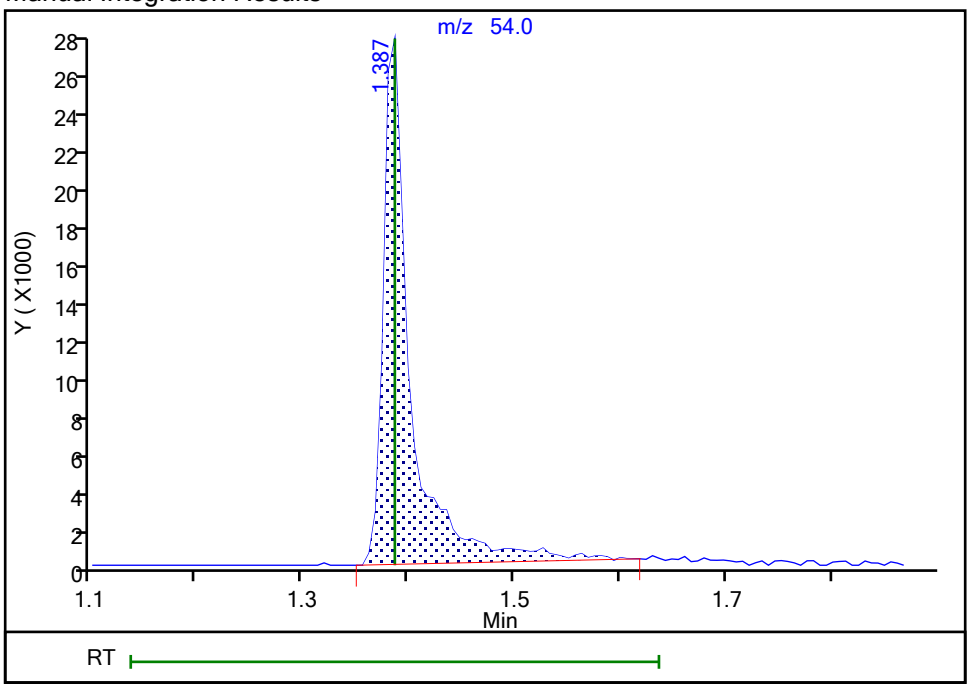
Processing Integration Results

RT: 1.39
Area: 45252
Amount: 9.071649
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 48842
Amount: 10.714864
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

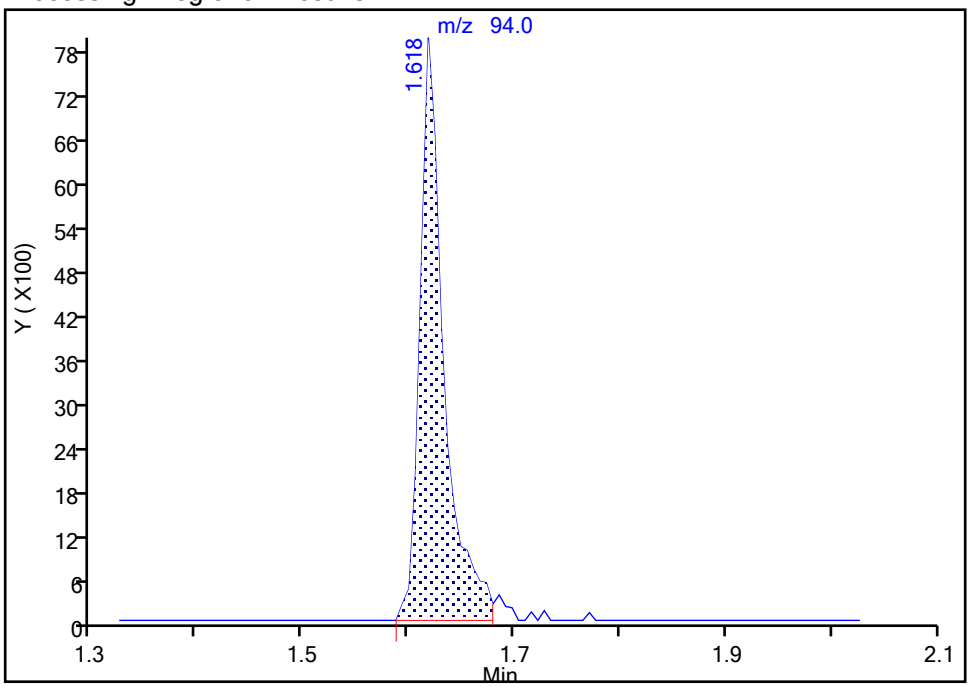
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

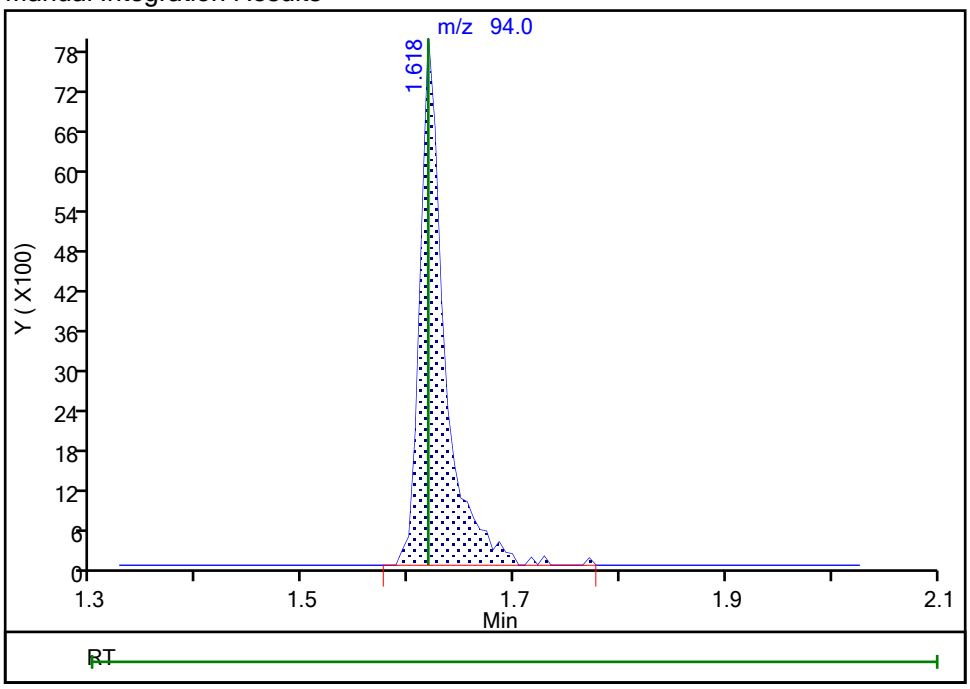
Processing Integration Results

RT: 1.62
Area: 12540
Amount: 9.425059
Amount Units: ug/l



Manual Integration Results

RT: 1.62
Area: 12930
Amount: 10.088541
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

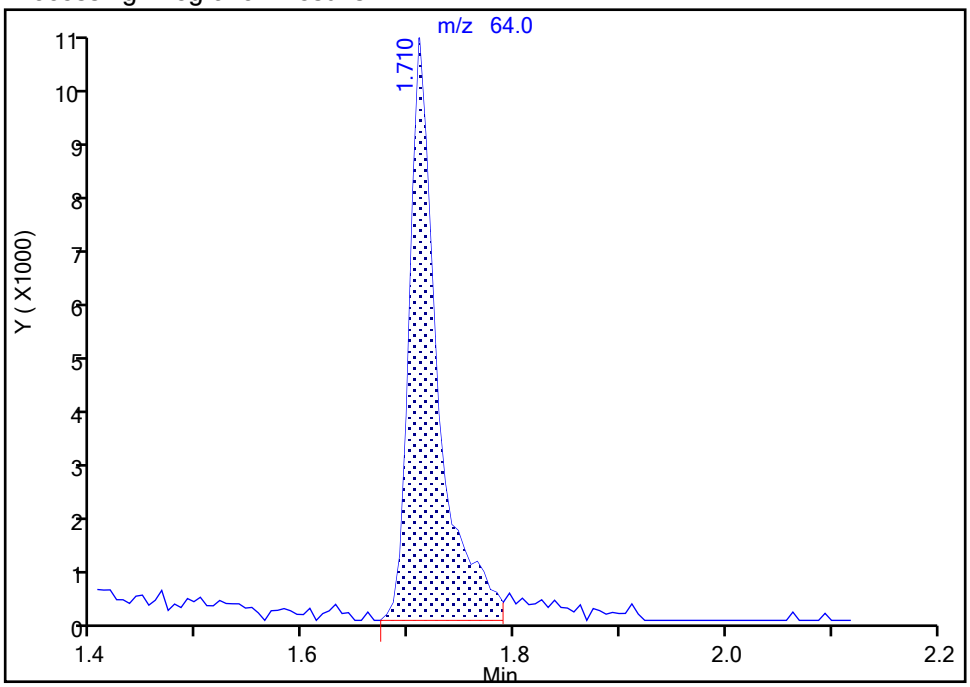
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

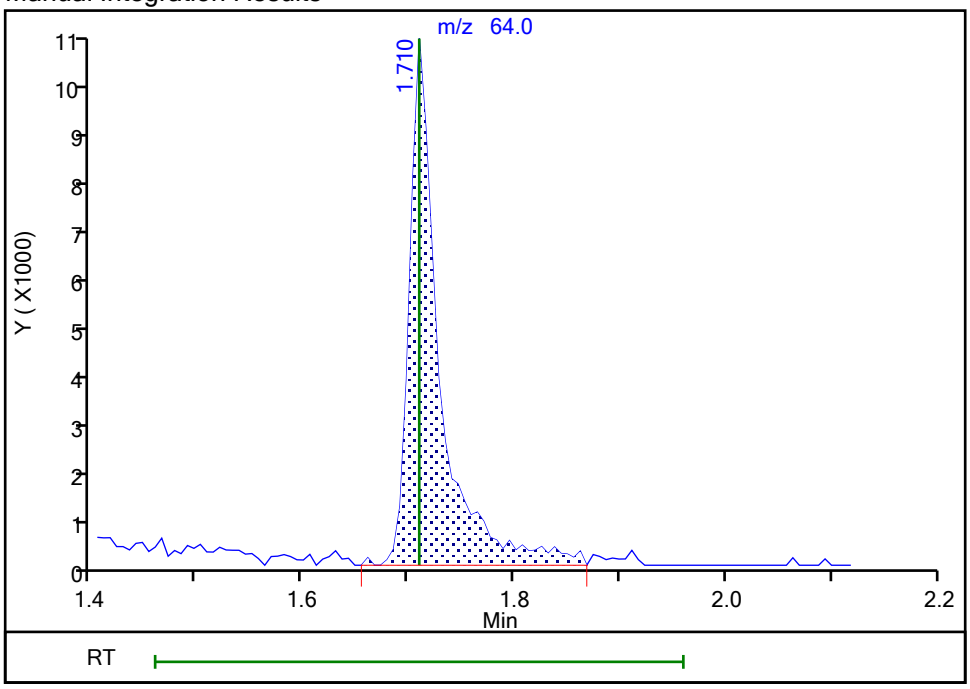
Processing Integration Results

RT: 1.71
Area: 18747
Amount: 9.320397
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 20065
Amount: 10.751763
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

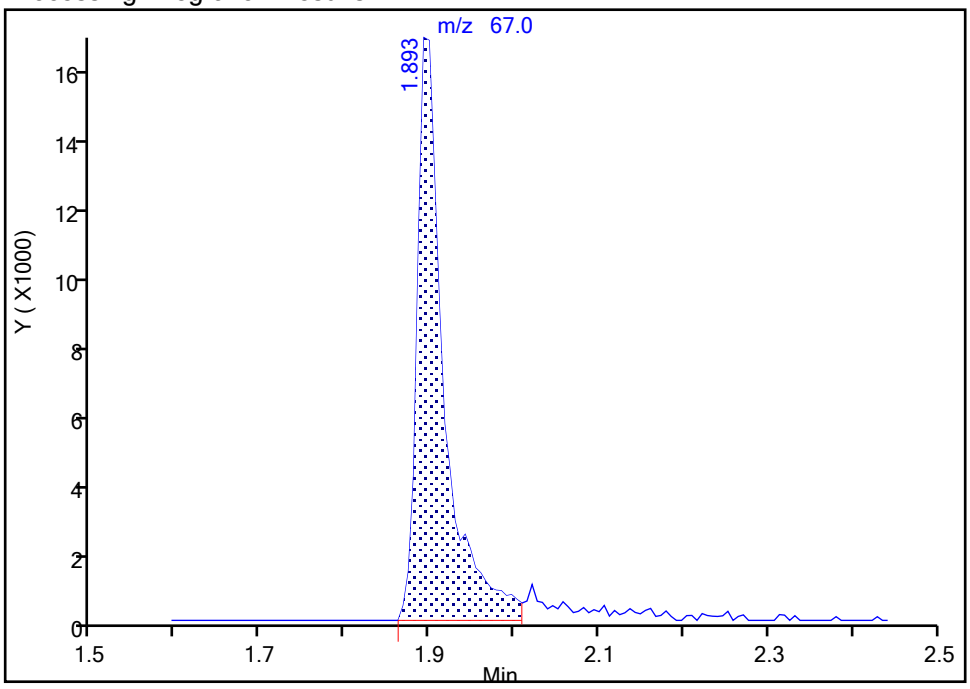
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

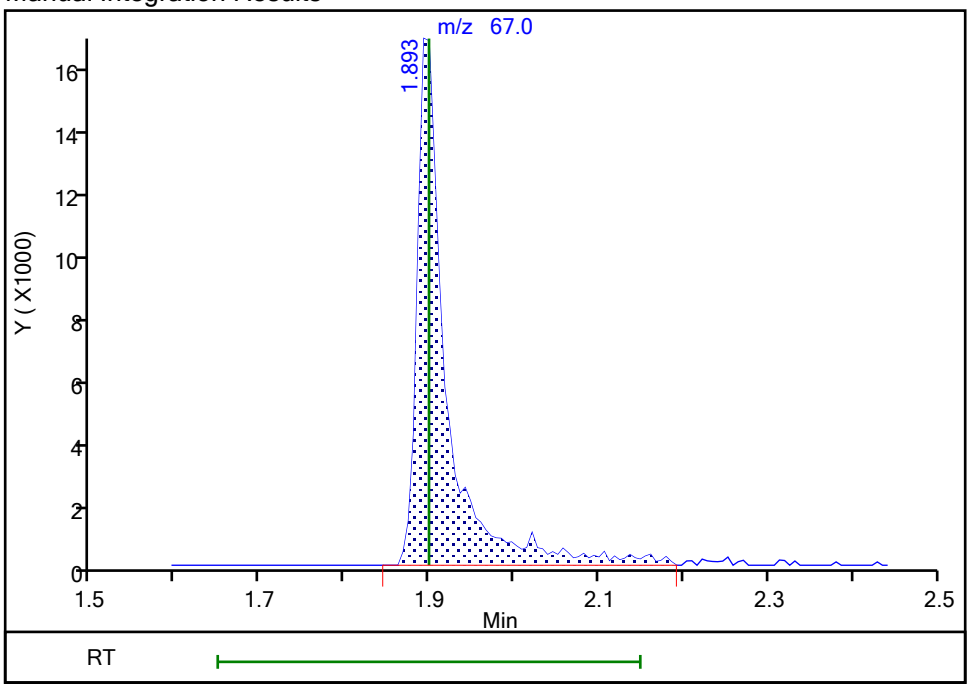
Processing Integration Results

RT: 1.89
Area: 35459
Amount: 9.602049
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 38797
Amount: 11.299722
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

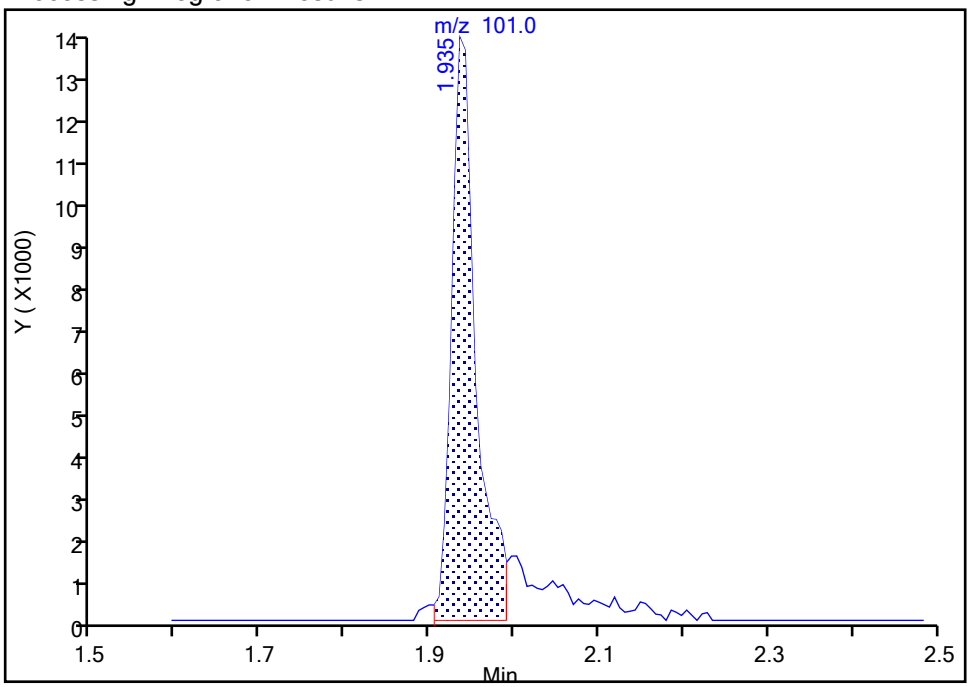
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

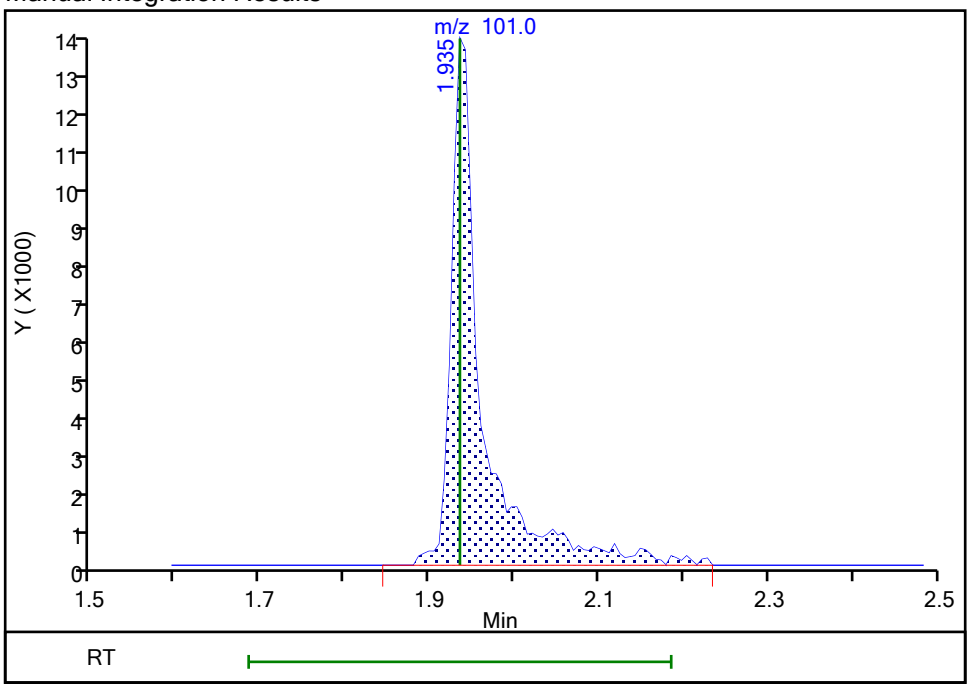
Processing Integration Results

RT: 1.94
Area: 26448
Amount: 9.060342
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 33312
Amount: 11.094860
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

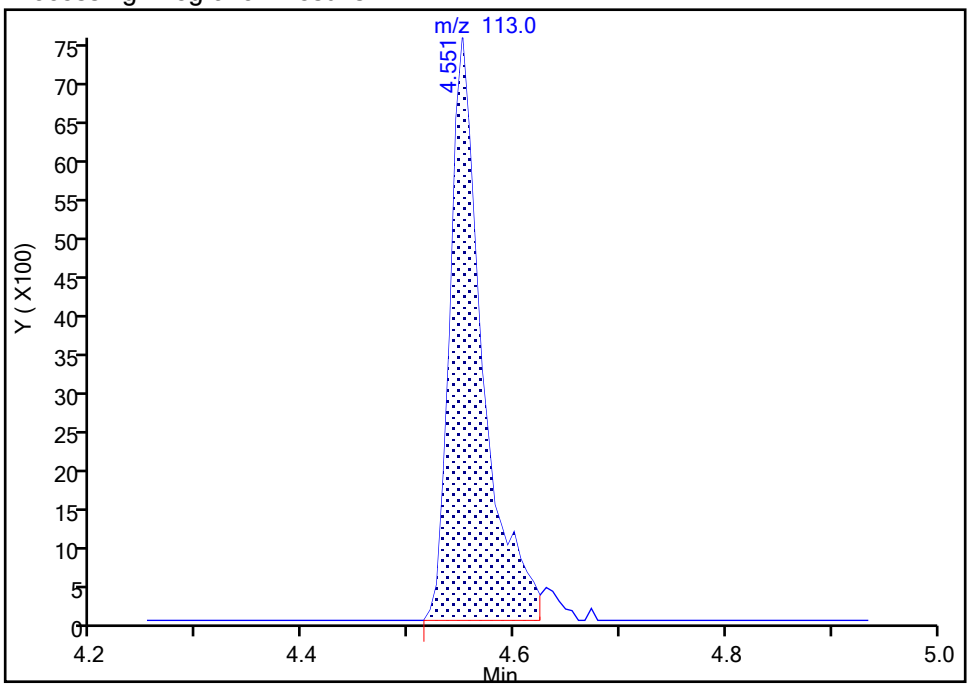
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

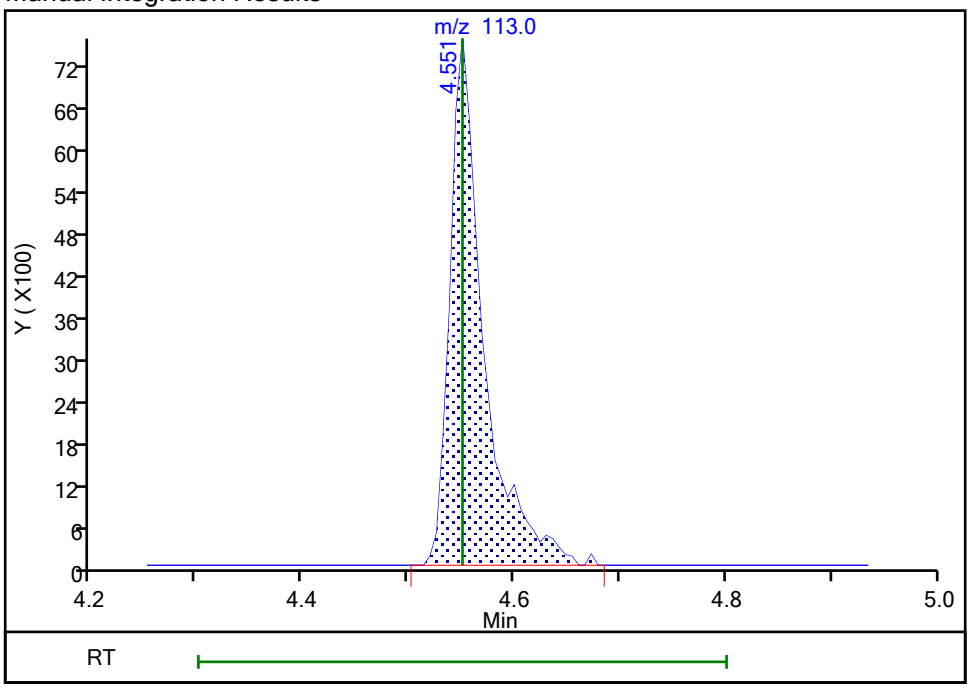
Processing Integration Results

RT: 4.55
Area: 16158
Amount: 47.831449
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 16701
Amount: 50.905144
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

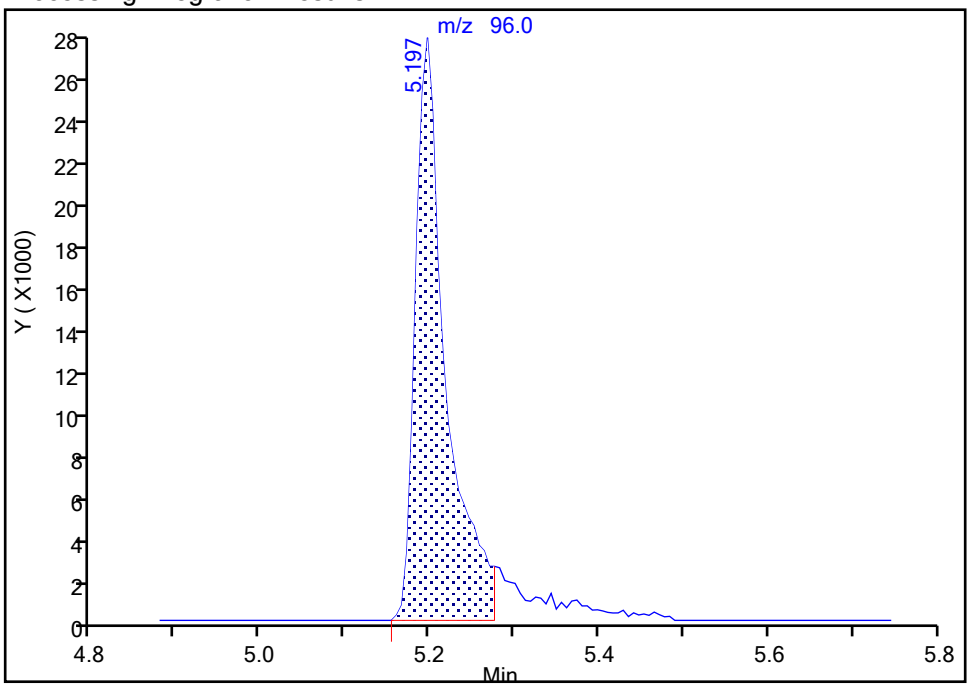
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

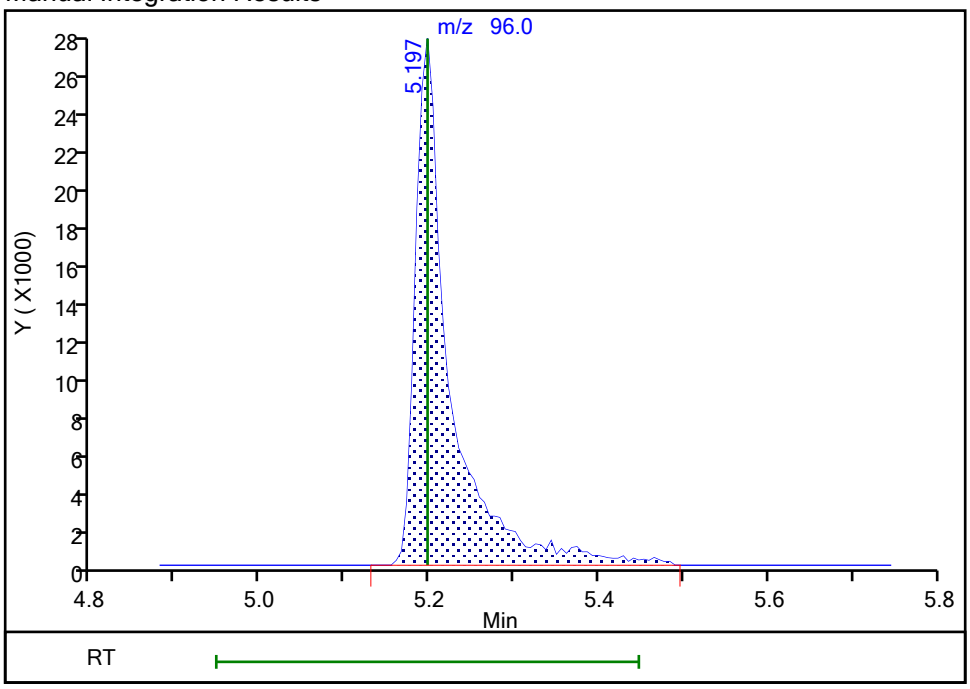
Processing Integration Results

RT: 5.20
Area: 69249
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 78733
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

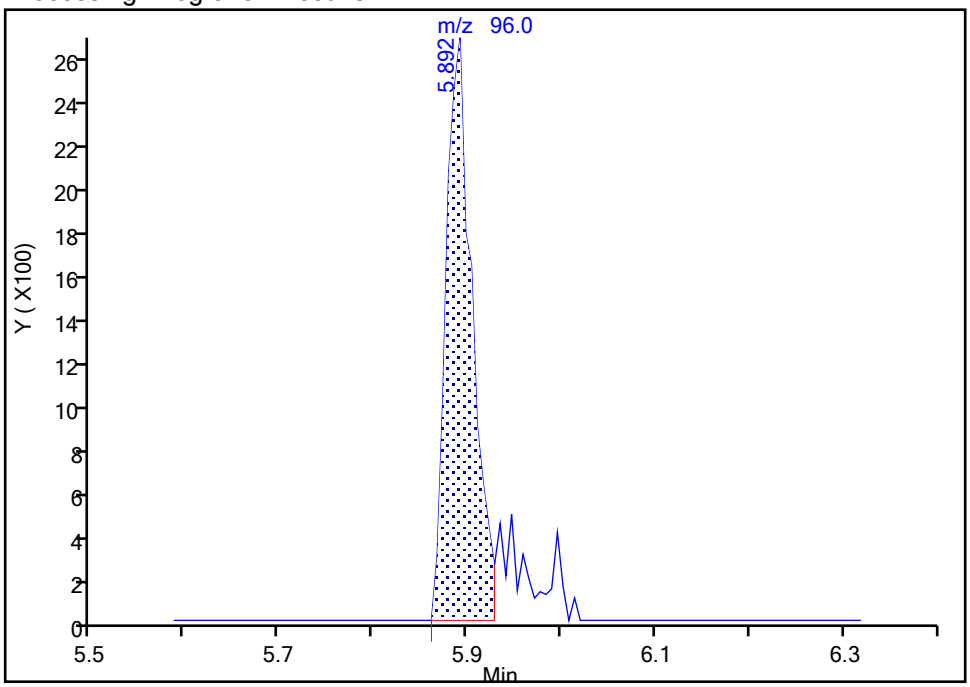
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

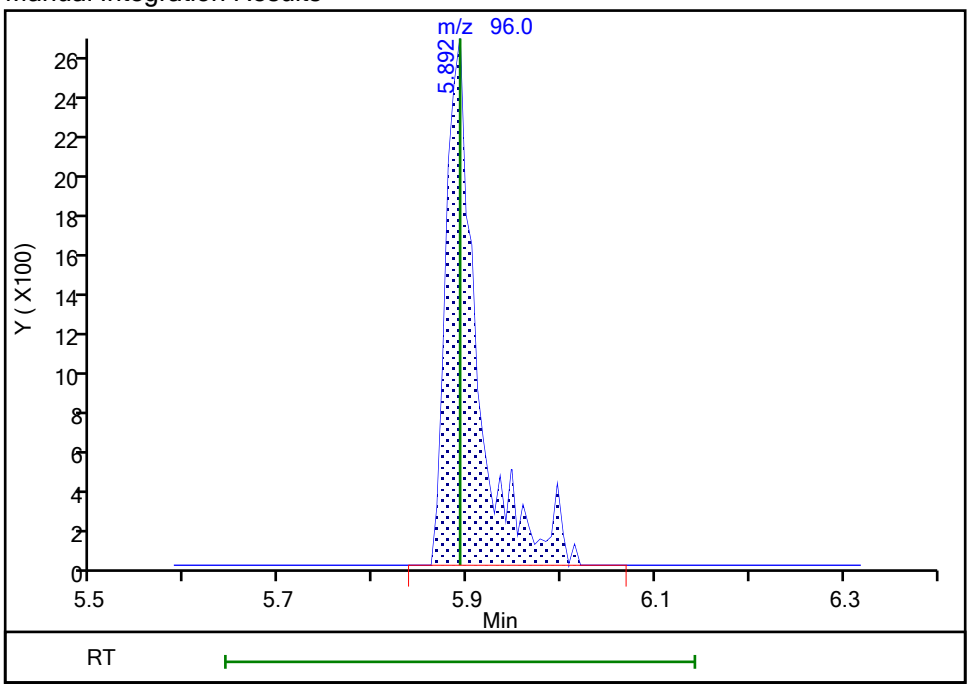
Processing Integration Results

RT: 5.89
Area: 5058
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 6106
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

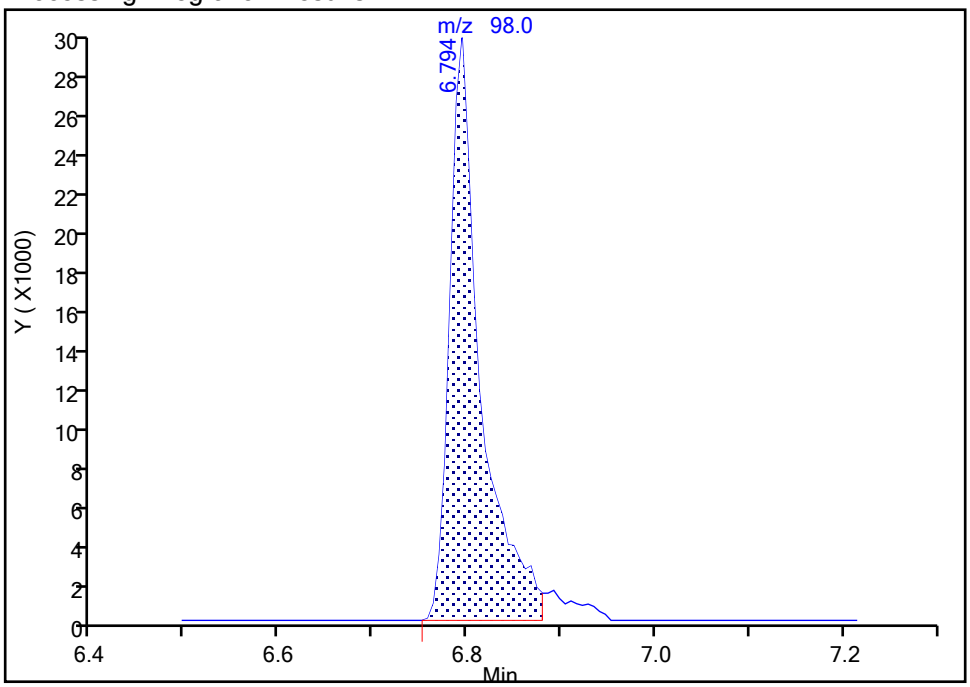
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3750.D
Injection Date: 09-Nov-2020 12:24:30 Instrument ID: Hobbes
Lims ID: std5
Client ID:
Operator ID: ALS Bottle#: 29 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

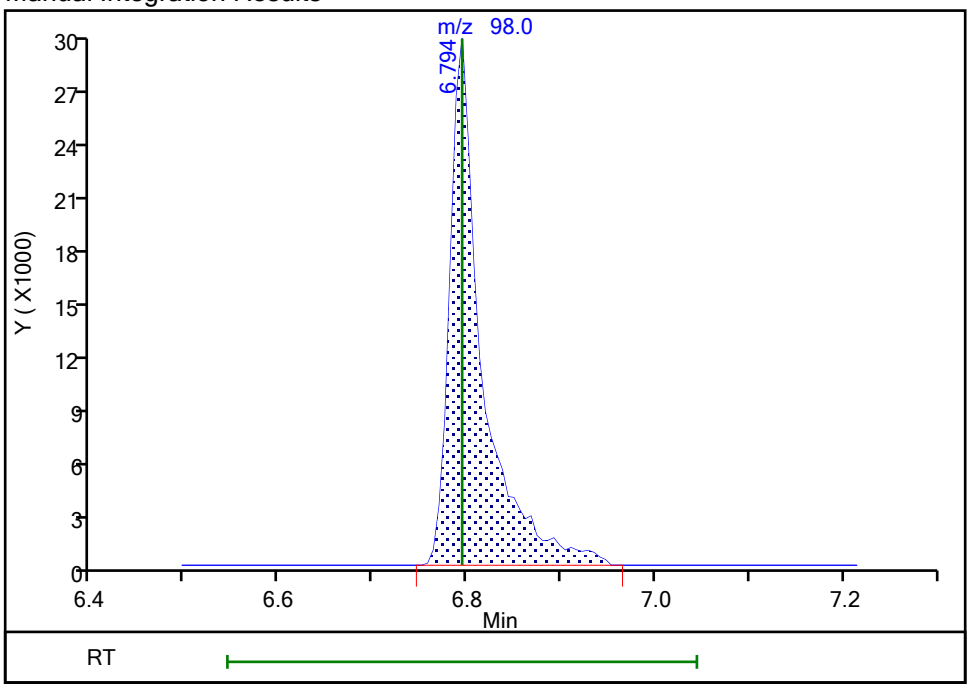
Processing Integration Results

RT: 6.79
Area: 68437
Amount: 49.460665
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 72047
Amount: 50.626162
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:11:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-Nov-2020 12:46:30 ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:45 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:13:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	51989	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	78046	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	86	5515	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.349	-0.006	91	64412	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	96	38050	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	92	16652	50.0	51.2	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	97	72089	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24871	50.0	50.8	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	97	57309	20.0	21.5	
10 Chloromethane	50	1.265	1.265	0.000	99	140458	20.0	19.8	
11 Vinyl chloride	62	1.356	1.350	0.006	97	80137	20.0	20.2	
12 Butadiene	54	1.387	1.387	0.000	95	91376	20.0	20.2	M
13 Bromomethane	94	1.618	1.618	0.000	90	27828	20.0	21.9	M
14 Chloroethane	64	1.710	1.710	0.000	94	36492	20.0	19.7	M
15 Dichlorofluoromethane	67	1.899	1.899	0.000	97	70033	20.0	20.6	M
16 Trichlorofluoromethane	101	1.942	1.935	0.007	98	64708	20.0	21.7	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

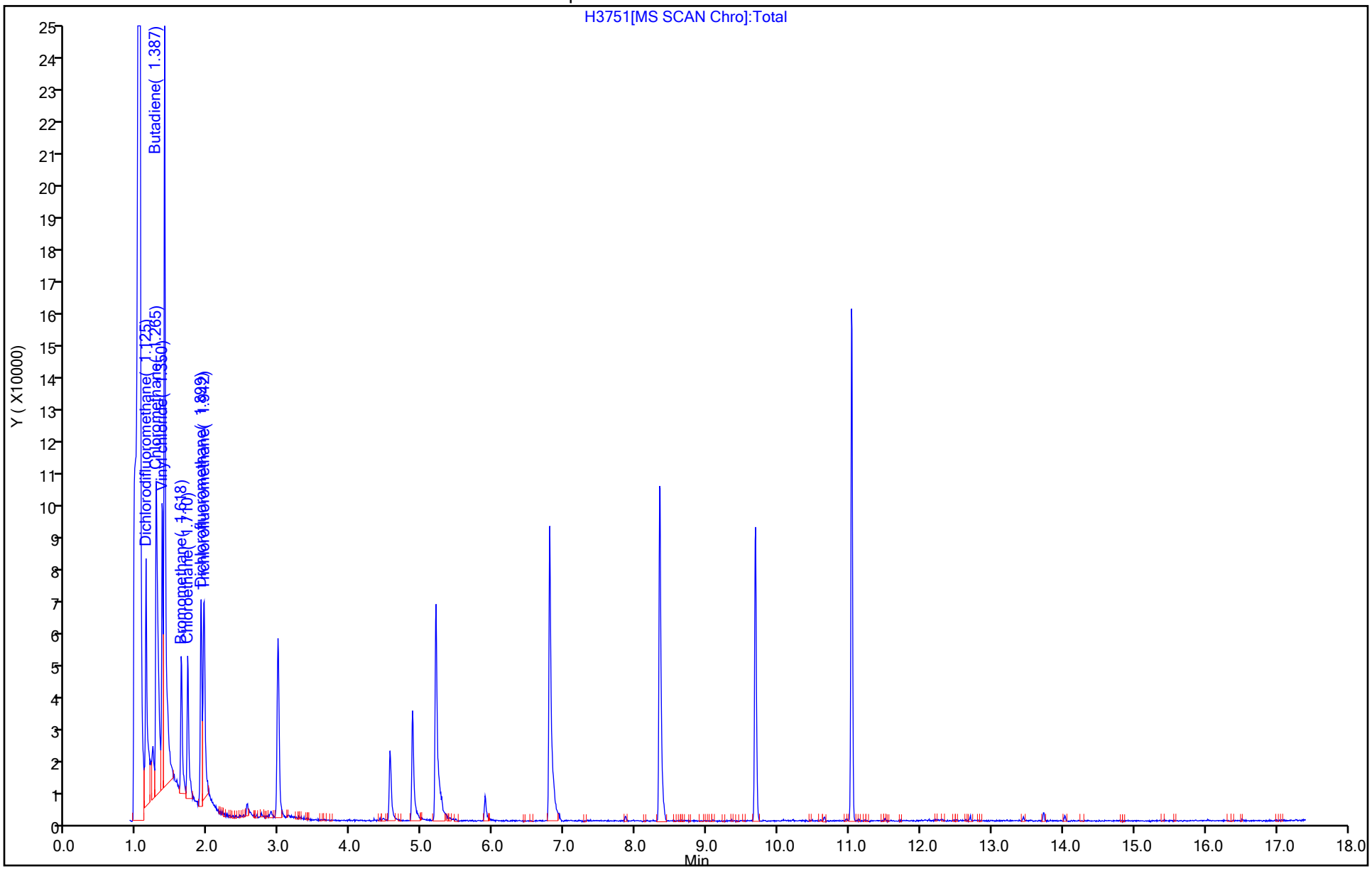
VV_I_GASES_00413 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:46 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D

Injection Date:	09-Nov-2020 12:46:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std6			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

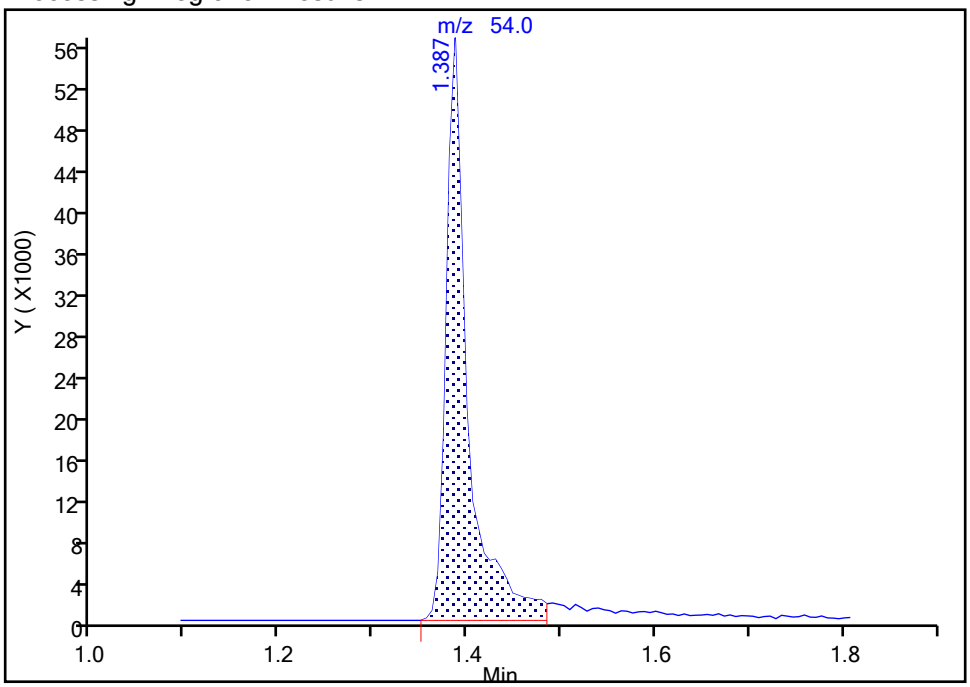
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

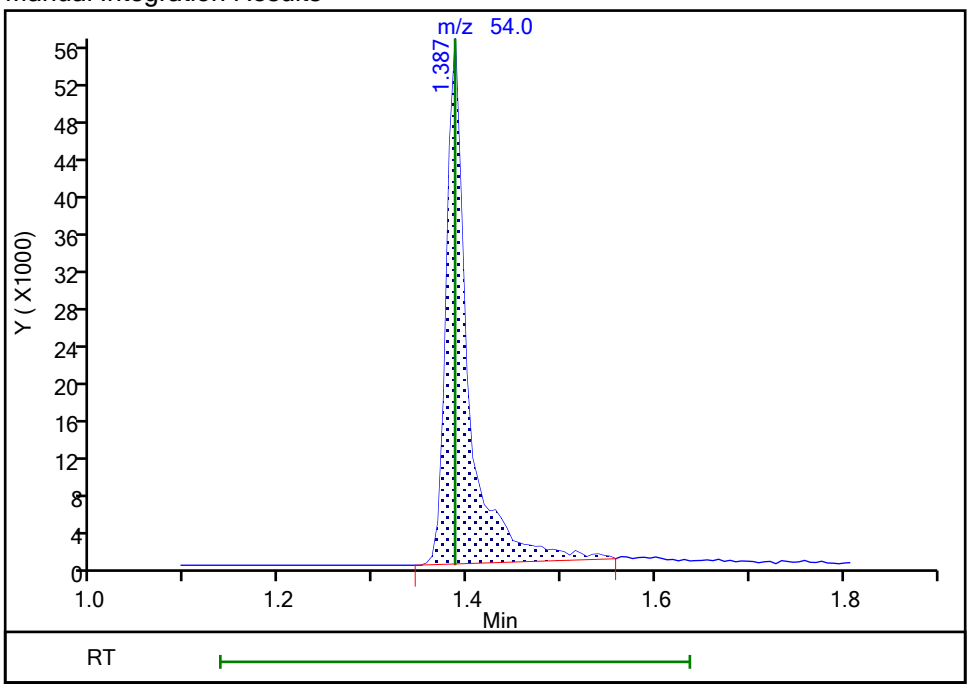
Processing Integration Results

RT: 1.39
Area: 90692
Amount: 20.615609
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 91376
Amount: 20.222346
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

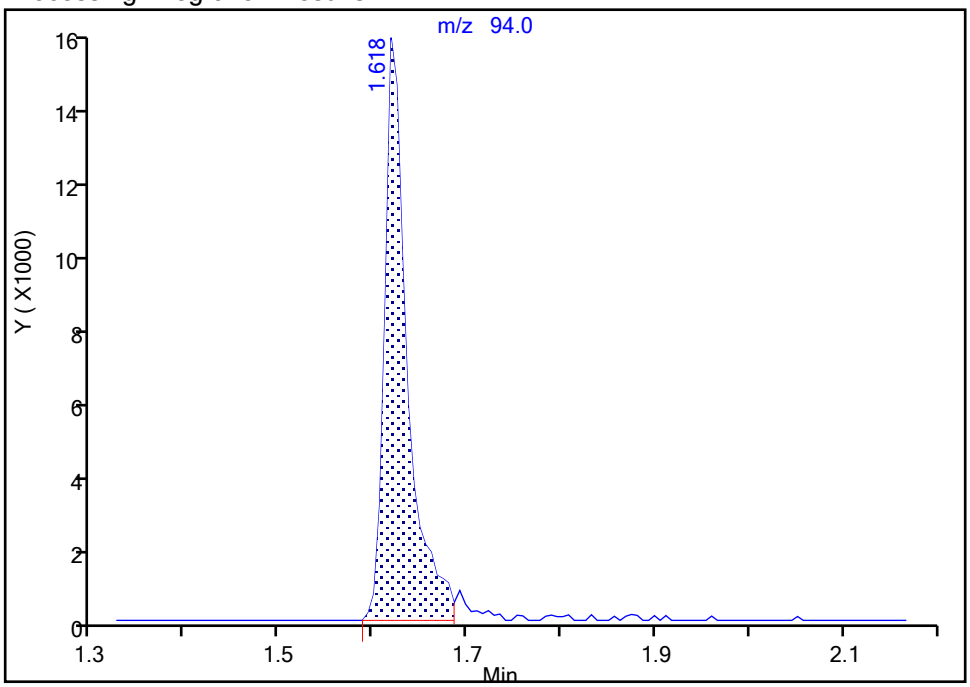
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

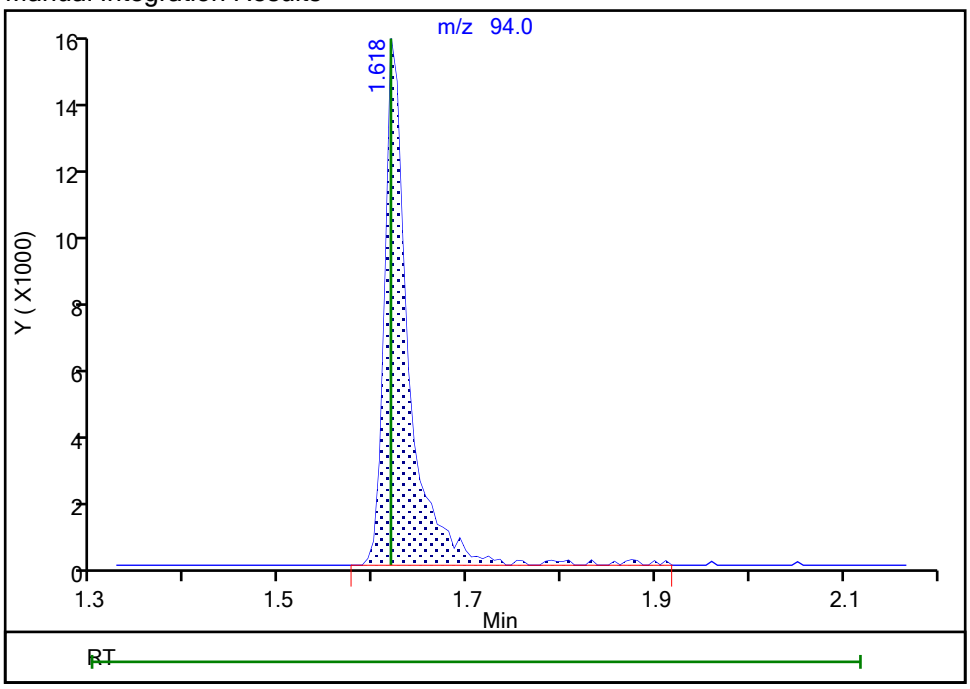
Processing Integration Results

RT: 1.62
Area: 26270
Amount: 22.467906
Amount Units: ug/l



Manual Integration Results

RT: 1.62
Area: 27828
Amount: 21.903725
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

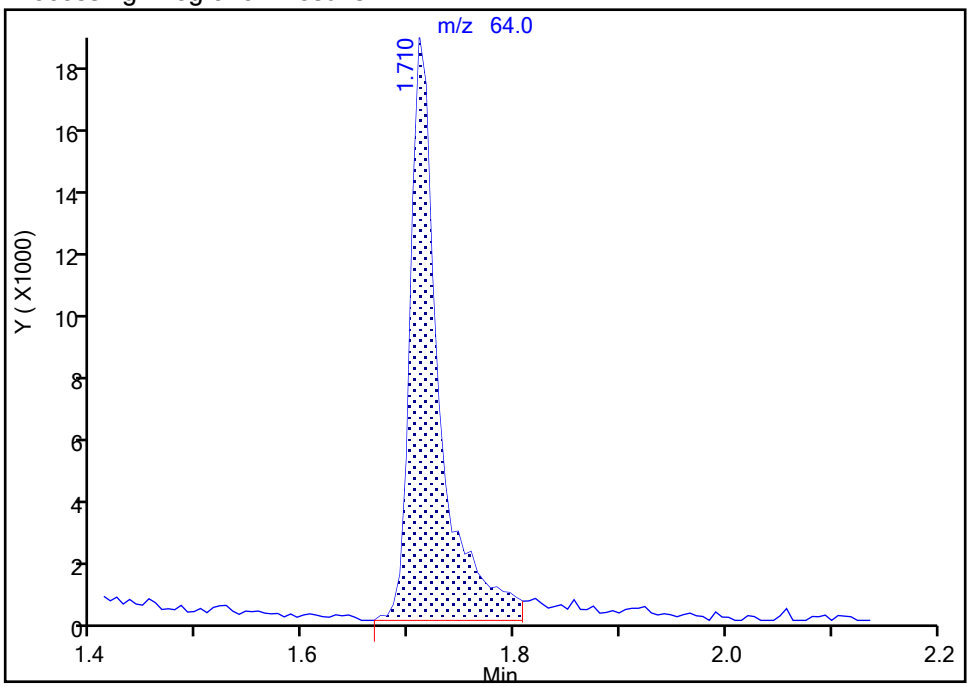
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

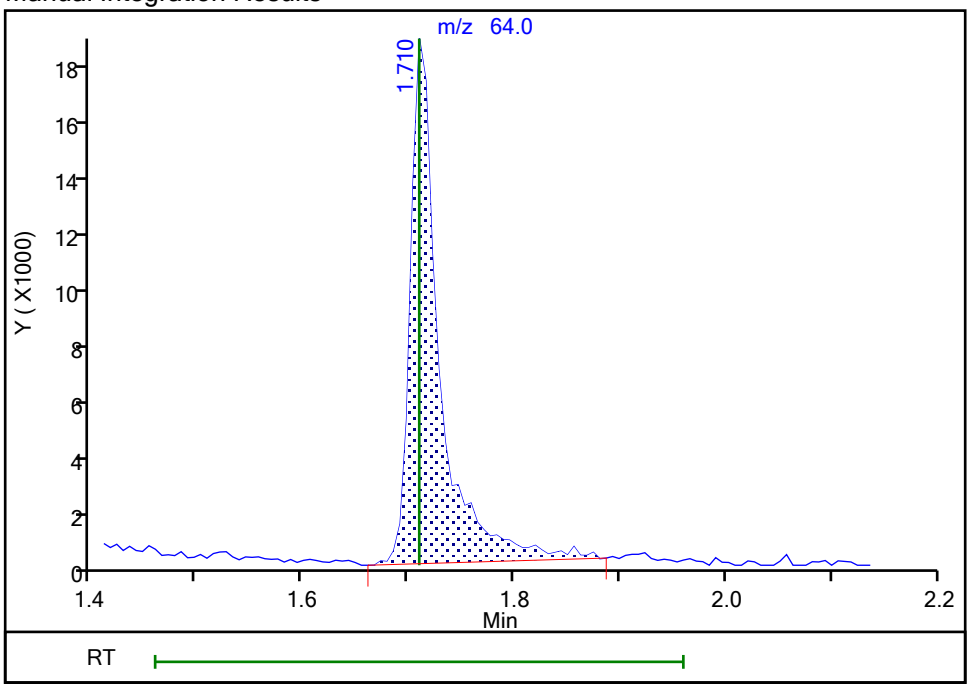
Processing Integration Results

RT: 1.71
Area: 36106
Amount: 20.365379
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 36492
Amount: 19.726242
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

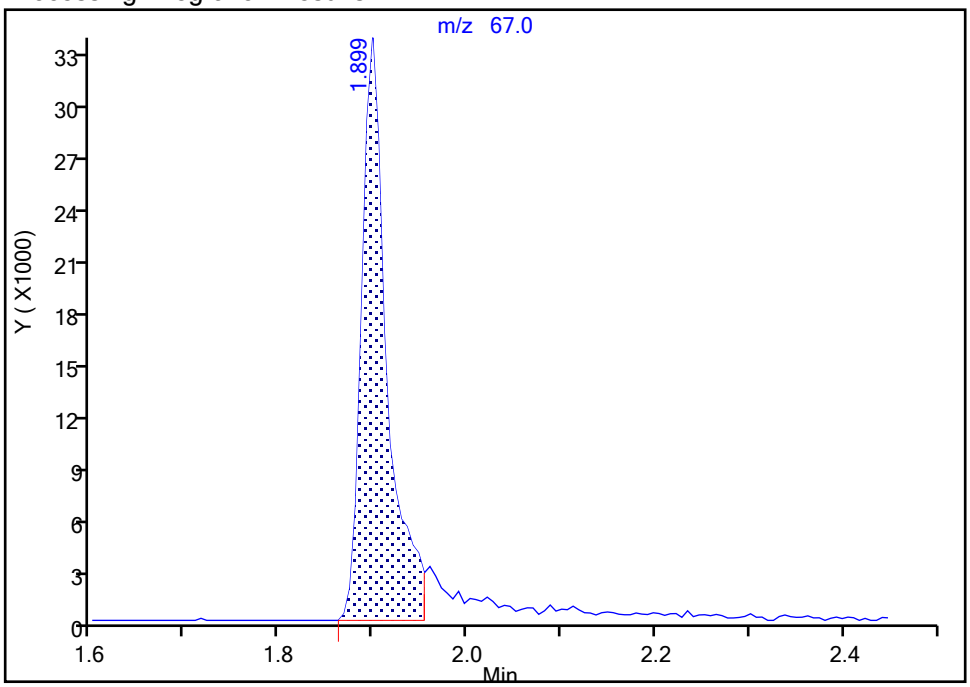
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

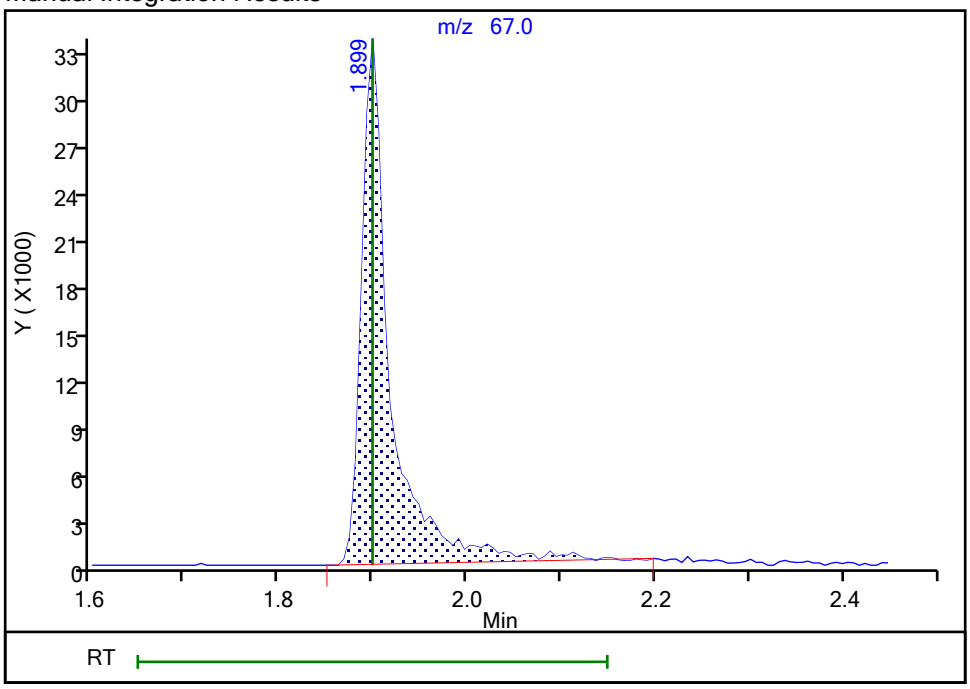
Processing Integration Results

RT: 1.90
Area: 62328
Amount: 19.108963
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 70033
Amount: 20.576831
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

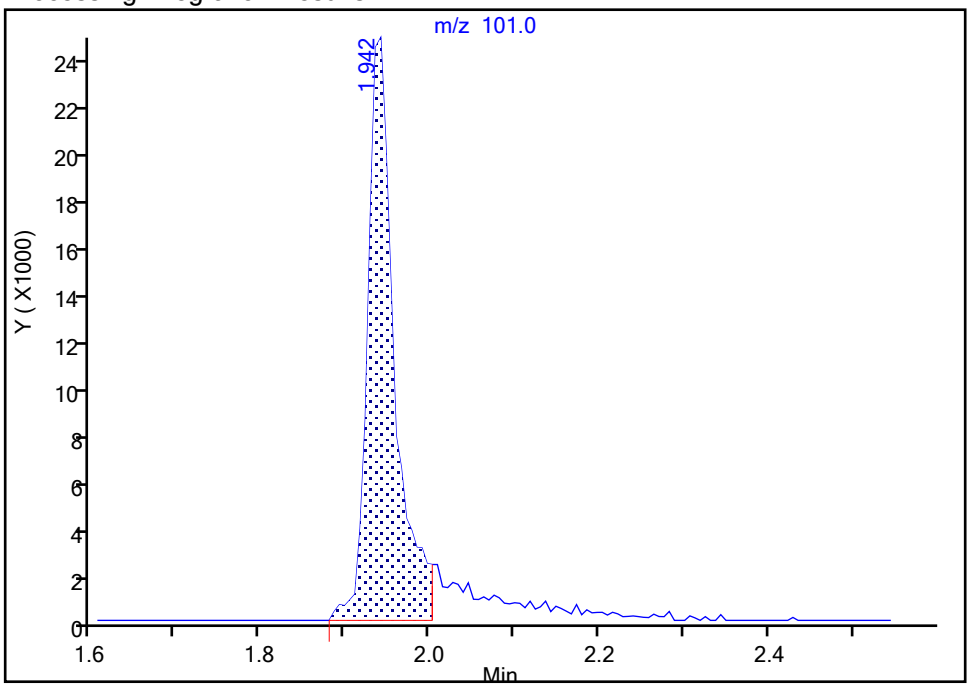
Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D				
Injection Date:	09-Nov-2020 12:46:30	Instrument ID:	Hobbes		
Lims ID:	std6				
Client ID:					
Operator ID:		ALS Bottle#:	1	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

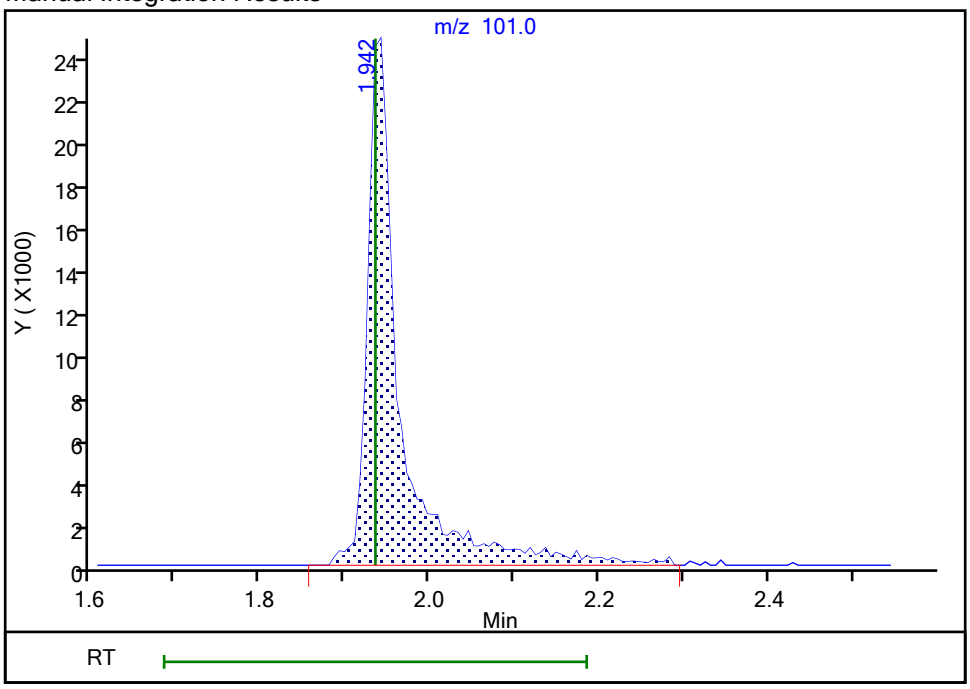
Processing Integration Results

RT: 1.94
Area: 53879
Amount: 20.649954
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 64708
Amount: 21.741287
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:22

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

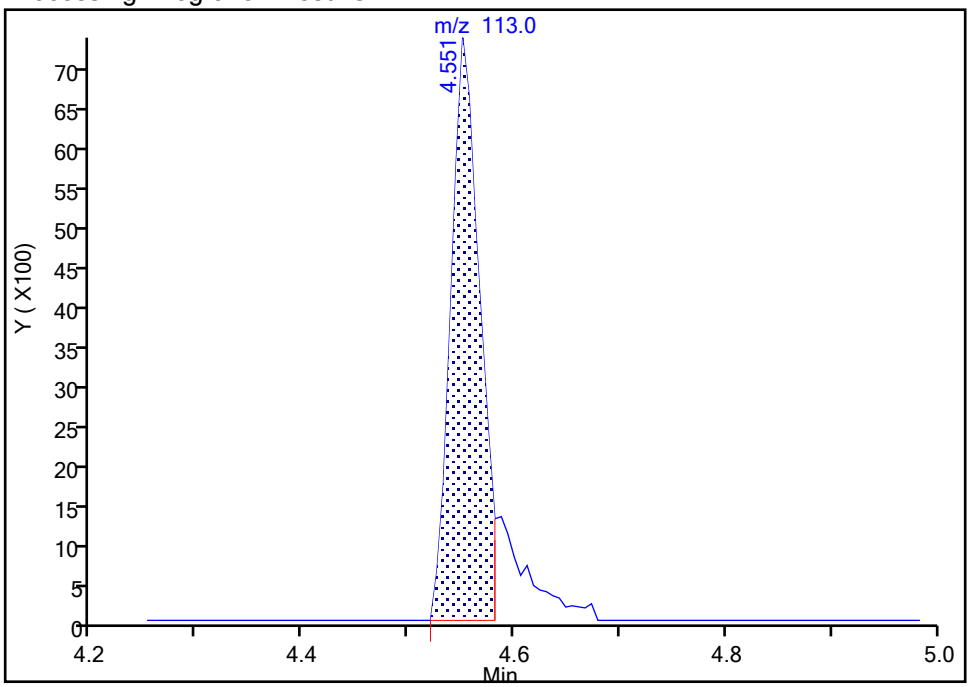
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

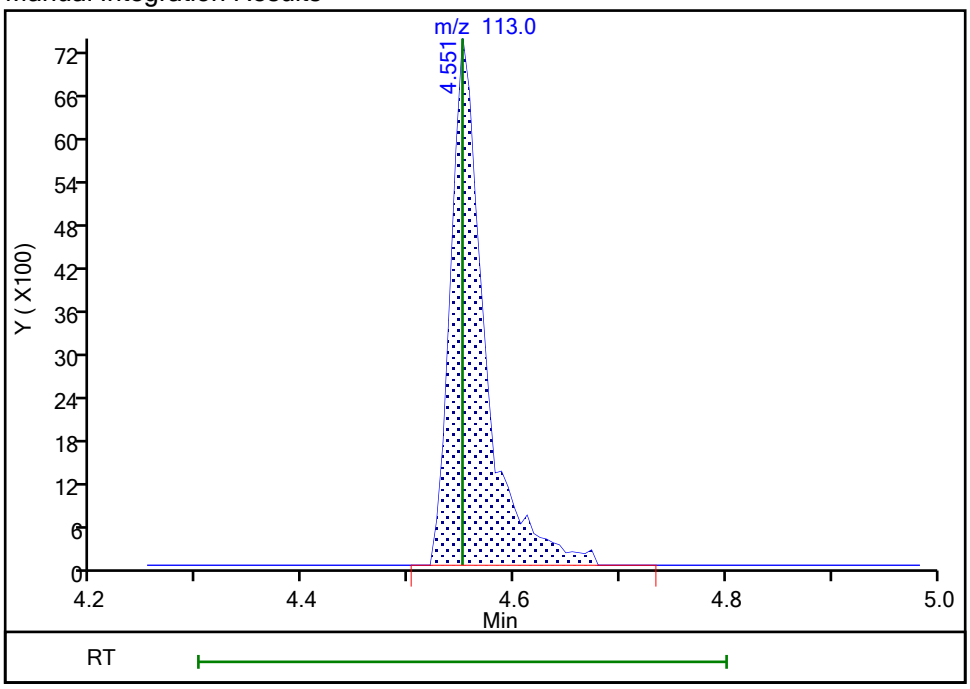
Processing Integration Results

RT: 4.55
Area: 14030
Amount: 47.249502
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 16652
Amount: 51.202568
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

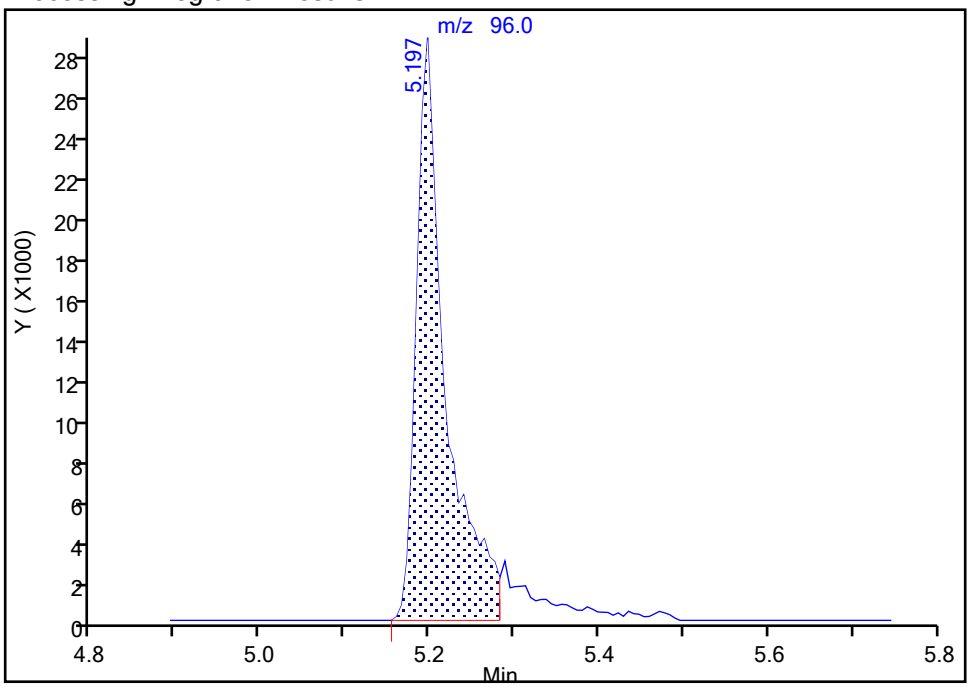
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

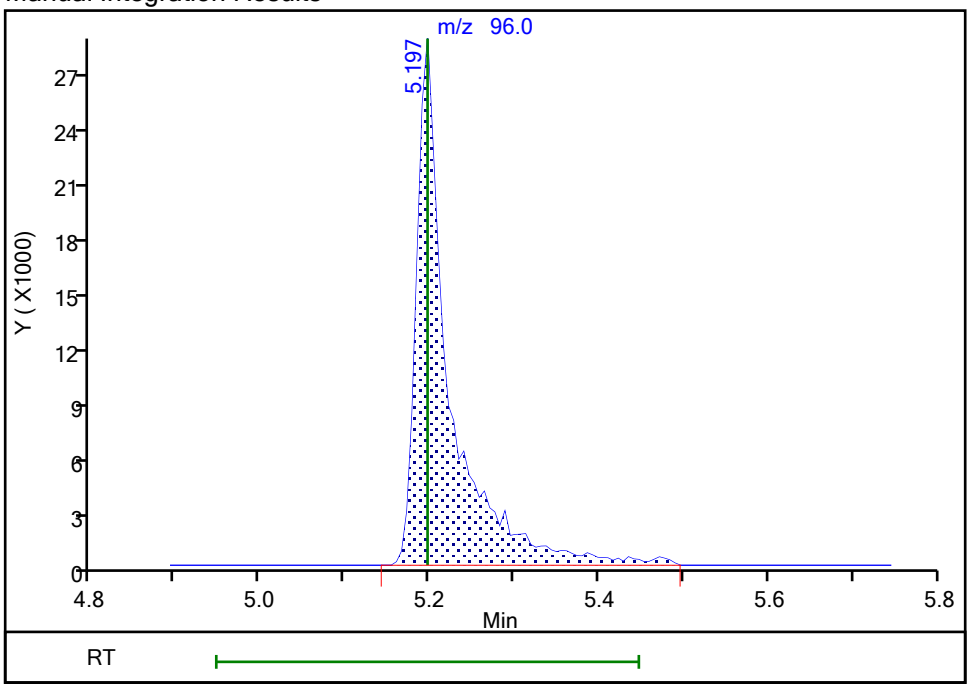
Processing Integration Results

RT: 5.20
Area: 69021
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 78046
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

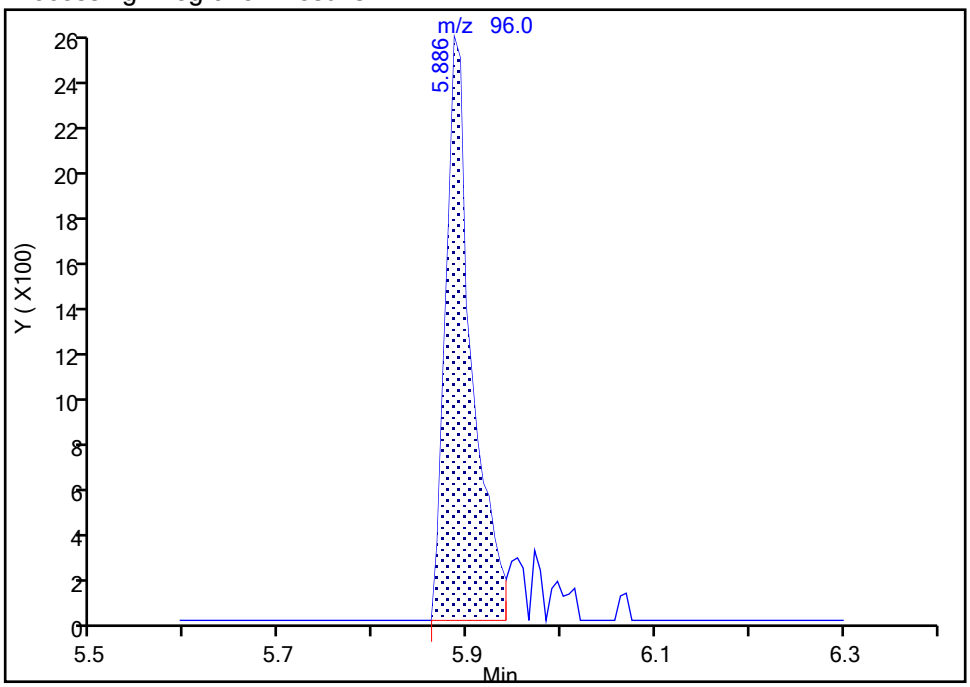
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3751.D
Injection Date: 09-Nov-2020 12:46:30 Instrument ID: Hobbes
Lims ID: std6
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

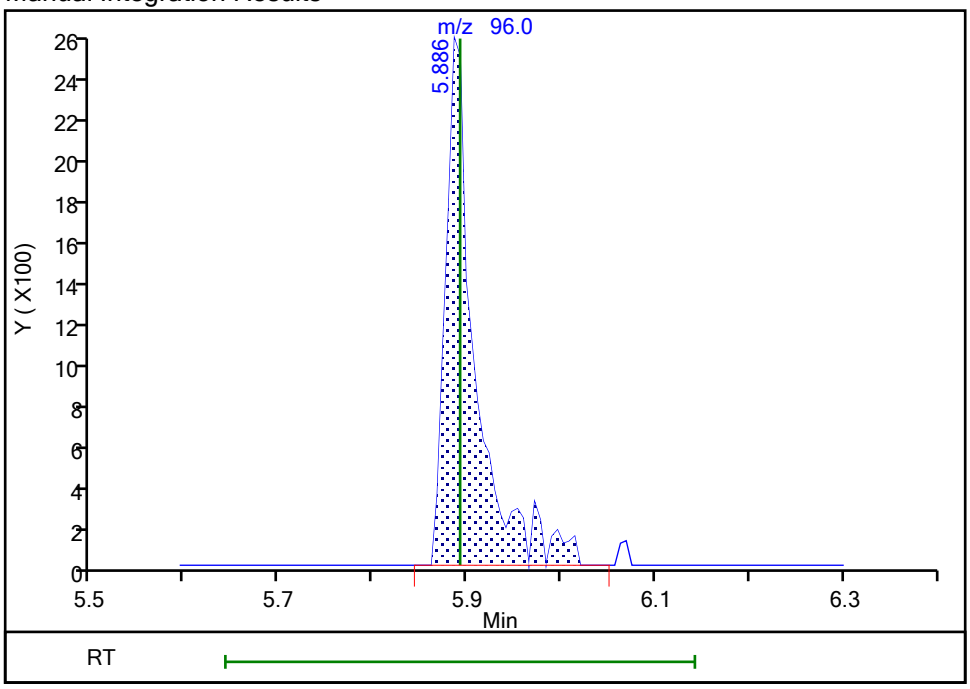
Processing Integration Results

RT: 5.89
Area: 4811
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5515
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:12:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-Nov-2020 13:08:30 ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:49 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:13:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	53810	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.197	-0.006	98	77843	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	85	5887	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.349	-0.012	91	64605	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.037	-0.006	96	37880	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.545	4.551	-0.006	90	16092	50.0	49.6	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	73389	50.0	50.5	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24491	50.0	50.2	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	98	140932	50.0	53.1	
10 Chloromethane	50	1.265	1.265	0.000	99	359040	50.0	50.8	
11 Vinyl chloride	62	1.350	1.350	0.000	97	197589	50.0	49.9	
12 Butadiene	54	1.381	1.387	-0.006	95	238516	50.0	52.9	M
13 Bromomethane	94	1.618	1.618	0.000	92	69273	50.0	54.7	
14 Chloroethane	64	1.710	1.710	0.000	94	89201	50.0	48.3	
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	97	178757	50.0	52.7	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	98	150896	50.0	50.8	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

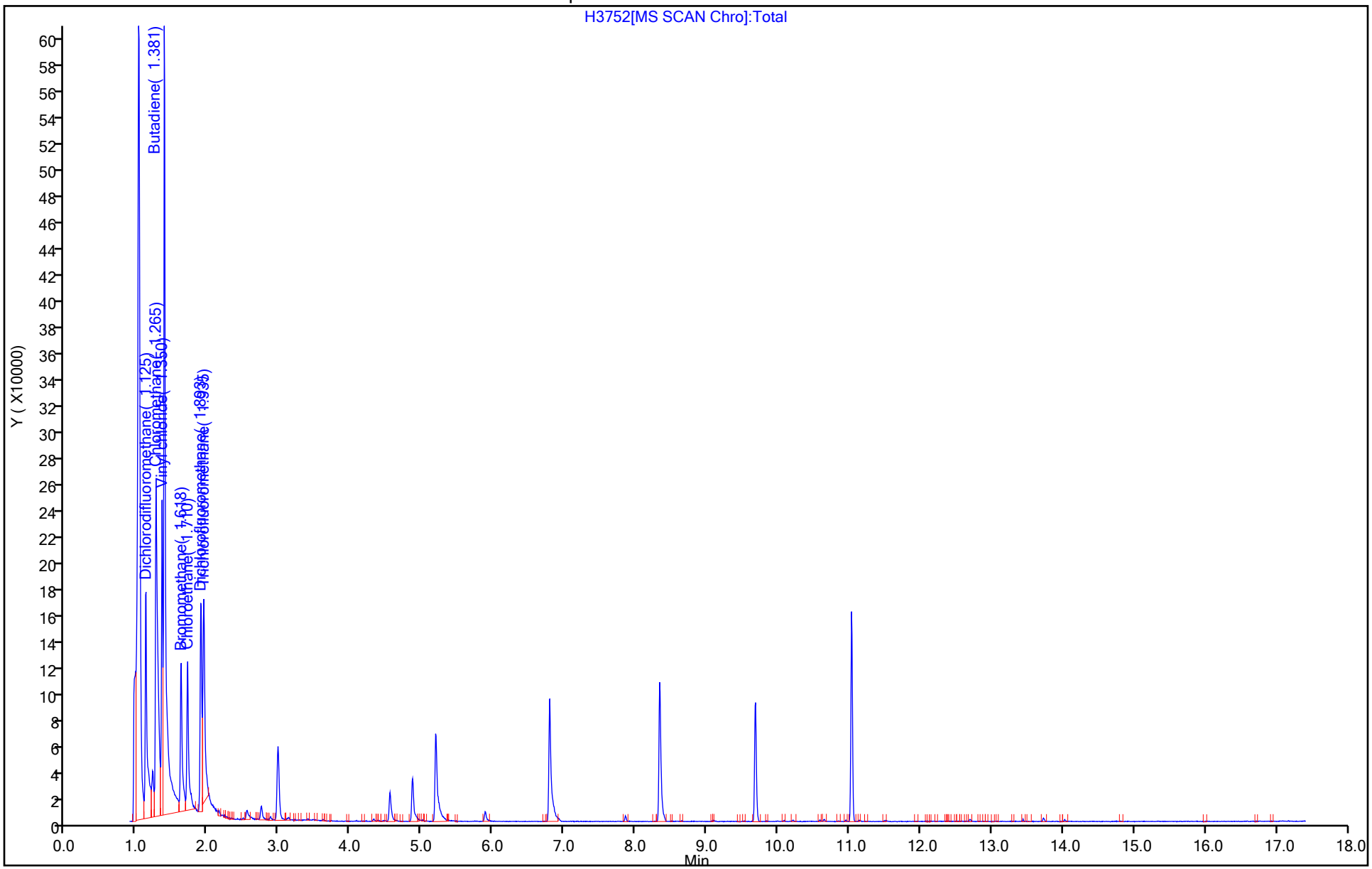
VV_I_GASES_00413 Amount Added: 50.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:50 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D

Injection Date:	09-Nov-2020 13:08:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std7			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

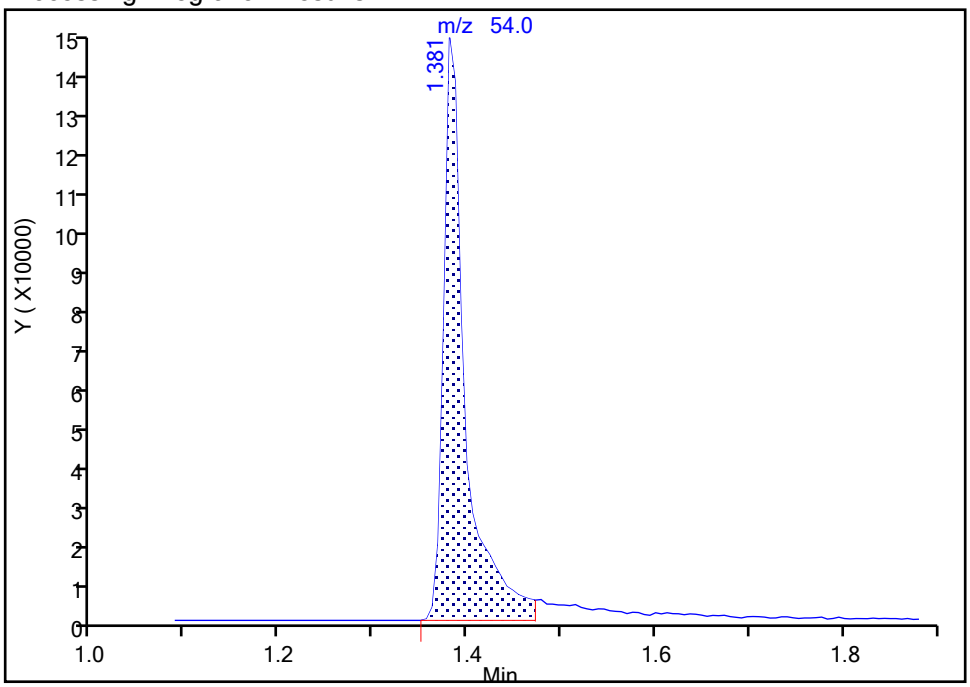
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

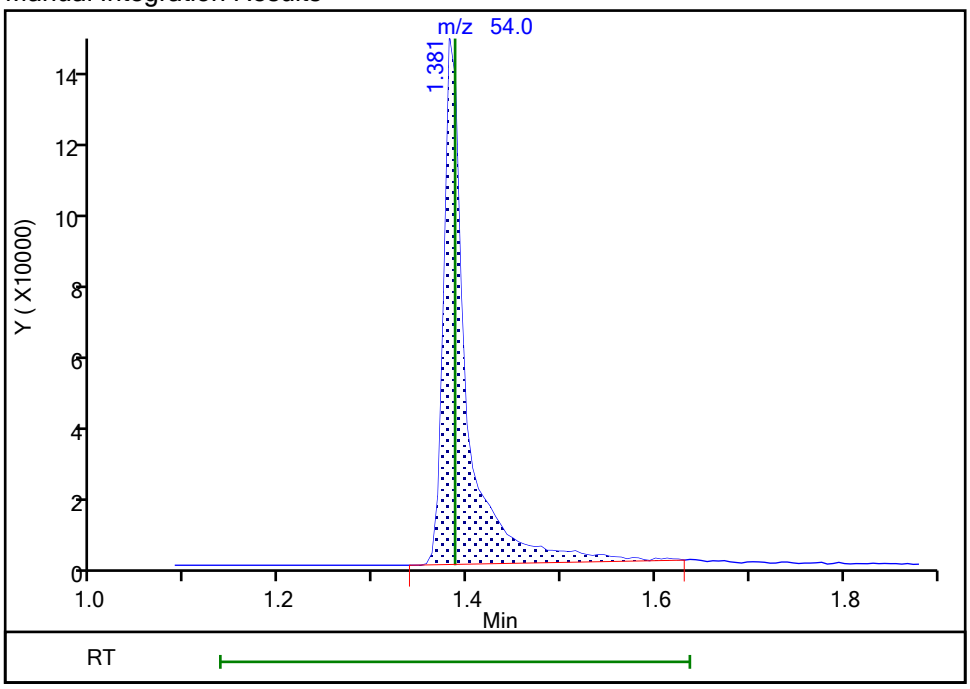
Processing Integration Results

RT: 1.38
Area: 226506
Amount: 46.789050
Amount Units: ug/l



Manual Integration Results

RT: 1.38
Area: 238516
Amount: 52.923431
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

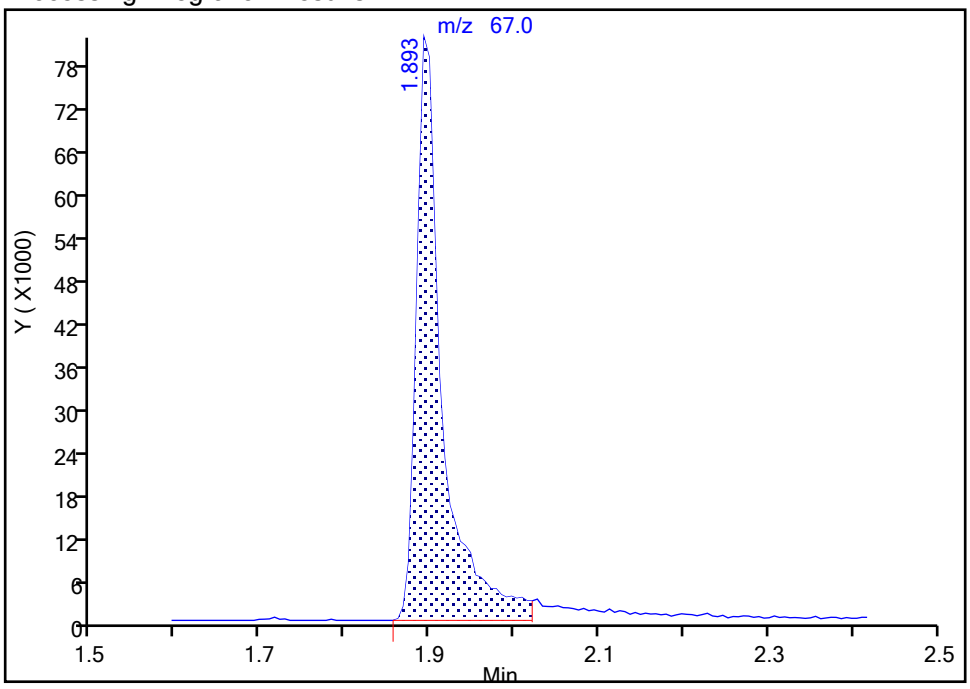
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

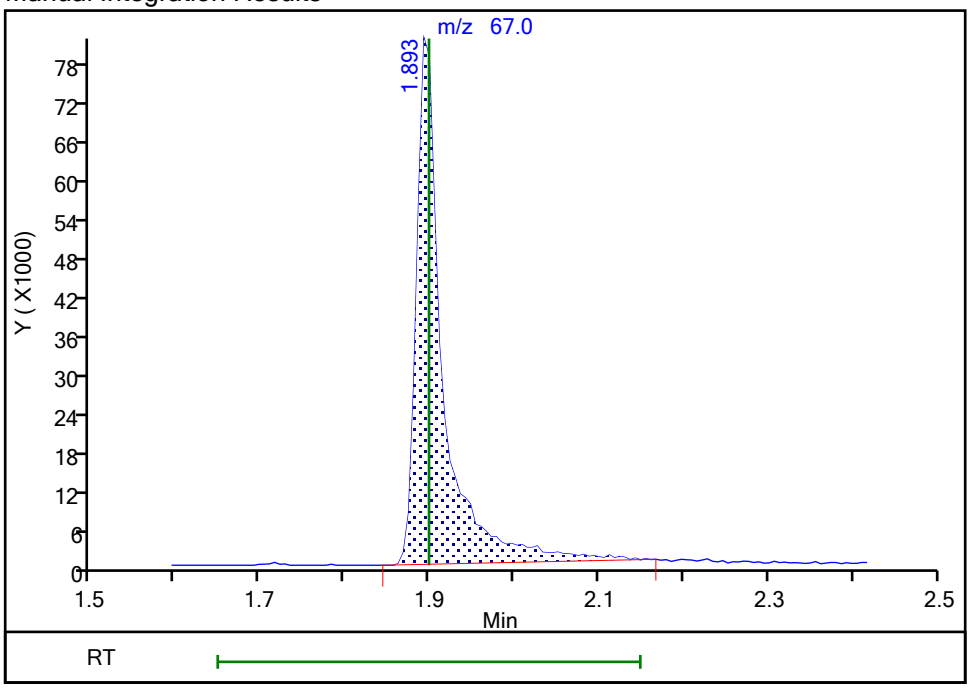
Processing Integration Results

RT: 1.89
Area: 174944
Amount: 48.332604
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 178757
Amount: 52.658671
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

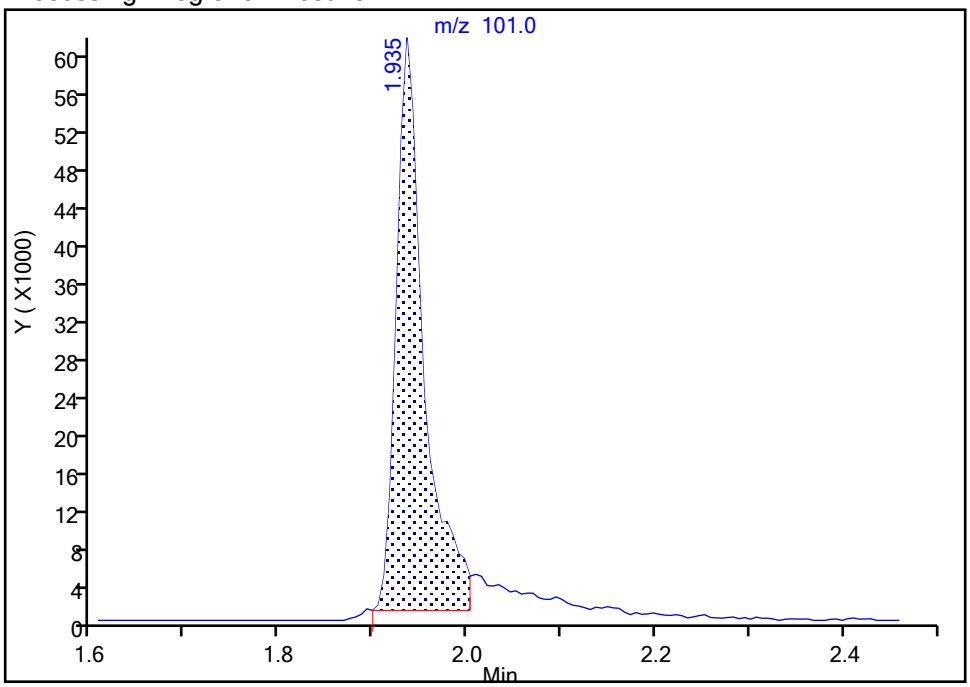
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

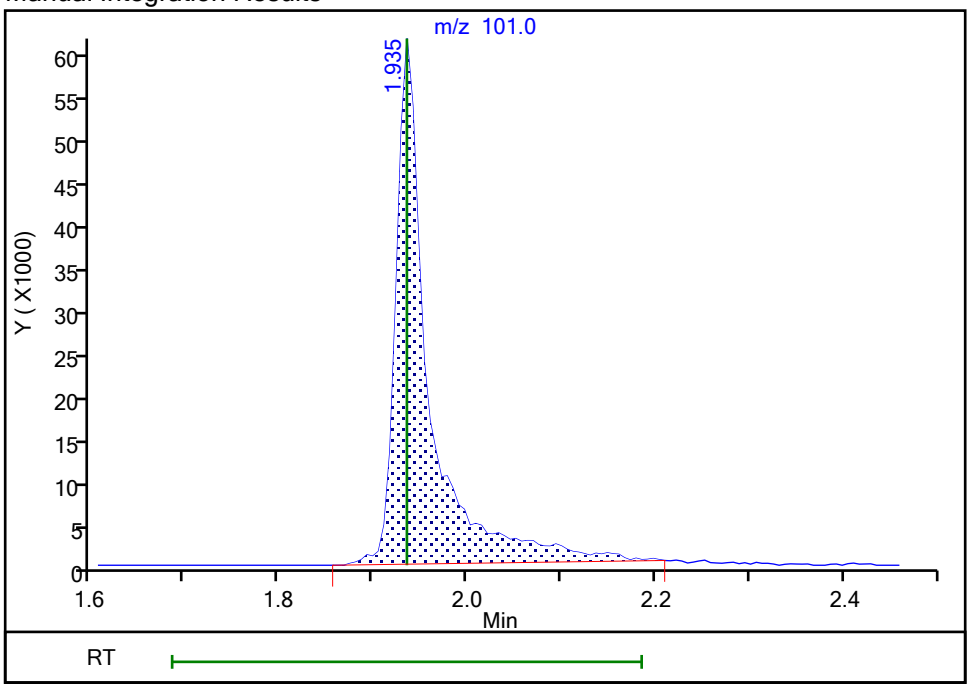
Processing Integration Results

RT: 1.94
Area: 123575
Amount: 42.349424
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 150896
Amount: 50.831871
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

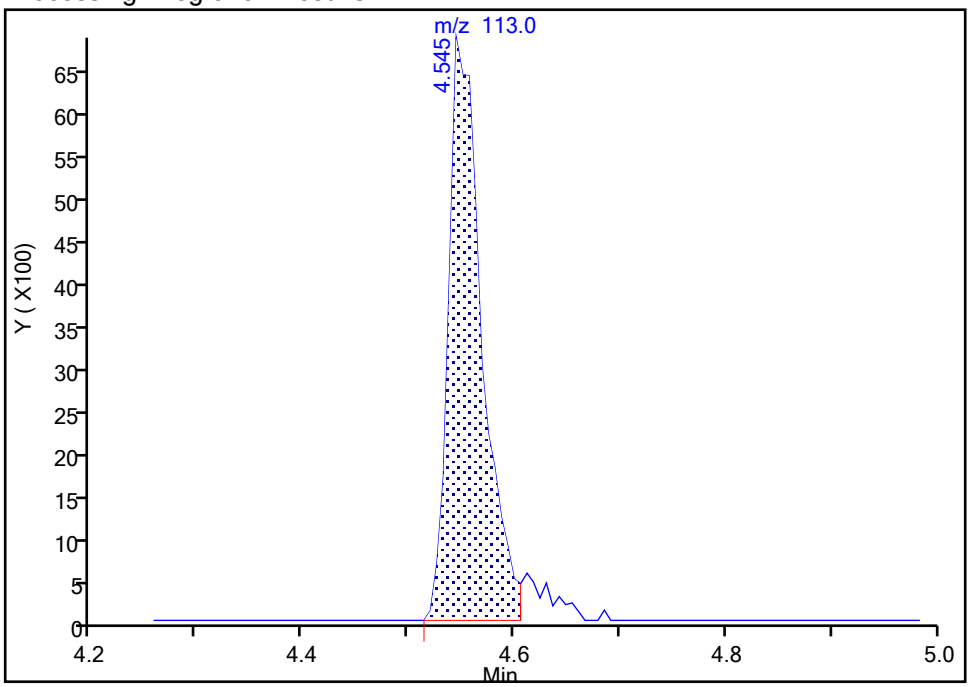
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

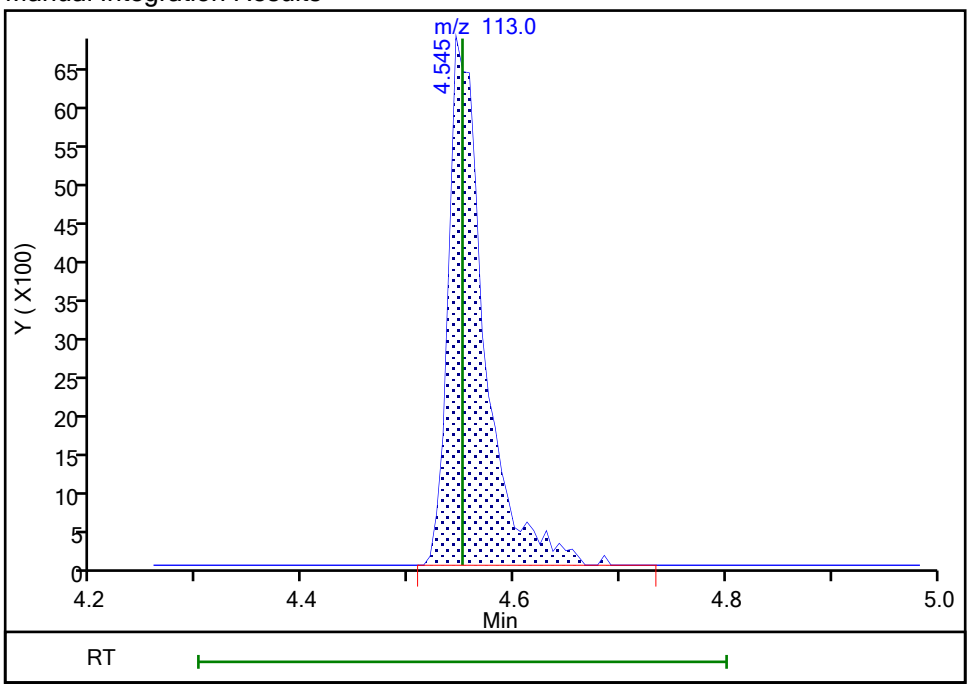
Processing Integration Results

RT: 4.54
Area: 15080
Amount: 45.522131
Amount Units: ug/l



Manual Integration Results

RT: 4.54
Area: 16092
Amount: 49.609683
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

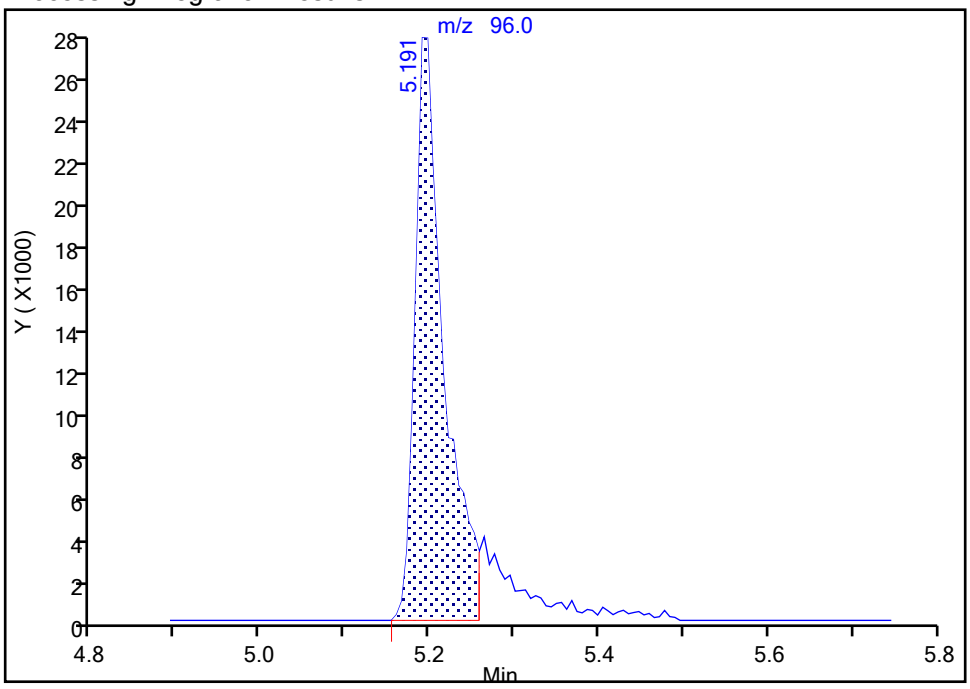
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

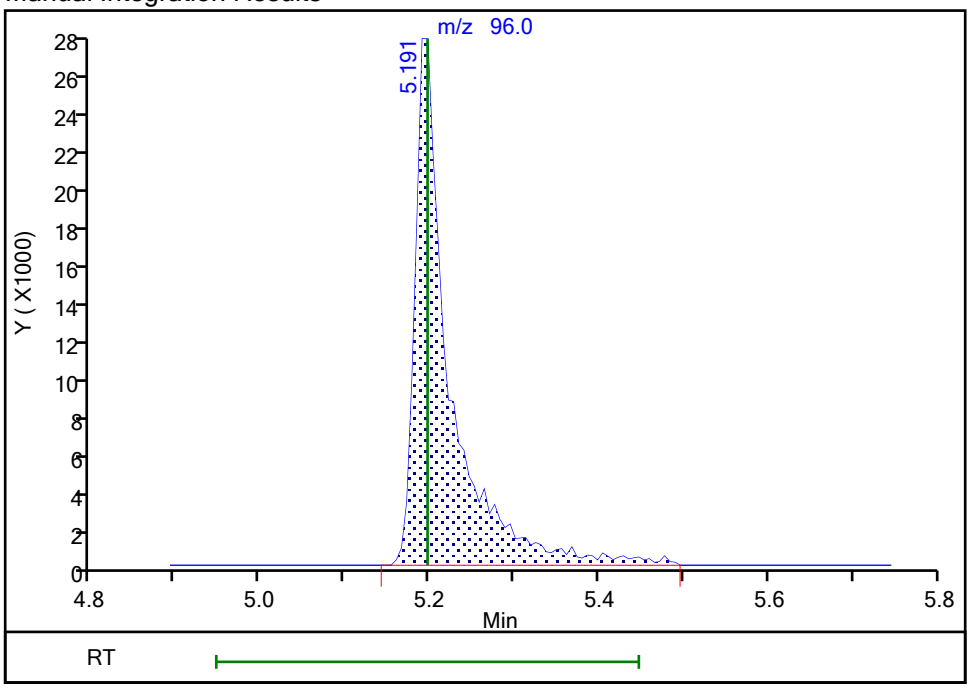
Processing Integration Results

RT: 5.19
Area: 65080
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 77843
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

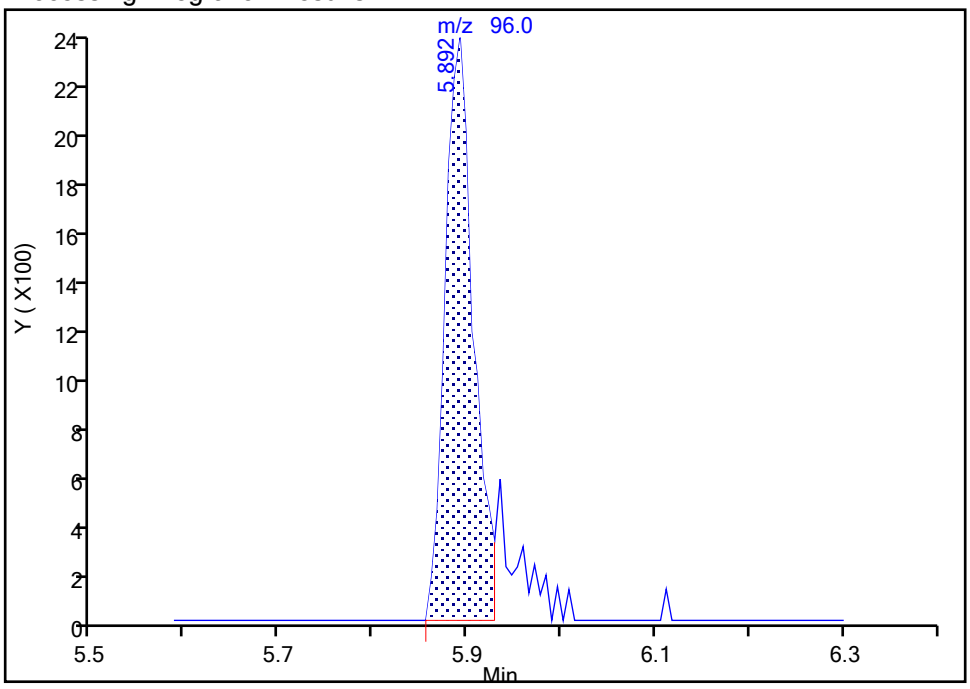
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

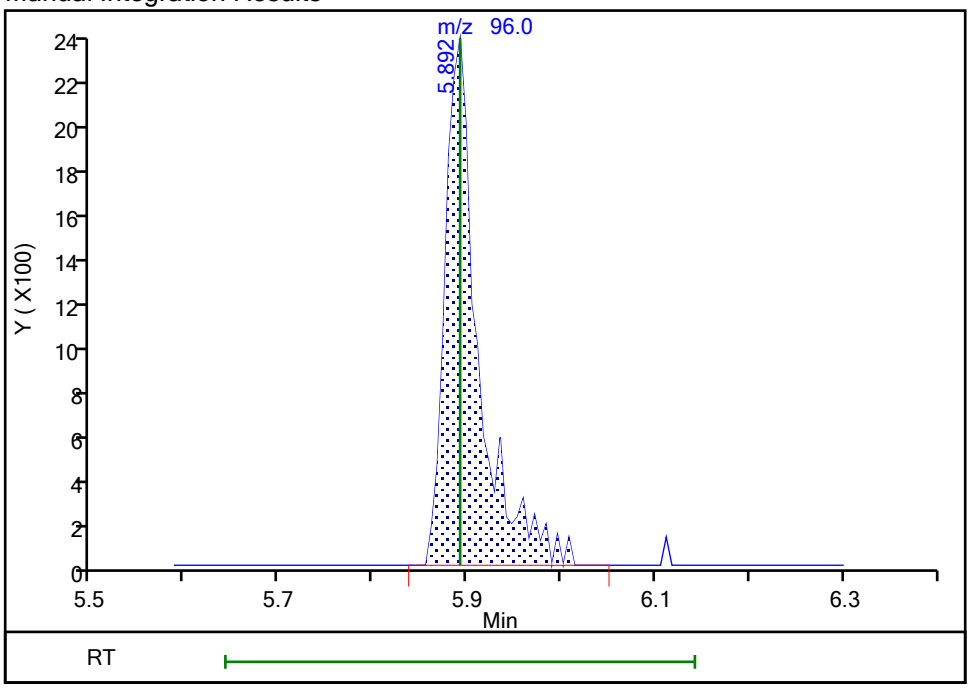
Processing Integration Results

RT: 5.89
Area: 5009
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5887
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

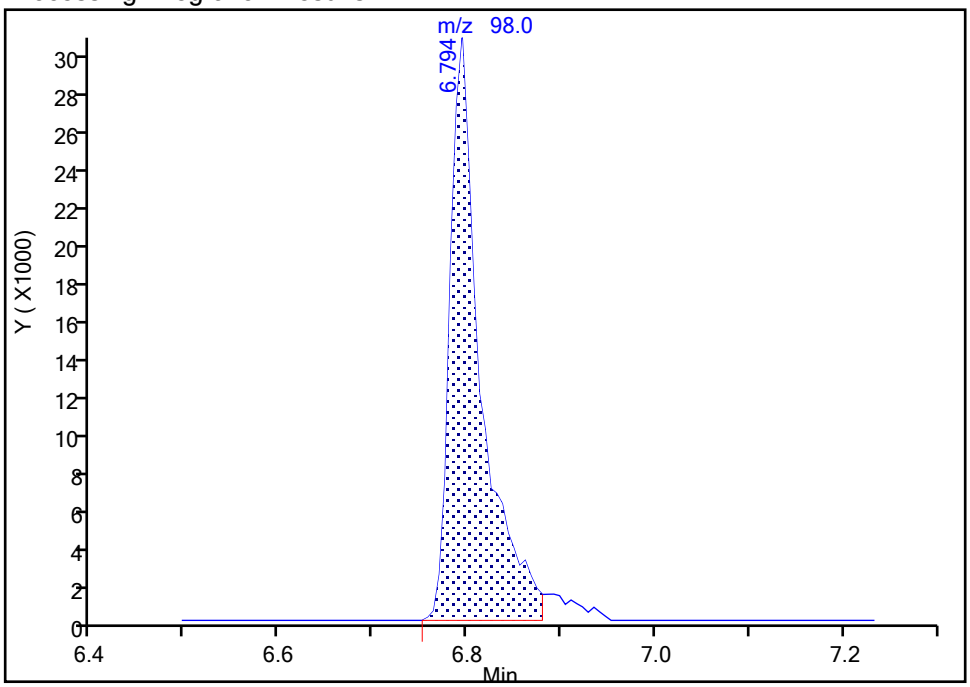
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3752.D
Injection Date: 09-Nov-2020 13:08:30 Instrument ID: Hobbes
Lims ID: std7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

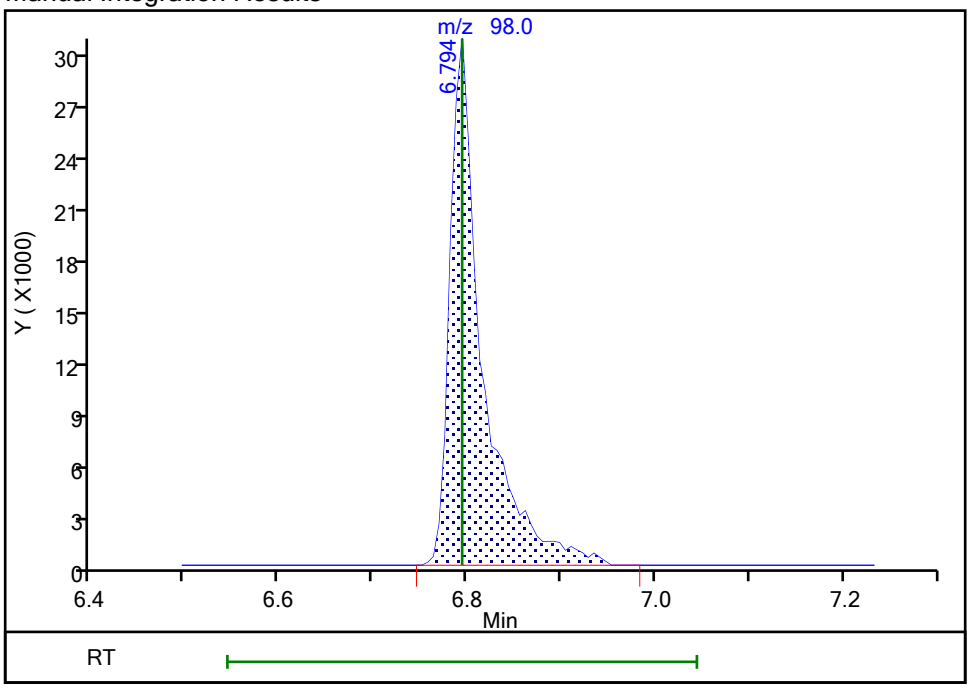
Processing Integration Results

RT: 6.79
Area: 69975
Amount: 49.354838
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 73389
Amount: 50.546639
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Lims ID: std8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 09-Nov-2020 13:31:30 ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:53 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:14:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	52010	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	76262	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	86	5191	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.336	8.336	0.000	91	62433	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	37979	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	93	16509	50.0	52.0	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	70733	50.0	50.4	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	25209	50.0	51.6	
9 Dichlorodifluoromethane	85	1.124	1.124	0.000	98	272784	100.0	105.0	
10 Chloromethane	50	1.265	1.265	0.000	99	704482	100.0	101.8	
11 Vinyl chloride	62	1.350	1.350	0.000	97	390057	100.0	100.5	
12 Butadiene	54	1.387	1.387	0.000	95	477099	100.0	108.1	M
13 Bromomethane	94	1.618	1.618	0.000	91	143306	100.0	115.4	M
14 Chloroethane	64	1.710	1.710	0.000	94	173951	100.0	96.2	M
15 Dichlorofluoromethane	67	1.899	1.899	0.000	97	348110	100.0	104.7	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	98	294619	100.0	101.3	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

VV_I_GASES_00413 Amount Added: 100.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:54 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D

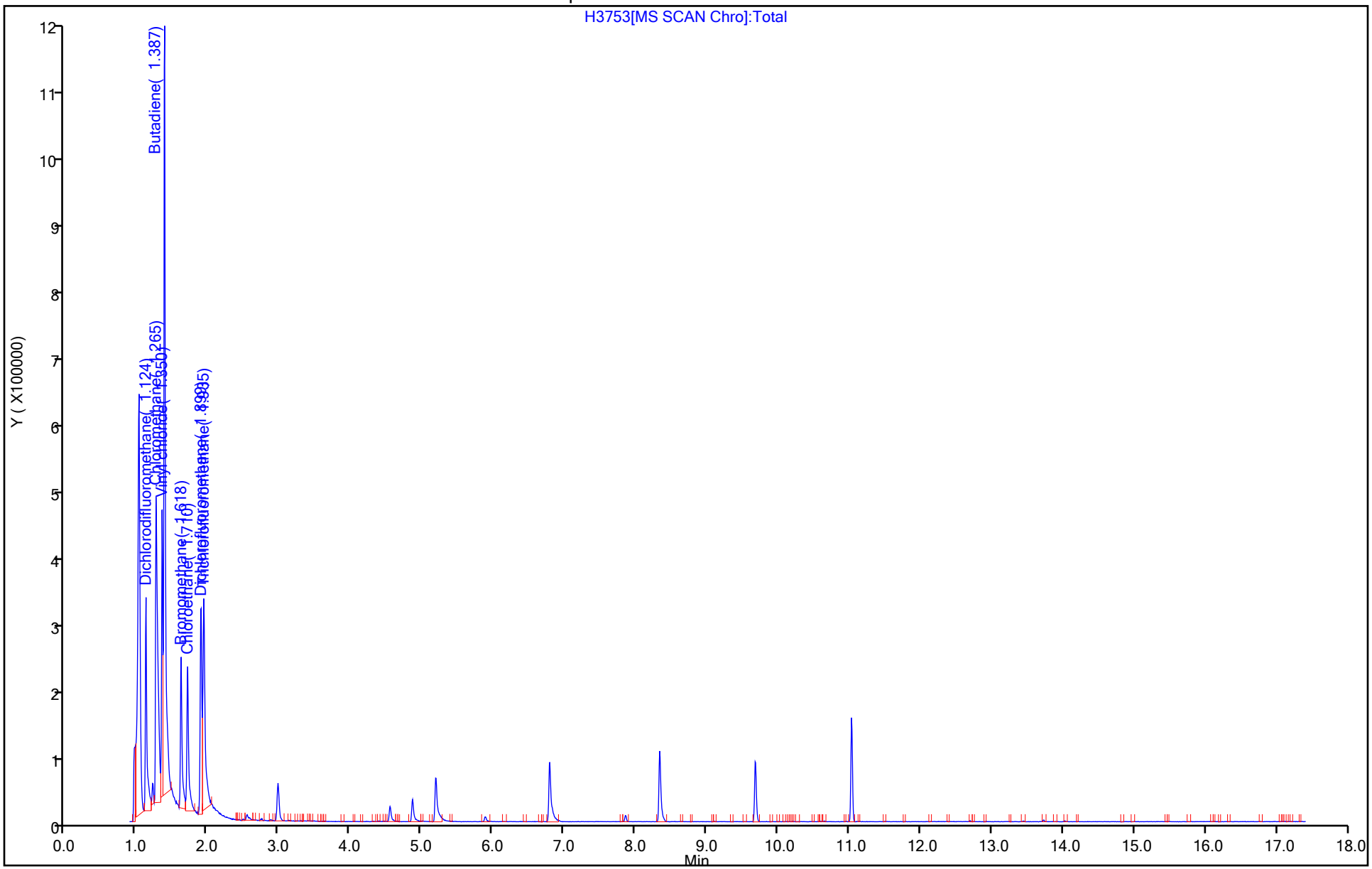
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes Operator ID:

Lims ID: std8 Worklist Smp#: 31

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

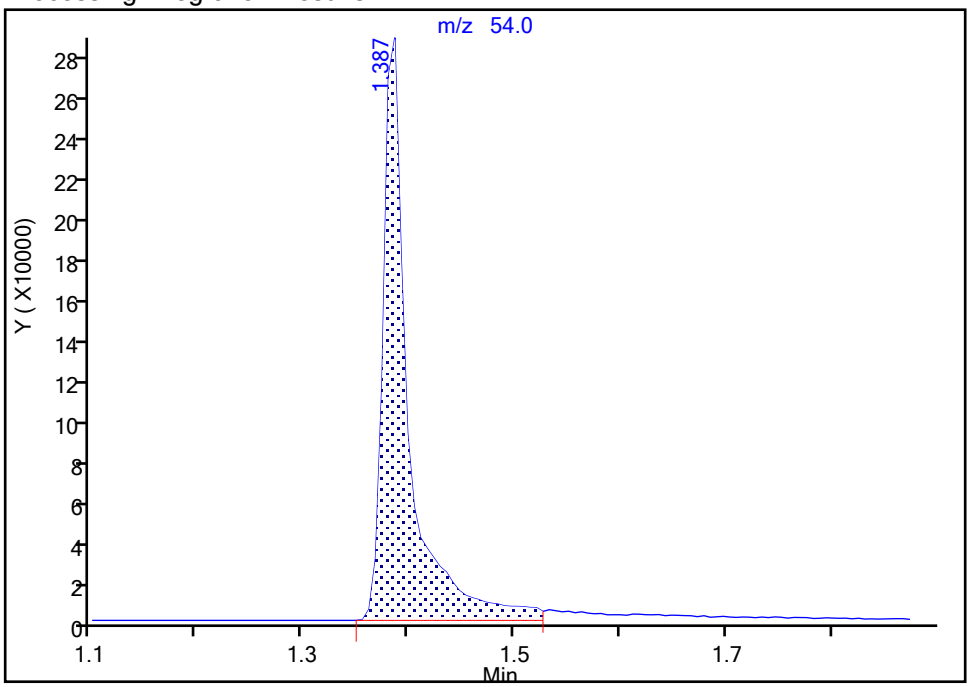
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

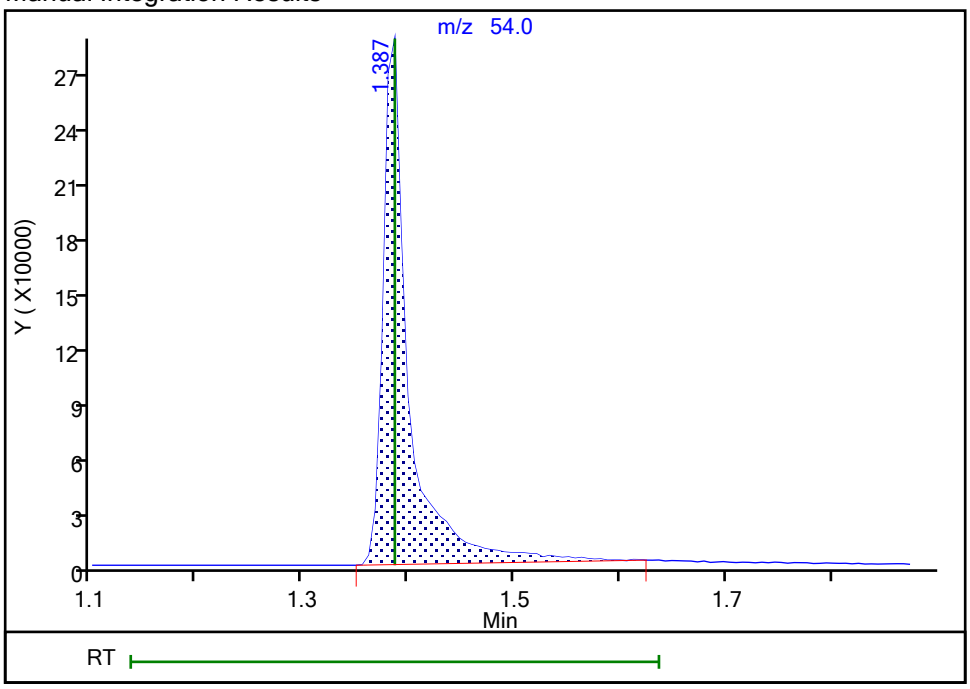
Processing Integration Results

RT: 1.39
Area: 479792
Amount: 113.1821
Amount Units: ug/l



Manual Integration Results

RT: 1.39
Area: 477099
Amount: 108.0564
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

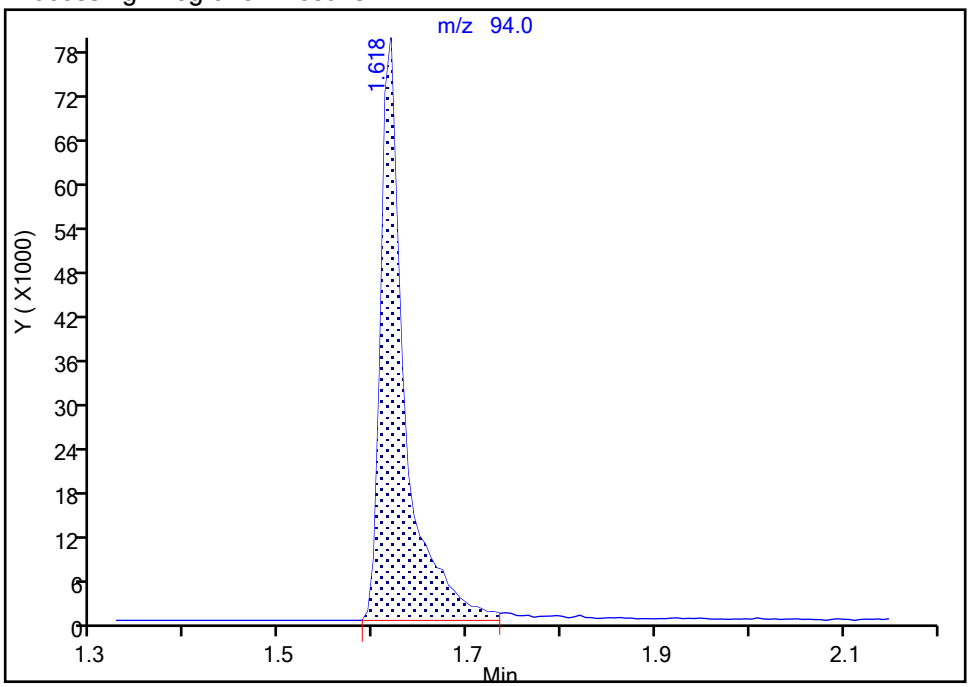
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

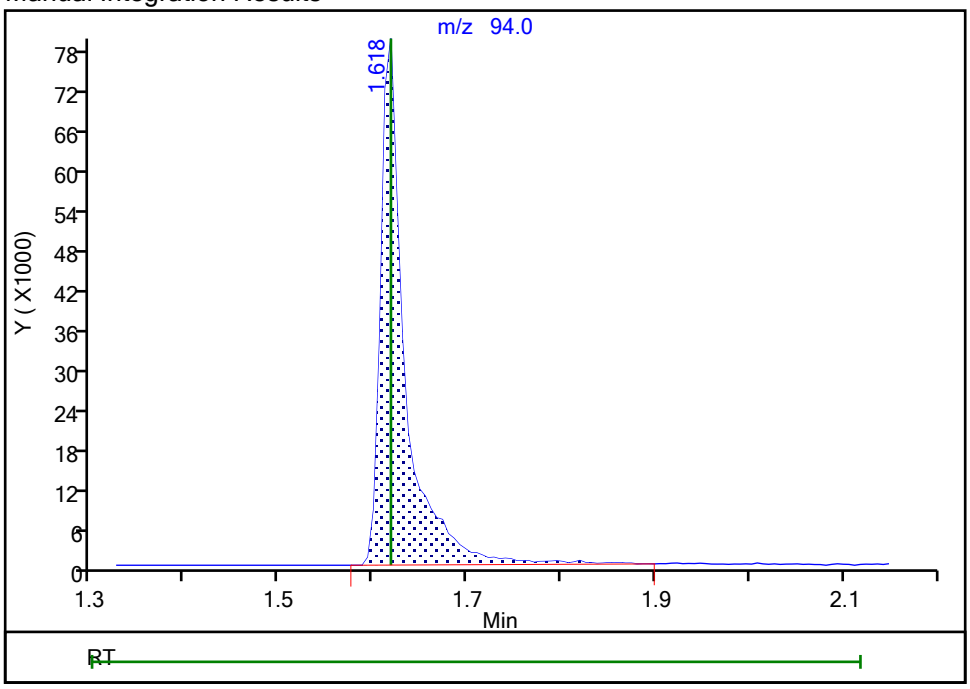
Processing Integration Results

RT: 1.62
Area: 140669
Amount: 125.2156
Amount Units: ug/l



Manual Integration Results

RT: 1.62
Area: 143306
Amount: 115.4364
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:08
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

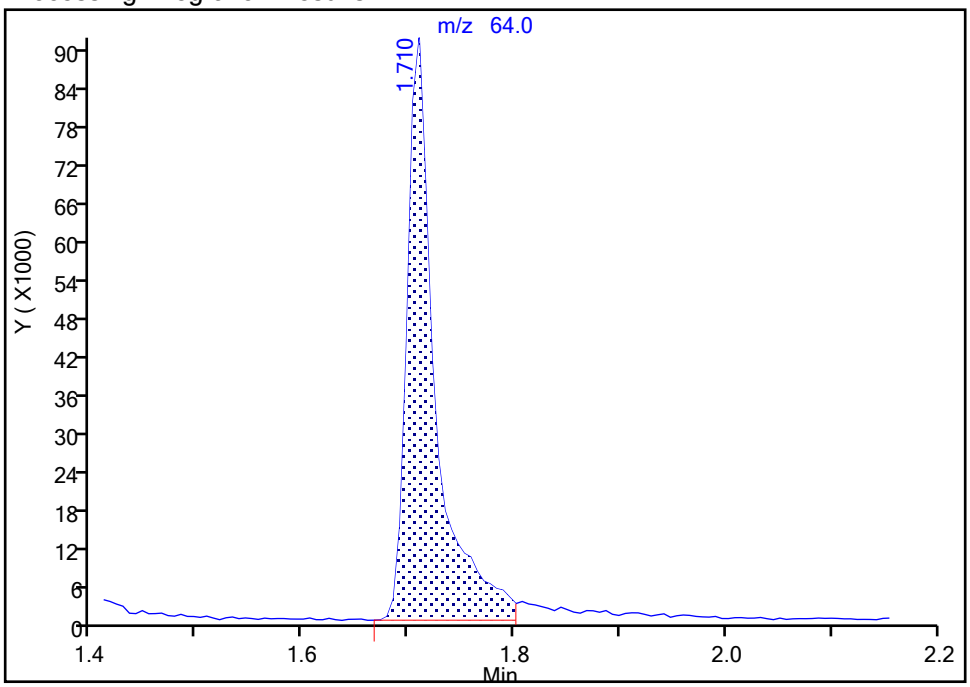
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

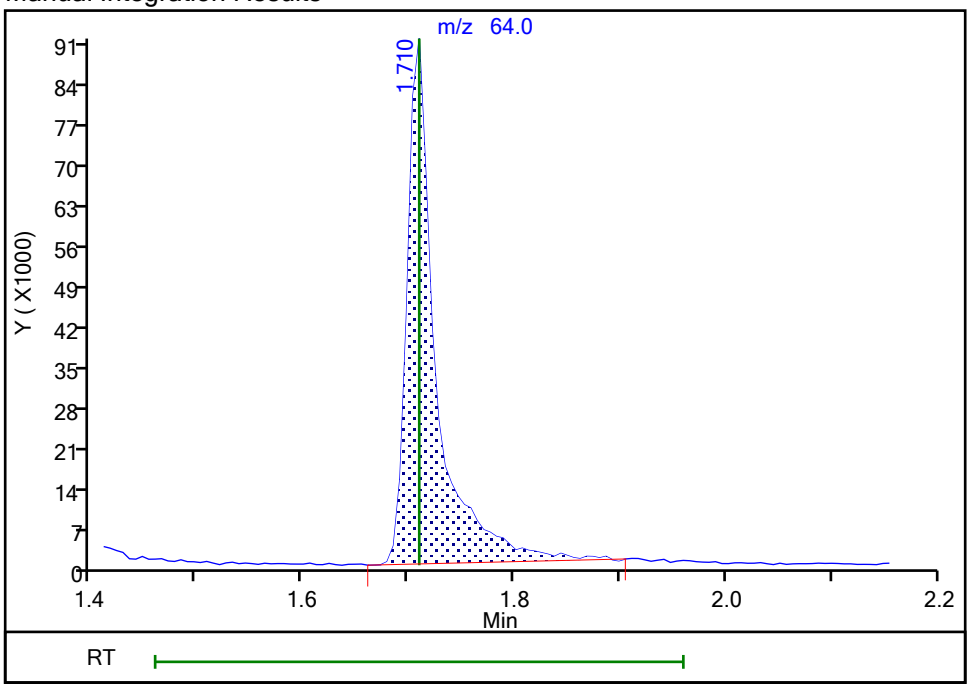
Processing Integration Results

RT: 1.71
Area: 171558
Amount: 100.7642
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 173951
Amount: 96.231239
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

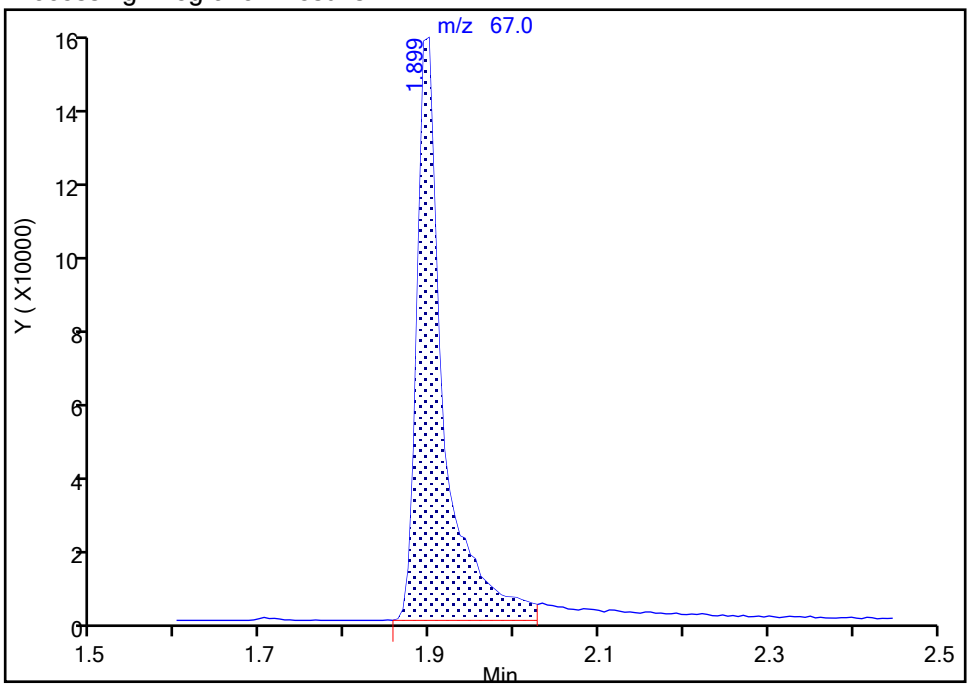
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

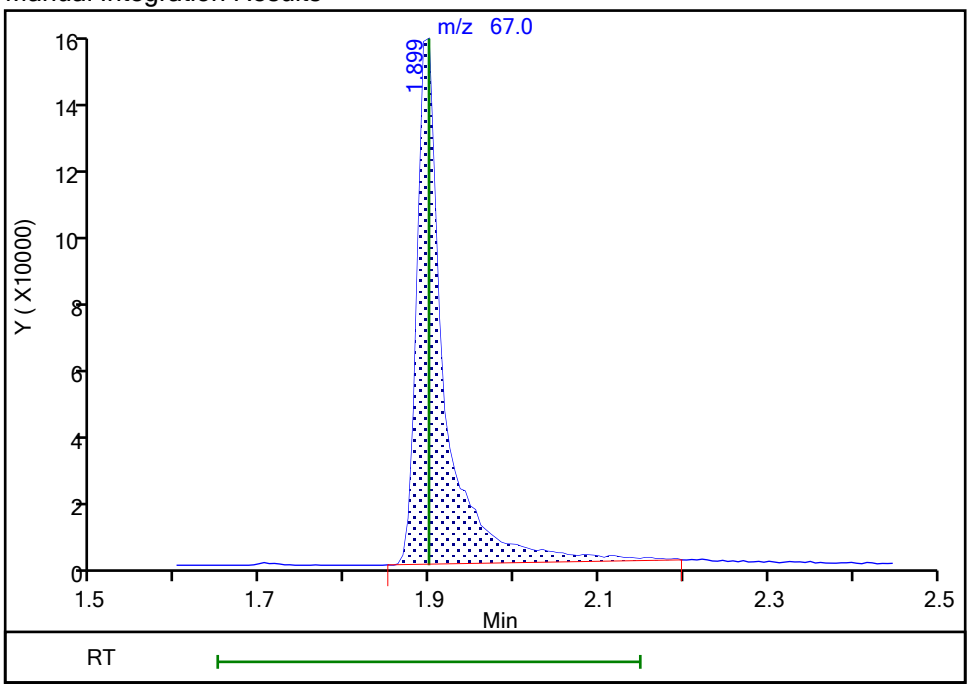
Processing Integration Results

RT: 1.90
Area: 339026
Amount: 107.2172
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 348110
Amount: 104.6730
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

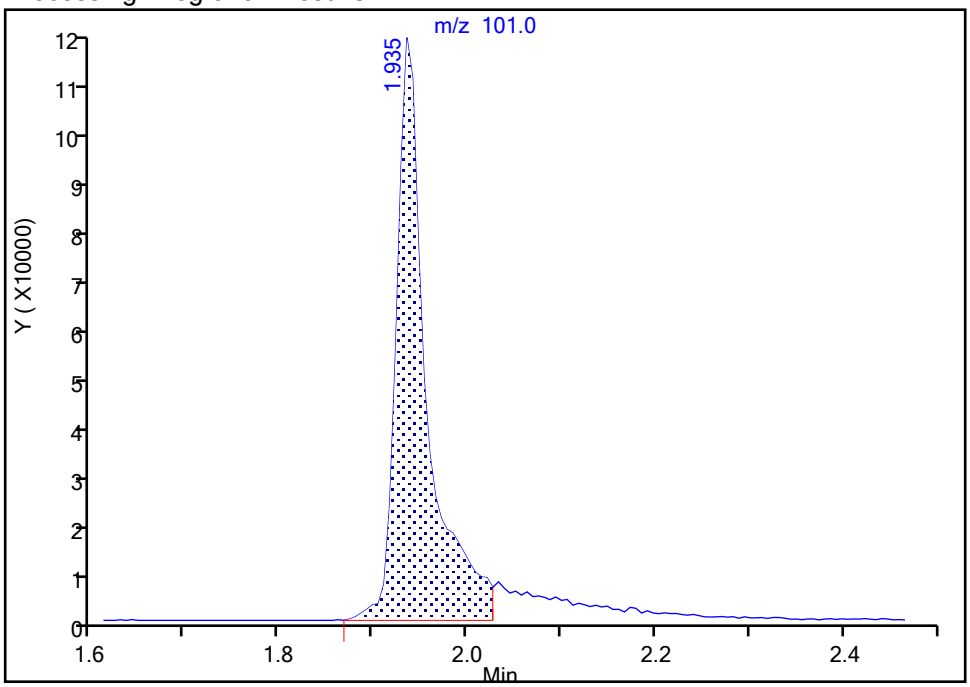
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

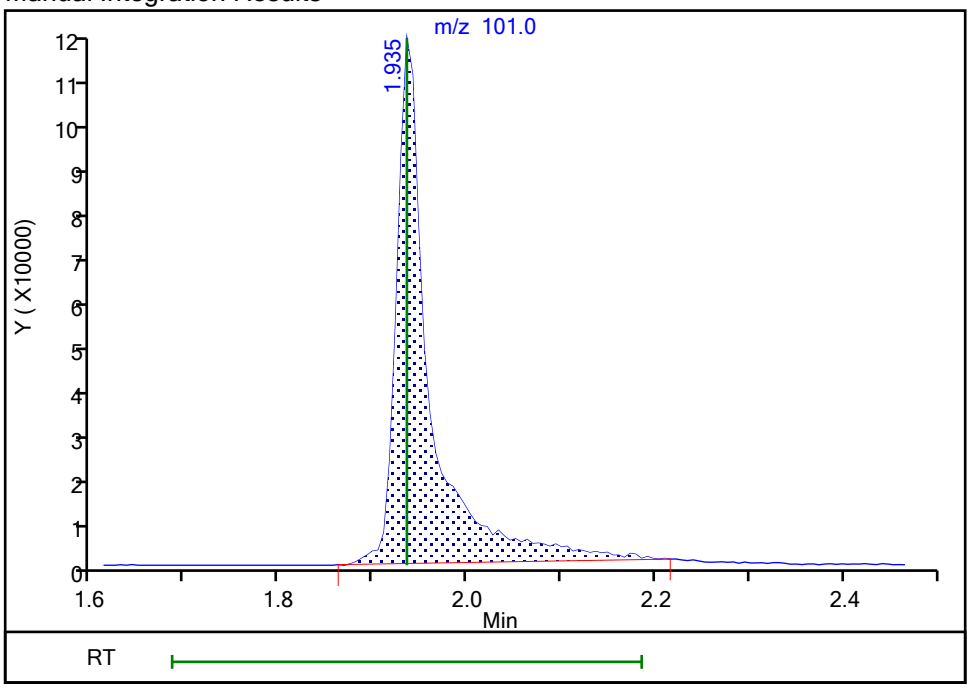
Processing Integration Results

RT: 1.94
Area: 270434
Amount: 104.6419
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 294619
Amount: 101.3049
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:13:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

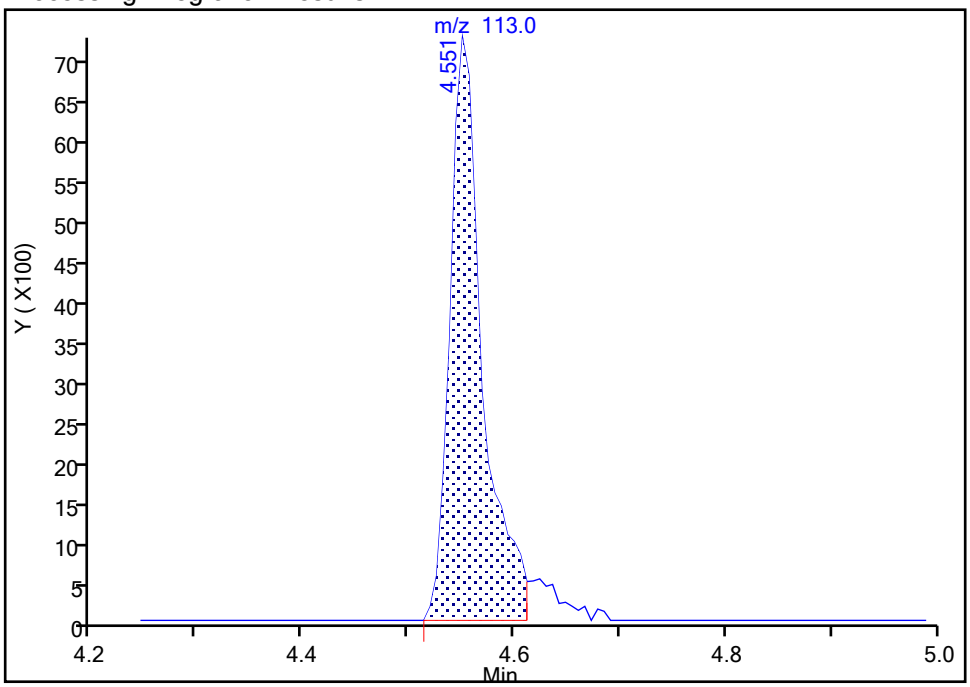
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

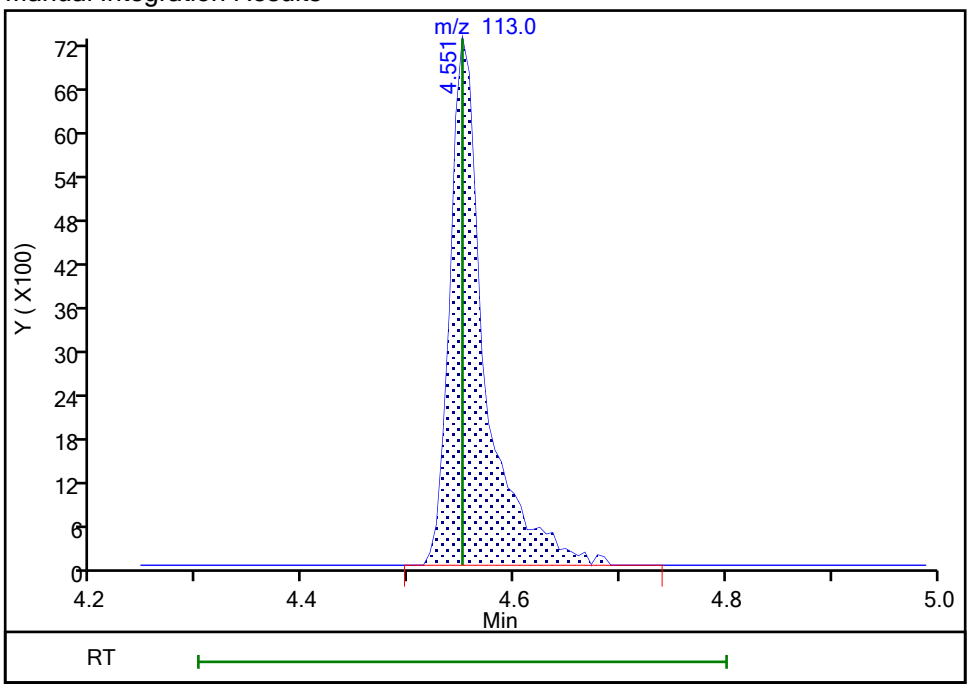
Processing Integration Results

RT: 4.55
Area: 15400
Amount: 53.038164
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 16509
Amount: 51.950361
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

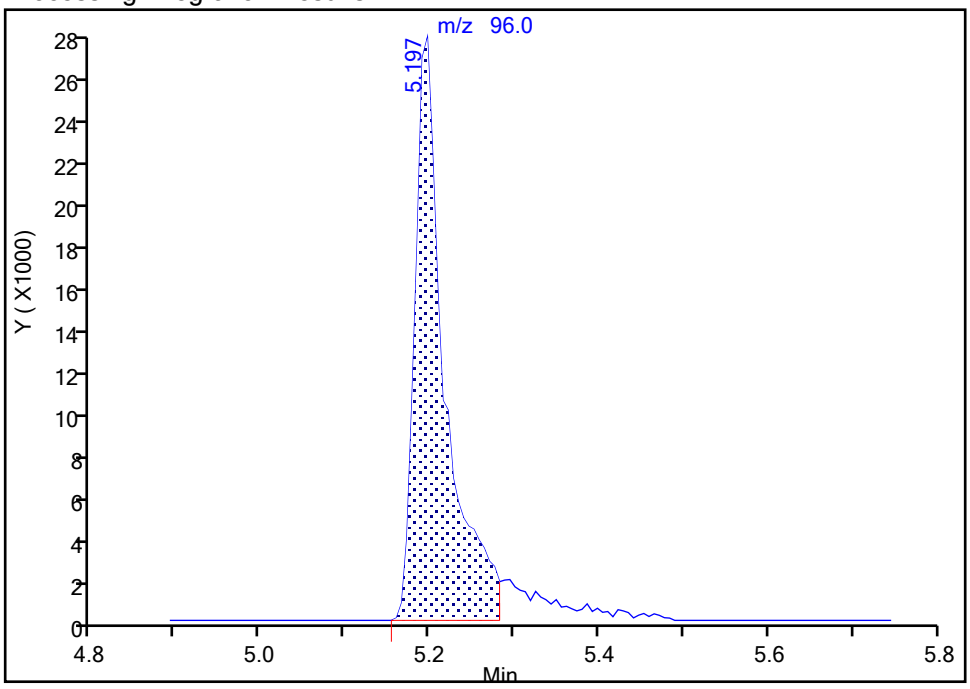
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

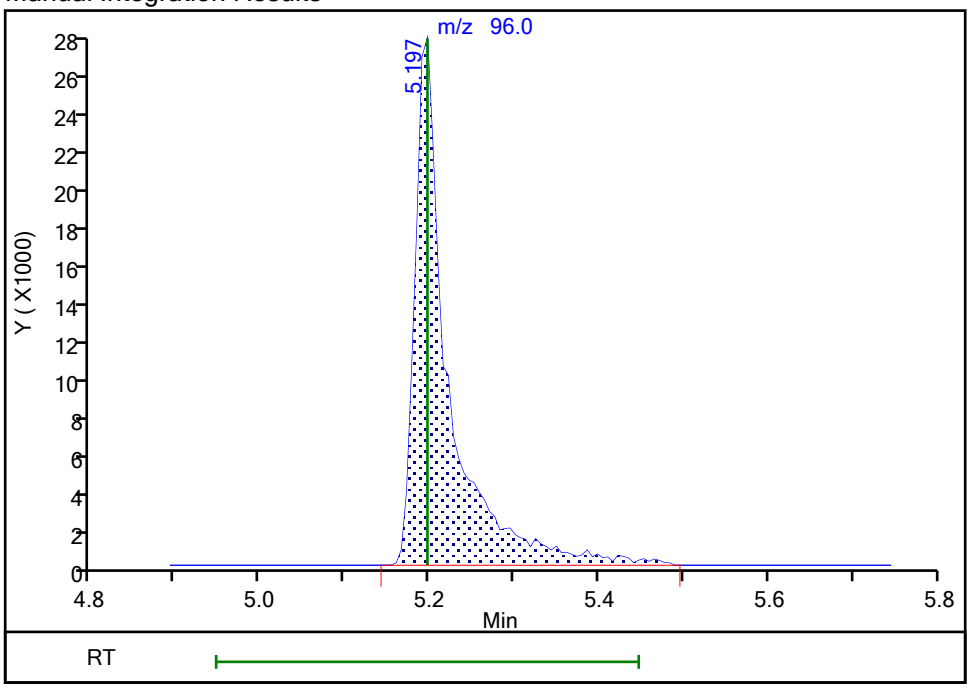
Processing Integration Results

RT: 5.20
Area: 67884
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 76262
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

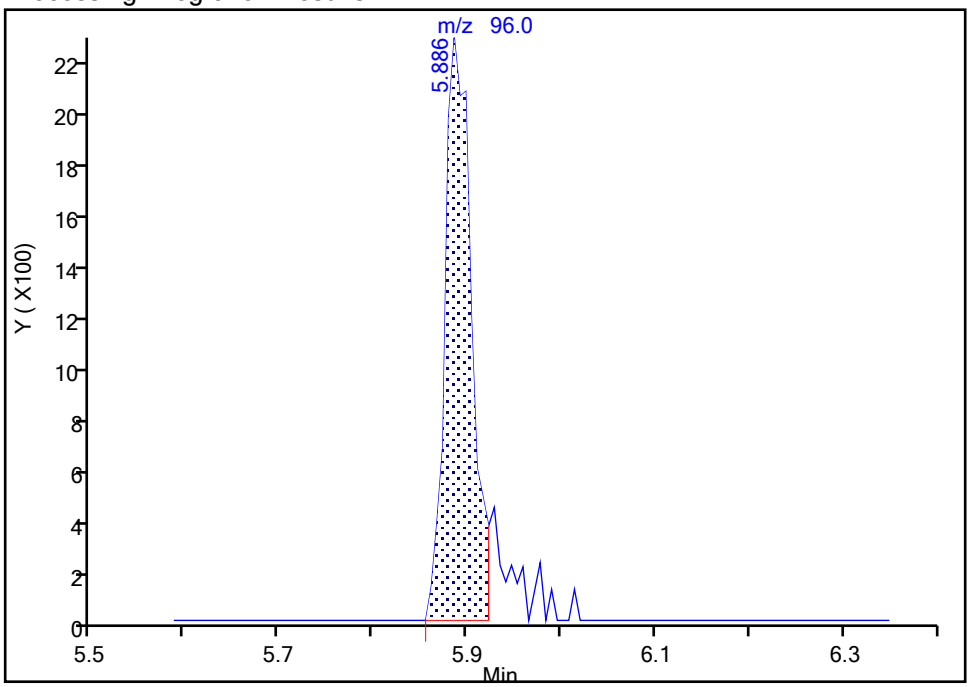
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

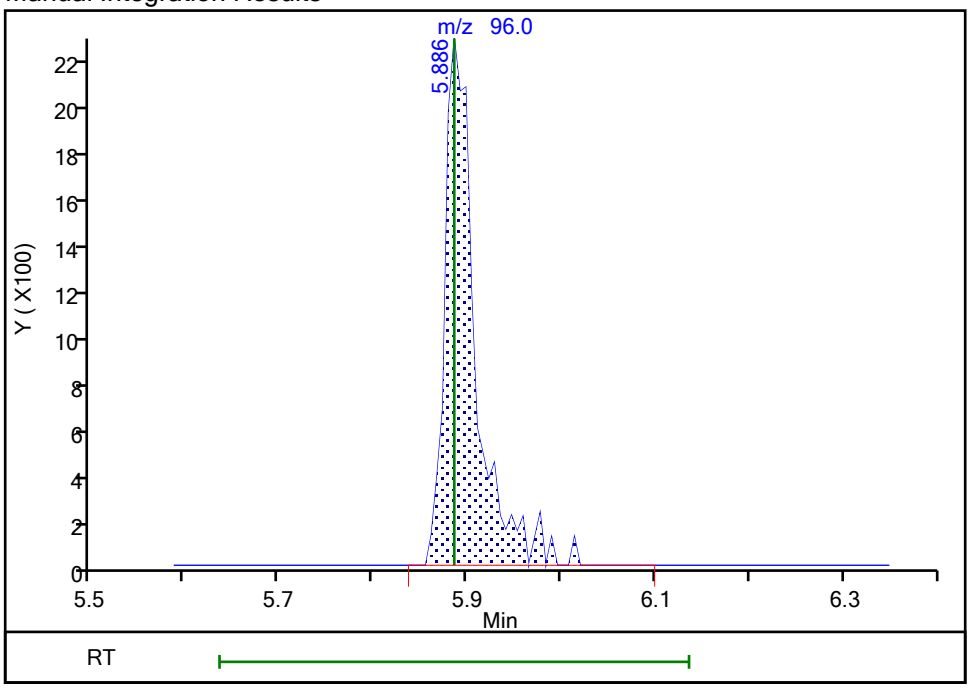
Processing Integration Results

RT: 5.89
Area: 4474
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5191
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

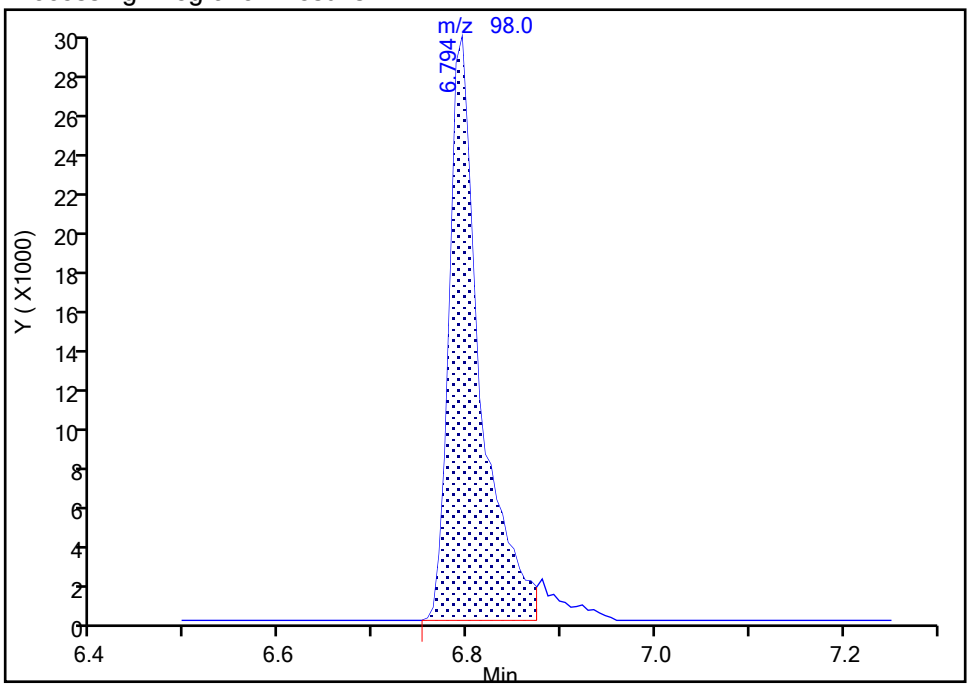
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3753.D
Injection Date: 09-Nov-2020 13:31:30 Instrument ID: Hobbes
Lims ID: std8
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

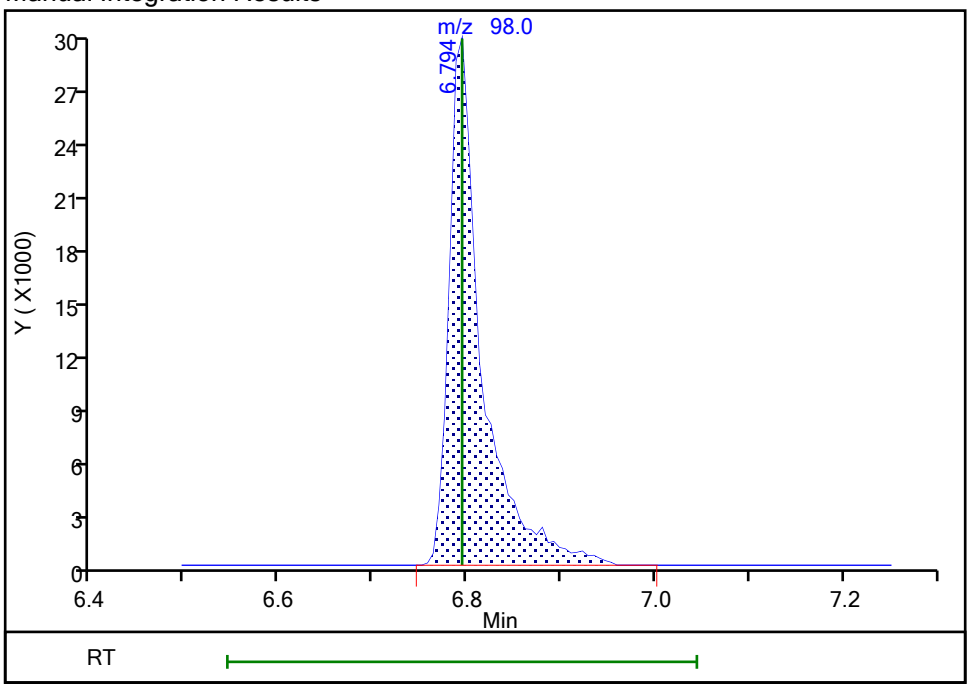
Processing Integration Results

RT: 6.79
Area: 66935
Amount: 48.657810
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 70733
Amount: 50.412161
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 09-Nov-2020 13:53:30 ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:14:58 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:15:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	50744	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	74356	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.886	0.006	82	5421	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.336	0.001	91	60601	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	36990	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	91	14974	50.0	48.3	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	69736	50.0	51.2	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	22159	50.0	46.6	
9 Dichlorodifluoromethane	85	1.119	1.124	-0.006	98	402104	150.0	158.7	
10 Chloromethane	50	1.265	1.265	0.000	99	1035300	150.0	153.5	
11 Vinyl chloride	62	1.350	1.350	0.000	97	561352	150.0	148.3	
12 Butadiene	54	1.381	1.387	-0.006	94	672503	150.0	156.2	
13 Bromomethane	94	1.612	1.618	-0.006	92	176609	150.0	145.9	
14 Chloroethane	64	1.704	1.710	-0.006	94	255923	150.0	145.2	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	96	486545	150.0	150.0	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	98	425743	150.0	150.1	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

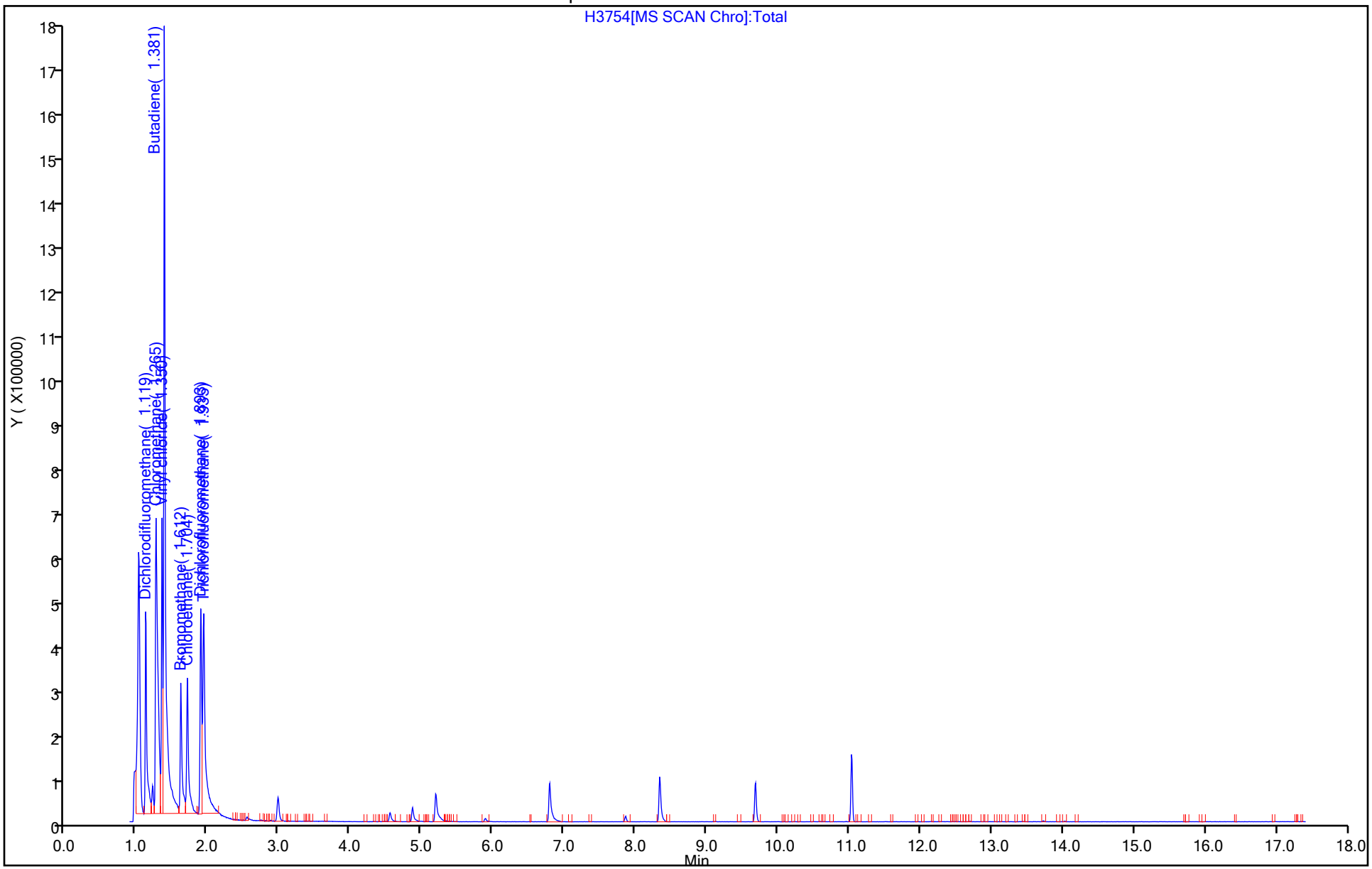
VV_I_GASES_00413 Amount Added: 150.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:14:59 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D

Injection Date:	09-Nov-2020 13:53:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std9			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

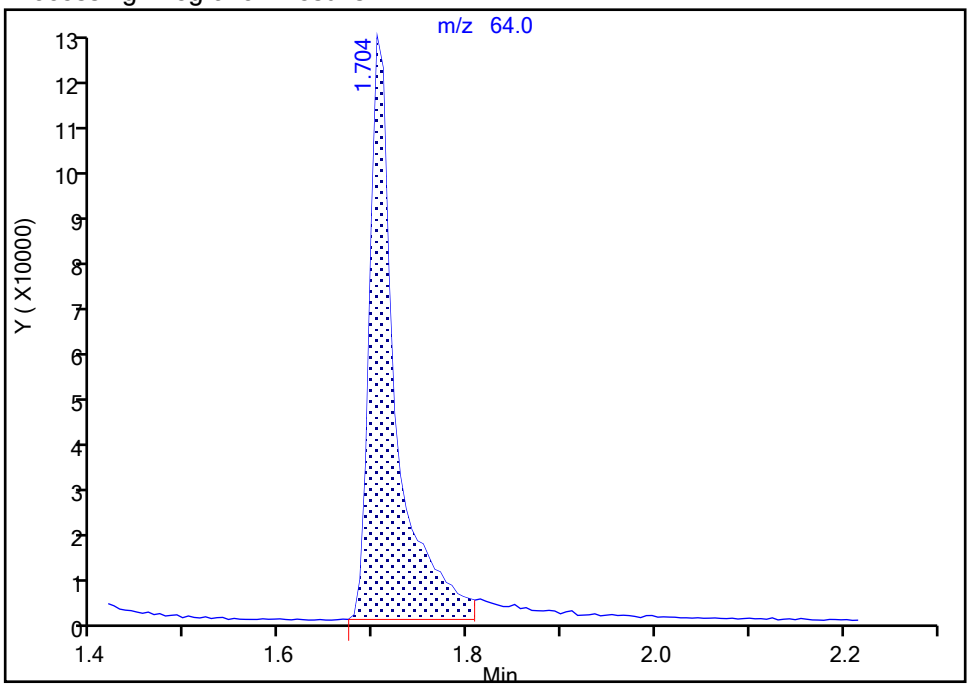
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

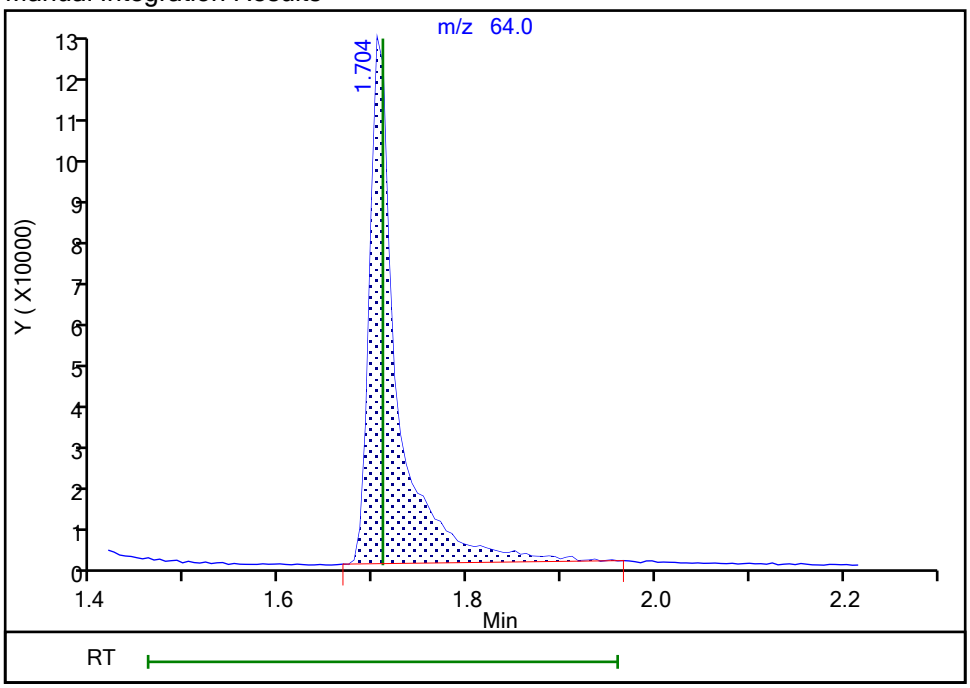
Processing Integration Results

RT: 1.70
Area: 245944
Amount: 135.2409
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 255923
Amount: 145.2080
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:08
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

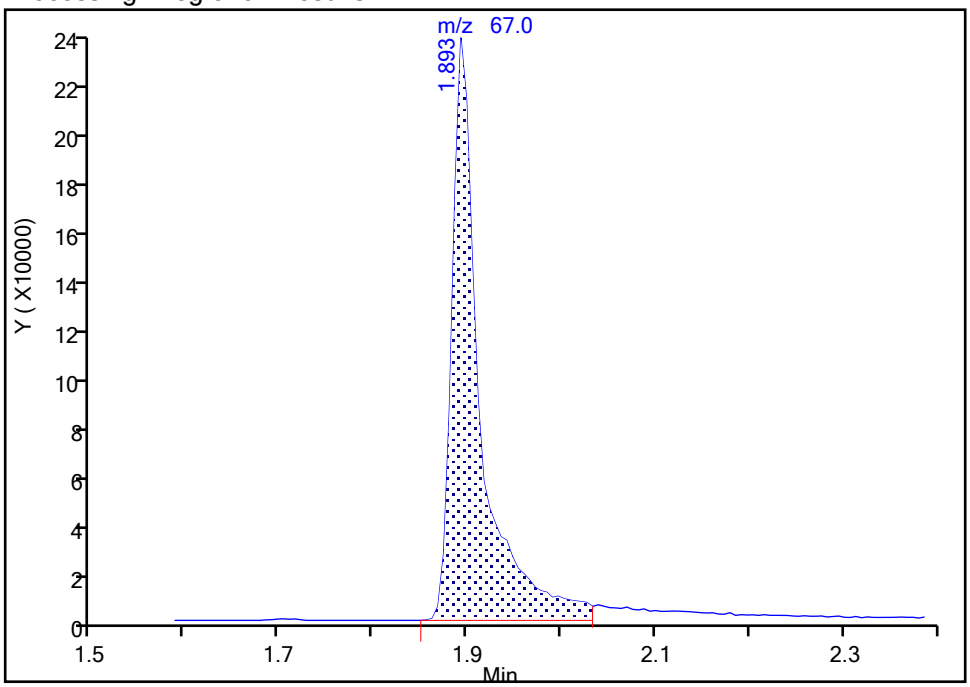
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

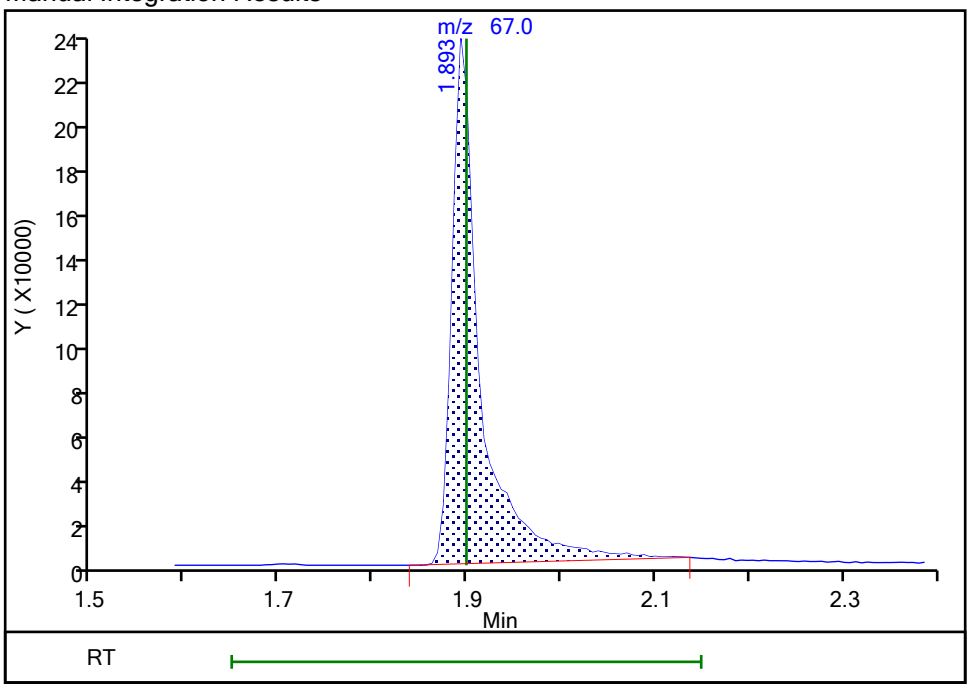
Processing Integration Results

RT: 1.89
Area: 491047
Amount: 145.5010
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 486545
Amount: 150.0491
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

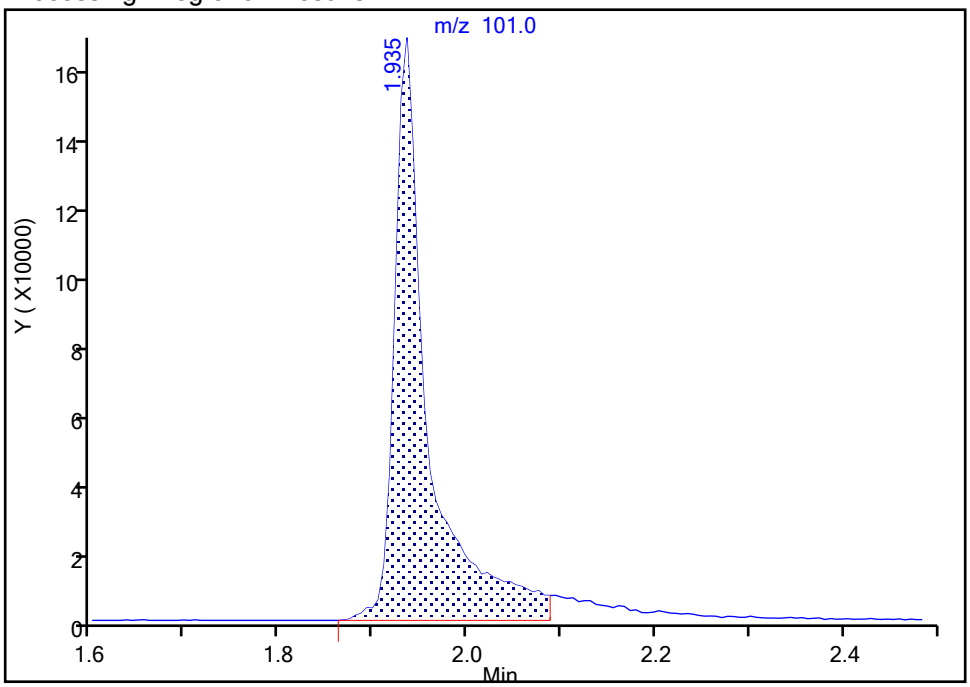
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

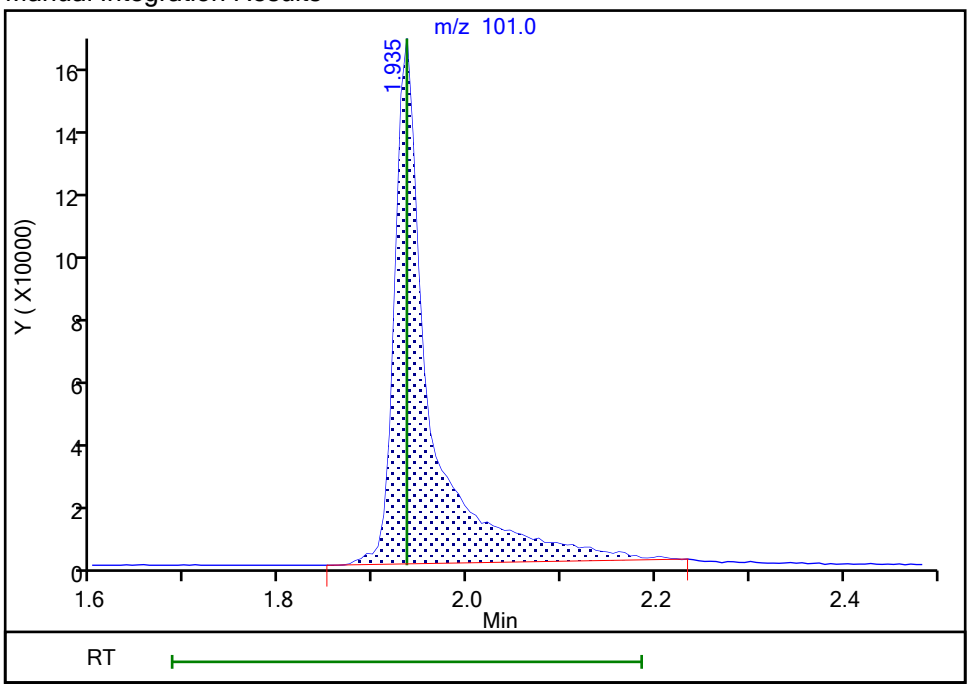
Processing Integration Results

RT: 1.94
Area: 414513
Amount: 149.5930
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 425743
Amount: 150.1445
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

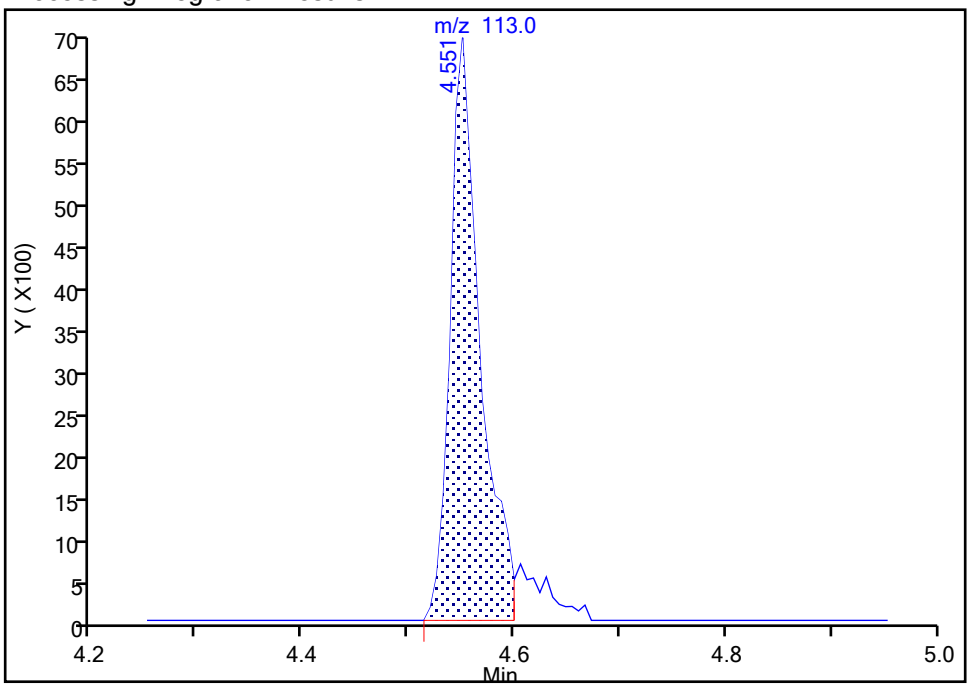
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

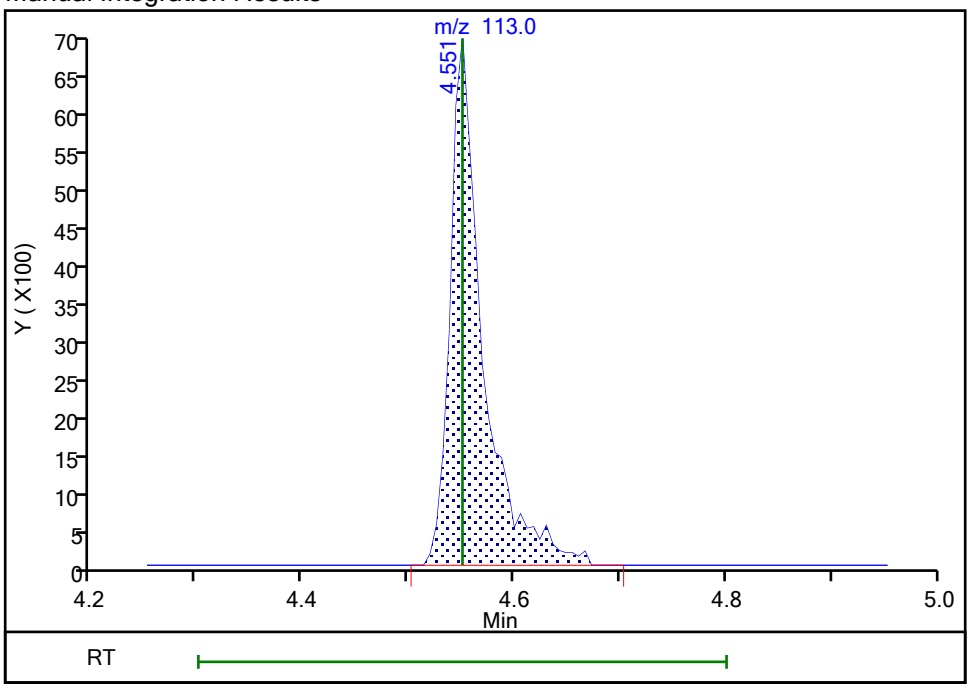
Processing Integration Results

RT: 4.55
Area: 13650
Amount: 43.808970
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 14974
Amount: 48.327886
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

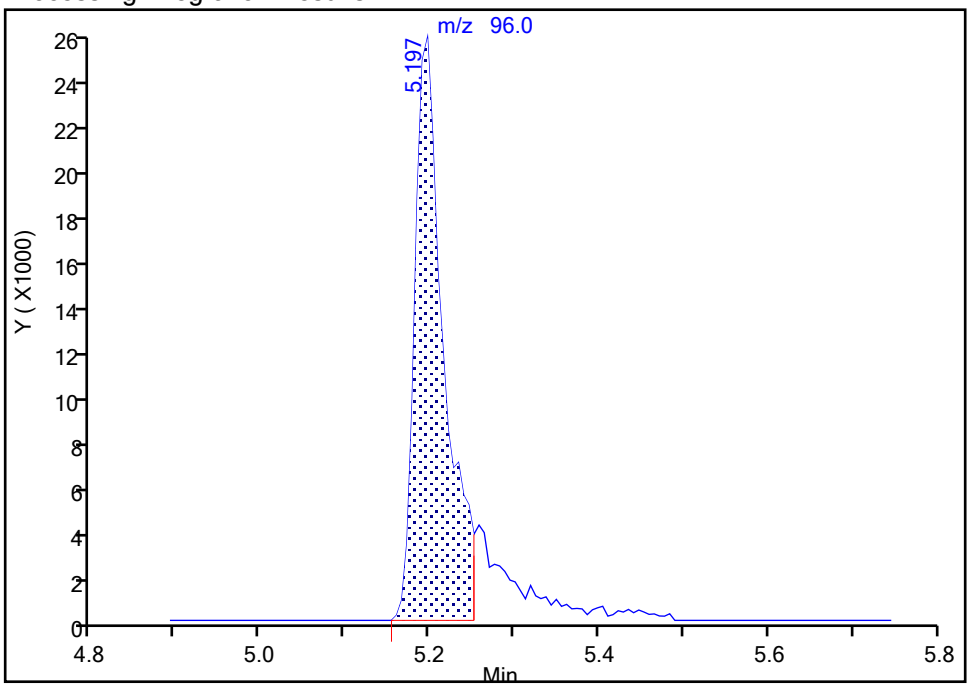
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

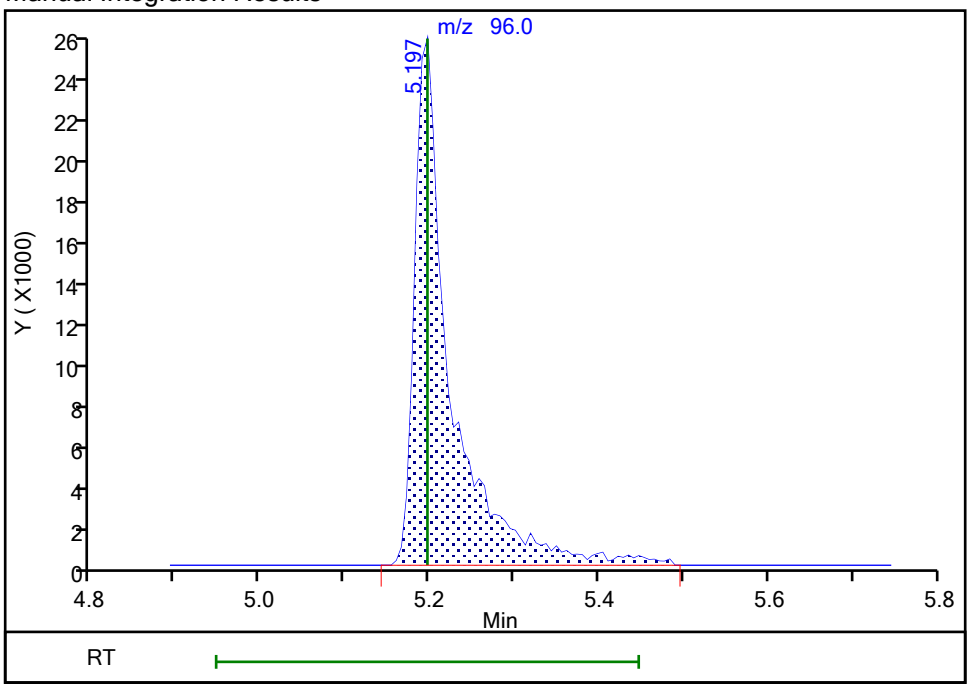
Processing Integration Results

RT: 5.20
Area: 60581
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 74356
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

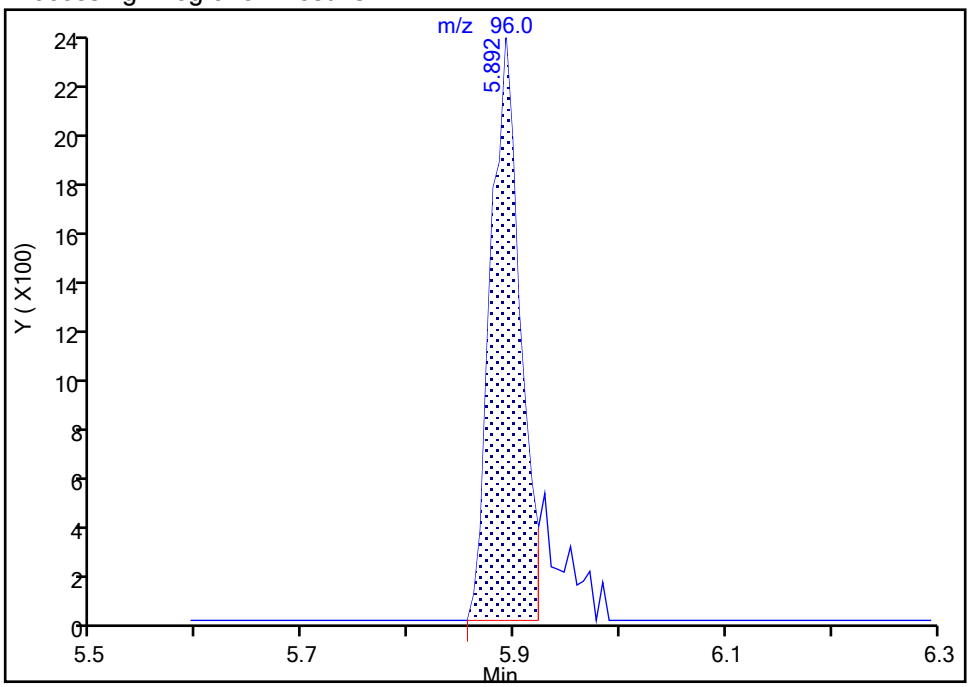
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

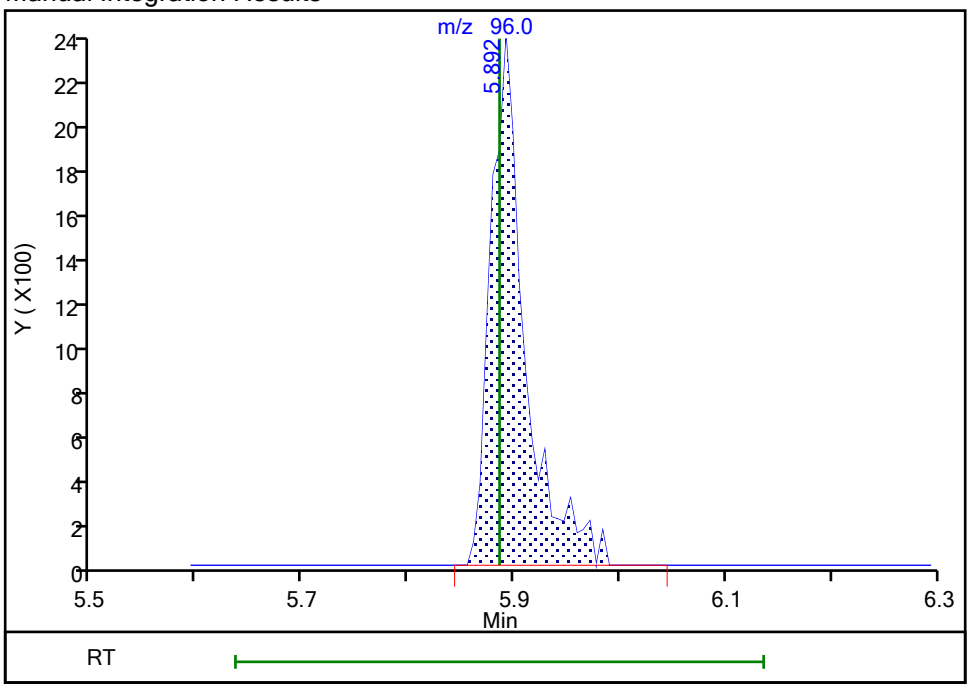
Processing Integration Results

RT: 5.89
Area: 4647
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5421
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

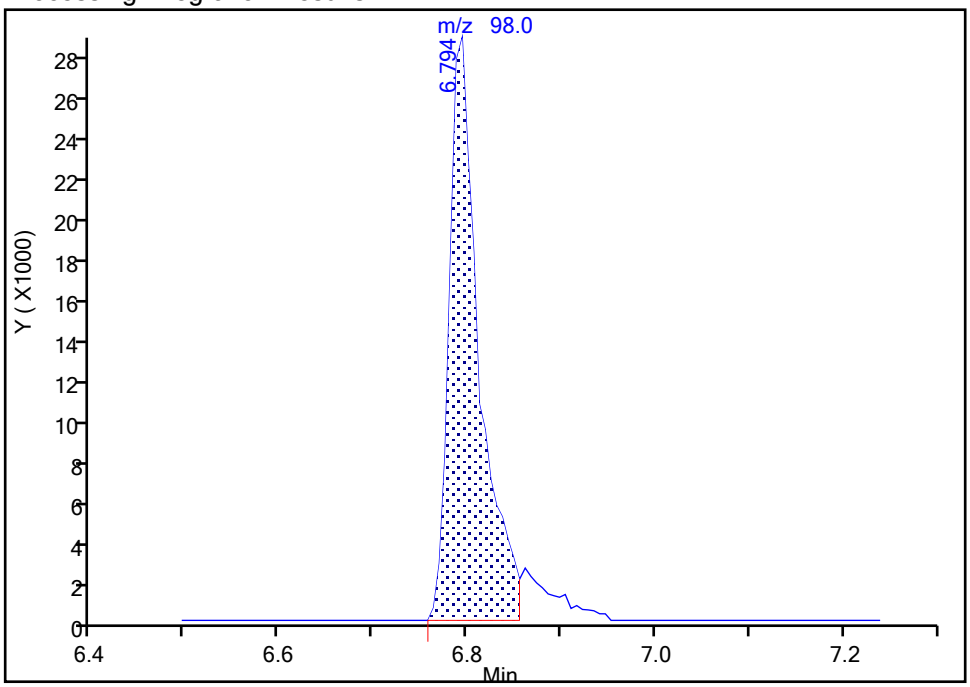
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3754.D
Injection Date: 09-Nov-2020 13:53:30 Instrument ID: Hobbes
Lims ID: std9
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

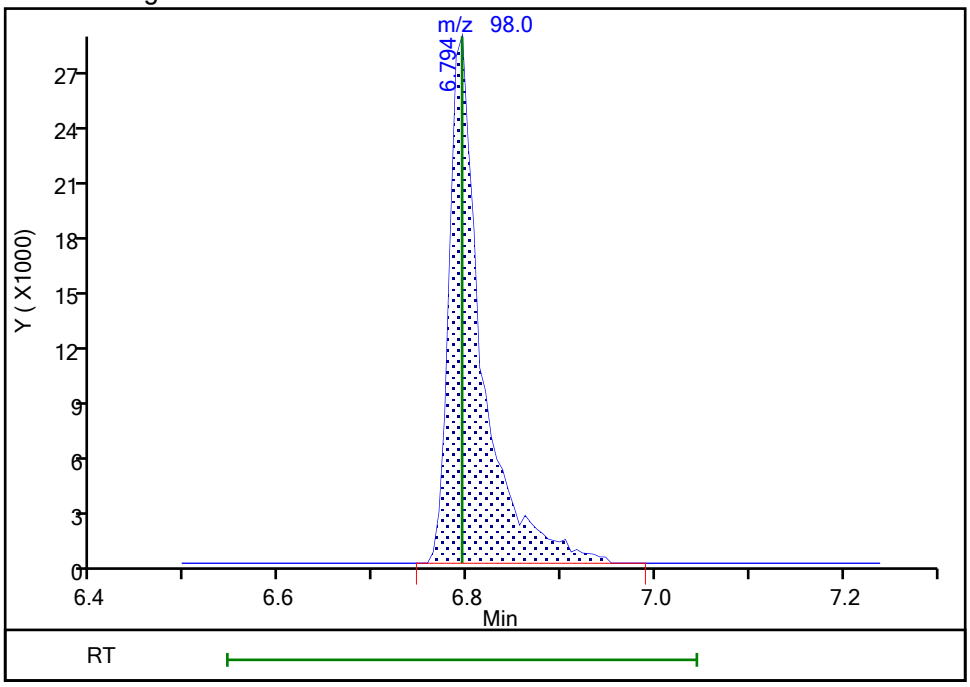
Processing Integration Results

RT: 6.79
Area: 63663
Amount: 47.459916
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 69736
Amount: 51.204094
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:14:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 09-Nov-2020 14:16:30 ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:15:02 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:16:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.978	0.006	0	49479	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.197	-0.006	98	72444	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	92	5677	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.336	0.007	90	61494	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	96	37000	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	93	15227	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	67719	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.684	-0.006	0	23968	50.0	50.3	
9 Dichlorodifluoromethane	85	1.119	1.124	-0.005	97	517961	200.0	209.8	
10 Chloromethane	50	1.265	1.265	0.000	99	1348452	200.0	205.2	
11 Vinyl chloride	62	1.350	1.350	0.000	97	730797	200.0	198.1	
12 Butadiene	54	1.381	1.387	-0.006	95	902940	200.0	215.3	M
13 Bromomethane	94	1.612	1.618	-0.006	92	230302	200.0	195.3	M
14 Chloroethane	64	1.704	1.710	-0.006	94	314510	200.0	183.2	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	97	655451	200.0	207.5	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	97	554383	200.0	200.7	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

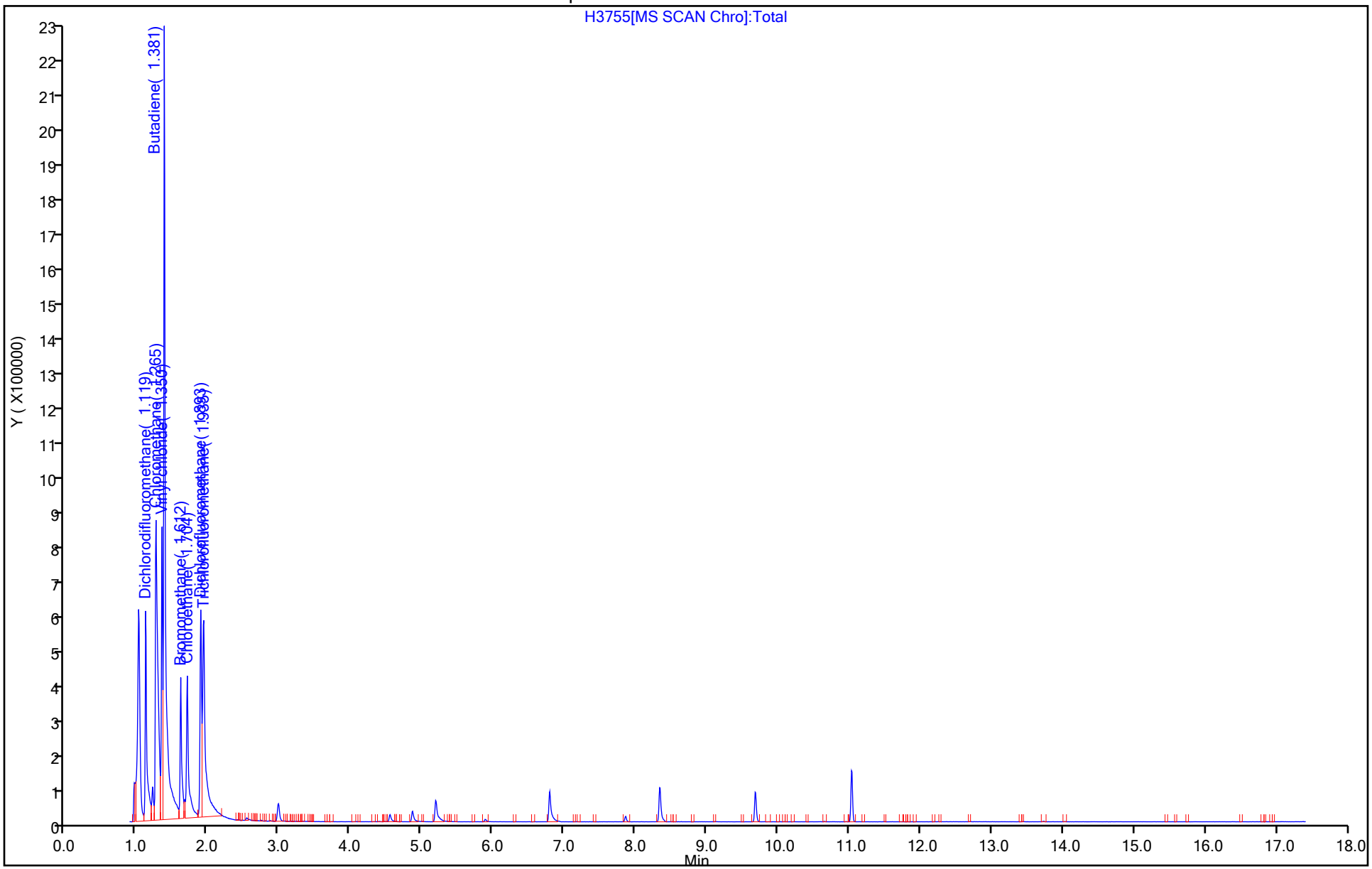
VV_I_GASES_00413 Amount Added: 200.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:15:03 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D

Injection Date:	09-Nov-2020 14:16:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std10			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

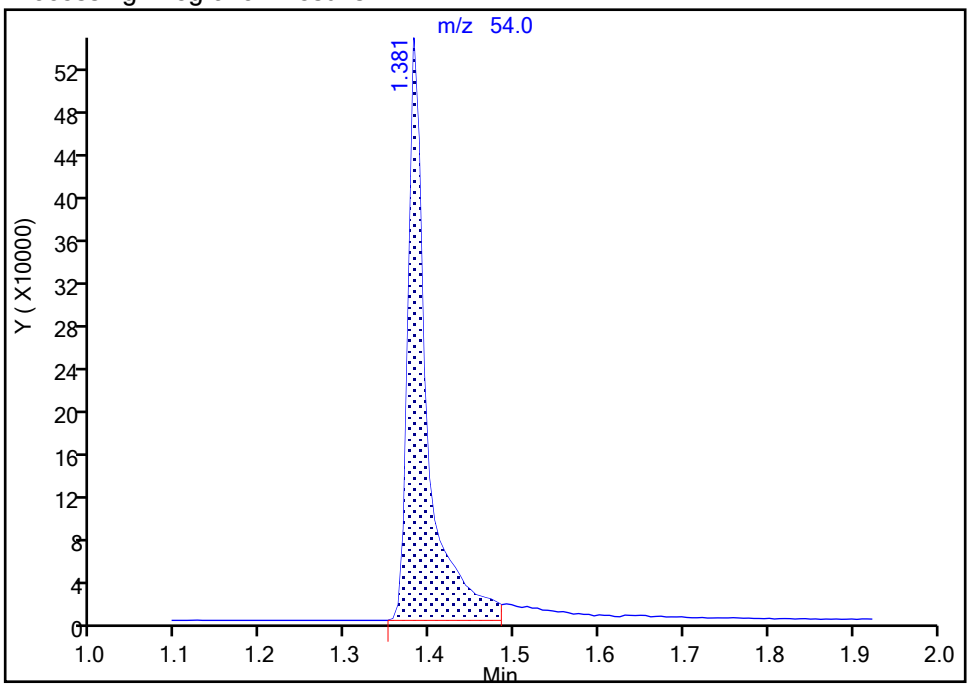
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

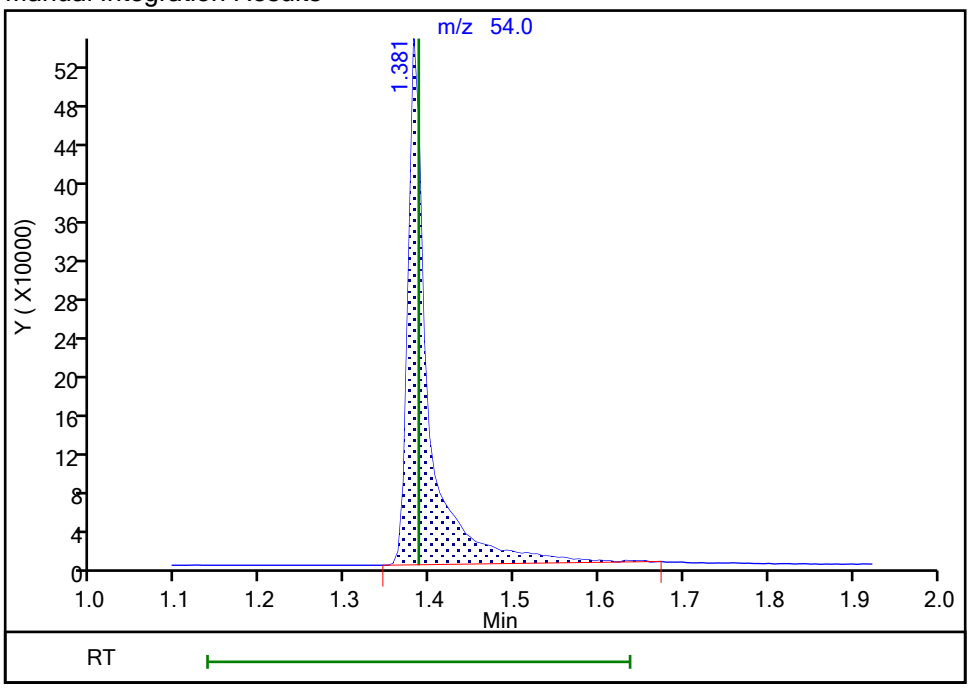
Processing Integration Results

RT: 1.38
Area: 859312
Amount: 205.6475
Amount Units: ug/l



Manual Integration Results

RT: 1.38
Area: 902940
Amount: 215.2814
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

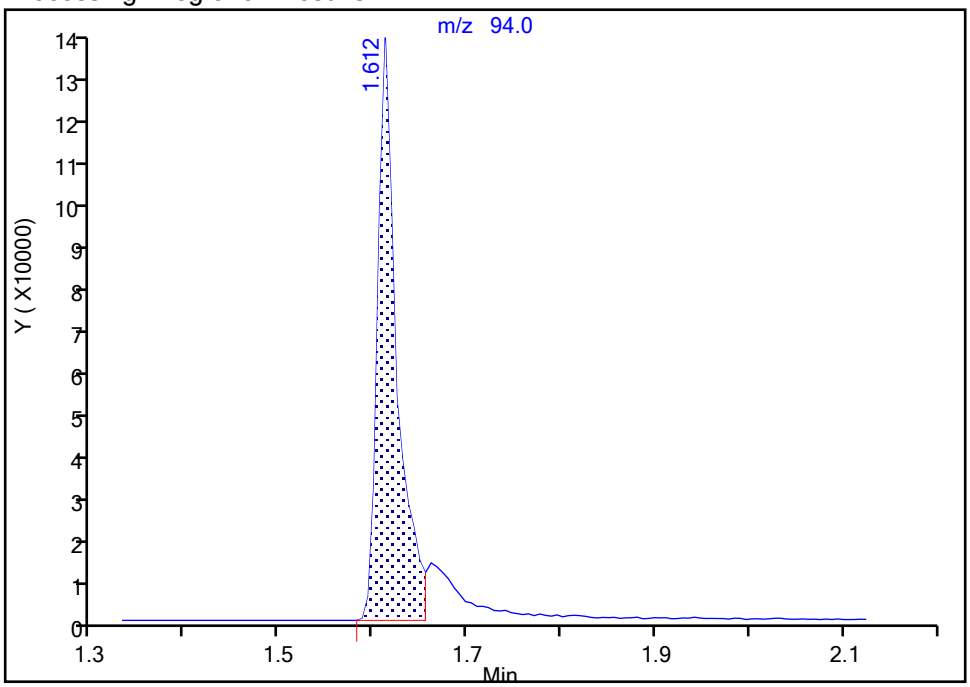
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

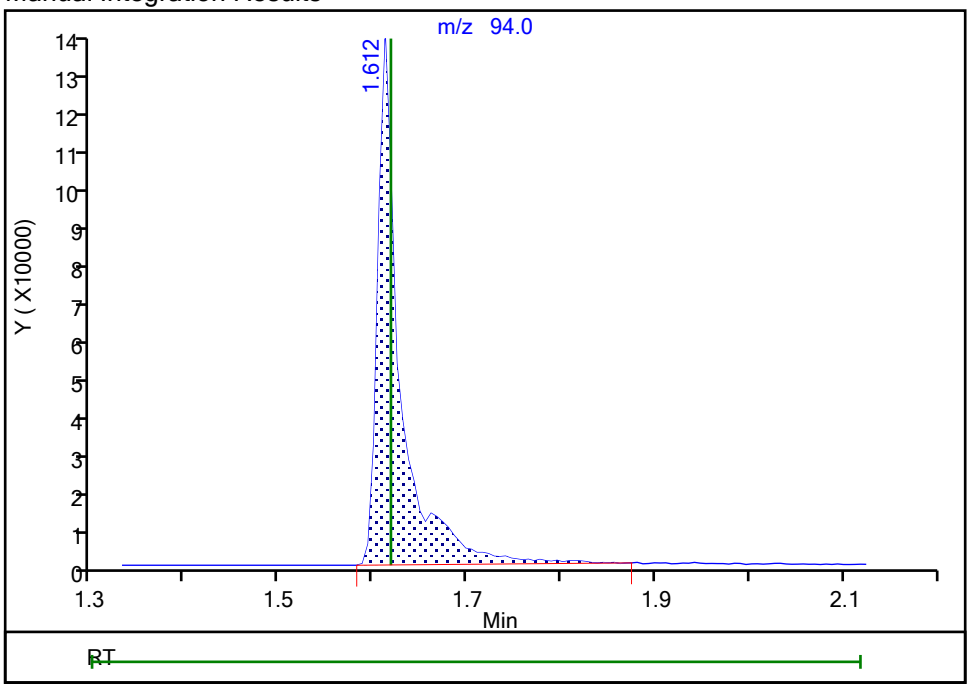
Processing Integration Results

RT: 1.61
Area: 196115
Amount: 176.8675
Amount Units: ug/l



Manual Integration Results

RT: 1.61
Area: 230302
Amount: 195.2909
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

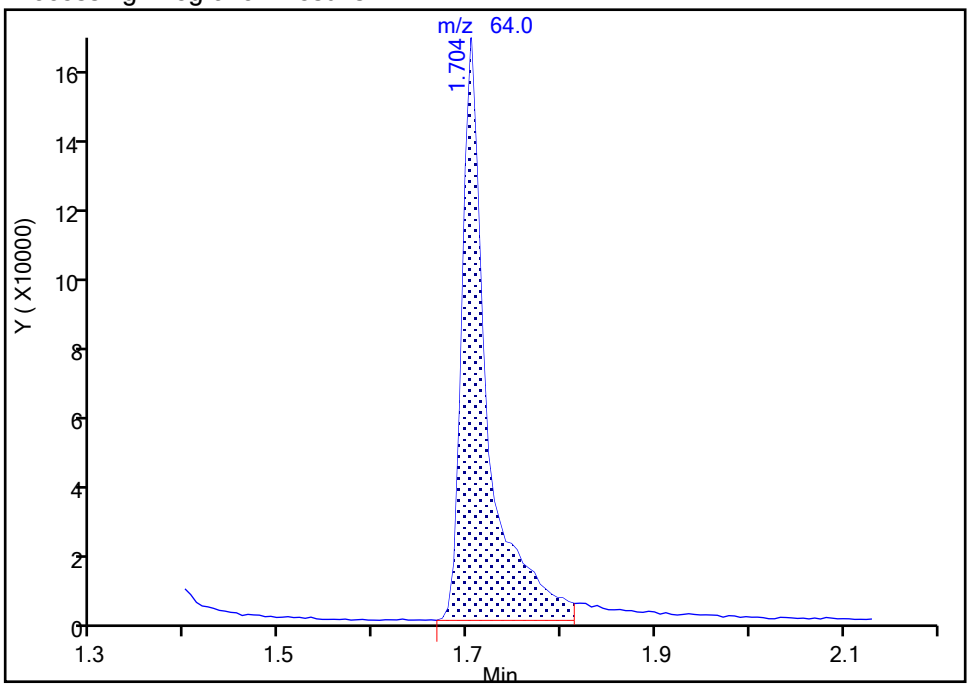
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

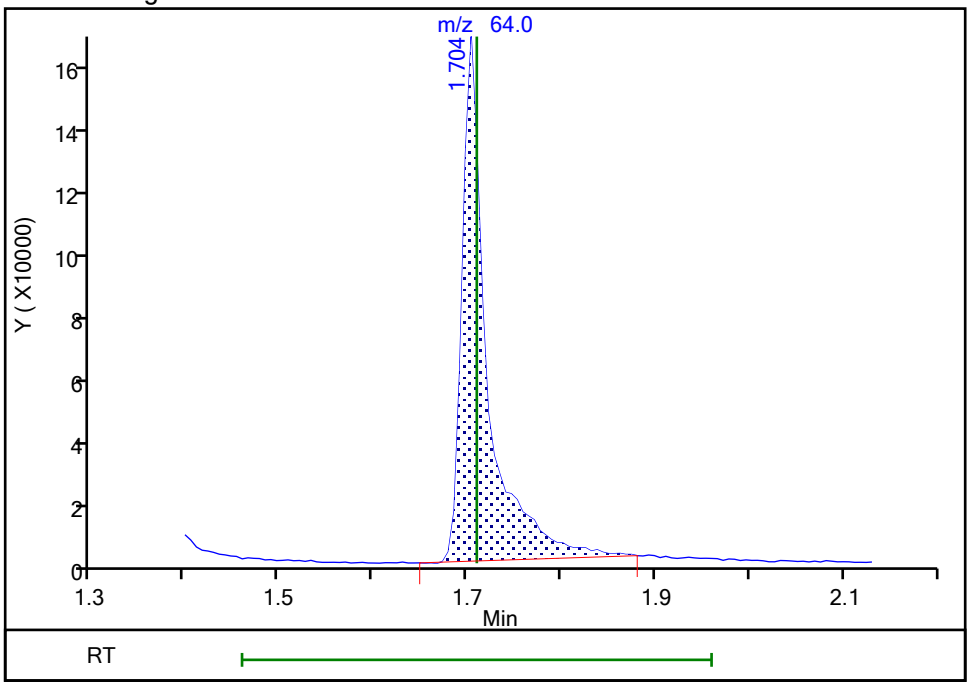
Processing Integration Results

RT: 1.70
Area: 318337
Amount: 188.2761
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 314510
Amount: 183.1595
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:37
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

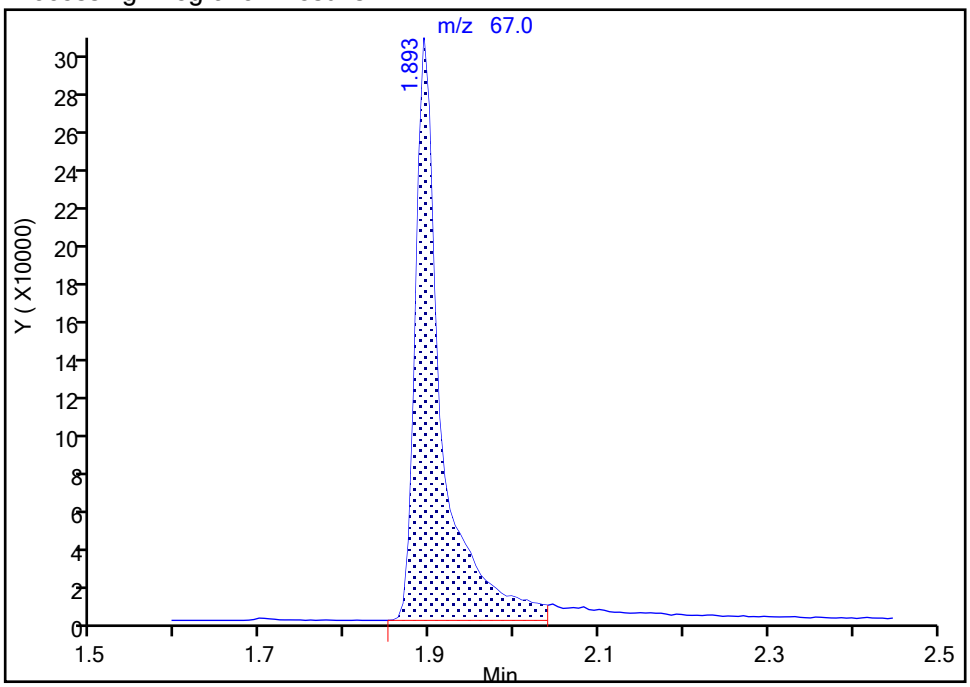
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

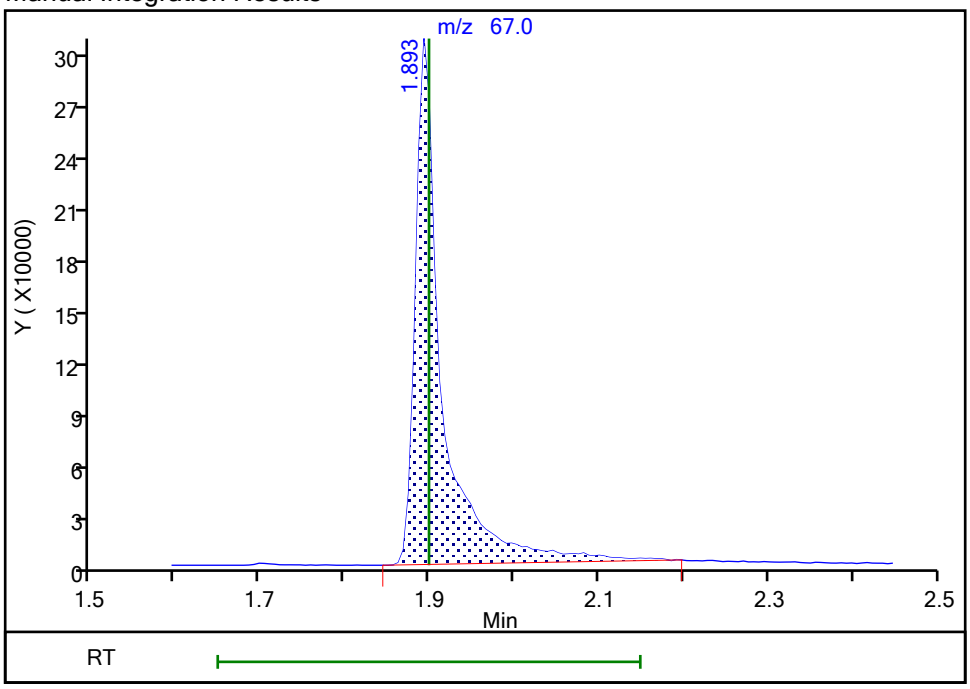
Processing Integration Results

RT: 1.89
Area: 642641
Amount: 205.5851
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 655451
Amount: 207.4743
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

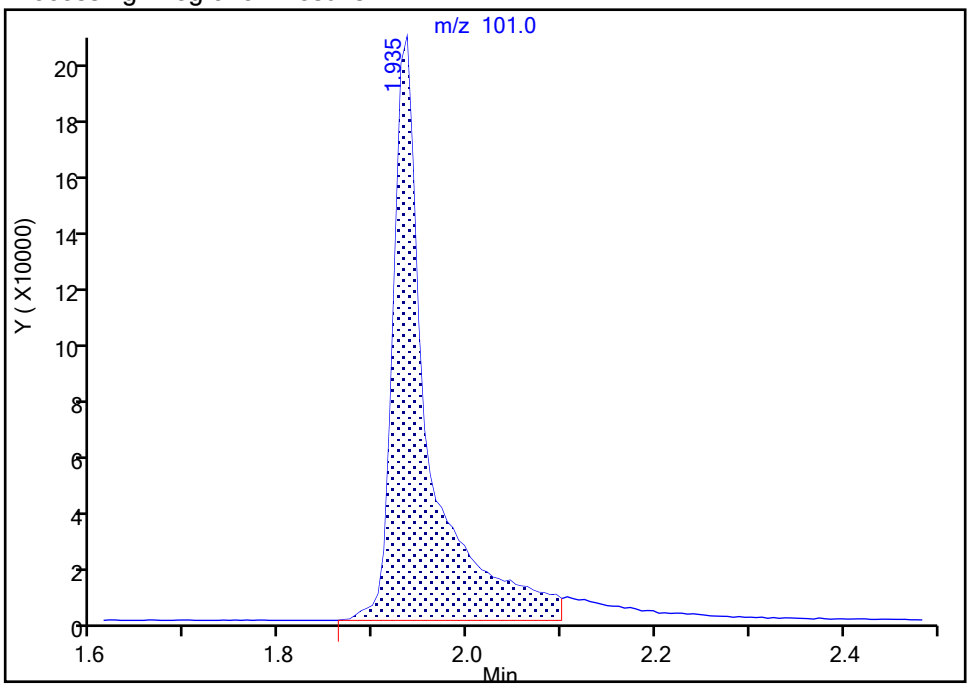
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

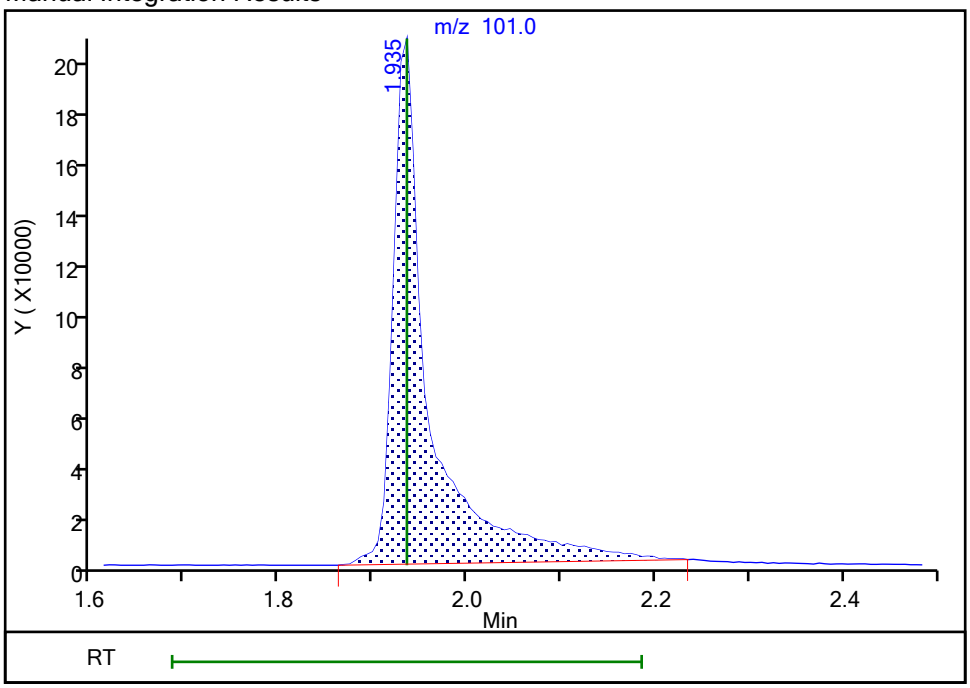
Processing Integration Results

RT: 1.94
Area: 541850
Amount: 210.4910
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 554383
Amount: 200.6714
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

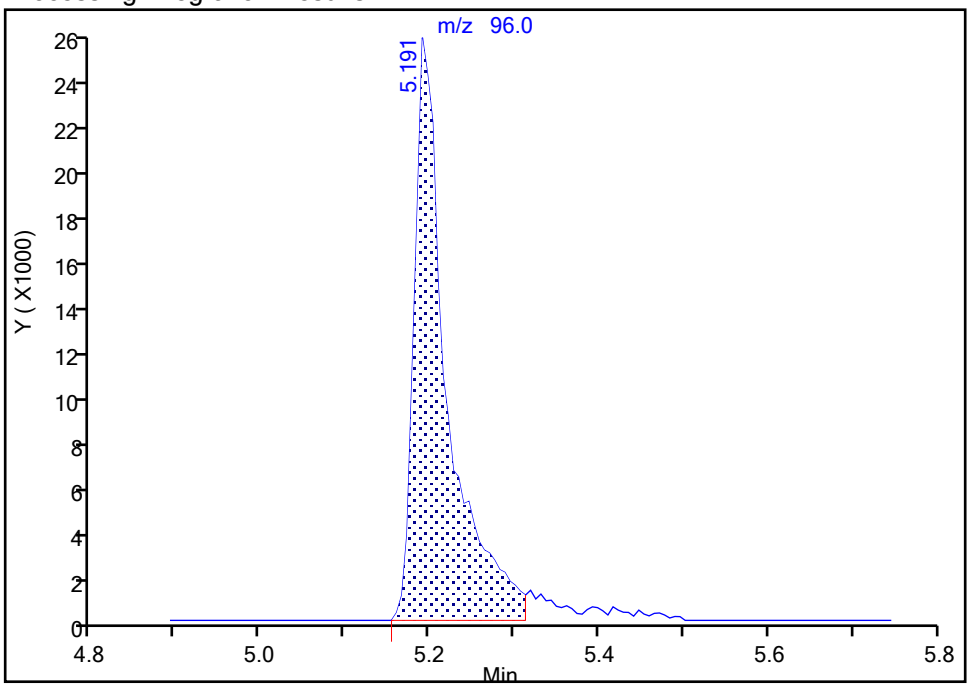
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

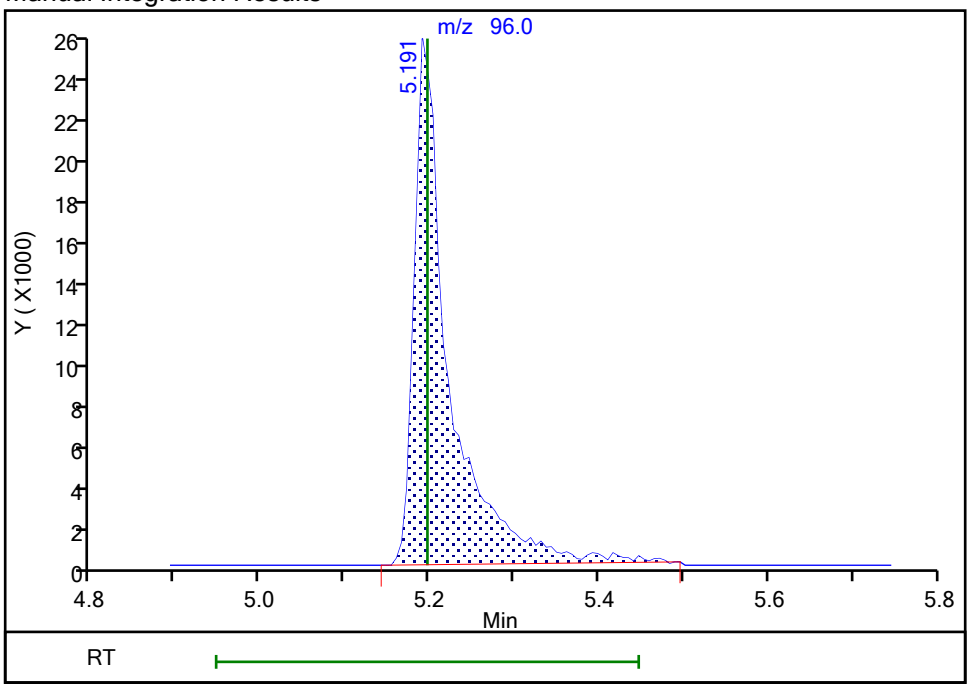
Processing Integration Results

RT: 5.19
Area: 68922
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 72444
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

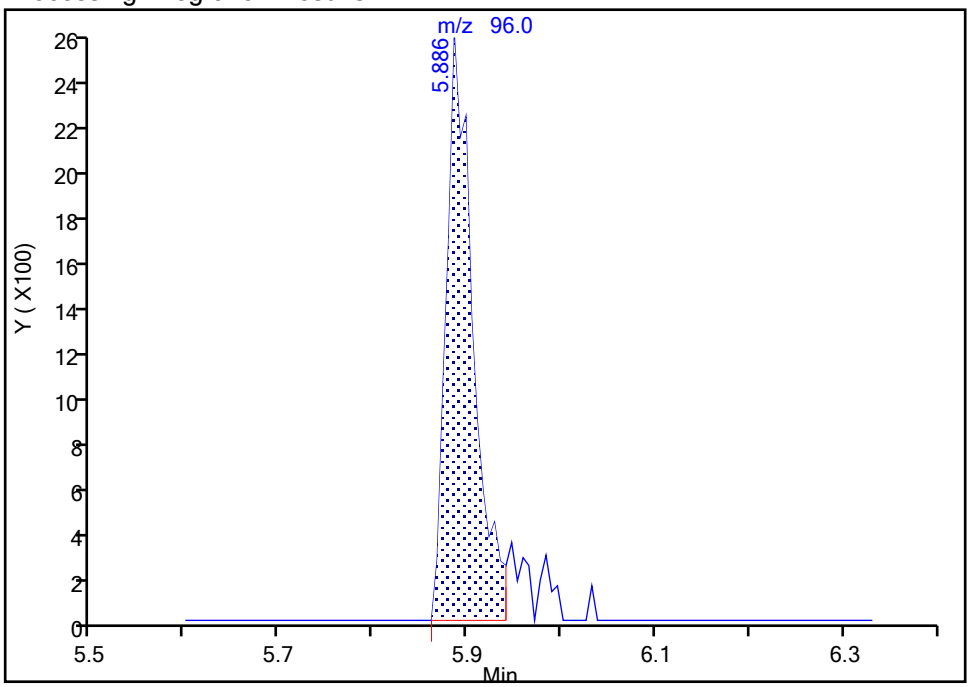
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3755.D
Injection Date: 09-Nov-2020 14:16:30 Instrument ID: Hobbes
Lims ID: std10
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

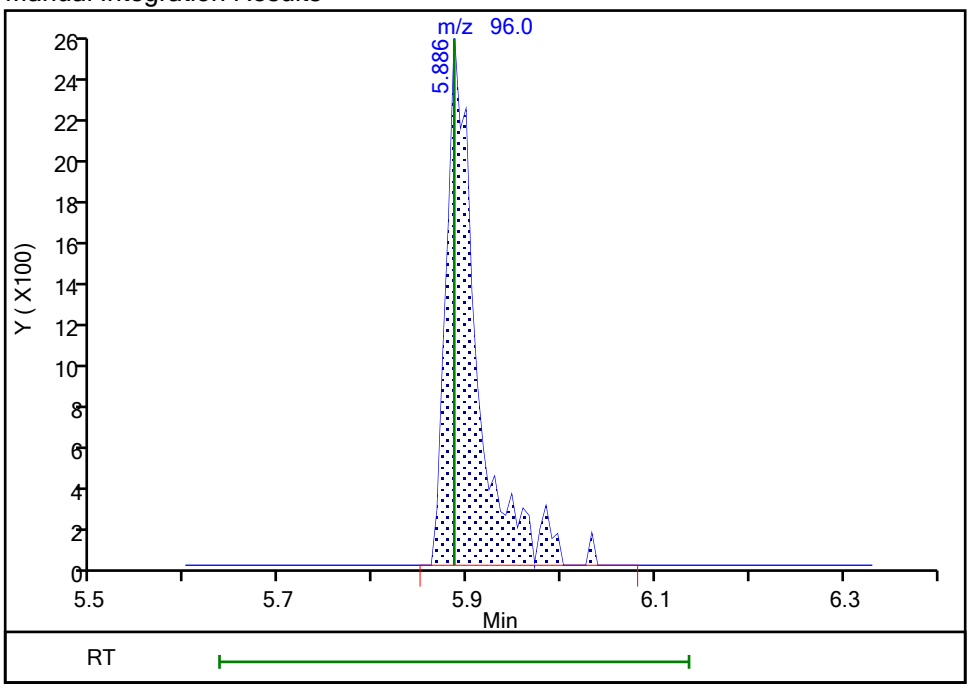
Processing Integration Results

RT: 5.89
Area: 4987
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5677
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:15:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 09-Nov-2020 14:38:30 ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:15:06 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:16:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.978	0.006	0	51572	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	74475	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.898	5.886	0.012	84	5636	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.336	0.001	90	62364	50.0	50.0	M
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	95	36535	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.557	4.551	0.006	92	16058	50.0	51.7	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	67326	50.0	48.0	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	23681	50.0	50.4	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	98	665219	250.0	262.1	
10 Chloromethane	50	1.265	1.265	0.000	99	1729253	250.0	255.9	
11 Vinyl chloride	62	1.350	1.350	0.000	97	949502	250.0	250.4	
12 Butadiene	54	1.387	1.387	0.000	95	1166049	250.0	270.4	
13 Bromomethane	94	1.612	1.618	-0.006	91	282787	250.0	233.3	M
14 Chloroethane	64	1.704	1.710	-0.006	93	405158	250.0	229.5	M
15 Dichlorofluoromethane	67	1.893	1.899	-0.006	97	847723	250.0	261.0	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	98	706308	250.0	248.7	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

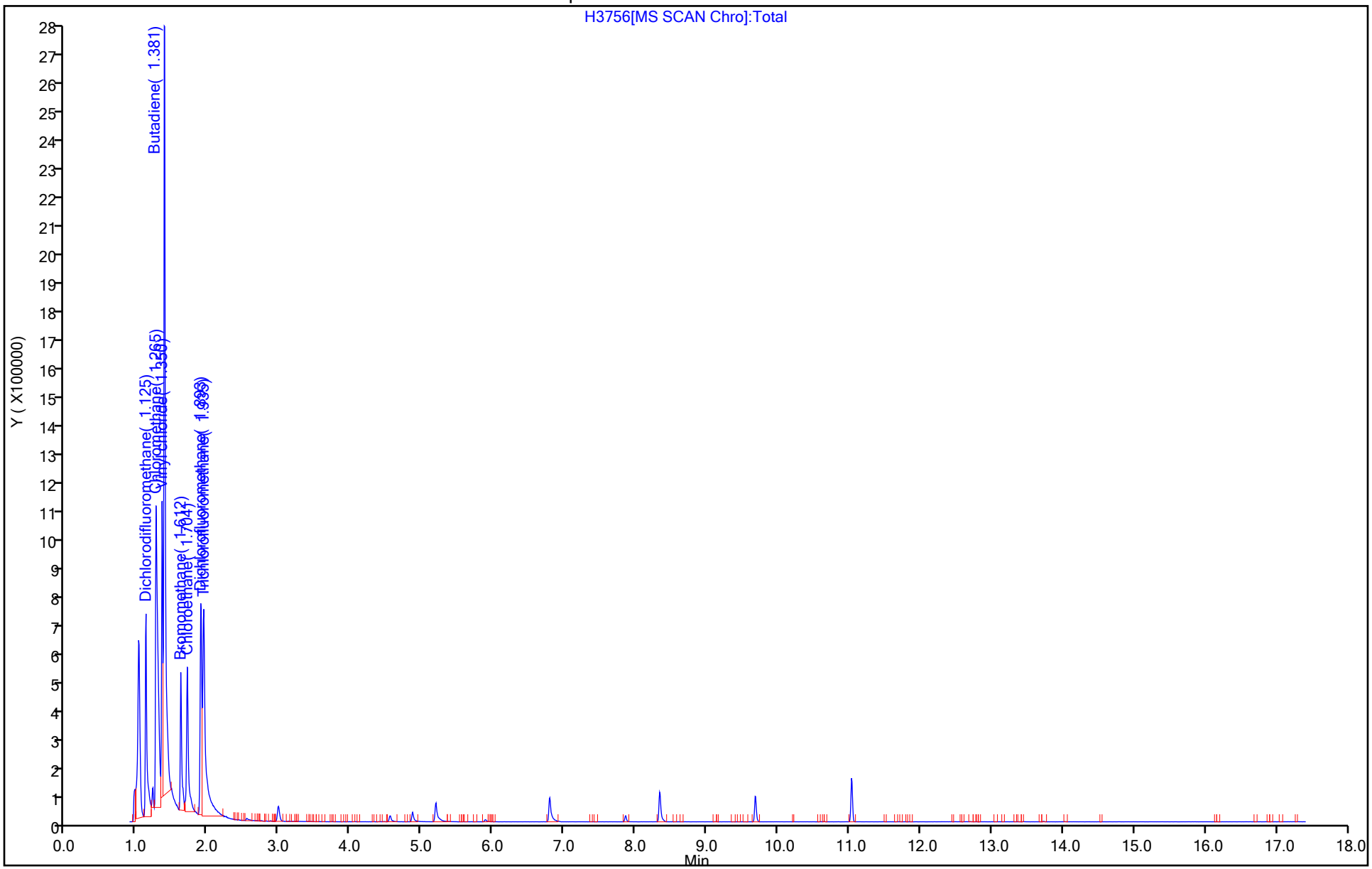
VV_I_GASES_00413 Amount Added: 250.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:15:08 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D

Injection Date:	09-Nov-2020 14:38:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std11			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

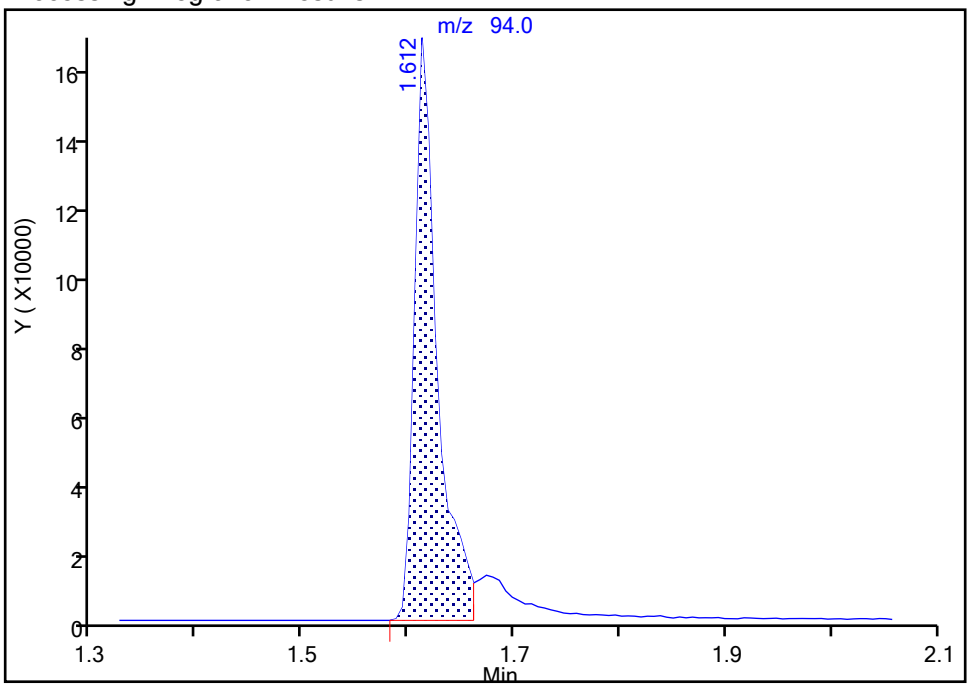
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

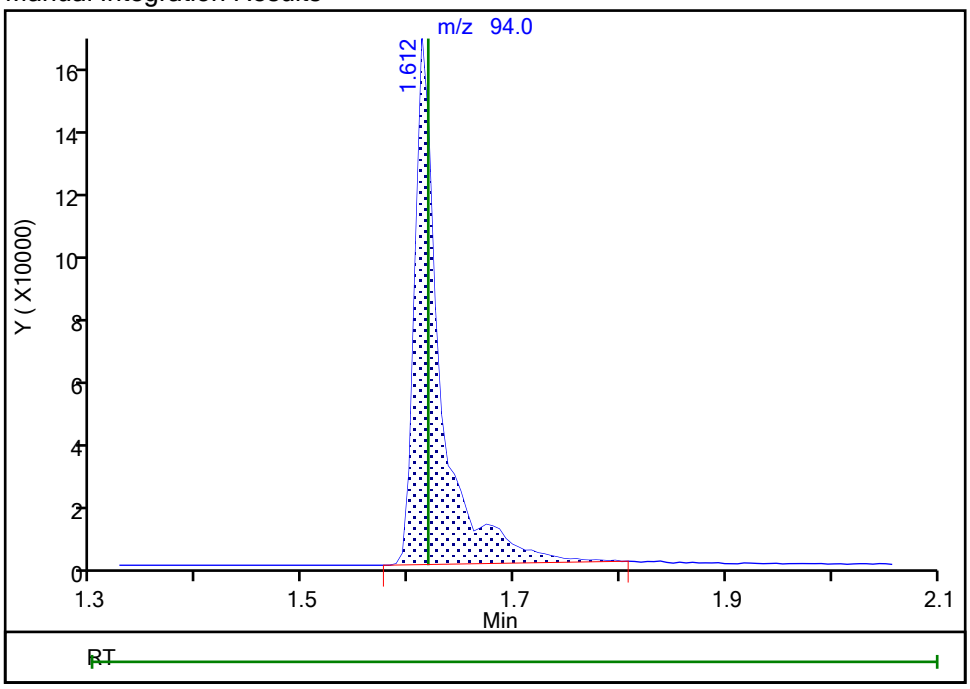
Processing Integration Results

RT: 1.61
Area: 251550
Amount: 210.1325
Amount Units: ug/l



Manual Integration Results

RT: 1.61
Area: 282787
Amount: 233.2575
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:37
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

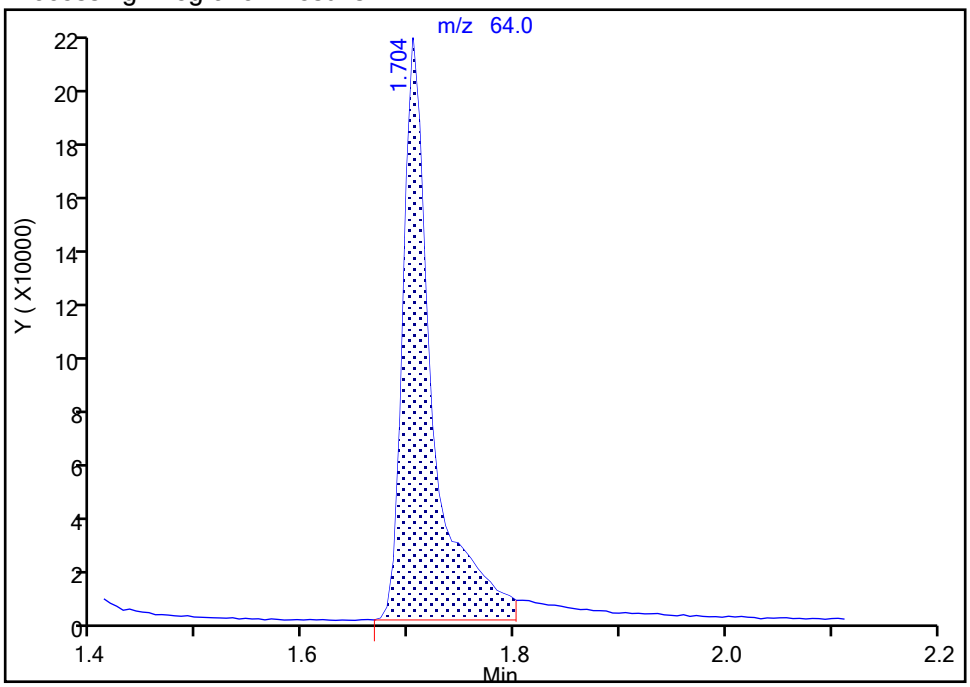
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

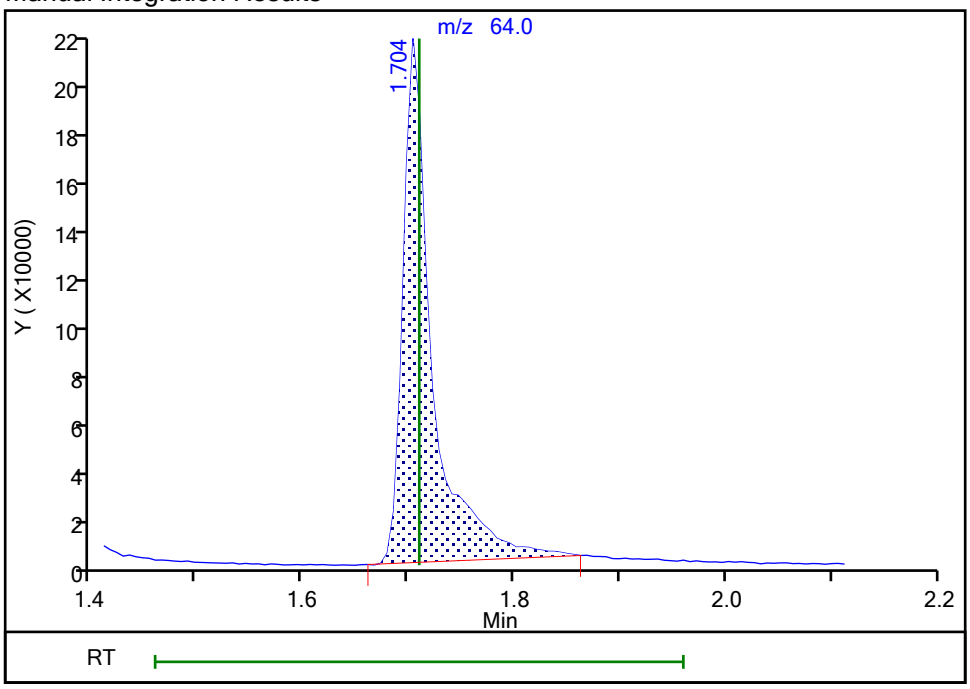
Processing Integration Results

RT: 1.70
Area: 409493
Amount: 227.5160
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 405158
Amount: 229.5151
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

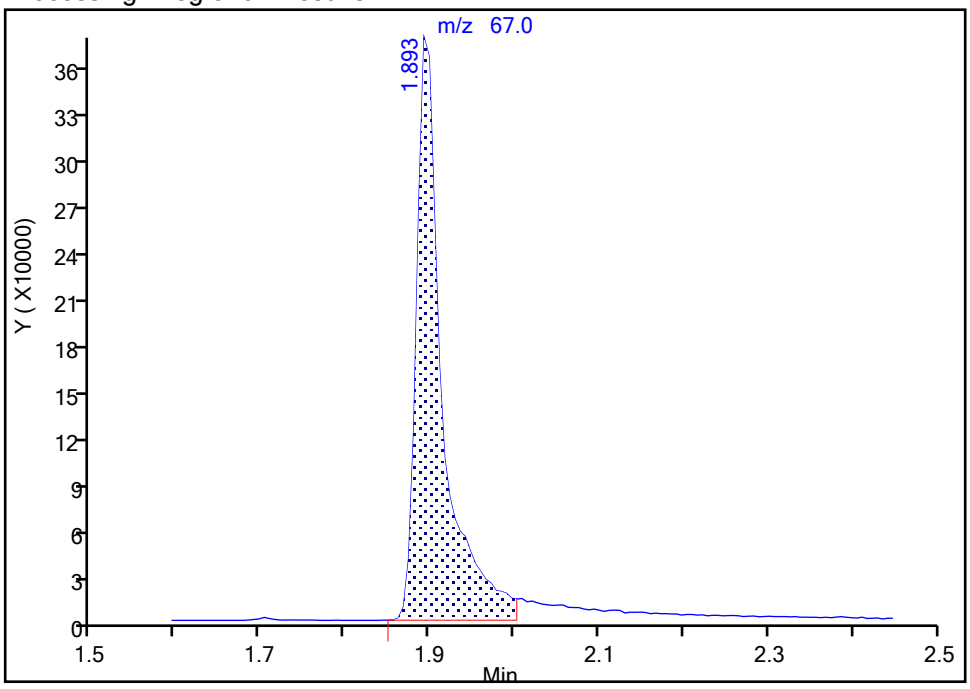
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

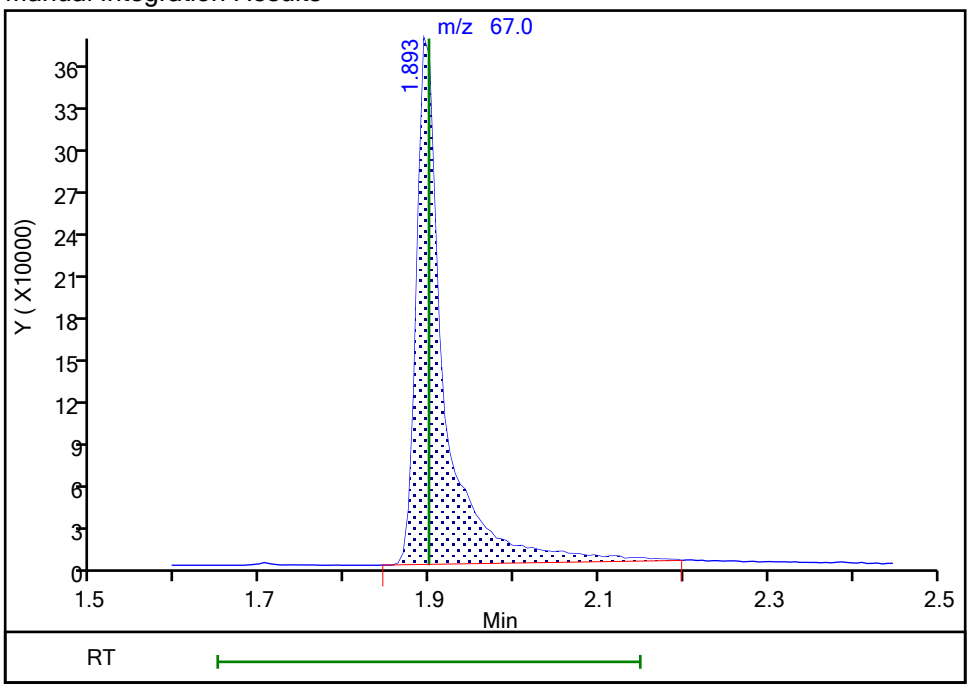
Processing Integration Results

RT: 1.89
Area: 800097
Amount: 240.0609
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 847723
Amount: 261.0176
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

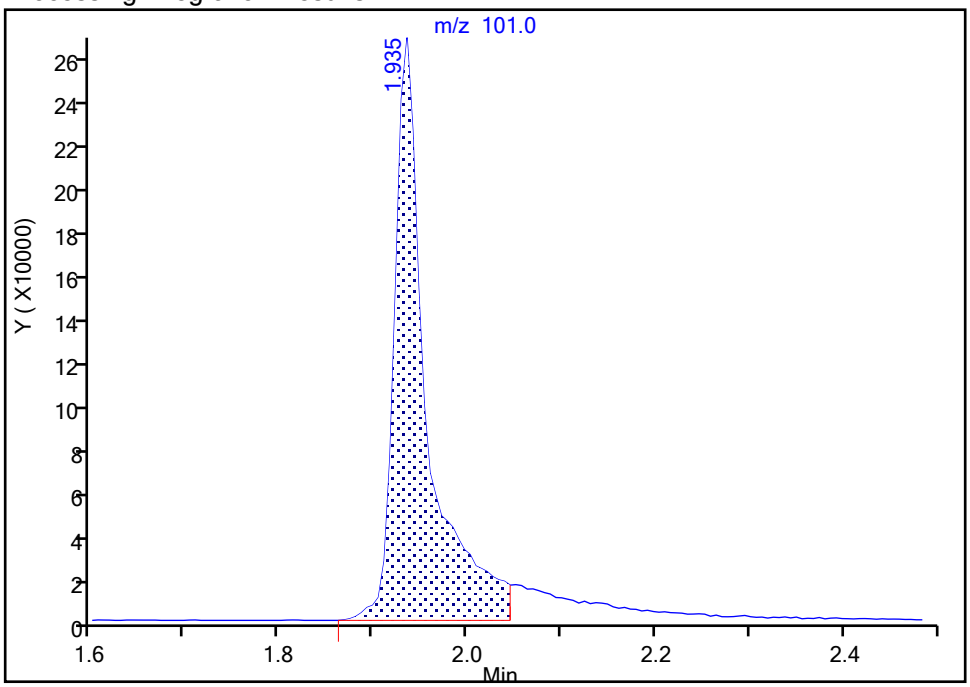
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

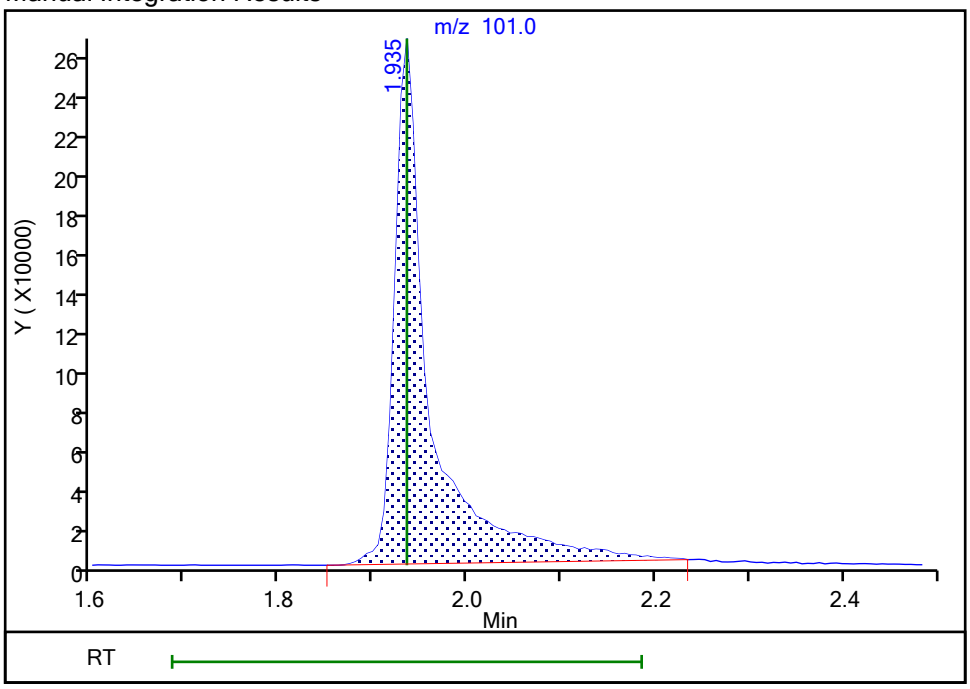
Processing Integration Results

RT: 1.94
Area: 648471
Amount: 236.1758
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 706308
Amount: 248.6918
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

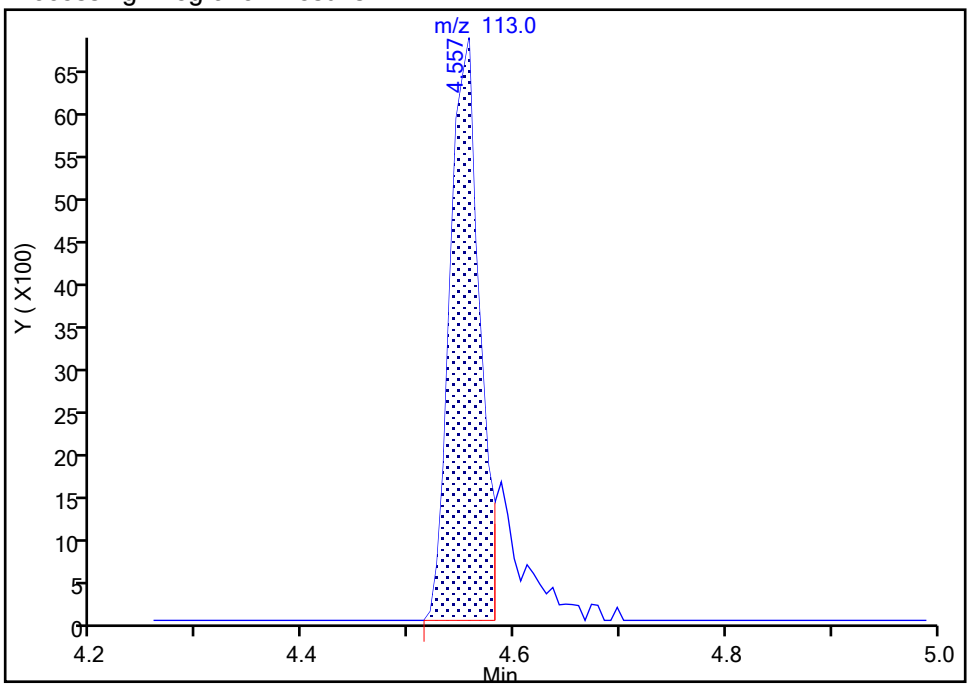
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

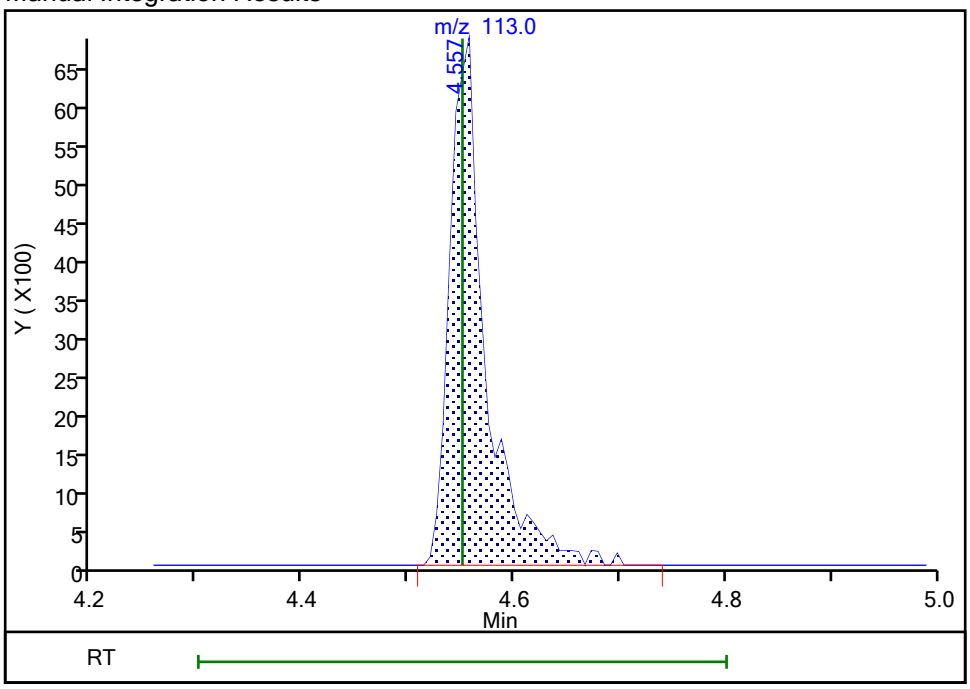
Processing Integration Results

RT: 4.56
Area: 13277
Amount: 42.836730
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 16058
Amount: 51.743635
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

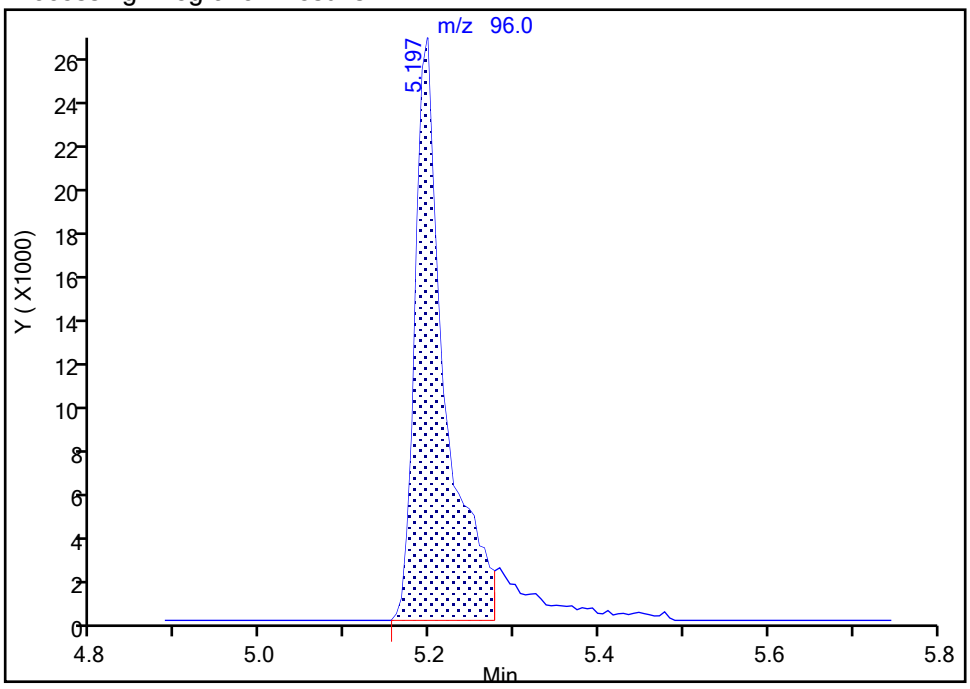
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

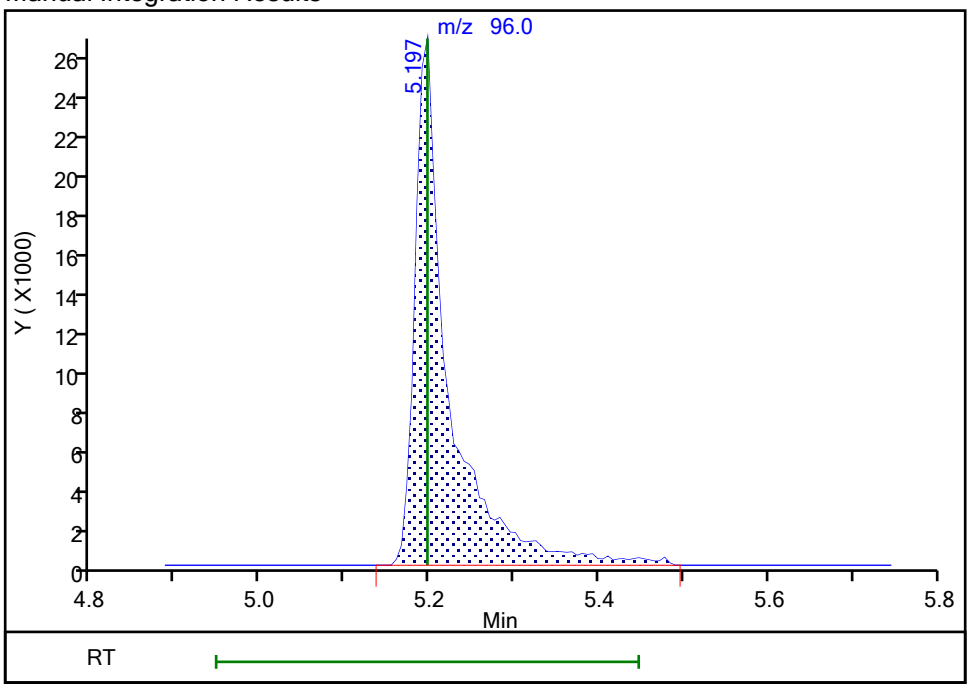
Processing Integration Results

RT: 5.20
Area: 65554
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 74475
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

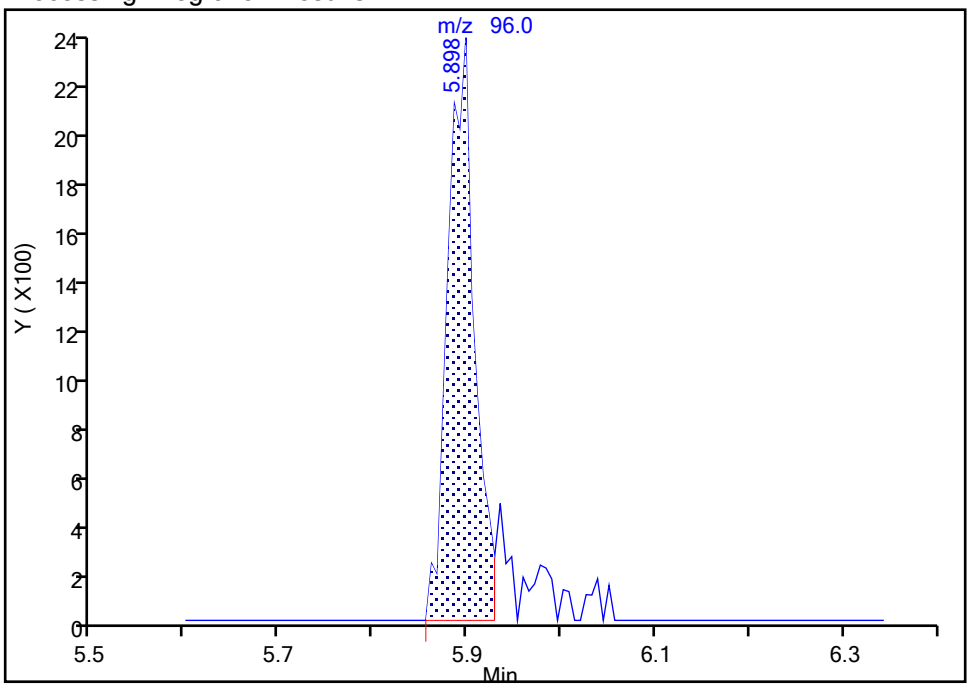
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

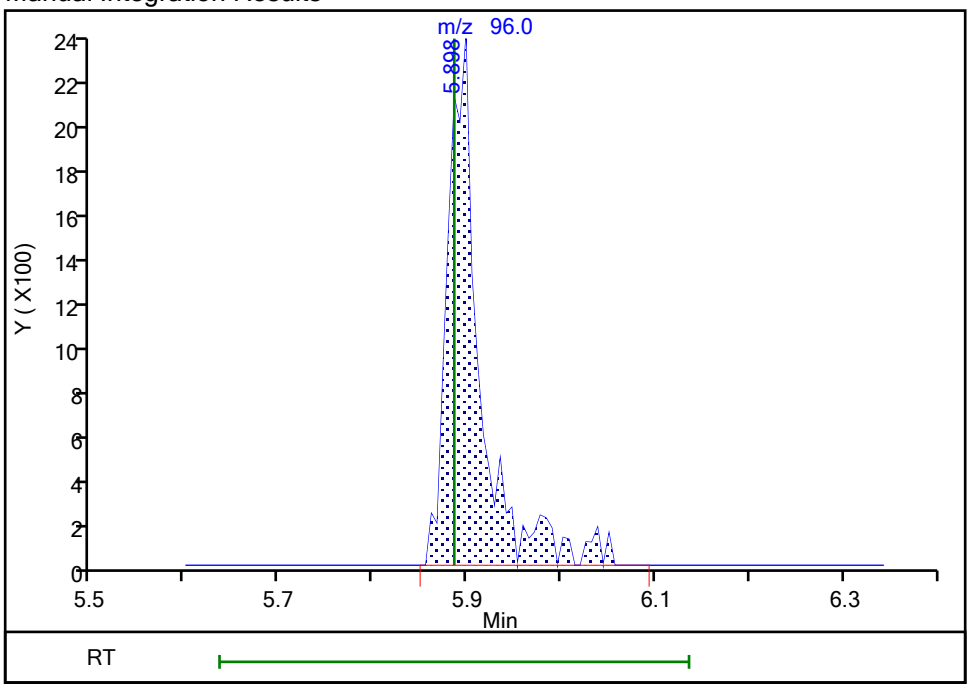
Processing Integration Results

RT: 5.90
Area: 4629
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.90
Area: 5636
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

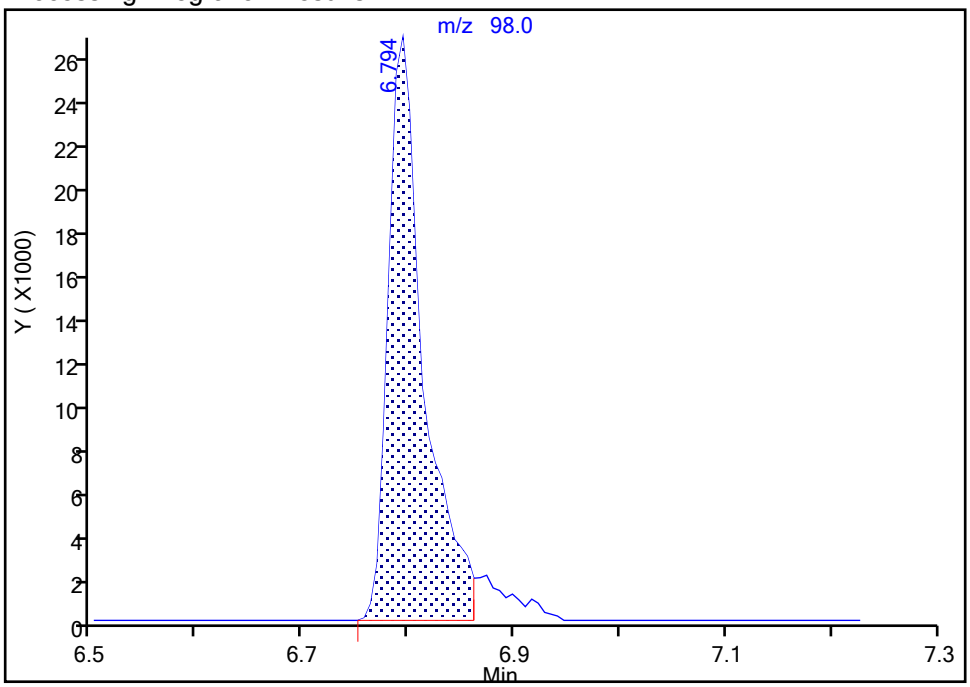
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

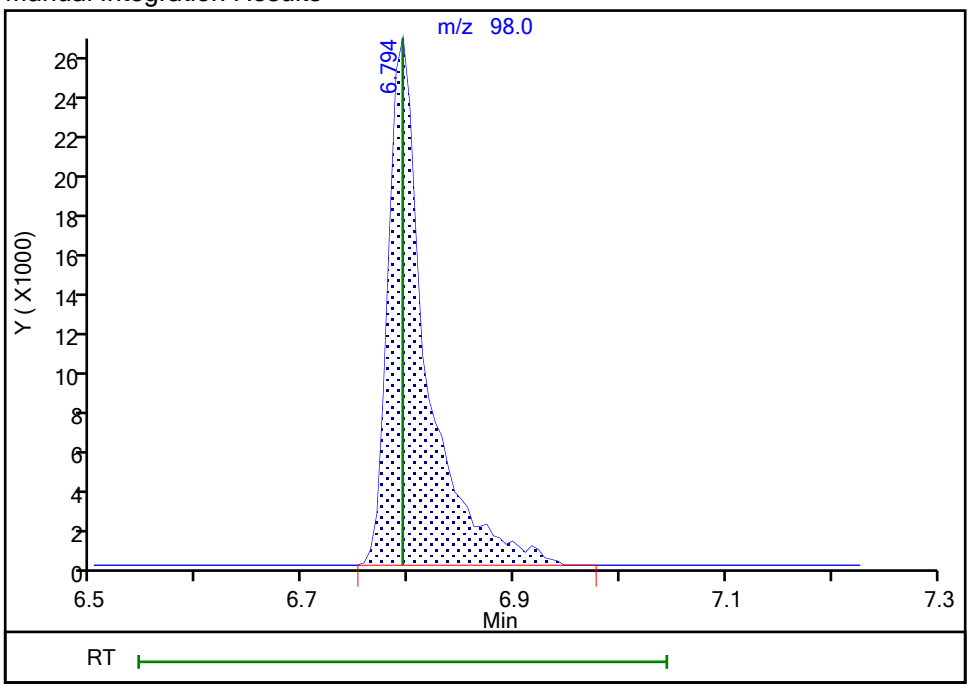
Processing Integration Results

RT: 6.79
Area: 62465
Amount: 44.973810
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 67326
Amount: 48.037046
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

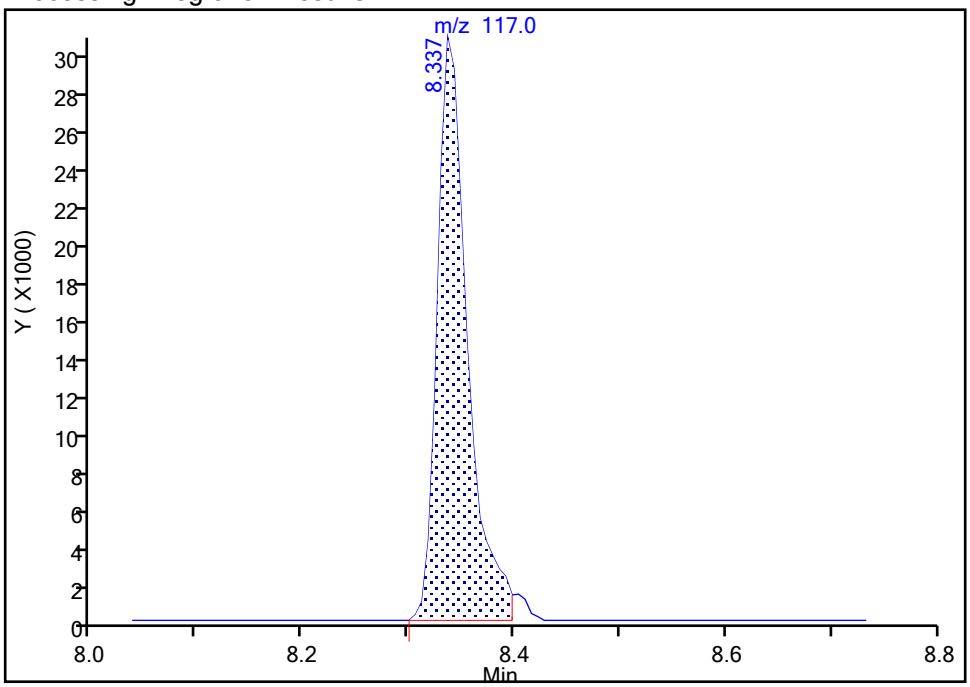
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3756.D
Injection Date: 09-Nov-2020 14:38:30 Instrument ID: Hobbes
Lims ID: std11
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 3 Chlorobenzene-d5, CAS: 3114-55-4

Signal: 1

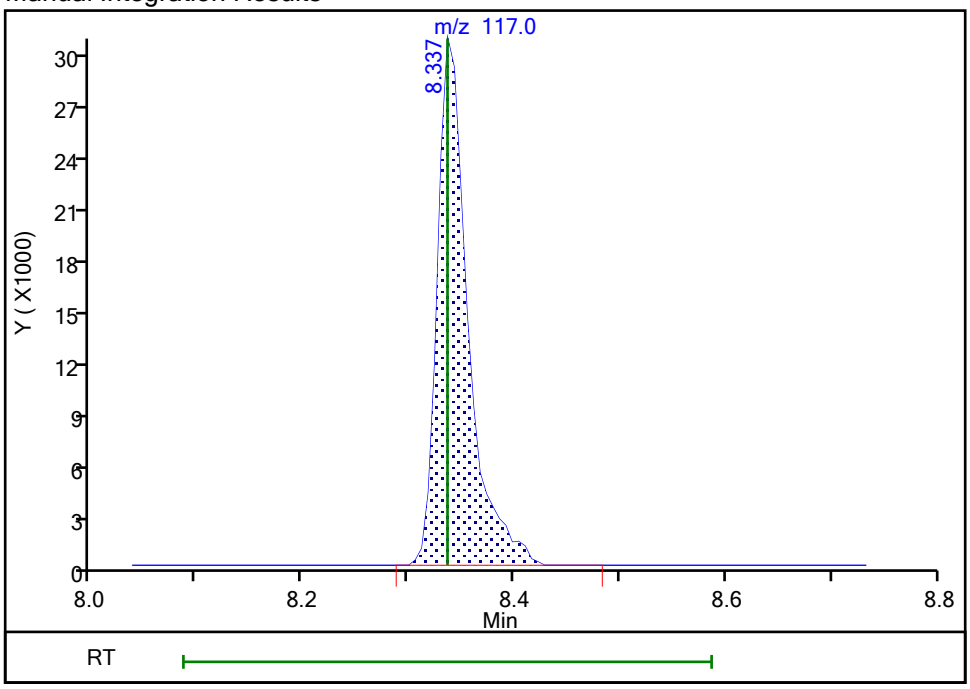
Processing Integration Results

RT: 8.34
Area: 61231
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 8.34
Area: 62364
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:16:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 09-Nov-2020 15:00:30 ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub55

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:15:11 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:18:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.990	2.978	0.012	0	50434	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.197	-0.006	97	73904	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.886	0.006	79	4980	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.336	0.001	90	63989	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	95	36610	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	91	15866	50.0	51.5	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	69024	50.0	48.0	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	23217	50.0	49.3	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	97	1335015	500.0	530.1	
10 Chloromethane	50	1.265	1.265	0.000	99	3540438	500.0	528.0	
11 Vinyl chloride	62	1.350	1.350	0.000	97	1965069	500.0	522.3	
12 Butadiene	54	1.387	1.387	0.000	95	2538103	500.0	593.2	
13 Bromomethane	94	1.612	1.618	-0.006	92	571958	500.0	475.4	M
14 Chloroethane	64	1.704	1.710	-0.006	95	886913	500.0	506.3	M
15 Dichlorofluoromethane	67	1.899	1.899	0.000	97	1776726	500.0	551.3	M
16 Trichlorofluoromethane	101	1.935	1.935	0.000	98	1452766	500.0	515.5	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

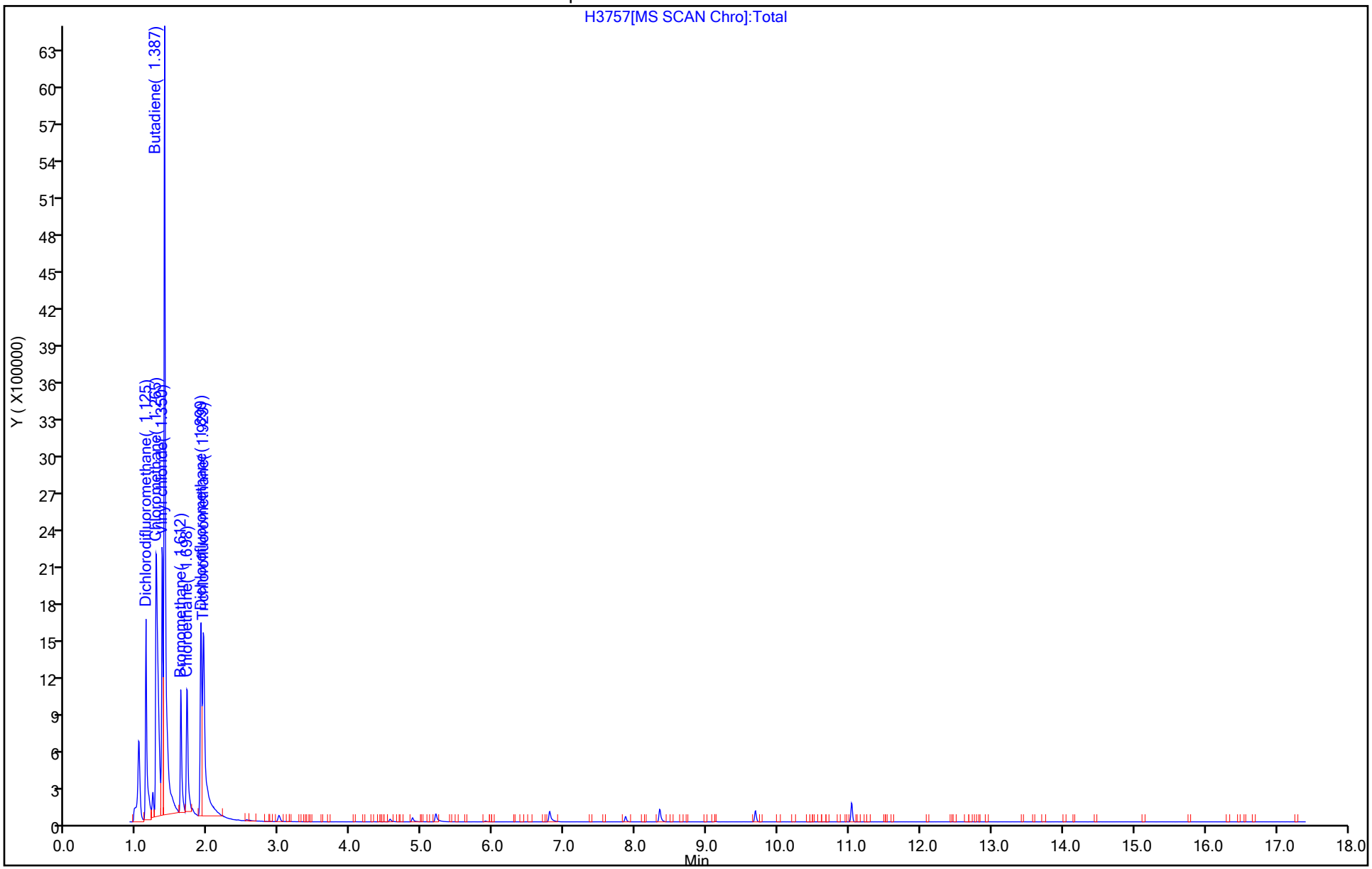
VV_I_GASES_00413 Amount Added: 500.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:15:12 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Injection Date:	09-Nov-2020 15:00:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	std12			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

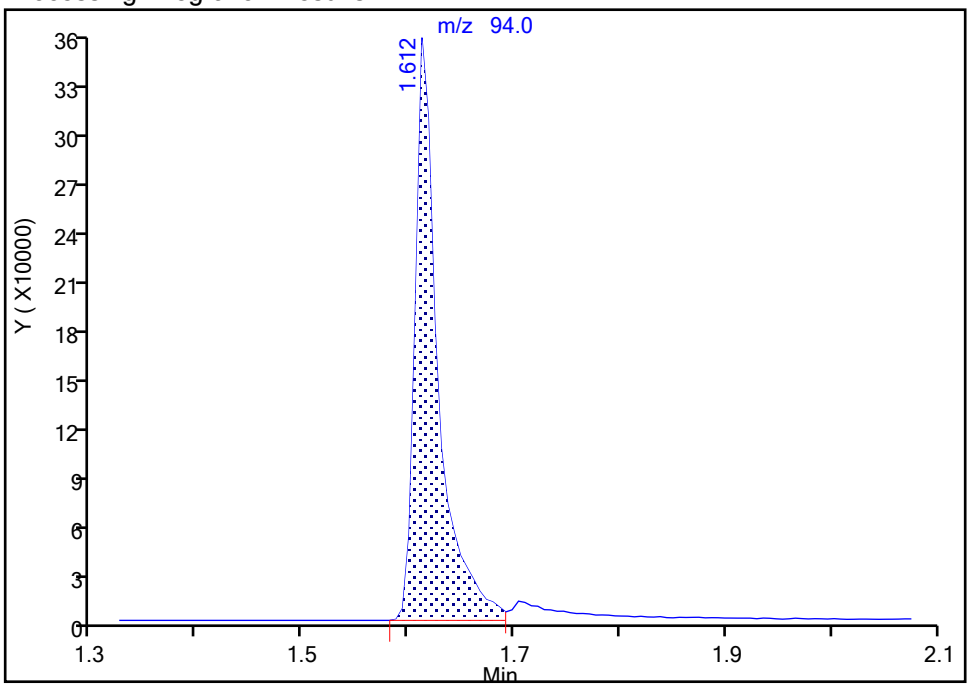
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

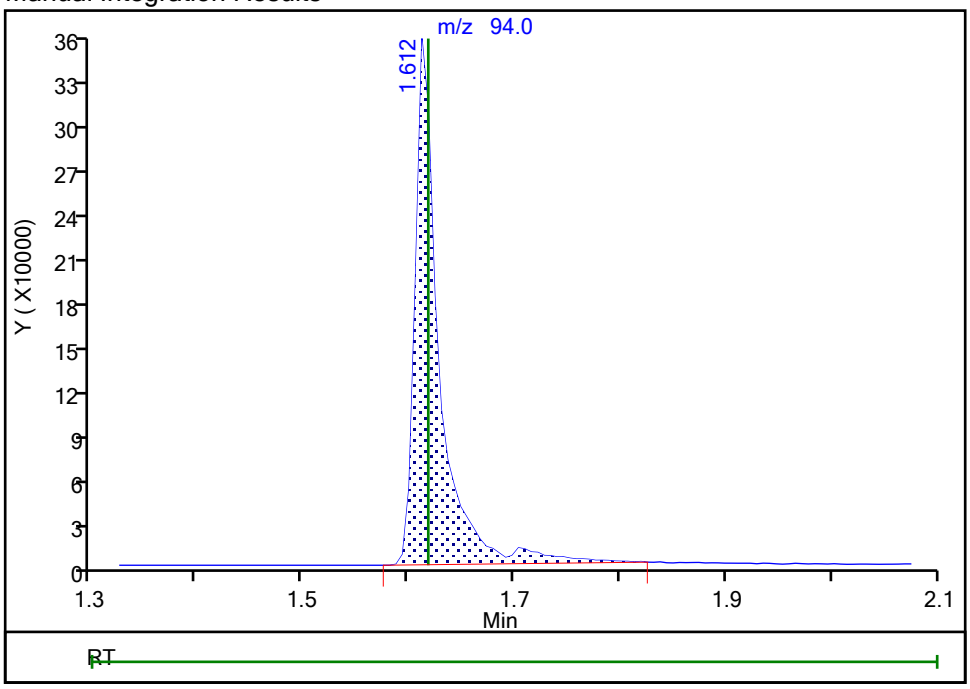
Processing Integration Results

RT: 1.61
Area: 546704
Amount: 617.2191
Amount Units: ug/l



Manual Integration Results

RT: 1.61
Area: 571958
Amount: 475.4259
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

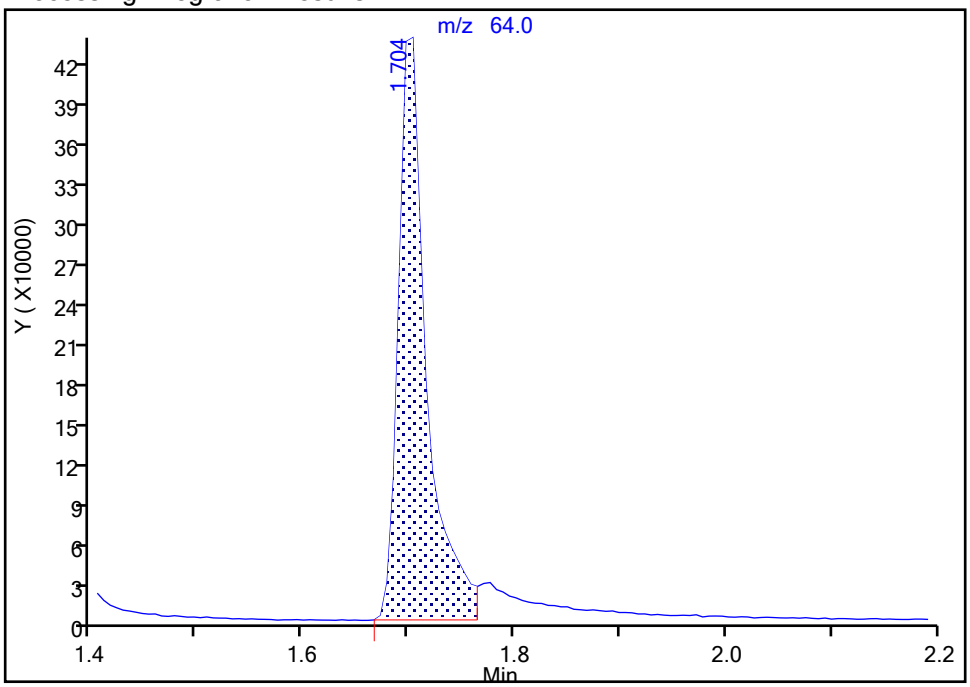
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

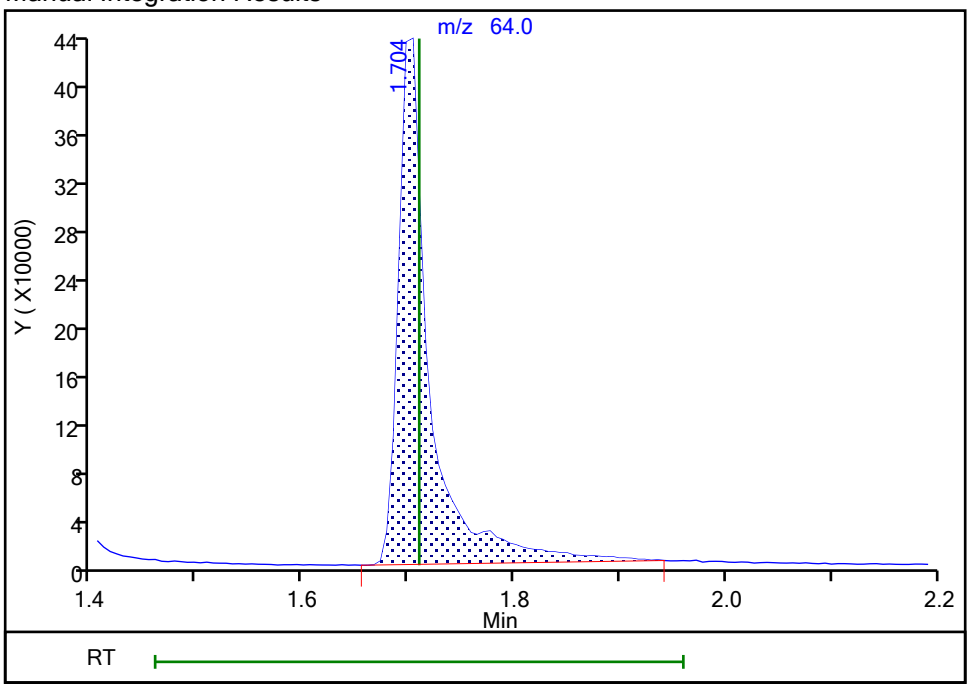
Processing Integration Results

RT: 1.70
Area: 801374
Amount: 607.4755
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 886913
Amount: 506.3029
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

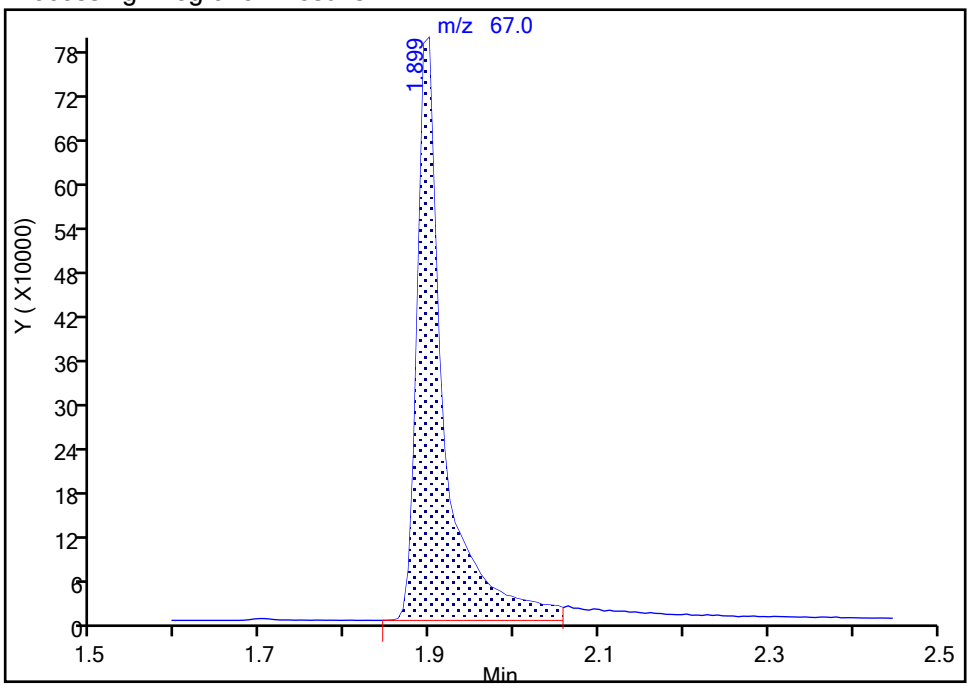
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

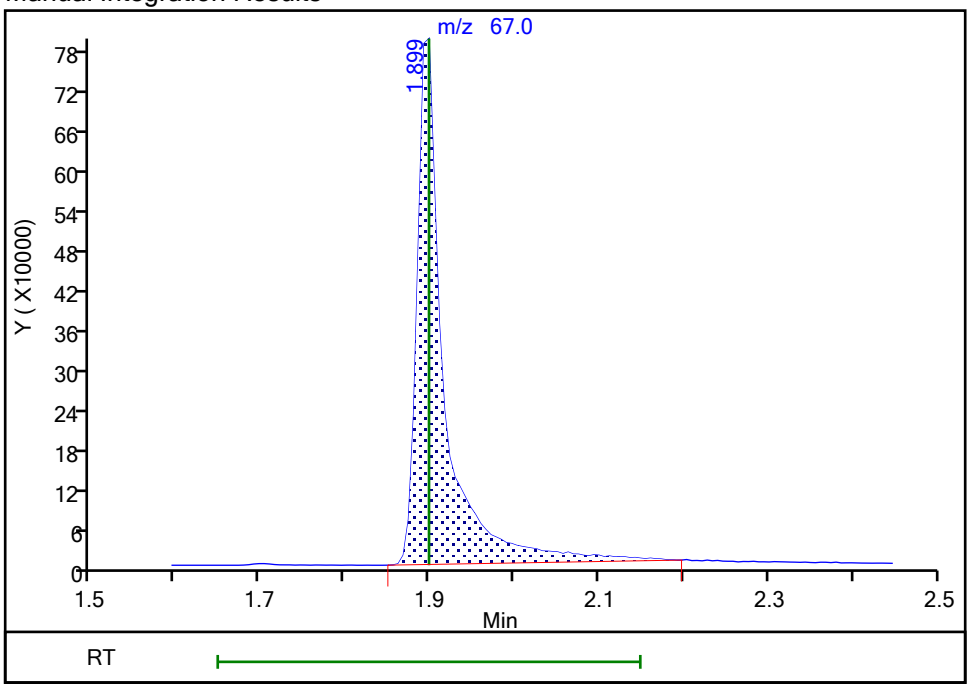
Processing Integration Results

RT: 1.90
Area: 1757907
Amount: 715.6328
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 1776726
Amount: 551.2885
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

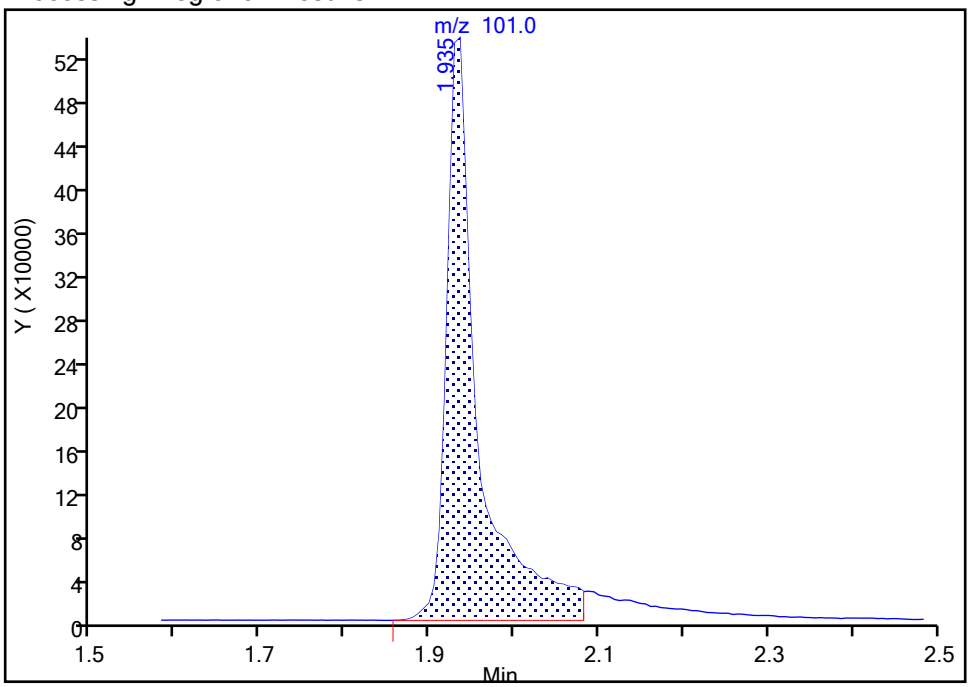
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

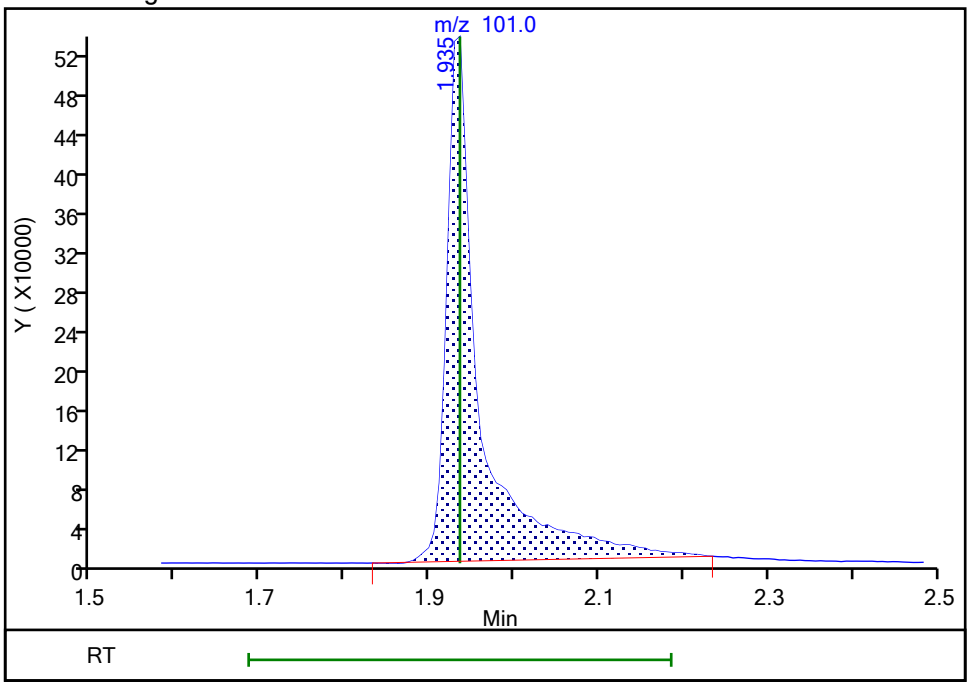
Processing Integration Results

RT: 1.94
Area: 1406049
Amount: 693.2435
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 1452766
Amount: 515.4727
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

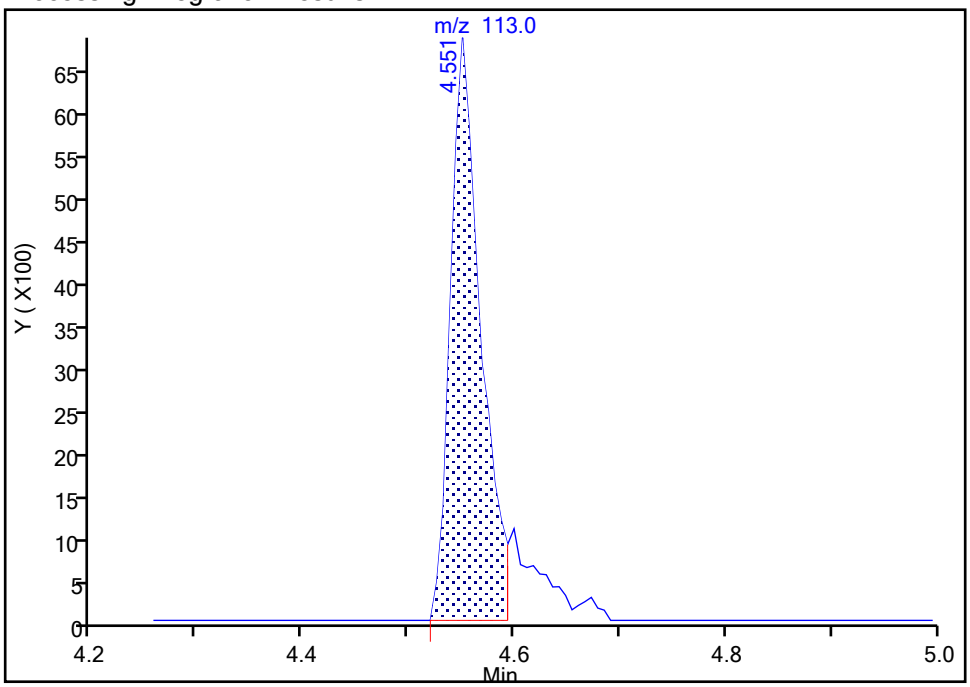
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

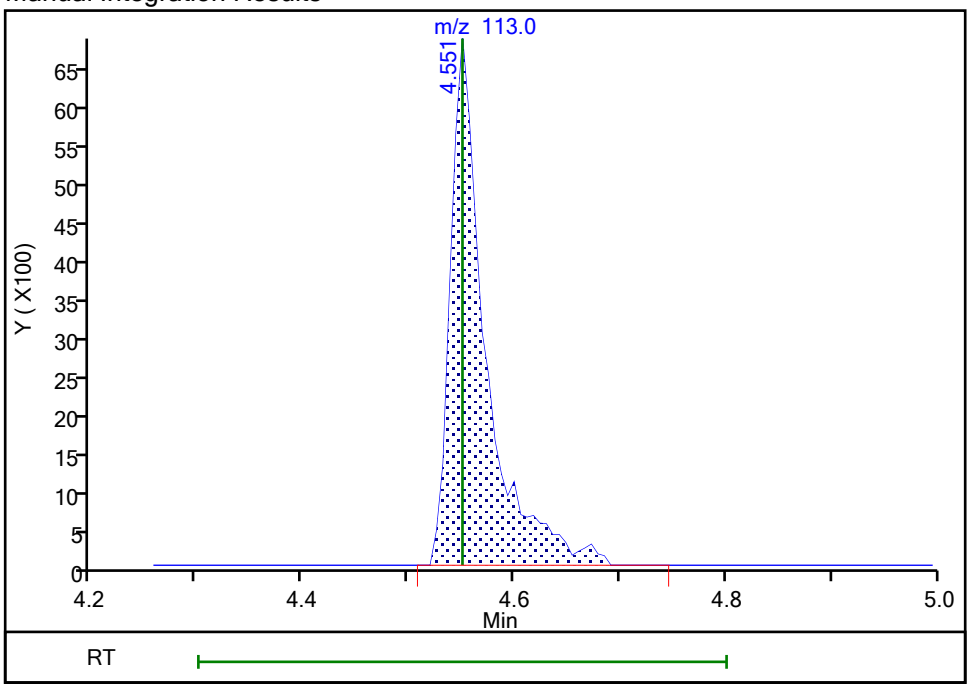
Processing Integration Results

RT: 4.55
Area: 13595
Amount: 58.915341
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 15866
Amount: 51.519957
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

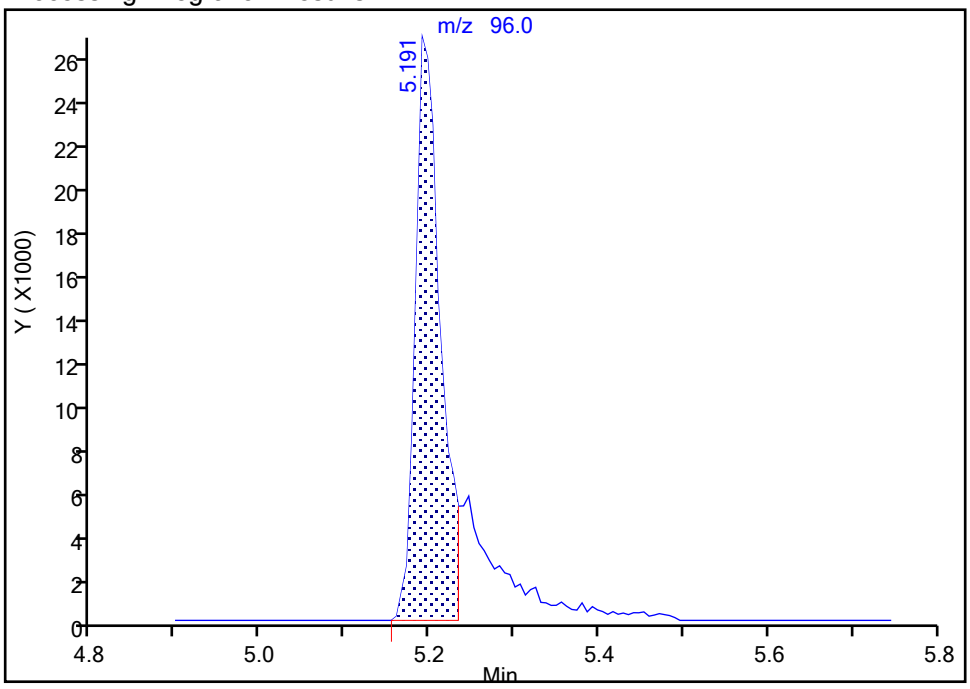
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

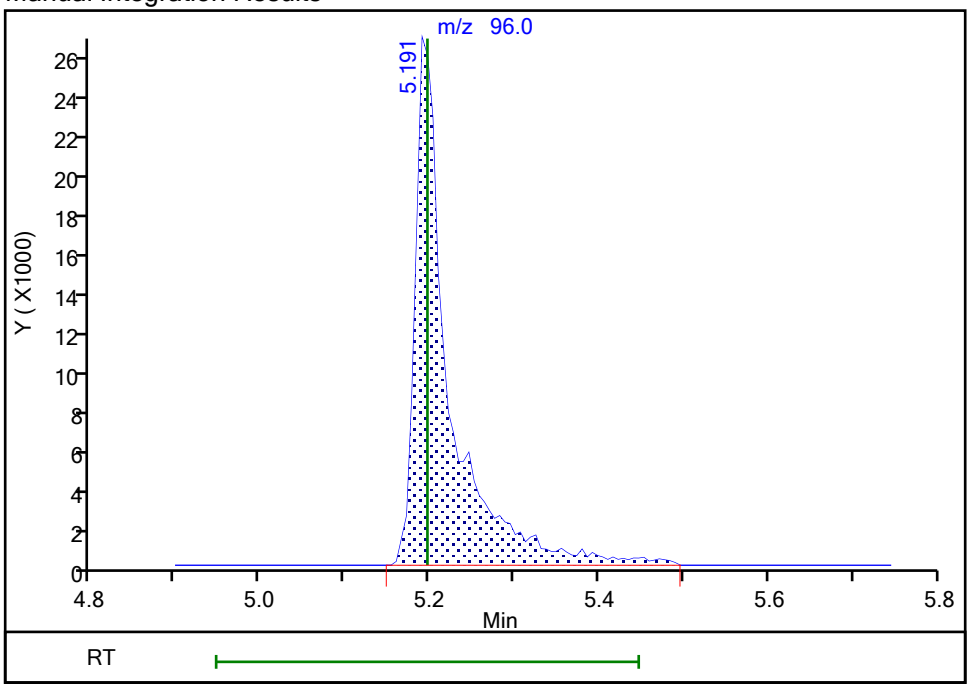
Processing Integration Results

RT: 5.19
Area: 54630
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 73904
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

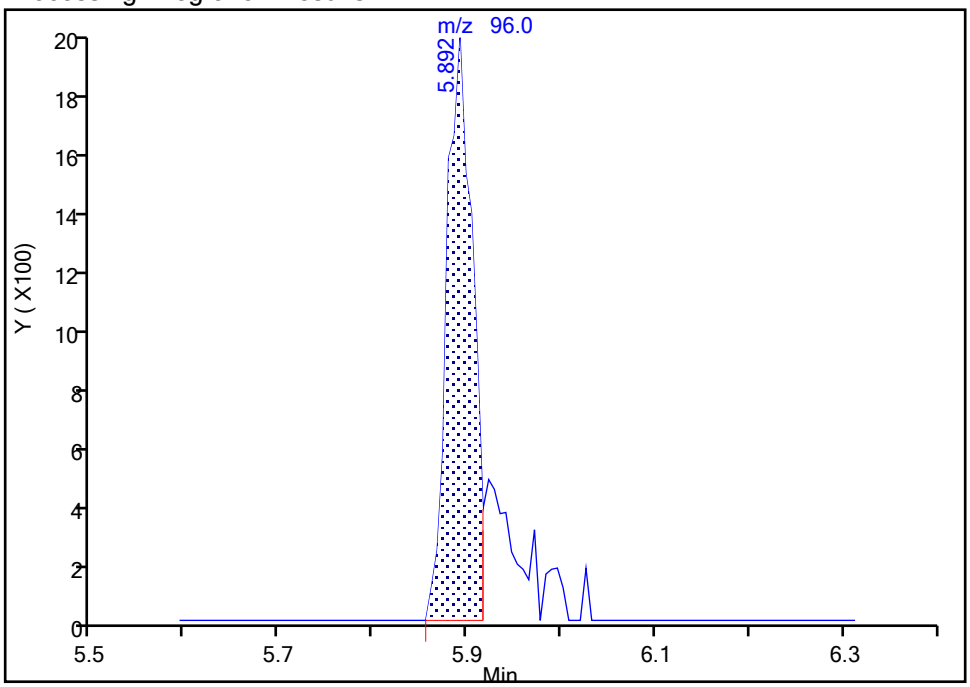
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

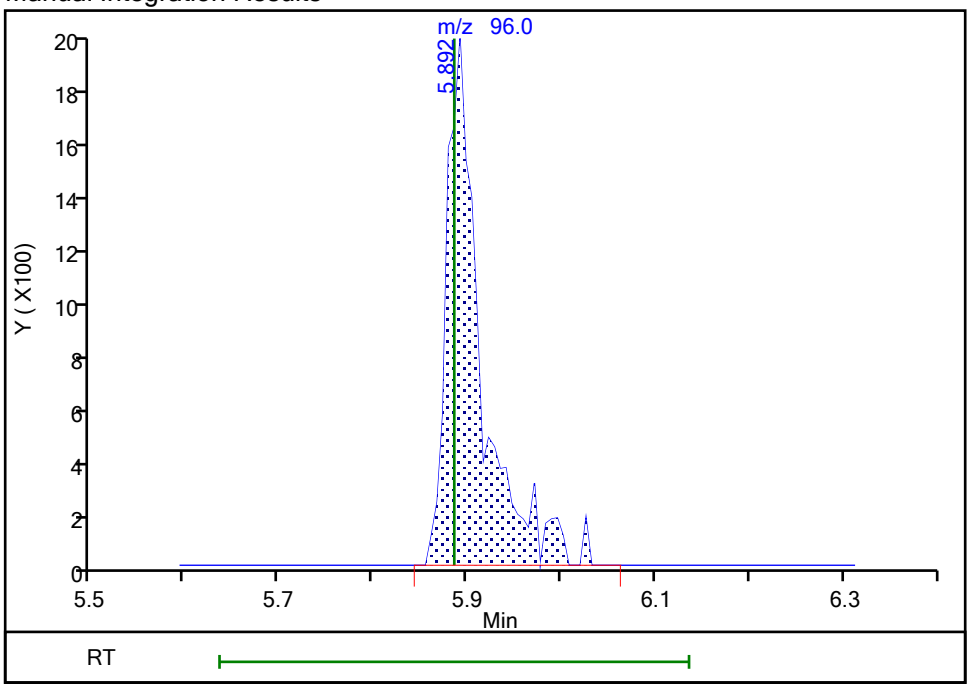
Processing Integration Results

RT: 5.89
Area: 3722
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 4980
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

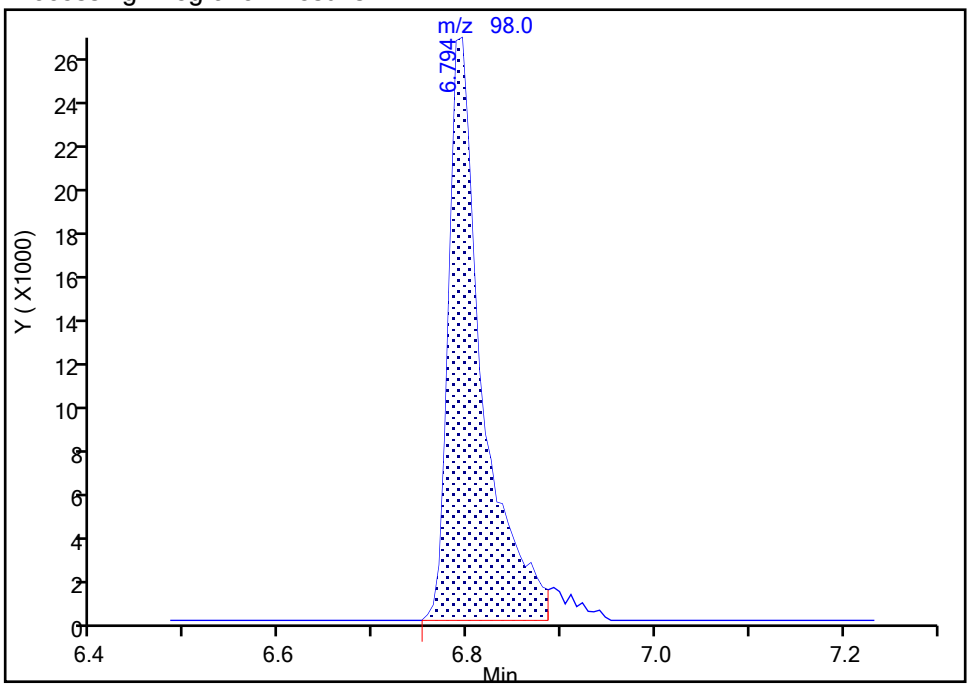
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D
Injection Date: 09-Nov-2020 15:00:30 Instrument ID: Hobbes
Lims ID: std12
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

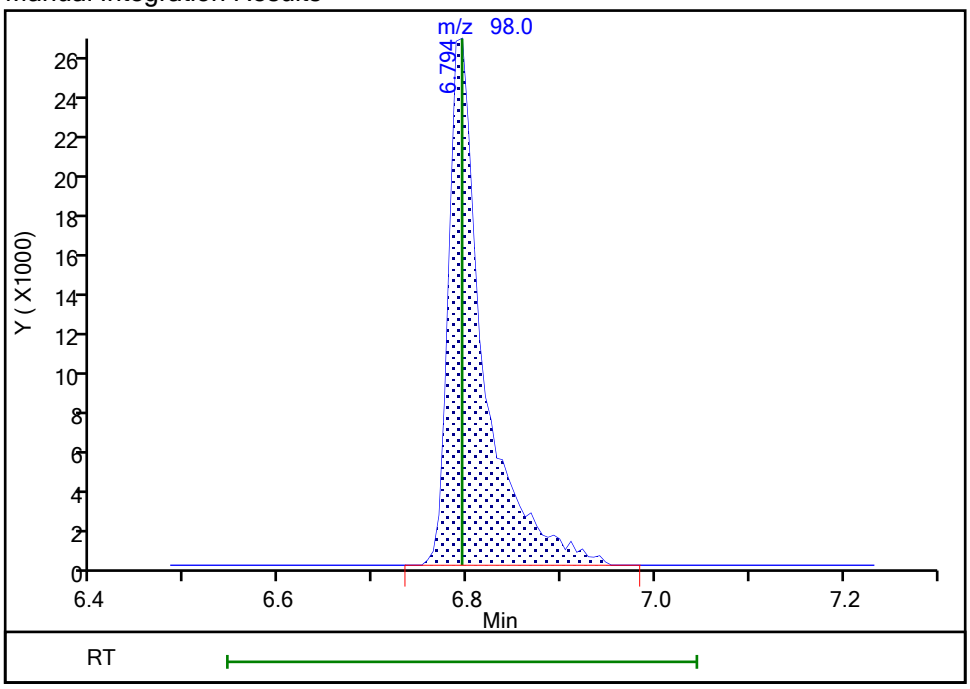
Processing Integration Results

RT: 6.79
Area: 66240
Amount: 46.211066
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 69024
Amount: 47.997901
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:17:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

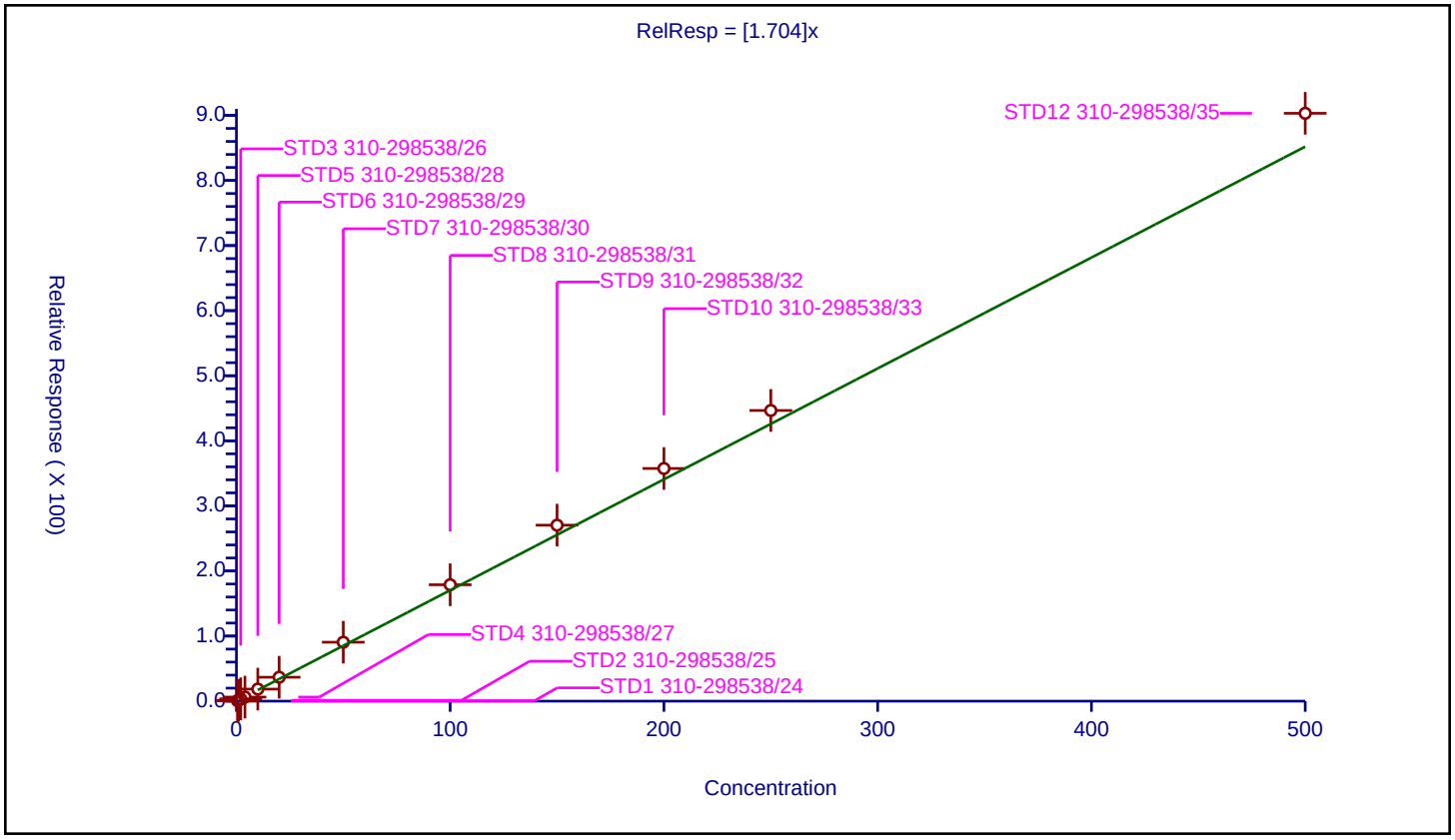
Curve Coefficients

Intercept:	0
Slope:	1.704

Error Coefficients

Standard Error:	500000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	0.67732	50.0	81350.0	1.35464	Y
2	STD2 310-298538/25	1.0	1.274126	50.0	79427.0	1.274126	Y
3	STD3 310-298538/26	2.0	3.573791	50.0	77089.0	1.786896	Y
4	STD4 310-298538/27	4.0	6.243153	50.0	75763.0	1.560788	Y
5	STD5 310-298538/28	10.0	18.53416	50.0	78733.0	1.853416	Y
6	STD6 310-298538/29	20.0	36.714886	50.0	78046.0	1.835744	Y
7	STD7 310-298538/30	50.0	90.523233	50.0	77843.0	1.810465	Y
8	STD8 310-298538/31	100.0	178.846608	50.0	76262.0	1.788466	Y
9	STD9 310-298538/32	150.0	270.391092	50.0	74356.0	1.802607	Y
10	STD10 310-298538/33	200.0	357.490613	50.0	72444.0	1.787453	Y
11	STD11 310-298538/34	250.0	446.605572	50.0	74475.0	1.786422	Y
12	STD12 310-298538/35	500.0	903.208893	50.0	73904.0	1.806418	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

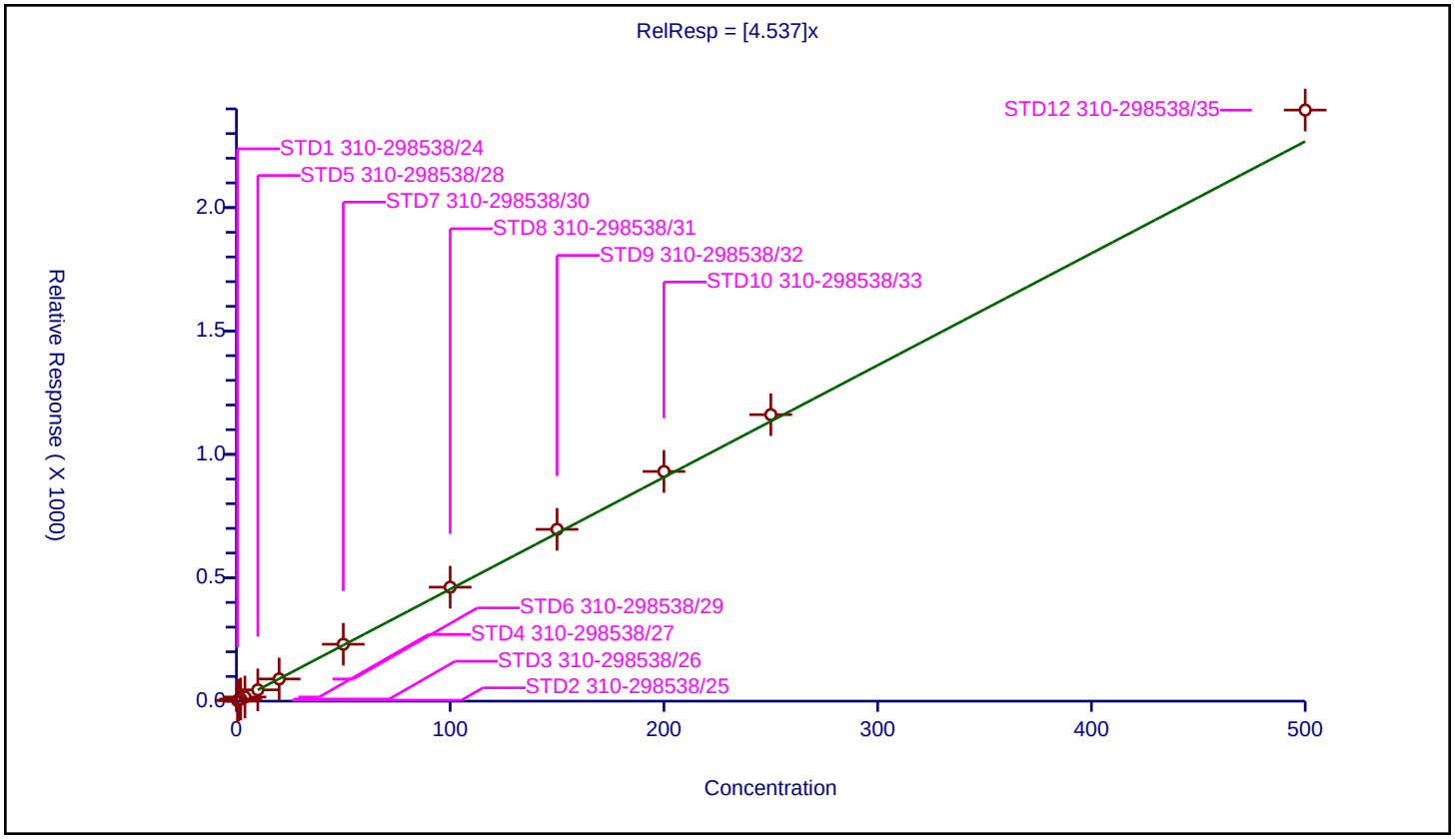
Curve Coefficients

Intercept:	0
Slope:	4.537

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	2.431469	50.0	81350.0	4.862938	Y
2	STD2 310-298538/25	1.0	3.993604	50.0	79427.0	3.993604	Y
3	STD3 310-298538/26	2.0	8.716548	50.0	77089.0	4.358274	Y
4	STD4 310-298538/27	4.0	16.738382	50.0	75763.0	4.184595	Y
5	STD5 310-298538/28	10.0	45.795918	50.0	78733.0	4.579592	Y
6	STD6 310-298538/29	20.0	89.984112	50.0	78046.0	4.499206	Y
7	STD7 310-298538/30	50.0	230.618039	50.0	77843.0	4.612361	Y
8	STD8 310-298538/31	100.0	461.88272	50.0	76262.0	4.618827	Y
9	STD9 310-298538/32	150.0	696.177847	50.0	74356.0	4.641186	Y
10	STD10 310-298538/33	200.0	930.685771	50.0	72444.0	4.653429	Y
11	STD11 310-298538/34	250.0	1160.962068	50.0	74475.0	4.643848	Y
12	STD12 310-298538/35	500.0	2395.295248	50.0	73904.0	4.79059	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

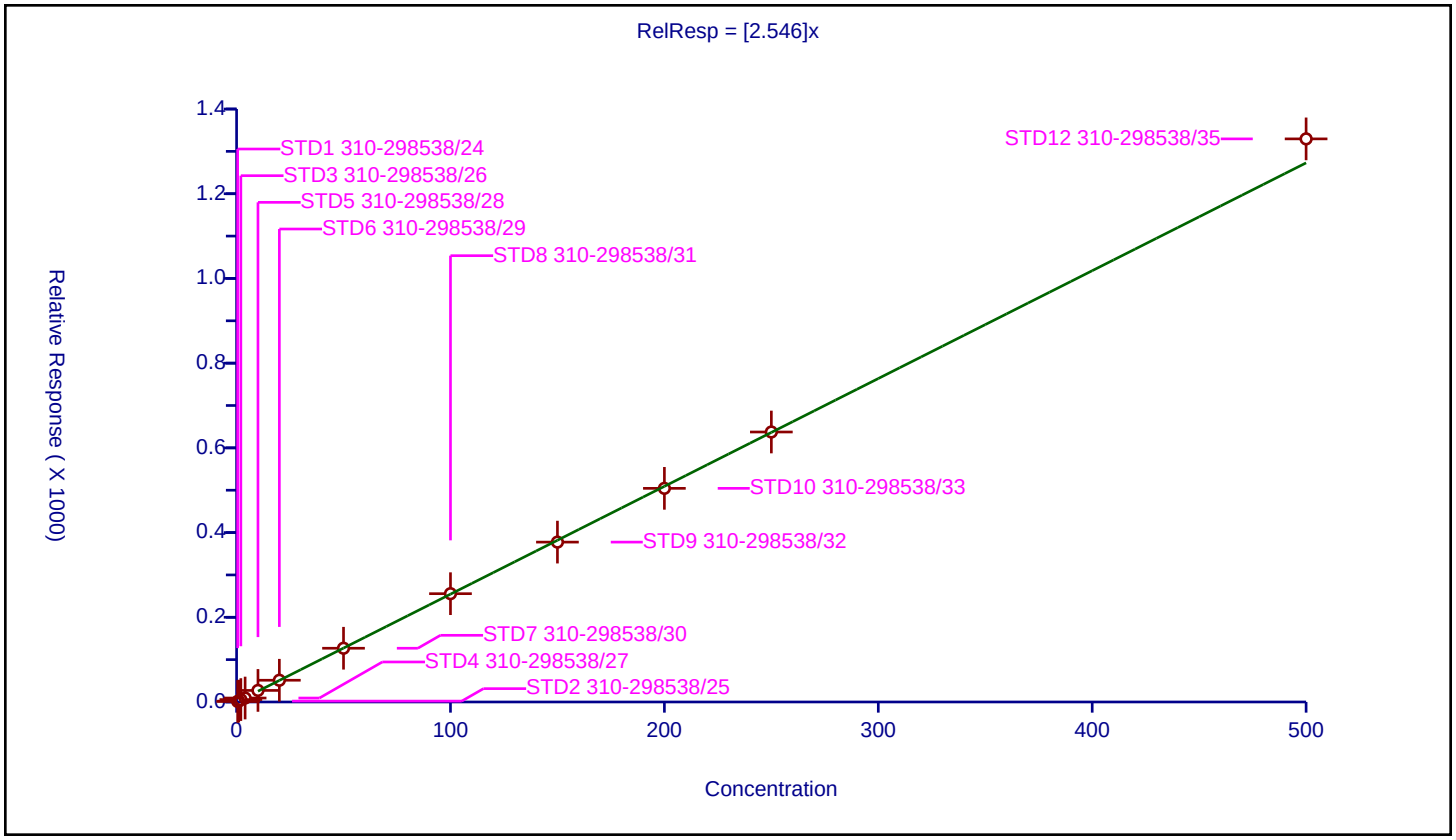
Curve Coefficients

Intercept:	0
Slope:	2.546

Error Coefficients

Standard Error:	726000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	1.301782	50.0	81350.0	2.603565	Y
2	STD2 310-298538/25	1.0	2.113261	50.0	79427.0	2.113261	Y
3	STD3 310-298538/26	2.0	5.723904	50.0	77089.0	2.861952	Y
4	STD4 310-298538/27	4.0	9.321173	50.0	75763.0	2.330293	Y
5	STD5 310-298538/28	10.0	27.285255	50.0	78733.0	2.728526	Y
6	STD6 310-298538/29	20.0	51.339595	50.0	78046.0	2.56698	Y
7	STD7 310-298538/30	50.0	126.915073	50.0	77843.0	2.538301	Y
8	STD8 310-298538/31	100.0	255.734835	50.0	76262.0	2.557348	Y
9	STD9 310-298538/32	150.0	377.475927	50.0	74356.0	2.516506	Y
10	STD10 310-298538/33	200.0	504.387527	50.0	72444.0	2.521938	Y
11	STD11 310-298538/34	250.0	637.463578	50.0	74475.0	2.549854	Y
12	STD12 310-298538/35	500.0	1329.474047	50.0	73904.0	2.658948	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

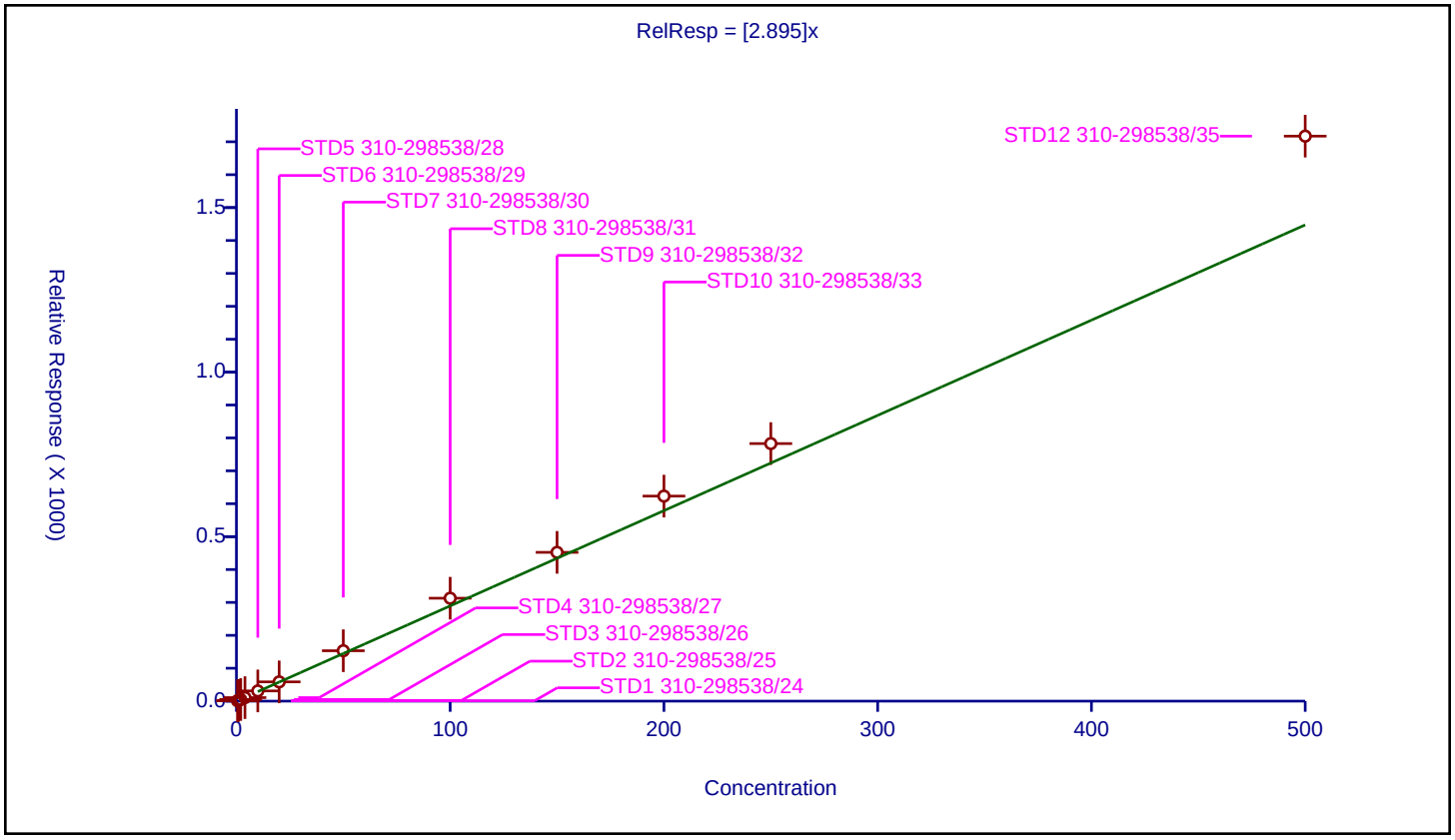
Curve Coefficients

Intercept:	0
Slope:	2.895

Error Coefficients

Standard Error:	922000
Relative Standard Error:	12.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	1.236632	50.0	81350.0	2.473264	Y
2	STD2 310-298538/25	1.0	2.161104	50.0	79427.0	2.161104	Y
3	STD3 310-298538/26	2.0	5.002011	50.0	77089.0	2.501005	Y
4	STD4 310-298538/27	4.0	10.740071	50.0	75763.0	2.685018	Y
5	STD5 310-298538/28	10.0	31.017489	50.0	78733.0	3.101749	Y
6	STD6 310-298538/29	20.0	58.539835	50.0	78046.0	2.926992	Y
7	STD7 310-298538/30	50.0	153.203242	50.0	77843.0	3.064065	Y
8	STD8 310-298538/31	100.0	312.802575	50.0	76262.0	3.128026	Y
9	STD9 310-298538/32	150.0	452.218382	50.0	74356.0	3.014789	Y
10	STD10 310-298538/33	200.0	623.198609	50.0	72444.0	3.115993	Y
11	STD11 310-298538/34	250.0	782.845921	50.0	74475.0	3.131384	Y
12	STD12 310-298538/35	500.0	1717.162129	50.0	73904.0	3.434324	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

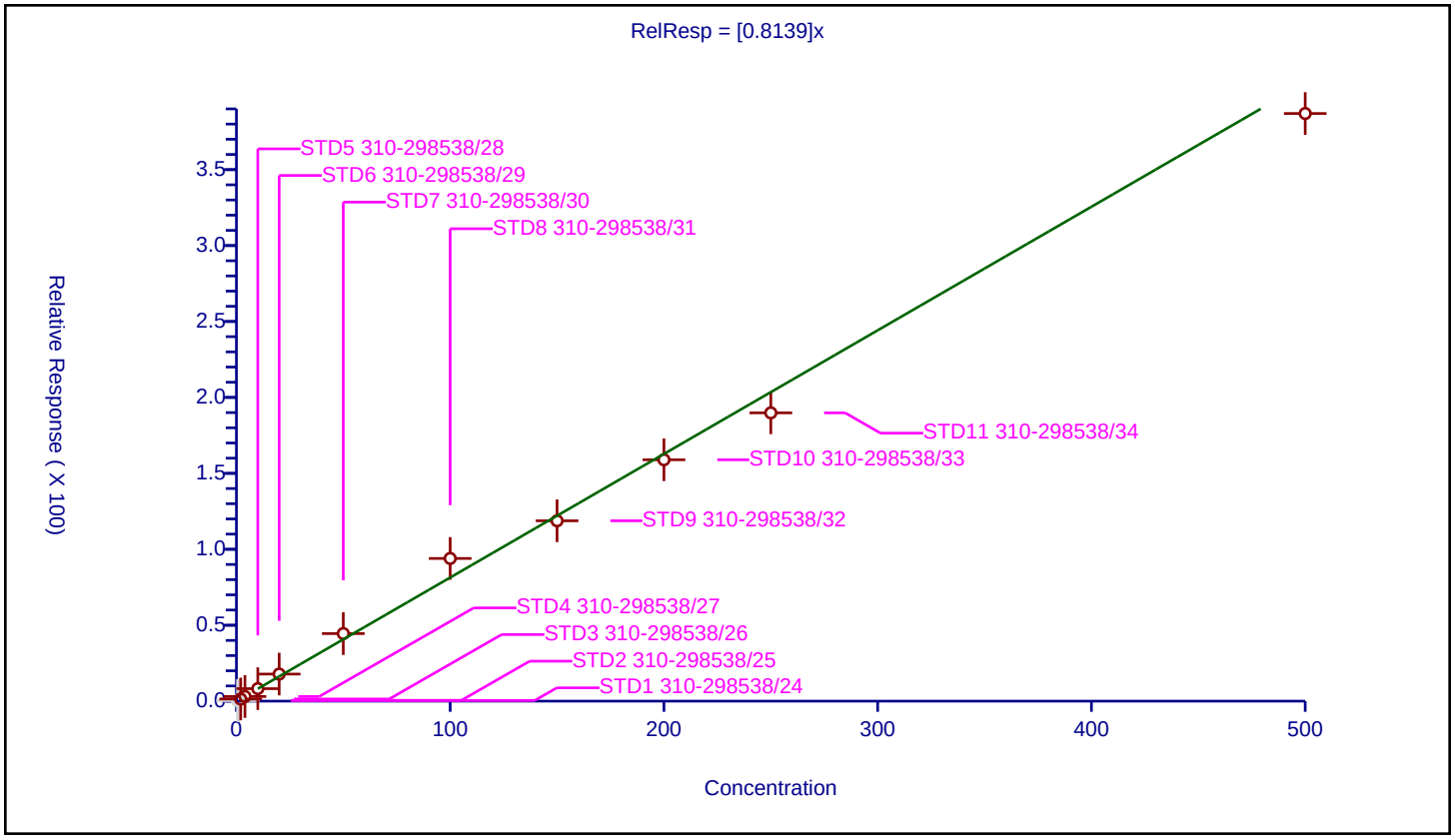
Curve Coefficients

Intercept:	0
Slope:	0.8139

Error Coefficients

Standard Error:	240000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	0.40504	50.0	81350.0	0.81008	N
2	STD2 310-298538/25	1.0	0.552079	50.0	79427.0	0.552079	N
3	STD3 310-298538/26	2.0	1.420436	50.0	77089.0	0.710218	Y
4	STD4 310-298538/27	4.0	3.06878	50.0	75763.0	0.767195	Y
5	STD5 310-298538/28	10.0	8.211296	50.0	78733.0	0.82113	Y
6	STD6 310-298538/29	20.0	17.827948	50.0	78046.0	0.891397	Y
7	STD7 310-298538/30	50.0	44.49533	50.0	77843.0	0.889907	Y
8	STD8 310-298538/31	100.0	93.956361	50.0	76262.0	0.939564	Y
9	STD9 310-298538/32	150.0	118.759078	50.0	74356.0	0.791727	Y
10	STD10 310-298538/33	200.0	158.951742	50.0	72444.0	0.794759	Y
11	STD11 310-298538/34	250.0	189.853642	50.0	74475.0	0.759415	Y
12	STD12 310-298538/35	500.0	386.96011	50.0	73904.0	0.77392	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

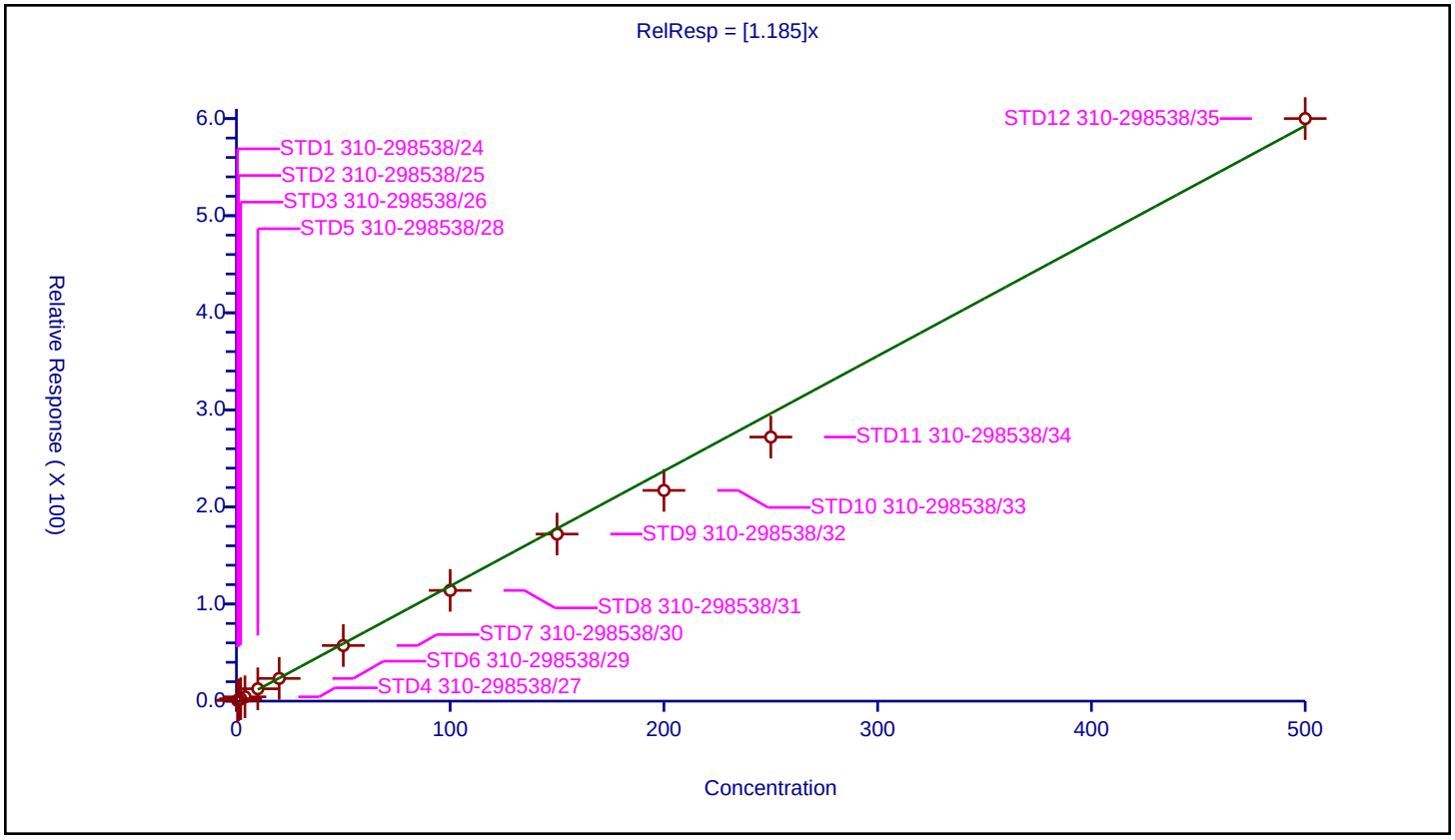
Curve Coefficients

Intercept:	0
Slope:	1.185

Error Coefficients

Standard Error:	324000
Relative Standard Error:	7.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	0.709281	50.0	81350.0	1.418562	Y
2	STD2 310-298538/25	1.0	1.194808	50.0	79427.0	1.194808	Y
3	STD3 310-298538/26	2.0	2.499708	50.0	77089.0	1.249854	Y
4	STD4 310-298538/27	4.0	4.432903	50.0	75763.0	1.108226	Y
5	STD5 310-298538/28	10.0	12.742433	50.0	78733.0	1.274243	Y
6	STD6 310-298538/29	20.0	23.37852	50.0	78046.0	1.168926	Y
7	STD7 310-298538/30	50.0	57.295454	50.0	77843.0	1.145909	Y
8	STD8 310-298538/31	100.0	114.048281	50.0	76262.0	1.140483	Y
9	STD9 310-298538/32	150.0	172.093039	50.0	74356.0	1.147287	Y
10	STD10 310-298538/33	200.0	217.071117	50.0	72444.0	1.085356	Y
11	STD11 310-298538/34	250.0	272.009399	50.0	74475.0	1.088038	Y
12	STD12 310-298538/35	500.0	600.043976	50.0	73904.0	1.200088	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

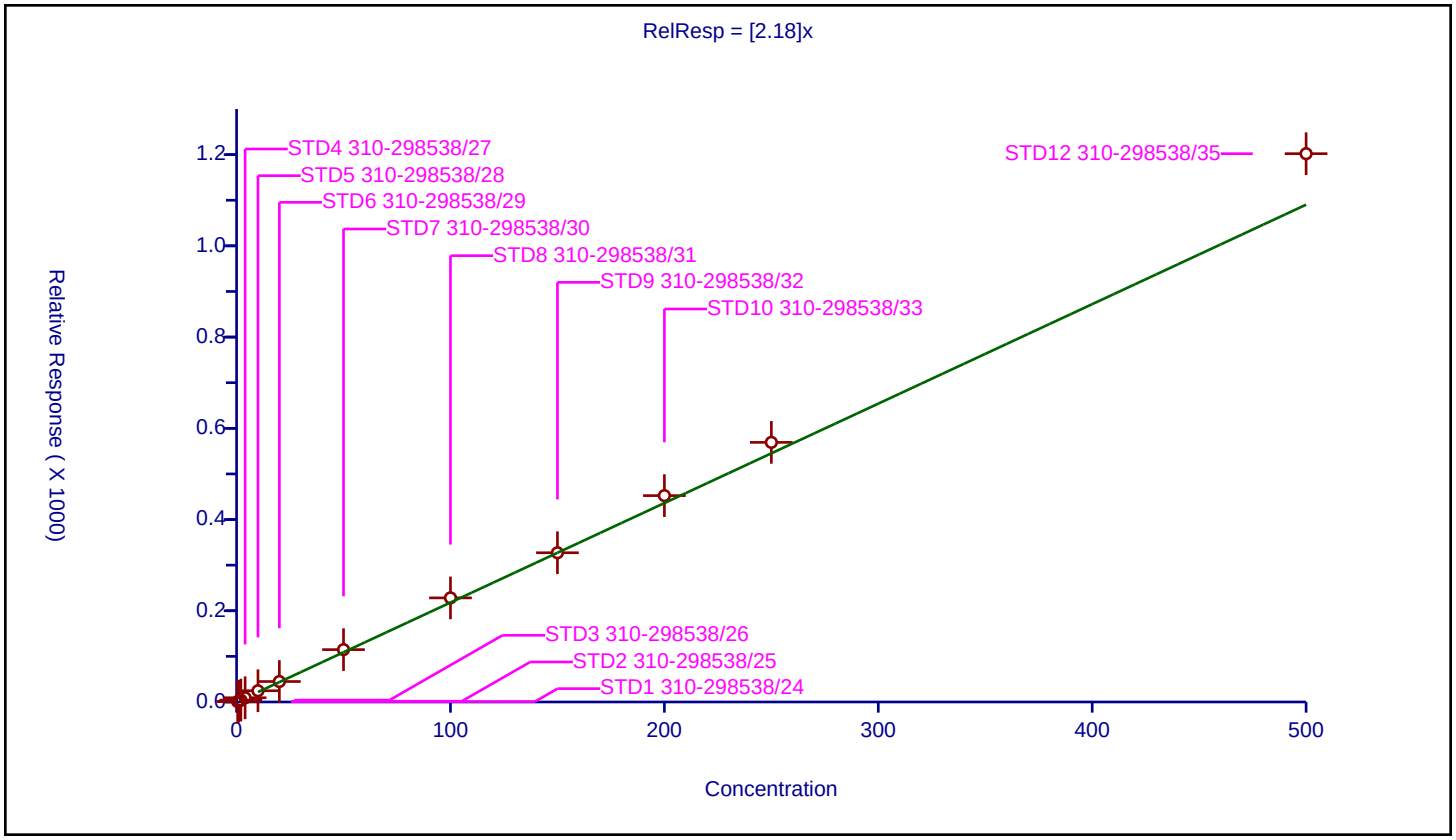
Curve Coefficients

Intercept:	0
Slope:	2.18

Error Coefficients

Standard Error:	653000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	0.880148	50.0	81350.0	1.760295	Y
2	STD2 310-298538/25	1.0	1.61469	50.0	79427.0	1.61469	Y
3	STD3 310-298538/26	2.0	4.137426	50.0	77089.0	2.068713	Y
4	STD4 310-298538/27	4.0	9.247918	50.0	75763.0	2.311979	Y
5	STD5 310-298538/28	10.0	24.638335	50.0	78733.0	2.463833	Y
6	STD6 310-298538/29	20.0	44.866489	50.0	78046.0	2.243324	Y
7	STD7 310-298538/30	50.0	114.81893	50.0	77843.0	2.296379	Y
8	STD8 310-298538/31	100.0	228.232934	50.0	76262.0	2.282329	Y
9	STD9 310-298538/32	150.0	327.172656	50.0	74356.0	2.181151	Y
10	STD10 310-298538/33	200.0	452.384601	50.0	72444.0	2.261923	Y
11	STD11 310-298538/34	250.0	569.132595	50.0	74475.0	2.27653	Y
12	STD12 310-298538/35	500.0	1202.049957	50.0	73904.0	2.4041	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

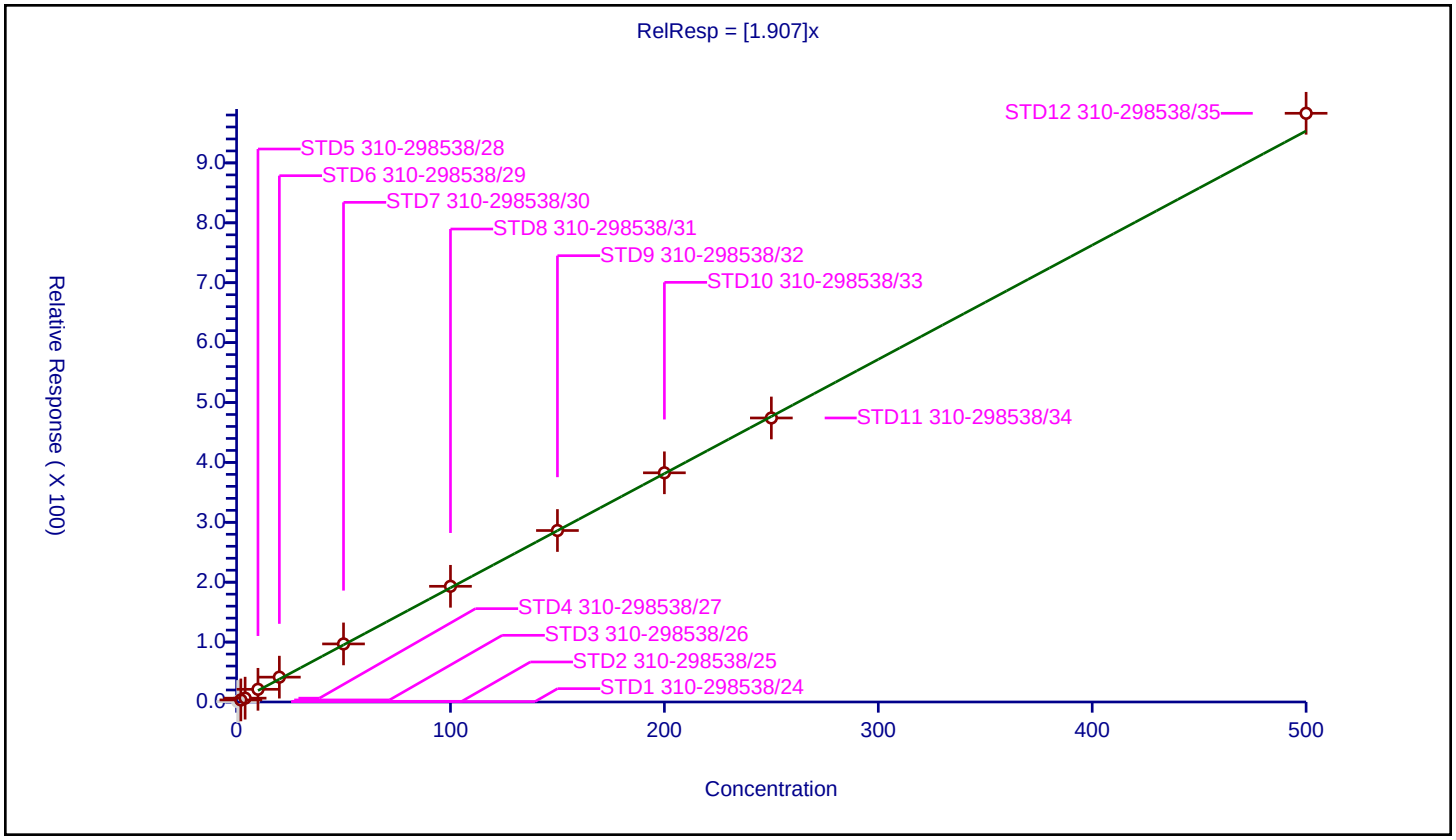
Curve Coefficients

Intercept:	0
Slope:	1.907

Error Coefficients

Standard Error:	597000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	0.5	0.729564	50.0	81350.0	1.459127	N
2	STD2 310-298538/25	1.0	1.1413	50.0	79427.0	1.1413	N
3	STD3 310-298538/26	2.0	3.449909	50.0	77089.0	1.724954	Y
4	STD4 310-298538/27	4.0	6.399562	50.0	75763.0	1.59989	Y
5	STD5 310-298538/28	10.0	21.155043	50.0	78733.0	2.115504	Y
6	STD6 310-298538/29	20.0	41.455039	50.0	78046.0	2.072752	Y
7	STD7 310-298538/30	50.0	96.923294	50.0	77843.0	1.938466	Y
8	STD8 310-298538/31	100.0	193.162388	50.0	76262.0	1.931624	Y
9	STD9 310-298538/32	150.0	286.286917	50.0	74356.0	1.908579	Y
10	STD10 310-298538/33	200.0	382.628651	50.0	72444.0	1.913143	Y
11	STD11 310-298538/34	250.0	474.191339	50.0	74475.0	1.896765	Y
12	STD12 310-298538/35	500.0	982.873728	50.0	73904.0	1.965747	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

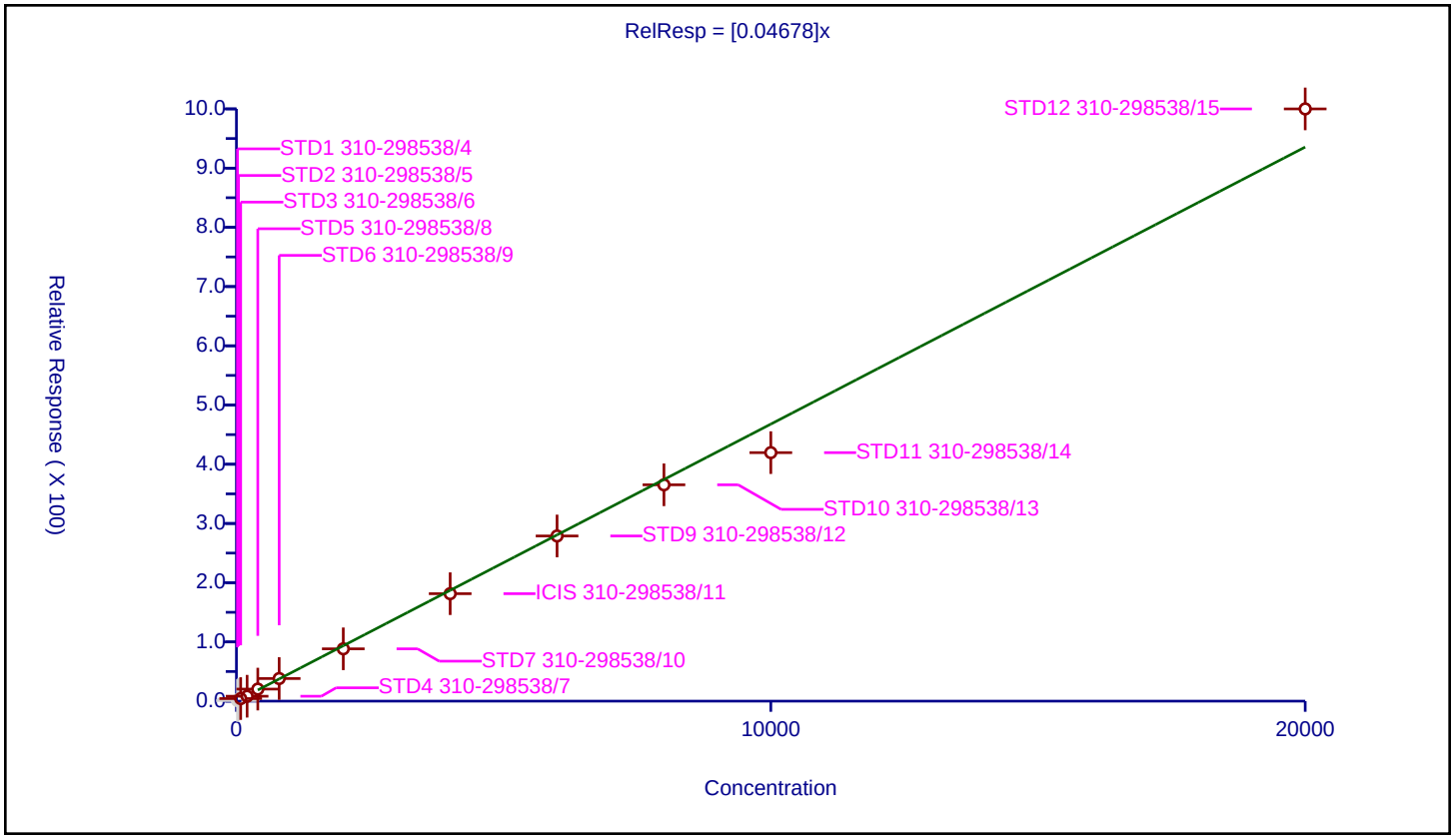
Curve Coefficients

Intercept:	0
Slope:	0.04678

Error Coefficients

Standard Error:	646000
Relative Standard Error:	8.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	20.0	0.962601	50.0	77810.0	0.04813	N
2	STD2 310-298538/5	40.0	3.019808	50.0	80270.0	0.075495	N
3	STD3 310-298538/6	80.0	4.328894	50.0	76821.0	0.054111	Y
4	STD4 310-298538/7	200.0	8.275853	50.0	79883.0	0.041379	Y
5	STD5 310-298538/8	400.0	20.370896	50.0	81074.0	0.050927	Y
6	STD6 310-298538/9	800.0	38.178317	50.0	79185.0	0.047723	Y
7	STD7 310-298538/10	2000.0	88.352233	50.0	78397.0	0.044176	Y
8	ICIS 310-298538/11	4000.0	181.450579	50.0	77245.0	0.045363	Y
9	STD9 310-298538/12	6000.0	278.888875	50.0	77831.0	0.046481	Y
10	STD10 310-298538/13	8000.0	365.267305	50.0	76392.0	0.045658	Y
11	STD11 310-298538/14	10000.0	419.597704	50.0	84316.0	0.04196	Y
12	STD12 310-298538/15	20000.0	999.974232	50.0	81496.0	0.049999	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

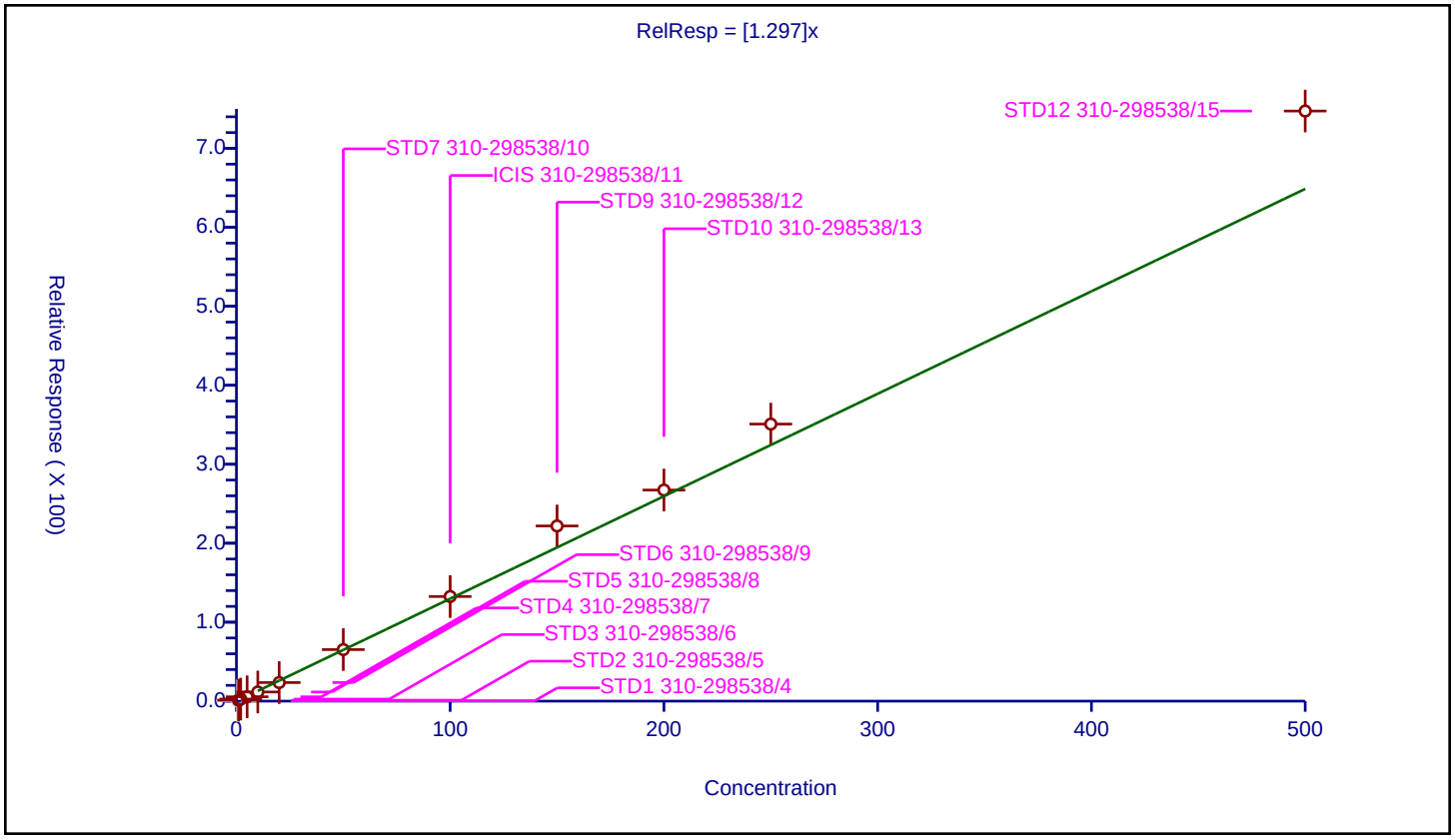
Curve Coefficients

Intercept:	0
Slope:	1.297

Error Coefficients

Standard Error:	466000
Relative Standard Error:	10.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.417684	50.0	77810.0	0.835368	N
2	STD2 310-298538/5	1.0	1.200324	50.0	80270.0	1.200324	Y
3	STD3 310-298538/6	2.0	2.585881	50.0	76821.0	1.292941	Y
4	STD4 310-298538/7	5.0	5.489278	50.0	79883.0	1.097856	Y
5	STD5 310-298538/8	10.0	11.594963	50.0	81074.0	1.159496	Y
6	STD6 310-298538/9	20.0	23.522132	50.0	79185.0	1.176107	Y
7	STD7 310-298538/10	50.0	65.295866	50.0	78397.0	1.305917	Y
8	ICIS 310-298538/11	100.0	132.508253	50.0	77245.0	1.325083	Y
9	STD9 310-298538/12	150.0	221.841554	50.0	77831.0	1.478944	Y
10	STD10 310-298538/13	200.0	267.315295	50.0	76392.0	1.336576	Y
11	STD11 310-298538/14	250.0	350.869942	50.0	84316.0	1.40348	Y
12	STD12 310-298538/15	500.0	747.288824	50.0	81496.0	1.494578	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

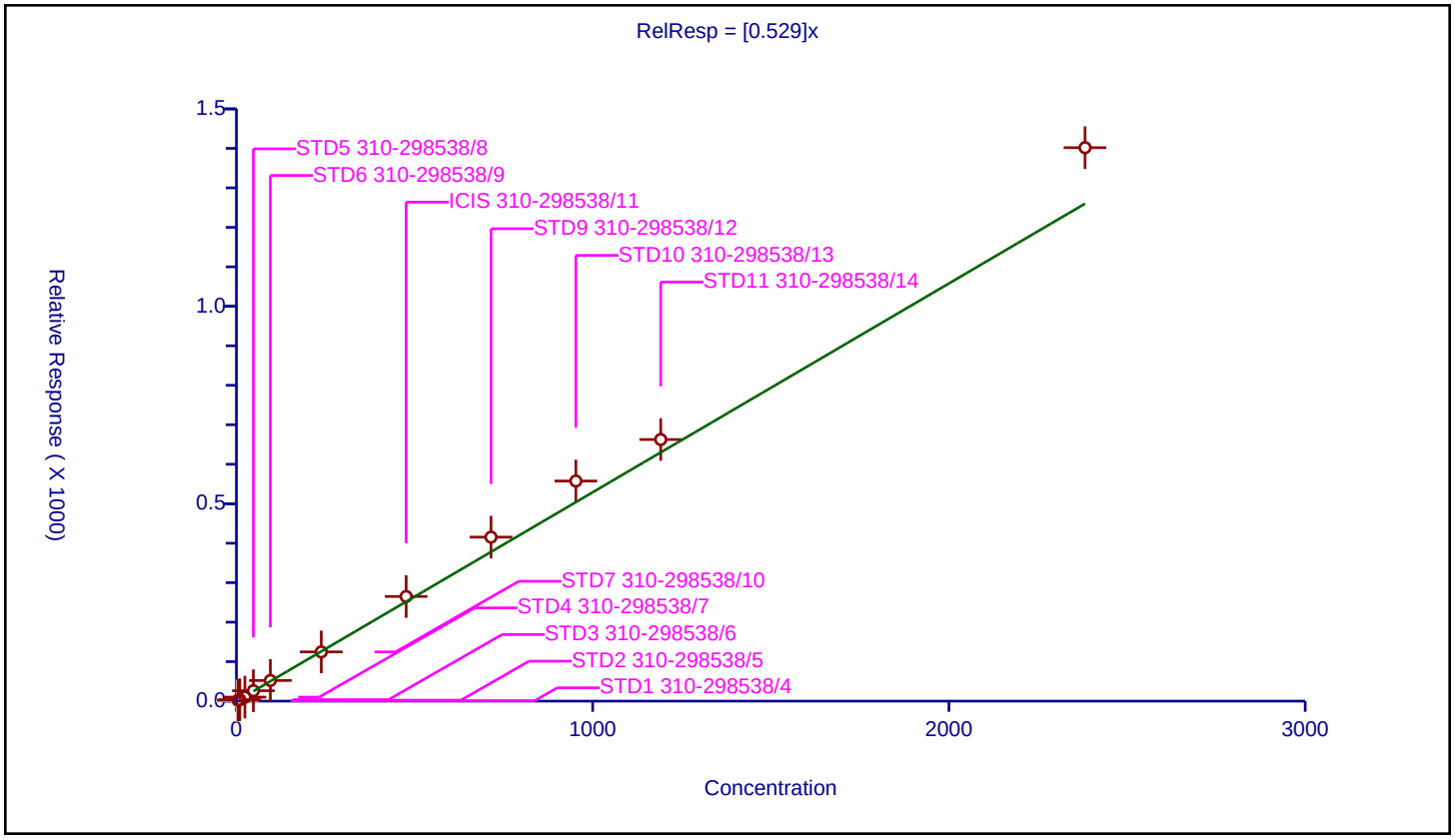
Curve Coefficients

Intercept:	0
Slope:	0.529

Error Coefficients

Standard Error:	884000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	2.382	0.701067	50.0	77810.0	0.294319	N
2	STD2 310-298538/5	4.764	2.485985	50.0	80270.0	0.521827	Y
3	STD3 310-298538/6	9.528	3.59472	50.0	76821.0	0.37728	Y
4	STD4 310-298538/7	23.82	10.156729	50.0	79883.0	0.426395	Y
5	STD5 310-298538/8	47.64	26.369736	50.0	81074.0	0.553521	Y
6	STD6 310-298538/9	95.28	52.275684	50.0	79185.0	0.548653	Y
7	STD7 310-298538/10	238.2	124.679516	50.0	78397.0	0.523424	Y
8	ICIS 310-298538/11	476.4	265.038514	50.0	77245.0	0.556336	Y
9	STD9 310-298538/12	714.6	415.355707	50.0	77831.0	0.581242	Y
10	STD10 310-298538/13	952.8	557.499476	50.0	76392.0	0.585117	Y
11	STD11 310-298538/14	1191.0	662.572347	50.0	84316.0	0.556316	Y
12	STD12 310-298538/15	2382.0	1401.755301	50.0	81496.0	0.588478	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

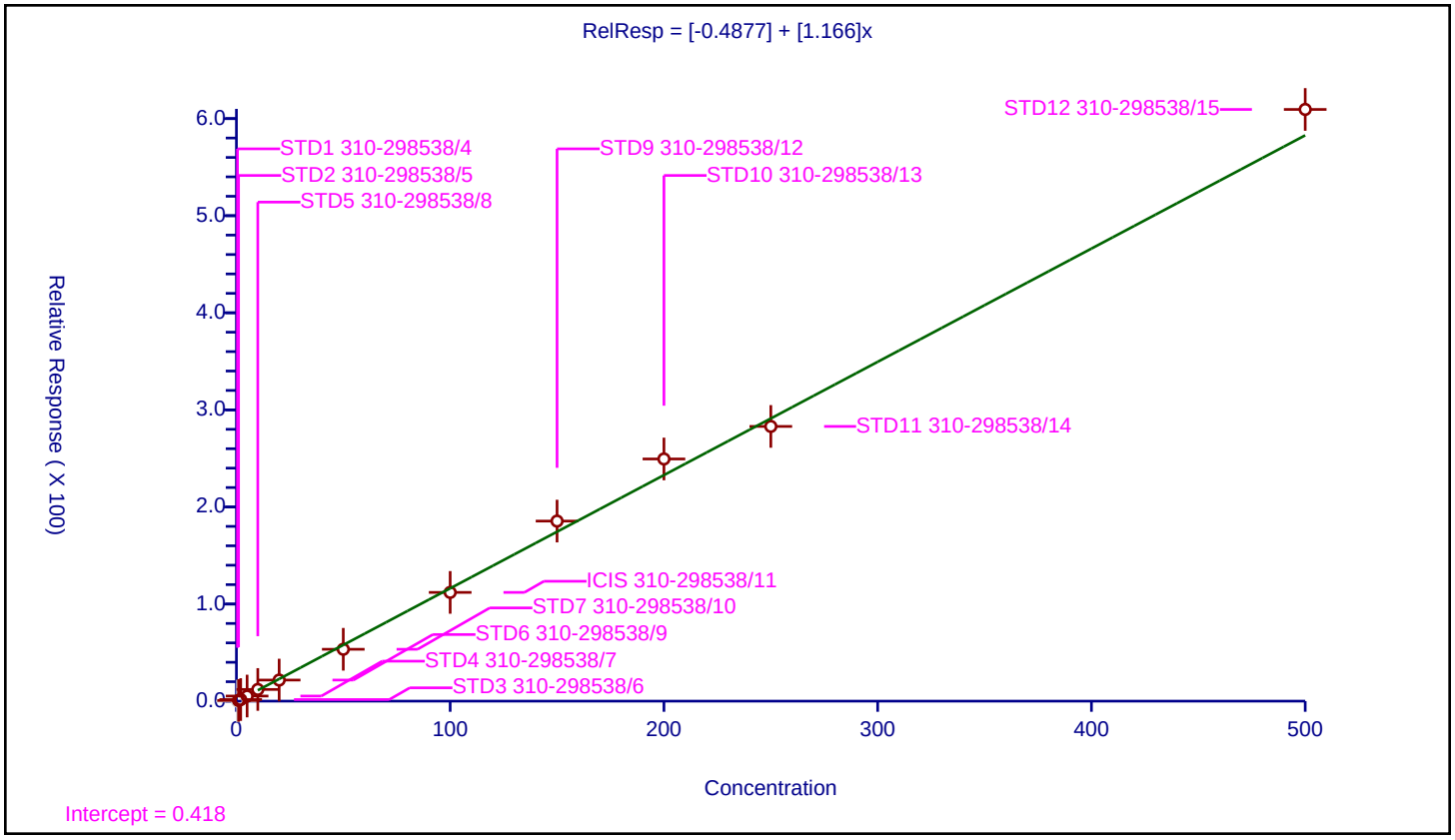
Curve Coefficients

Intercept:	-0.4877
Slope:	1.166

Error Coefficients

Standard Error:	405000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.107313	50.0	77810.0	0.214625	N
2	STD2 310-298538/5	1.0	0.733774	50.0	80270.0	0.733774	Y
3	STD3 310-298538/6	2.0	1.622603	50.0	76821.0	0.811302	Y
4	STD4 310-298538/7	5.0	5.253308	50.0	79883.0	1.050662	Y
5	STD5 310-298538/8	10.0	12.026667	50.0	81074.0	1.202667	Y
6	STD6 310-298538/9	20.0	21.702974	50.0	79185.0	1.085149	Y
7	STD7 310-298538/10	50.0	53.41786	50.0	78397.0	1.068357	Y
8	ICIS 310-298538/11	100.0	111.989773	50.0	77245.0	1.119898	Y
9	STD9 310-298538/12	150.0	185.444746	50.0	77831.0	1.236298	Y
10	STD10 310-298538/13	200.0	249.43515	50.0	76392.0	1.247176	Y
11	STD11 310-298538/14	250.0	282.957564	50.0	84316.0	1.13183	Y
12	STD12 310-298538/15	500.0	609.431138	50.0	81496.0	1.218862	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

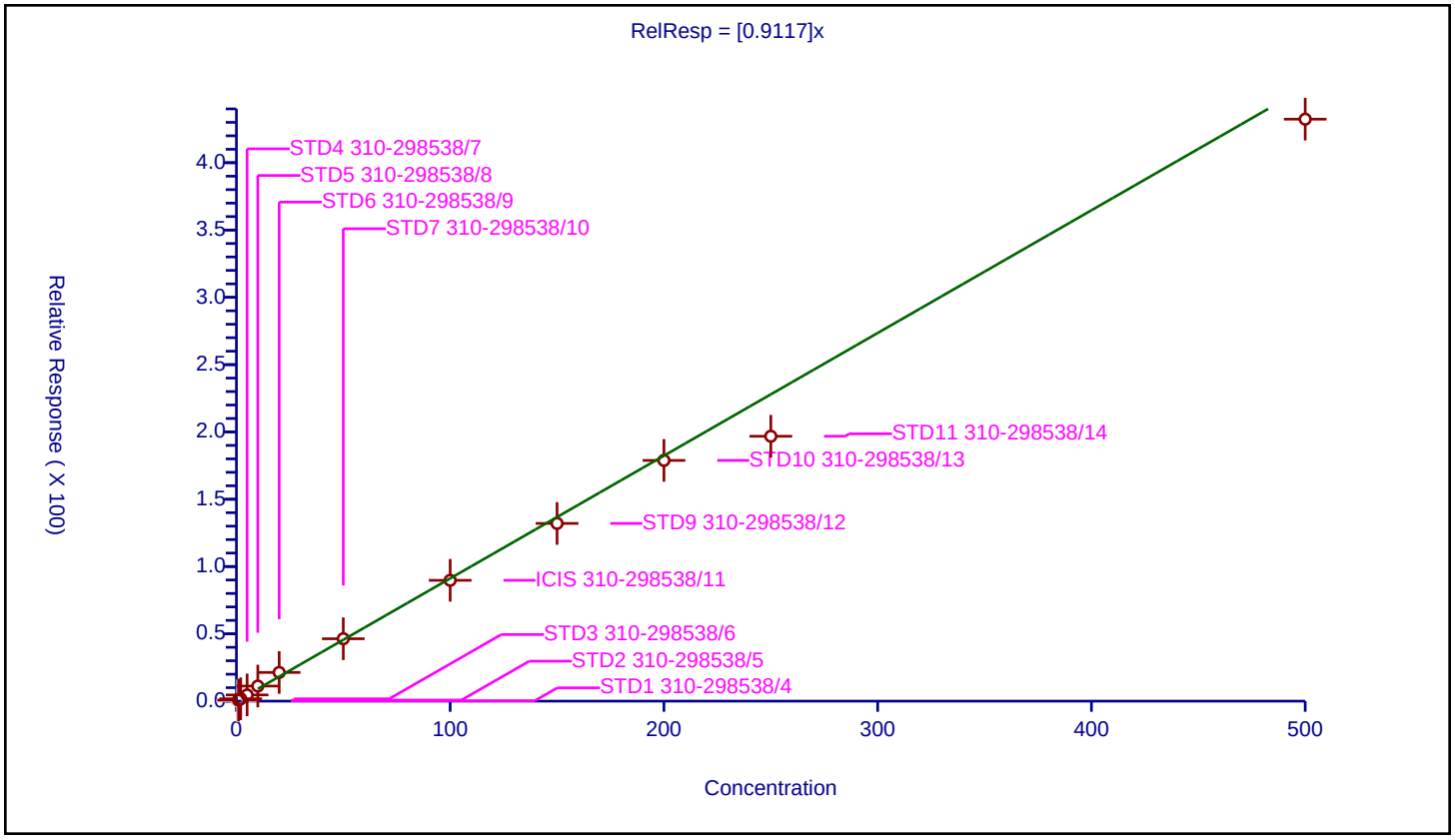
Curve Coefficients

Intercept:	0
Slope:	0.9117

Error Coefficients

Standard Error:	274000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.238401	50.0	77810.0	0.476802	N
2	STD2 310-298538/5	1.0	0.792326	50.0	80270.0	0.792326	Y
3	STD3 310-298538/6	2.0	1.743664	50.0	76821.0	0.871832	Y
4	STD4 310-298538/7	5.0	4.62927	50.0	79883.0	0.925854	Y
5	STD5 310-298538/8	10.0	11.212596	50.0	81074.0	1.12126	Y
6	STD6 310-298538/9	20.0	21.326009	50.0	79185.0	1.0663	Y
7	STD7 310-298538/10	50.0	46.34361	50.0	78397.0	0.926872	Y
8	ICIS 310-298538/11	100.0	89.761797	50.0	77245.0	0.897618	Y
9	STD9 310-298538/12	150.0	132.032224	50.0	77831.0	0.880215	Y
10	STD10 310-298538/13	200.0	178.84268	50.0	76392.0	0.894213	Y
11	STD11 310-298538/14	250.0	196.798354	50.0	84316.0	0.787193	Y
12	STD12 310-298538/15	500.0	432.363552	50.0	81496.0	0.864727	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

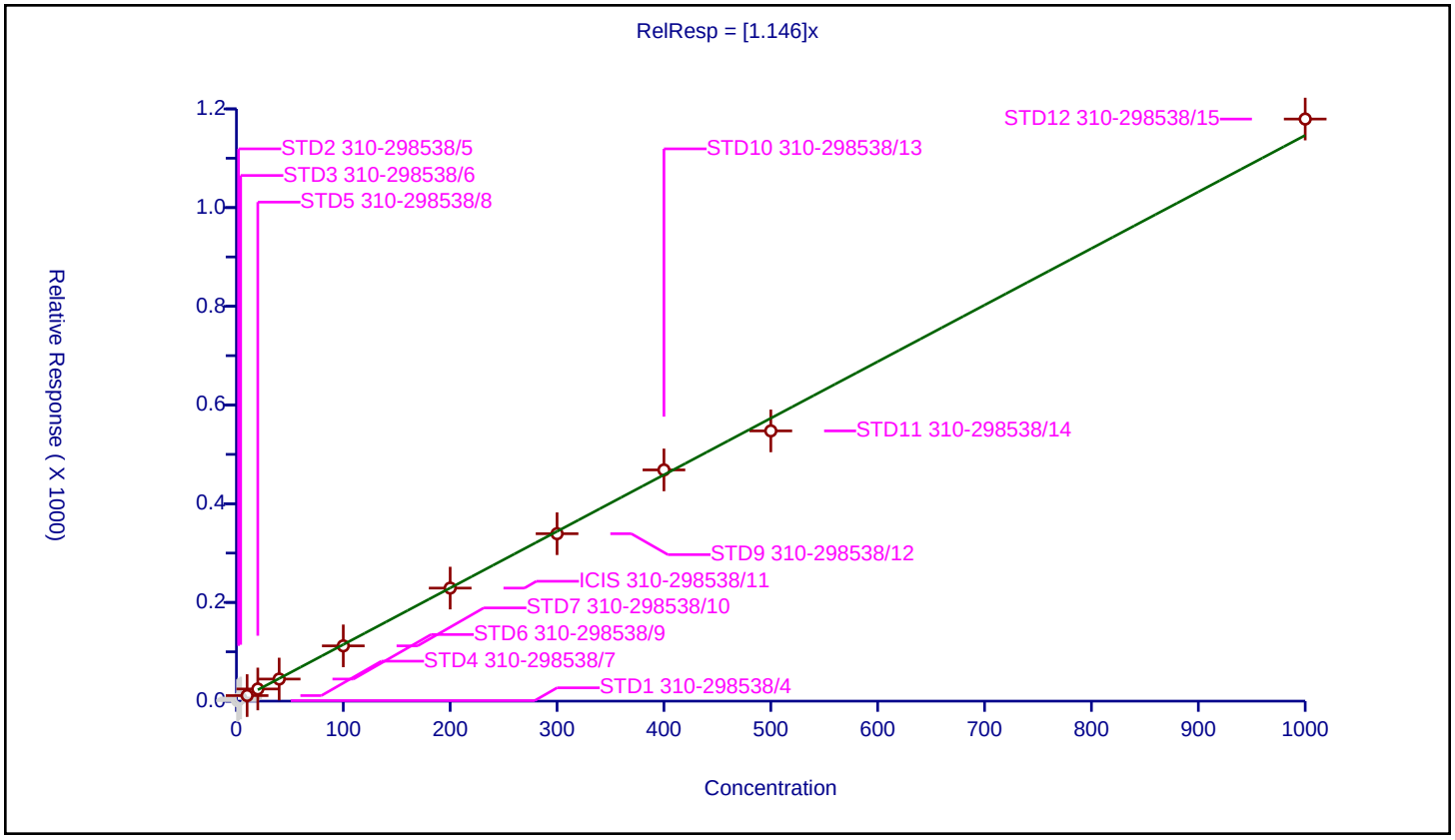
Curve Coefficients

Intercept:	0
Slope:	1.146

Error Coefficients

Standard Error:	829000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	1.058347	50.0	77810.0	1.058347	N
2	STD2 310-298538/5	2.0	4.096175	50.0	80270.0	2.048088	N
3	STD3 310-298538/6	4.0	6.338762	50.0	76821.0	1.58469	N
4	STD4 310-298538/7	10.0	11.262722	50.0	79883.0	1.126272	Y
5	STD5 310-298538/8	20.0	24.613933	50.0	81074.0	1.230697	Y
6	STD6 310-298538/9	40.0	44.769211	50.0	79185.0	1.11923	Y
7	STD7 310-298538/10	100.0	112.007475	50.0	78397.0	1.120075	Y
8	ICIS 310-298538/11	200.0	229.080847	50.0	77245.0	1.145404	Y
9	STD9 310-298538/12	300.0	339.266488	50.0	77831.0	1.130888	Y
10	STD10 310-298538/13	400.0	468.480338	50.0	76392.0	1.171201	Y
11	STD11 310-298538/14	500.0	547.56274	50.0	84316.0	1.095125	Y
12	STD12 310-298538/15	1000.0	1179.427211	50.0	81496.0	1.179427	Y



Calibration / Iodomethane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

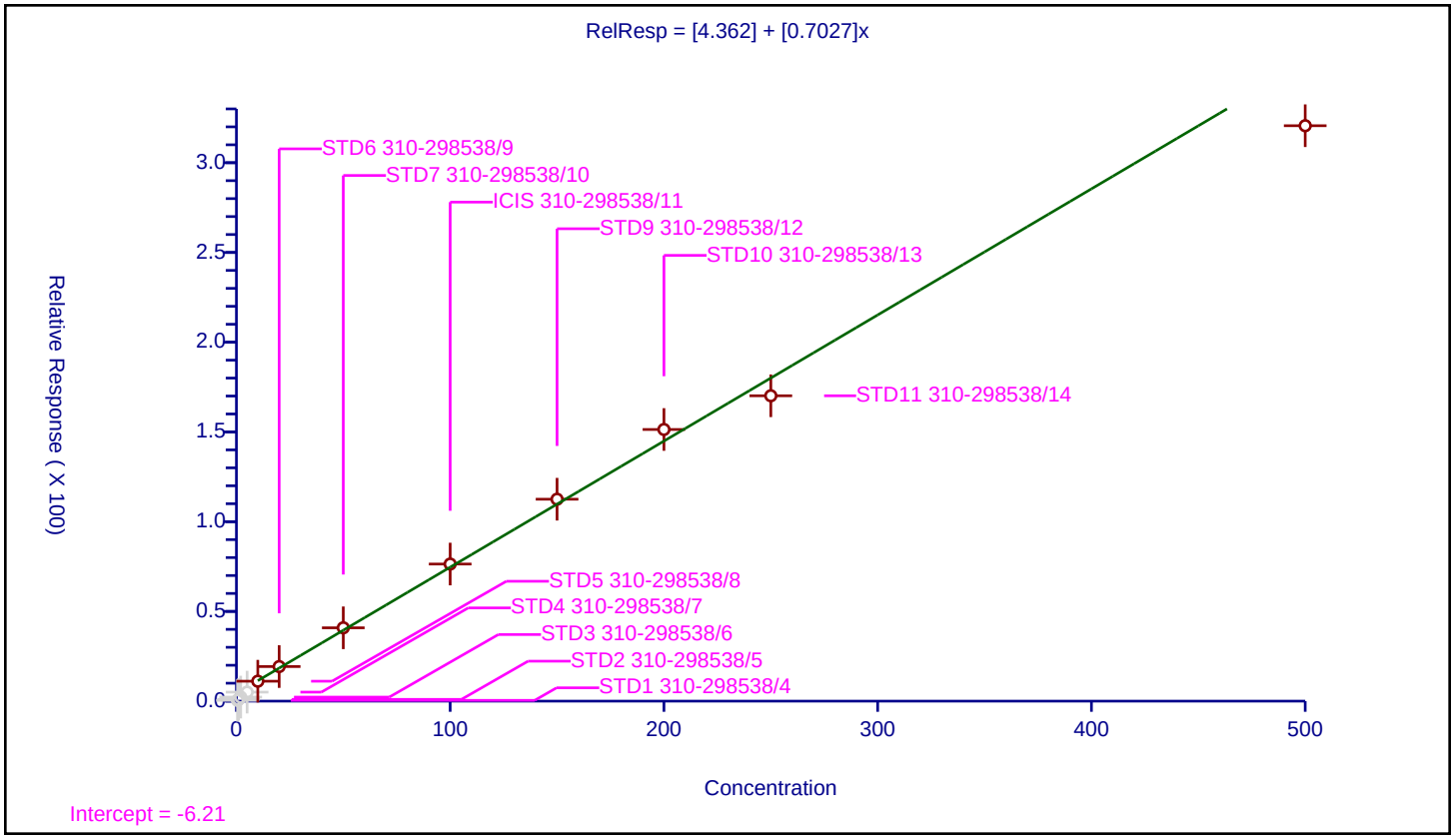
Curve Coefficients

Intercept:	4.362
Slope:	0.7027

Error Coefficients

Standard Error:	276000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.430536	50.0	77810.0	0.861072	N
2	STD2 310-298538/5	1.0	0.981687	50.0	80270.0	0.981687	N
3	STD3 310-298538/6	2.0	2.251988	50.0	76821.0	1.125994	N
4	STD4 310-298538/7	5.0	5.028604	50.0	79883.0	1.005721	N
5	STD5 310-298538/8	10.0	11.10652	50.0	81074.0	1.110652	Y
6	STD6 310-298538/9	20.0	19.264381	50.0	79185.0	0.963219	Y
7	STD7 310-298538/10	50.0	40.868273	50.0	78397.0	0.817365	Y
8	ICIS 310-298538/11	100.0	76.392647	50.0	77245.0	0.763926	Y
9	STD9 310-298538/12	150.0	112.509797	50.0	77831.0	0.750065	Y
10	STD10 310-298538/13	200.0	151.372526	50.0	76392.0	0.756863	Y
11	STD11 310-298538/14	250.0	170.158096	50.0	84316.0	0.680632	Y
12	STD12 310-298538/15	500.0	320.626166	50.0	81496.0	0.641252	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

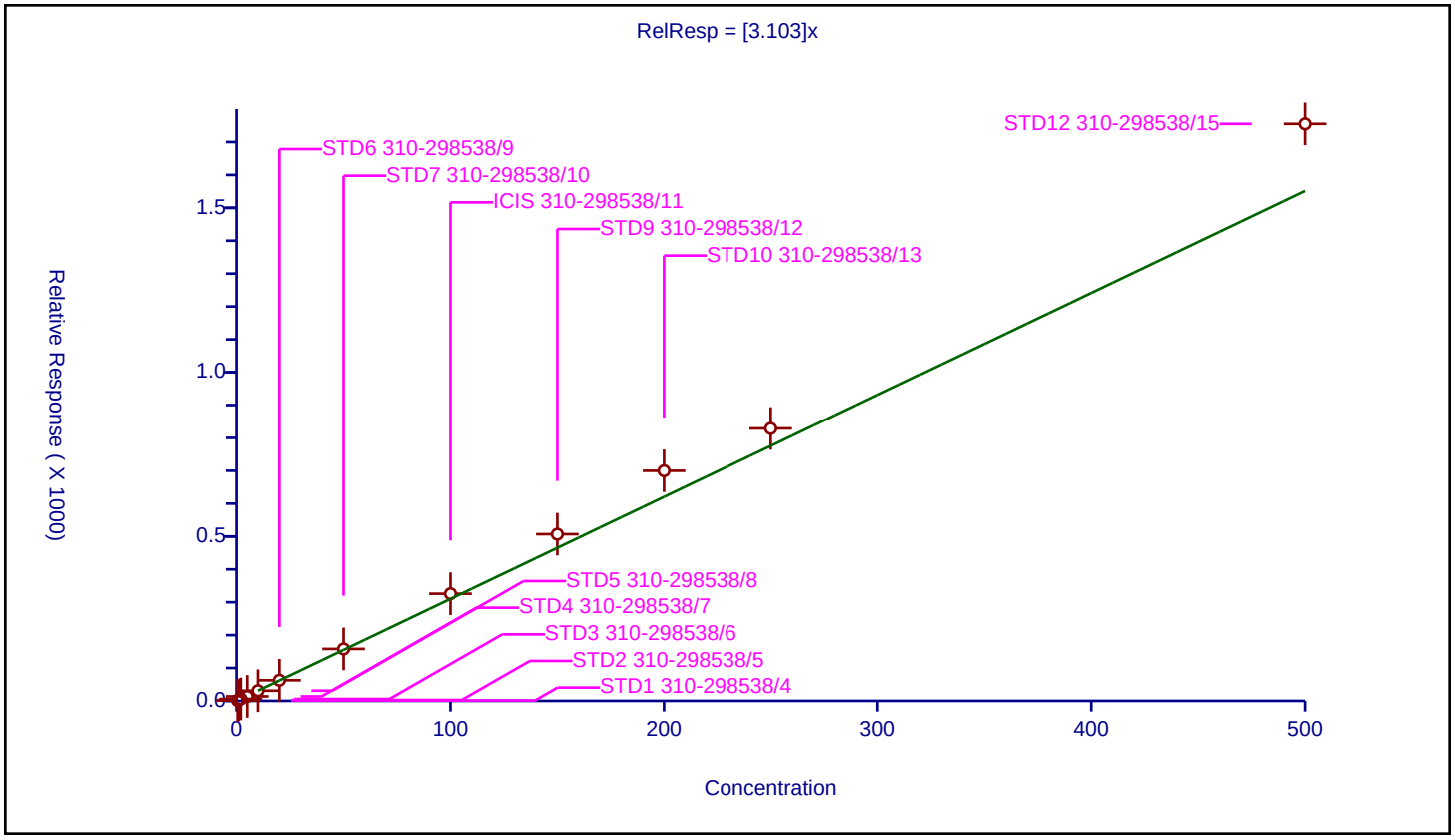
Curve Coefficients

Intercept:	0
Slope:	3.103

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.195219	50.0	77810.0	2.390438	Y
2	STD2 310-298538/5	1.0	2.770649	50.0	80270.0	2.770649	Y
3	STD3 310-298538/6	2.0	5.963864	50.0	76821.0	2.981932	Y
4	STD4 310-298538/7	5.0	13.629308	50.0	79883.0	2.725862	Y
5	STD5 310-298538/8	10.0	30.99329	50.0	81074.0	3.099329	Y
6	STD6 310-298538/9	20.0	62.792827	50.0	79185.0	3.139641	Y
7	STD7 310-298538/10	50.0	158.012424	50.0	78397.0	3.160248	Y
8	ICIS 310-298538/11	100.0	325.960904	50.0	77245.0	3.259609	Y
9	STD9 310-298538/12	150.0	507.013915	50.0	77831.0	3.380093	Y
10	STD10 310-298538/13	200.0	699.948293	50.0	76392.0	3.499741	Y
11	STD11 310-298538/14	250.0	828.757294	50.0	84316.0	3.315029	Y
12	STD12 310-298538/15	500.0	1755.127859	50.0	81496.0	3.510256	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

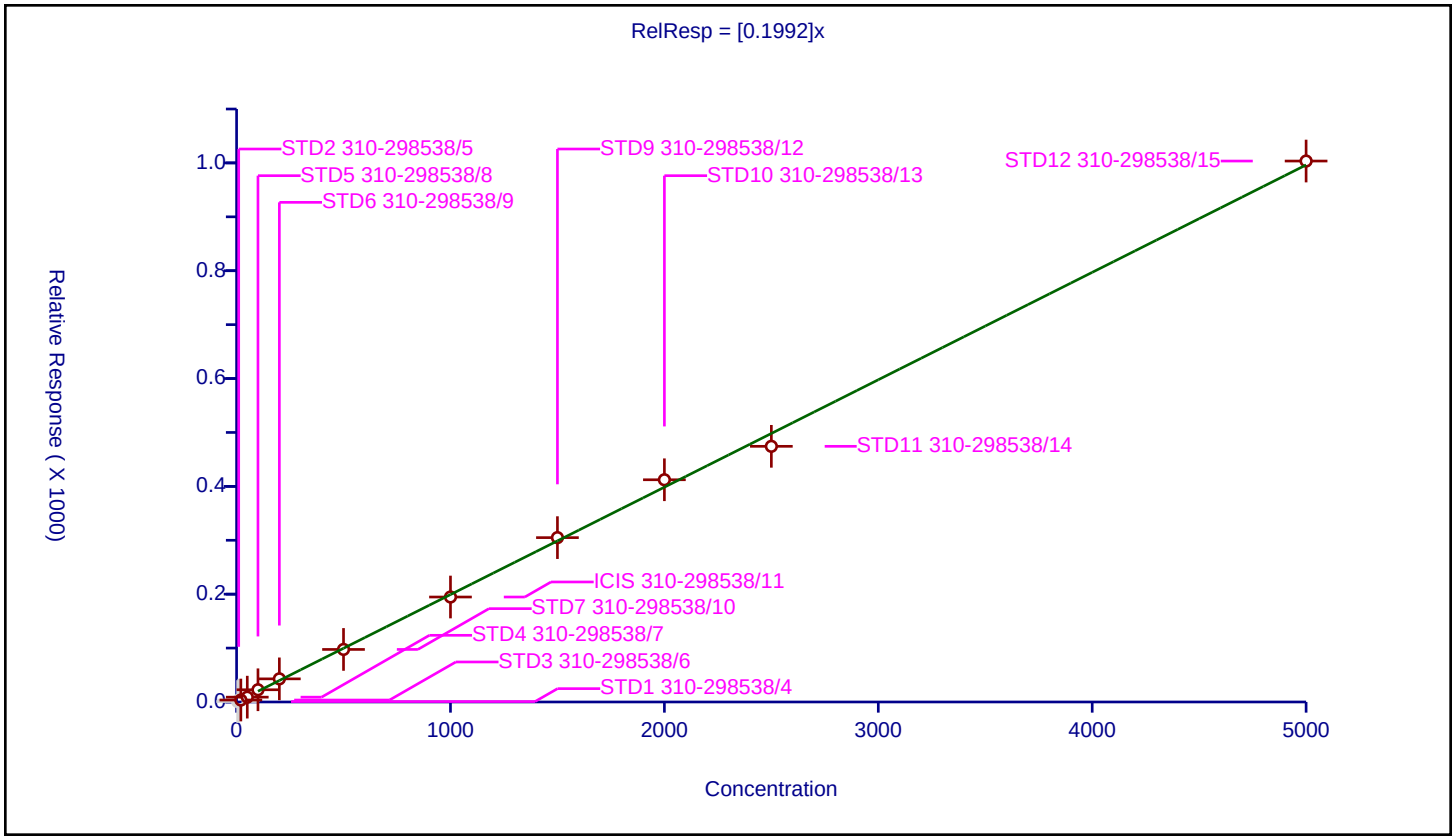
Curve Coefficients

Intercept:	0
Slope:	0.1992

Error Coefficients

Standard Error:	671000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	5.0	0.814163	50.0	77810.0	0.162833	N
2	STD2 310-298538/5	10.0	3.462066	50.0	80270.0	0.346207	N
3	STD3 310-298538/6	20.0	3.646789	50.0	76821.0	0.182339	Y
4	STD4 310-298538/7	50.0	8.98126	50.0	79883.0	0.179625	Y
5	STD5 310-298538/8	100.0	22.660162	50.0	81074.0	0.226602	Y
6	STD6 310-298538/9	200.0	42.894488	50.0	79185.0	0.214472	Y
7	STD7 310-298538/10	500.0	97.464826	50.0	78397.0	0.19493	Y
8	ICIS 310-298538/11	1000.0	194.743349	50.0	77245.0	0.194743	Y
9	STD9 310-298538/12	1500.0	304.874664	50.0	77831.0	0.20325	Y
10	STD10 310-298538/13	2000.0	412.229029	50.0	76392.0	0.206115	Y
11	STD11 310-298538/14	2500.0	474.261706	50.0	84316.0	0.189705	Y
12	STD12 310-298538/15	5000.0	1003.509375	50.0	81496.0	0.200702	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

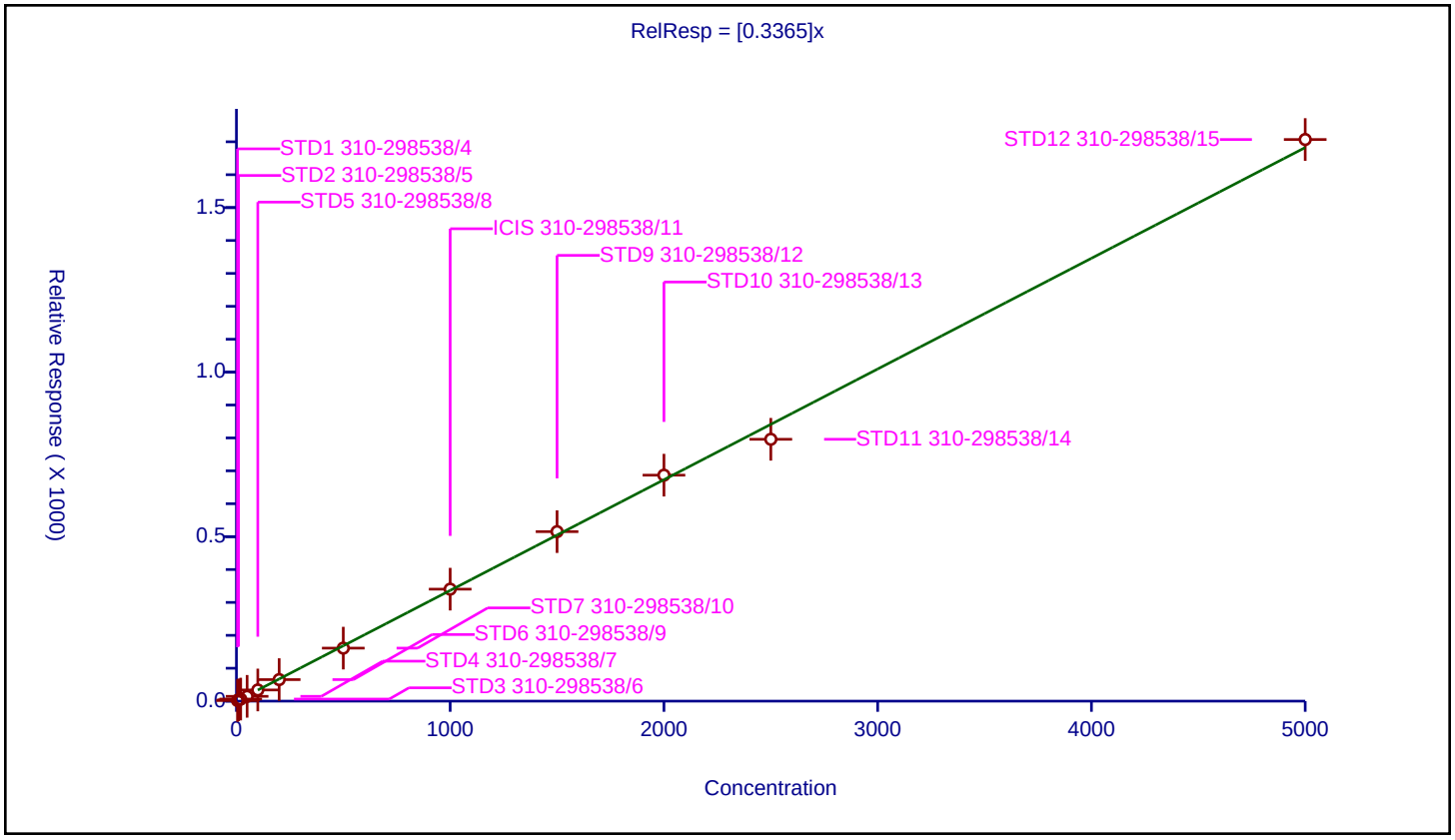
Curve Coefficients

Intercept:	0
Slope:	0.3365

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	5.0	1.83524	50.0	77810.0	0.367048	Y
2	STD2 310-298538/5	10.0	3.889373	50.0	80270.0	0.388937	Y
3	STD3 310-298538/6	20.0	6.274977	50.0	76821.0	0.313749	Y
4	STD4 310-298538/7	50.0	14.599477	50.0	79883.0	0.29199	Y
5	STD5 310-298538/8	100.0	33.965266	50.0	81074.0	0.339653	Y
6	STD6 310-298538/9	200.0	65.471996	50.0	79185.0	0.32736	Y
7	STD7 310-298538/10	500.0	161.166244	50.0	78397.0	0.322332	Y
8	ICIS 310-298538/11	1000.0	340.313936	50.0	77245.0	0.340314	Y
9	STD9 310-298538/12	1500.0	515.189963	50.0	77831.0	0.34346	Y
10	STD10 310-298538/13	2000.0	686.768903	50.0	76392.0	0.343384	Y
11	STD11 310-298538/14	2500.0	795.856065	50.0	84316.0	0.318342	Y
12	STD12 310-298538/15	5000.0	1706.941445	50.0	81496.0	0.341388	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

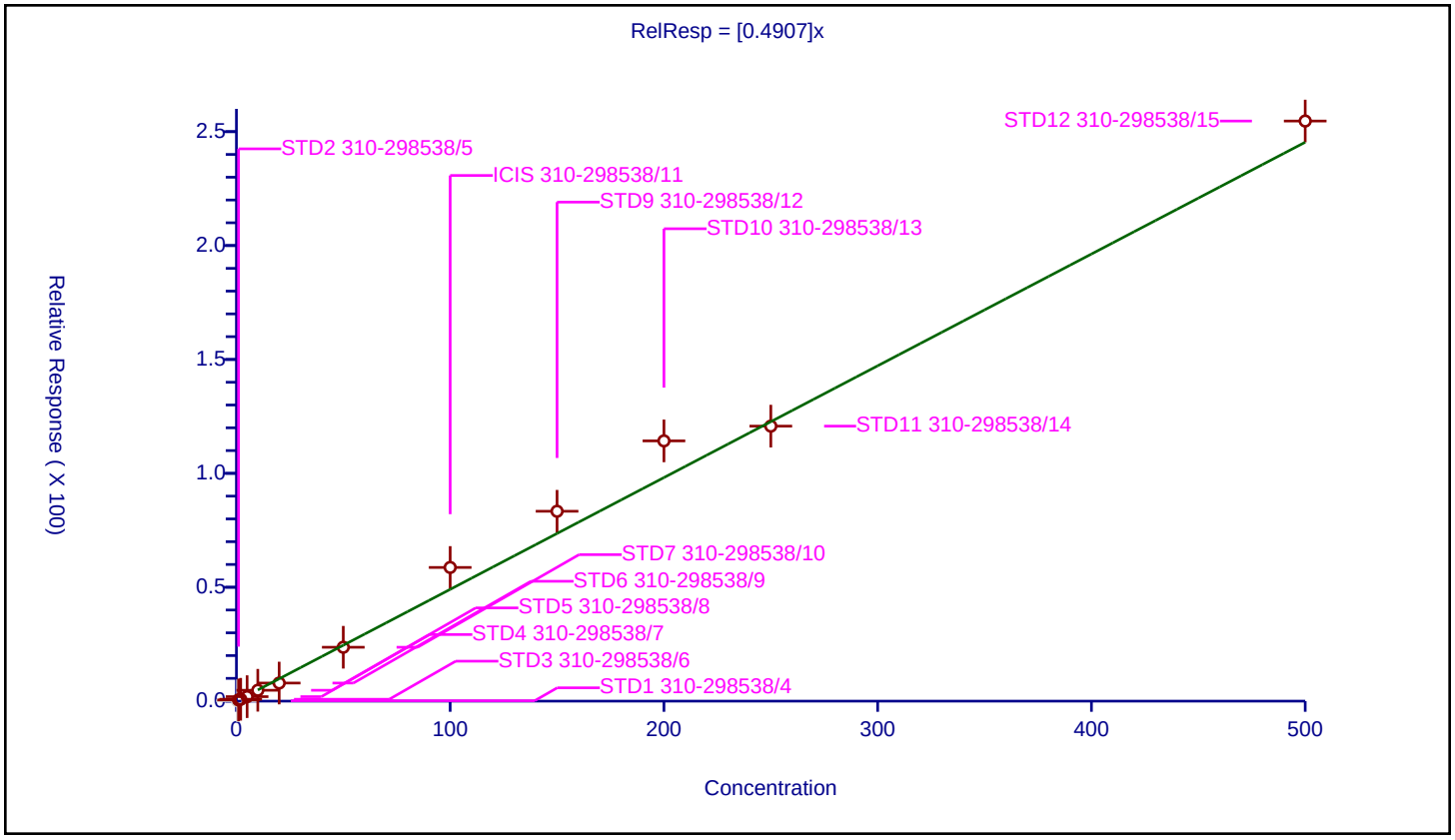
Curve Coefficients

Intercept:	0
Slope:	0.4907

Error Coefficients

Standard Error:	164000
Relative Standard Error:	14.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.177355	50.0	77810.0	0.35471	N
2	STD2 310-298538/5	1.0	0.539429	50.0	80270.0	0.539429	Y
3	STD3 310-298538/6	2.0	0.819437	50.0	76821.0	0.409719	Y
4	STD4 310-298538/7	5.0	1.975389	50.0	79883.0	0.395078	Y
5	STD5 310-298538/8	10.0	4.77095	50.0	81074.0	0.477095	Y
6	STD6 310-298538/9	20.0	7.947212	50.0	79185.0	0.397361	Y
7	STD7 310-298538/10	50.0	23.656517	50.0	78397.0	0.47313	Y
8	ICIS 310-298538/11	100.0	58.686646	50.0	77245.0	0.586866	Y
9	STD9 310-298538/12	150.0	83.366525	50.0	77831.0	0.555777	Y
10	STD10 310-298538/13	200.0	114.25411	50.0	76392.0	0.571271	Y
11	STD11 310-298538/14	250.0	120.735685	50.0	84316.0	0.482943	Y
12	STD12 310-298538/15	500.0	254.670781	50.0	81496.0	0.509342	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

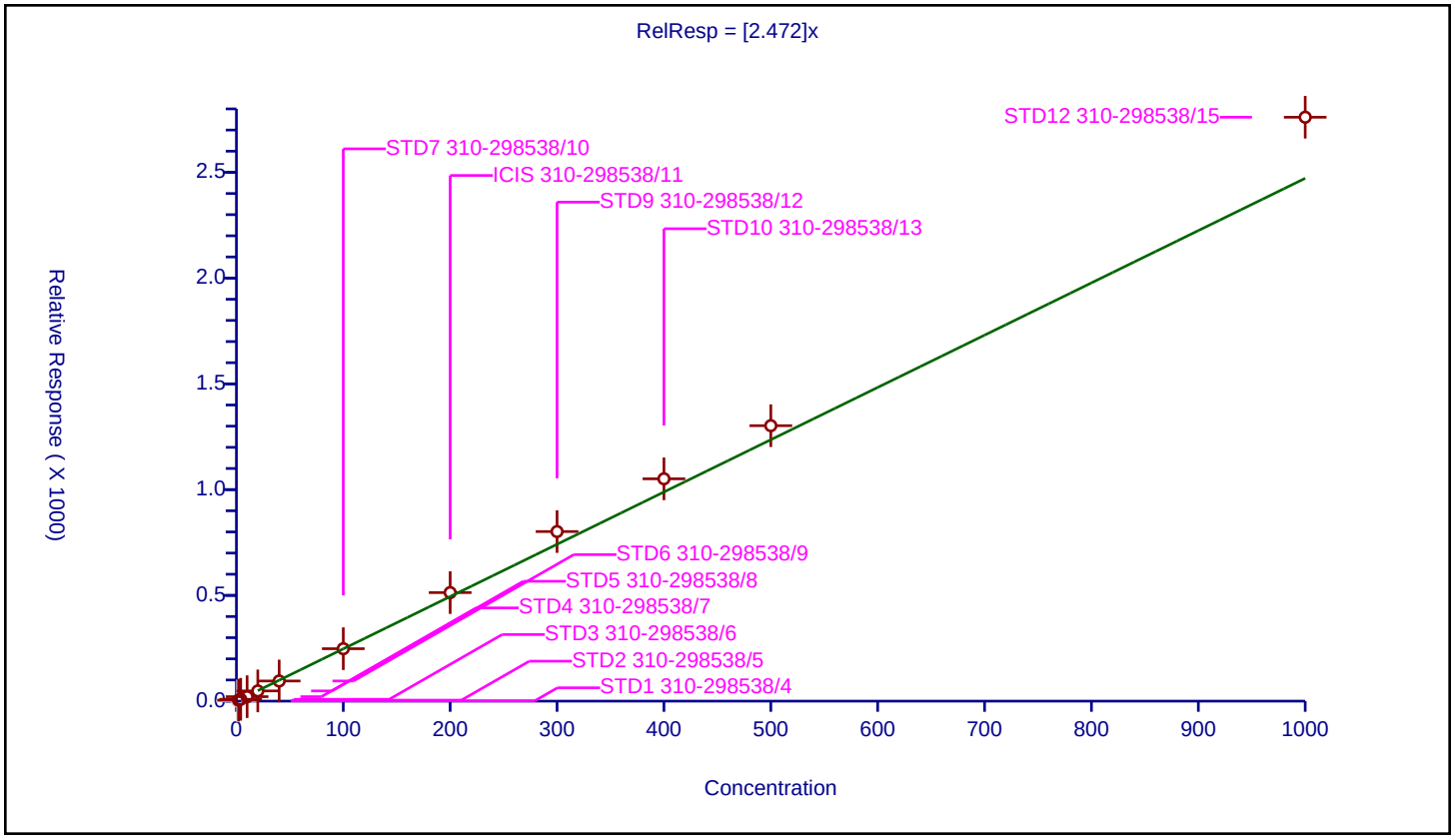
Curve Coefficients

Intercept:	0
Slope:	2.472

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	8.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	1.220923	50.0	77810.0	1.220923	N
2	STD2 310-298538/5	2.0	4.762053	50.0	80270.0	2.381027	Y
3	STD3 310-298538/6	4.0	8.792518	50.0	76821.0	2.198129	Y
4	STD4 310-298538/7	10.0	21.070816	50.0	79883.0	2.107082	Y
5	STD5 310-298538/8	20.0	48.259615	50.0	81074.0	2.412981	Y
6	STD6 310-298538/9	40.0	95.233946	50.0	79185.0	2.380849	Y
7	STD7 310-298538/10	100.0	247.823896	50.0	78397.0	2.478239	Y
8	ICIS 310-298538/11	200.0	513.202149	50.0	77245.0	2.566011	Y
9	STD9 310-298538/12	300.0	801.742879	50.0	77831.0	2.672476	Y
10	STD10 310-298538/13	400.0	1051.10221	50.0	76392.0	2.627756	Y
11	STD11 310-298538/14	500.0	1302.30917	50.0	84316.0	2.604618	Y
12	STD12 310-298538/15	1000.0	2760.643467	50.0	81496.0	2.760643	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

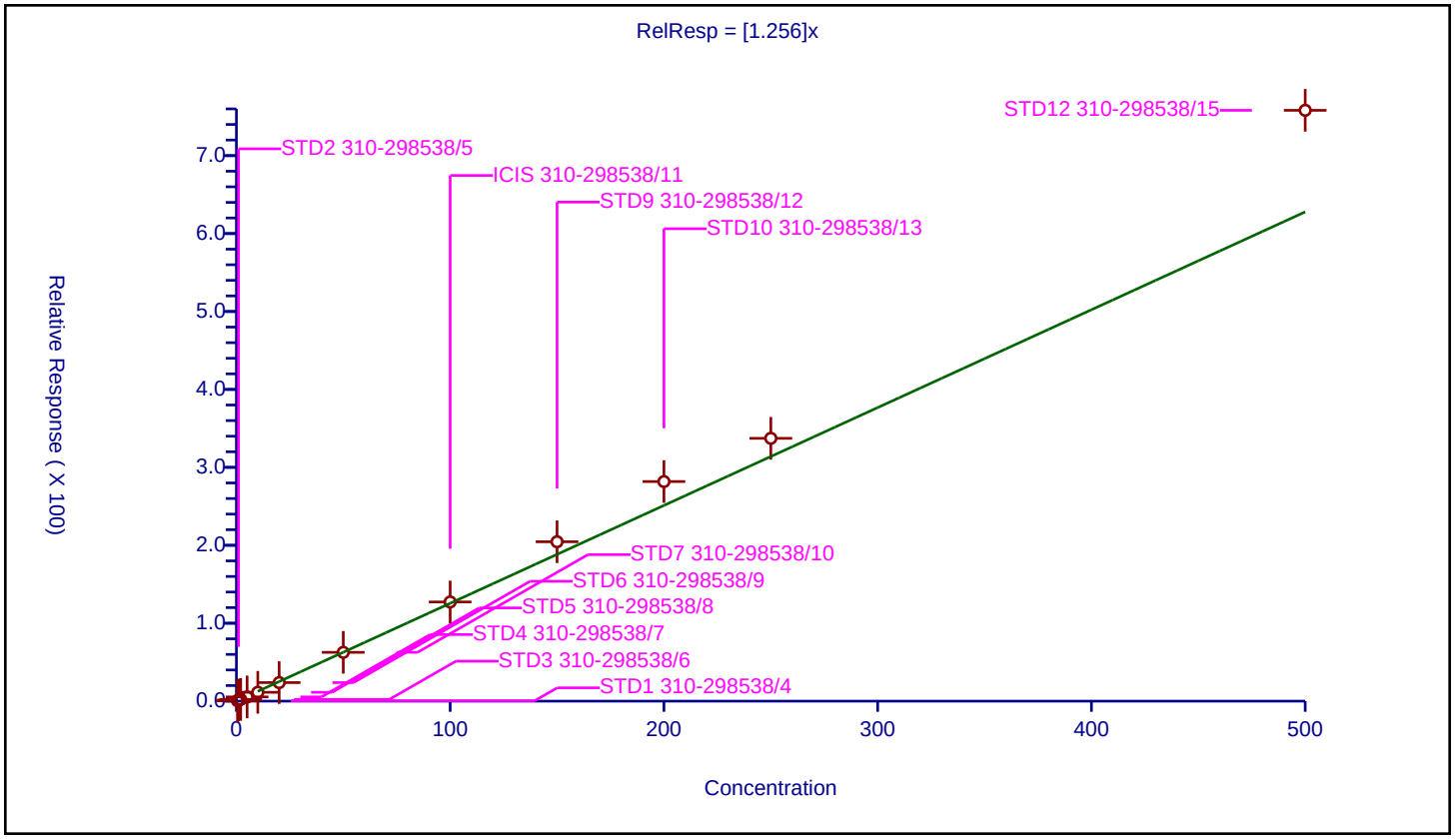
Curve Coefficients

Intercept:	0
Slope:	1.256

Error Coefficients

Standard Error:	446000
Relative Standard Error:	13.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.47873	50.0	77810.0	0.95746	Y
2	STD2 310-298538/5	1.0	1.432042	50.0	80270.0	1.432042	Y
3	STD3 310-298538/6	2.0	2.217493	50.0	76821.0	1.108746	Y
4	STD4 310-298538/7	5.0	5.402276	50.0	79883.0	1.080455	Y
5	STD5 310-298538/8	10.0	11.350125	50.0	81074.0	1.135012	Y
6	STD6 310-298538/9	20.0	23.811328	50.0	79185.0	1.190566	Y
7	STD7 310-298538/10	50.0	62.639514	50.0	78397.0	1.25279	Y
8	ICIS 310-298538/11	100.0	127.26649	50.0	77245.0	1.272665	Y
9	STD9 310-298538/12	150.0	204.552813	50.0	77831.0	1.363685	Y
10	STD10 310-298538/13	200.0	281.773615	50.0	76392.0	1.408868	Y
11	STD11 310-298538/14	250.0	337.268134	50.0	84316.0	1.349073	Y
12	STD12 310-298538/15	500.0	758.162364	50.0	81496.0	1.516325	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

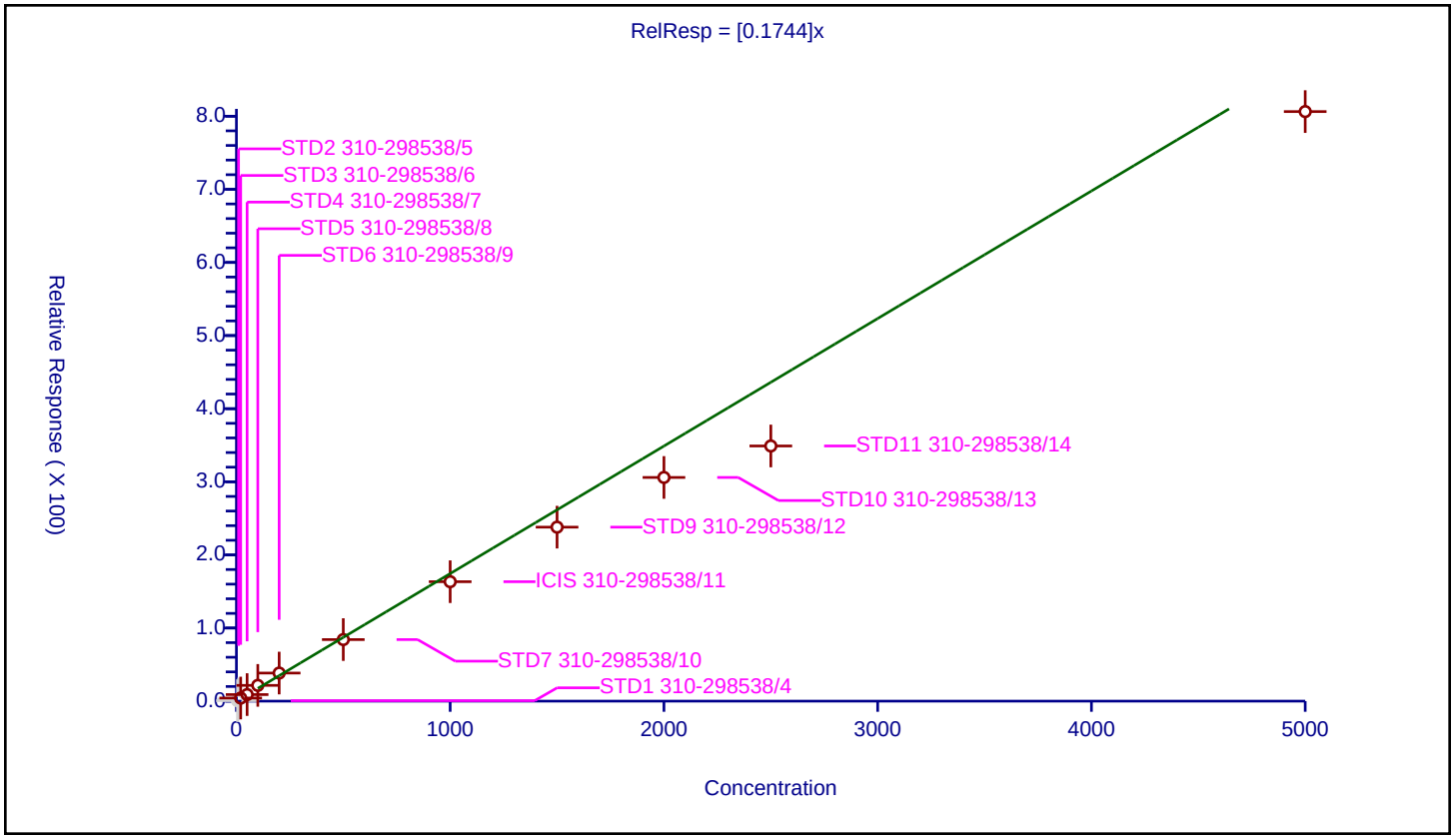
Curve Coefficients

Intercept:	0
Slope:	0.1744

Error Coefficients

Standard Error:	528000
Relative Standard Error:	14.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	5.0	0.651587	50.0	77810.0	0.130317	N
2	STD2 310-298538/5	10.0	2.809892	50.0	80270.0	0.280989	N
3	STD3 310-298538/6	20.0	4.259252	50.0	76821.0	0.212963	Y
4	STD4 310-298538/7	50.0	8.980634	50.0	79883.0	0.179613	Y
5	STD5 310-298538/8	100.0	21.554382	50.0	81074.0	0.215544	Y
6	STD6 310-298538/9	200.0	38.401844	50.0	79185.0	0.192009	Y
7	STD7 310-298538/10	500.0	84.191997	50.0	78397.0	0.168384	Y
8	ICIS 310-298538/11	1000.0	163.367856	50.0	77245.0	0.163368	Y
9	STD9 310-298538/12	1500.0	237.971374	50.0	77831.0	0.158648	Y
10	STD10 310-298538/13	2000.0	305.92405	50.0	76392.0	0.152962	Y
11	STD11 310-298538/14	2500.0	348.971725	50.0	84316.0	0.139589	Y
12	STD12 310-298538/15	5000.0	806.308899	50.0	81496.0	0.161262	Y



Calibration / Acrylonitrile

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

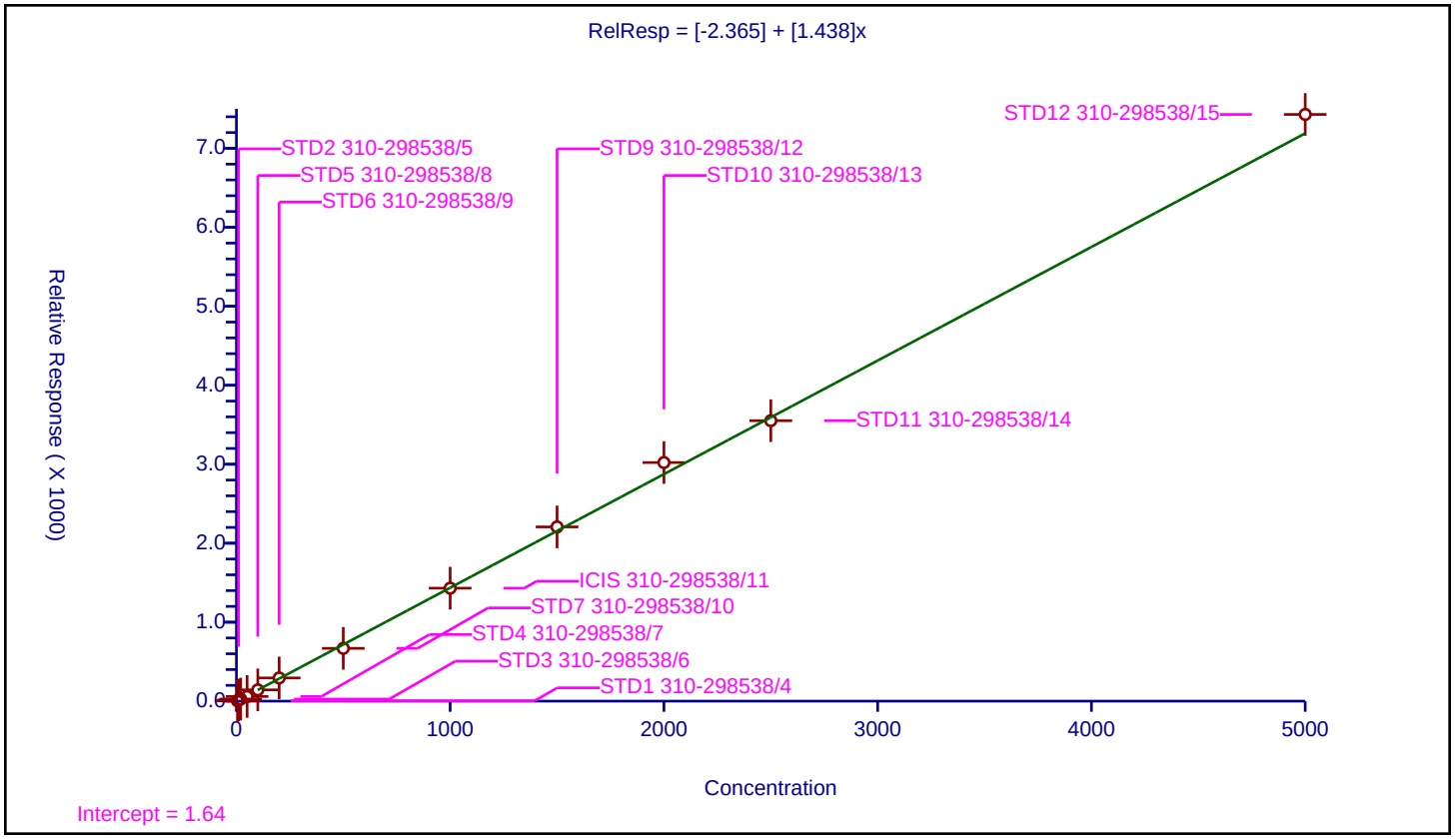
Curve Coefficients

Intercept:	-2.365
Slope:	1.438

Error Coefficients

Standard Error:	4710000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	5.0	4.356124	50.0	77810.0	0.871225	Y
2	STD2 310-298538/5	10.0	14.474897	50.0	80270.0	1.44749	Y
3	STD3 310-298538/6	20.0	25.706513	50.0	76821.0	1.285326	Y
4	STD4 310-298538/7	50.0	59.087666	50.0	79883.0	1.181753	Y
5	STD5 310-298538/8	100.0	142.939167	50.0	81074.0	1.429392	Y
6	STD6 310-298538/9	200.0	293.555598	50.0	79185.0	1.467778	Y
7	STD7 310-298538/10	500.0	668.785158	50.0	78397.0	1.33757	Y
8	ICIS 310-298538/11	1000.0	1430.66671	50.0	77245.0	1.430667	Y
9	STD9 310-298538/12	1500.0	2206.474284	50.0	77831.0	1.470983	Y
10	STD10 310-298538/13	2000.0	3021.553304	50.0	76392.0	1.510777	Y
11	STD11 310-298538/14	2500.0	3551.78258	50.0	84316.0	1.420713	Y
12	STD12 310-298538/15	5000.0	7429.533351	50.0	81496.0	1.485907	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

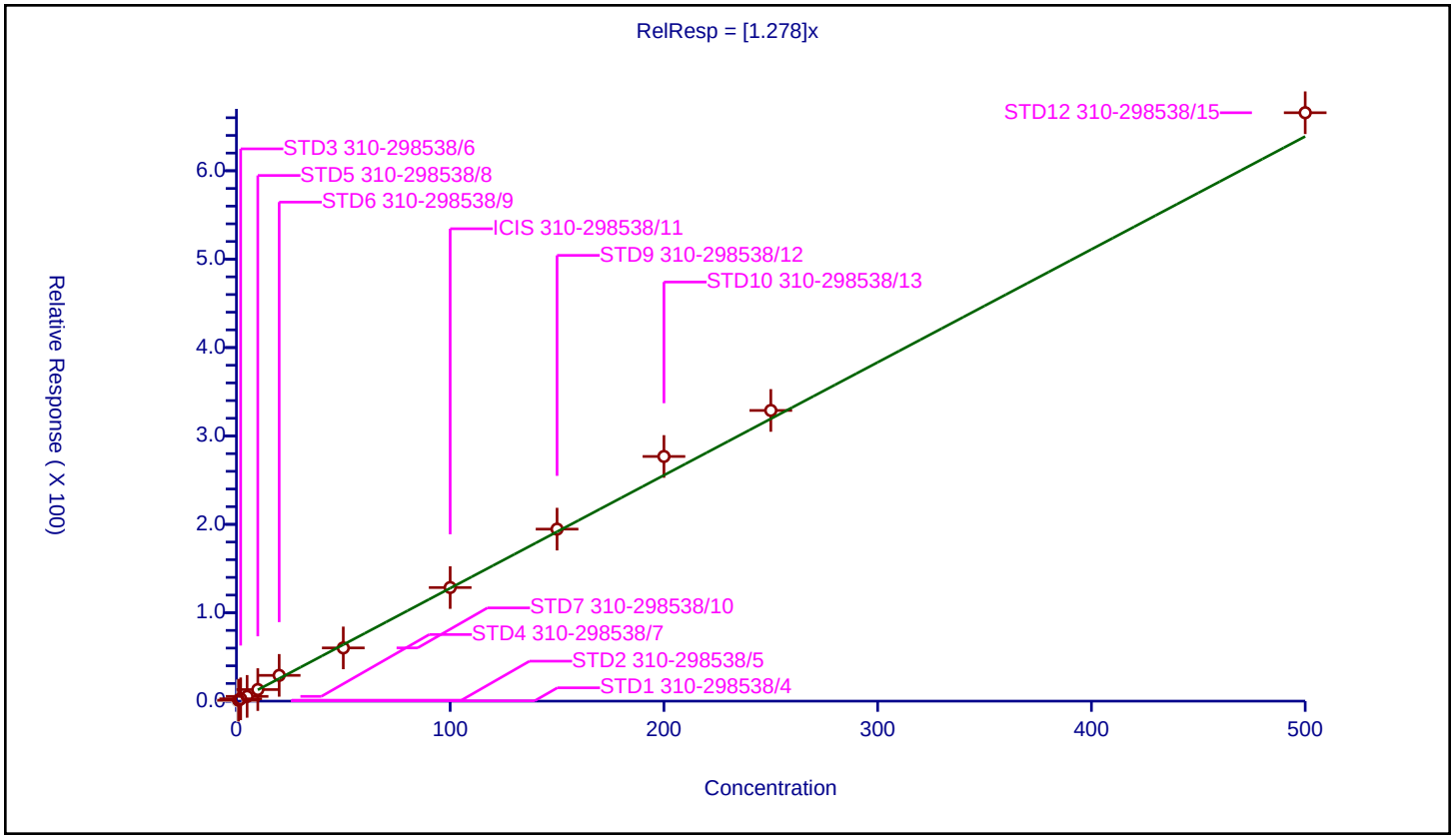
Curve Coefficients

Intercept:	0
Slope:	1.278

Error Coefficients

Standard Error:	425000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.368847	50.0	77810.0	0.737694	N
2	STD2 310-298538/5	1.0	1.074499	50.0	80270.0	1.074499	Y
3	STD3 310-298538/6	2.0	2.643808	50.0	76821.0	1.321904	Y
4	STD4 310-298538/7	5.0	5.378491	50.0	79883.0	1.075698	Y
5	STD5 310-298538/8	10.0	13.081259	50.0	81074.0	1.308126	Y
6	STD6 310-298538/9	20.0	29.141883	50.0	79185.0	1.457094	Y
7	STD7 310-298538/10	50.0	60.203197	50.0	78397.0	1.204064	Y
8	ICIS 310-298538/11	100.0	128.524824	50.0	77245.0	1.285248	Y
9	STD9 310-298538/12	150.0	194.588275	50.0	77831.0	1.297255	Y
10	STD10 310-298538/13	200.0	276.796654	50.0	76392.0	1.383983	Y
11	STD11 310-298538/14	250.0	328.864628	50.0	84316.0	1.315459	Y
12	STD12 310-298538/15	500.0	665.663345	50.0	81496.0	1.331327	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

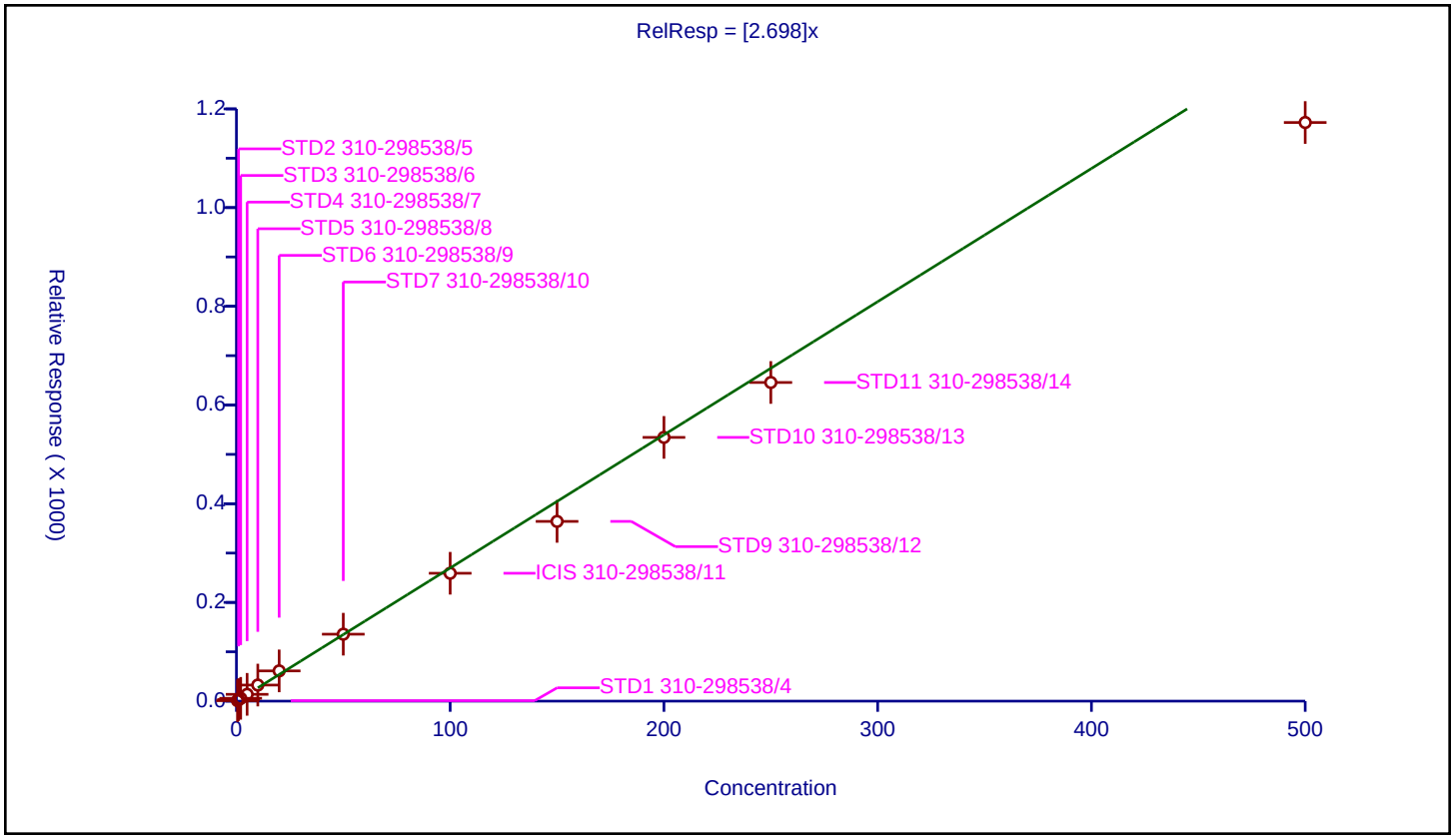
Curve Coefficients

Intercept:	0
Slope:	2.698

Error Coefficients

Standard Error:	741000
Relative Standard Error:	13.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.962601	50.0	77810.0	1.925202	Y
2	STD2 310-298538/5	1.0	3.181139	50.0	80270.0	3.181139	Y
3	STD3 310-298538/6	2.0	5.718488	50.0	76821.0	2.859244	Y
4	STD4 310-298538/7	5.0	13.783283	50.0	79883.0	2.756657	Y
5	STD5 310-298538/8	10.0	32.581962	50.0	81074.0	3.258196	Y
6	STD6 310-298538/9	20.0	61.288754	50.0	79185.0	3.064438	Y
7	STD7 310-298538/10	50.0	135.660803	50.0	78397.0	2.713216	Y
8	ICIS 310-298538/11	100.0	259.113859	50.0	77245.0	2.591139	Y
9	STD9 310-298538/12	150.0	364.168519	50.0	77831.0	2.42779	Y
10	STD10 310-298538/13	200.0	534.403472	50.0	76392.0	2.672017	Y
11	STD11 310-298538/14	250.0	645.650885	50.0	84316.0	2.582604	Y
12	STD12 310-298538/15	500.0	1172.419505	50.0	81496.0	2.344839	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

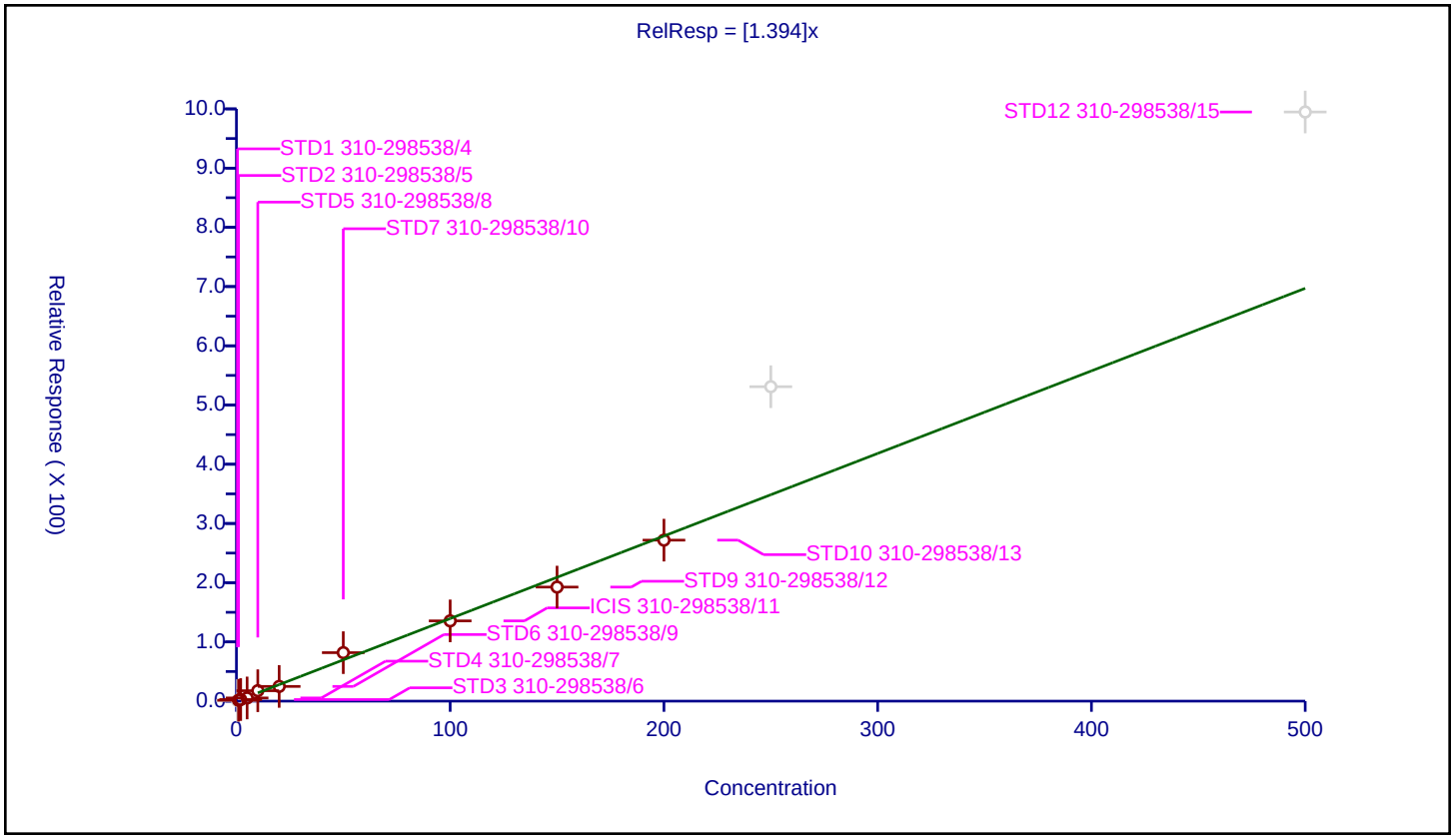
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Standard Error:	201000
Relative Standard Error:	14.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.014008	50.0	77810.0	2.028017	N
2	STD2 310-298538/5	1.0	1.489971	50.0	80270.0	1.489971	Y
3	STD3 310-298538/6	2.0	2.685464	50.0	76821.0	1.342732	Y
4	STD4 310-298538/7	5.0	5.36785	50.0	79883.0	1.07357	Y
5	STD5 310-298538/8	10.0	17.614772	50.0	81074.0	1.761477	Y
6	STD6 310-298538/9	20.0	24.851298	50.0	79185.0	1.242565	Y
7	STD7 310-298538/10	50.0	81.884511	50.0	78397.0	1.63769	Y
8	ICIS 310-298538/11	100.0	135.506505	50.0	77245.0	1.355065	Y
9	STD9 310-298538/12	150.0	192.607701	50.0	77831.0	1.284051	Y
10	STD10 310-298538/13	200.0	271.846528	50.0	76392.0	1.359233	Y
11	STD11 310-298538/14	250.0	530.925329	50.0	84316.0	2.123701	N
12	STD12 310-298538/15	500.0	994.740846	50.0	81496.0	1.989482	N



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

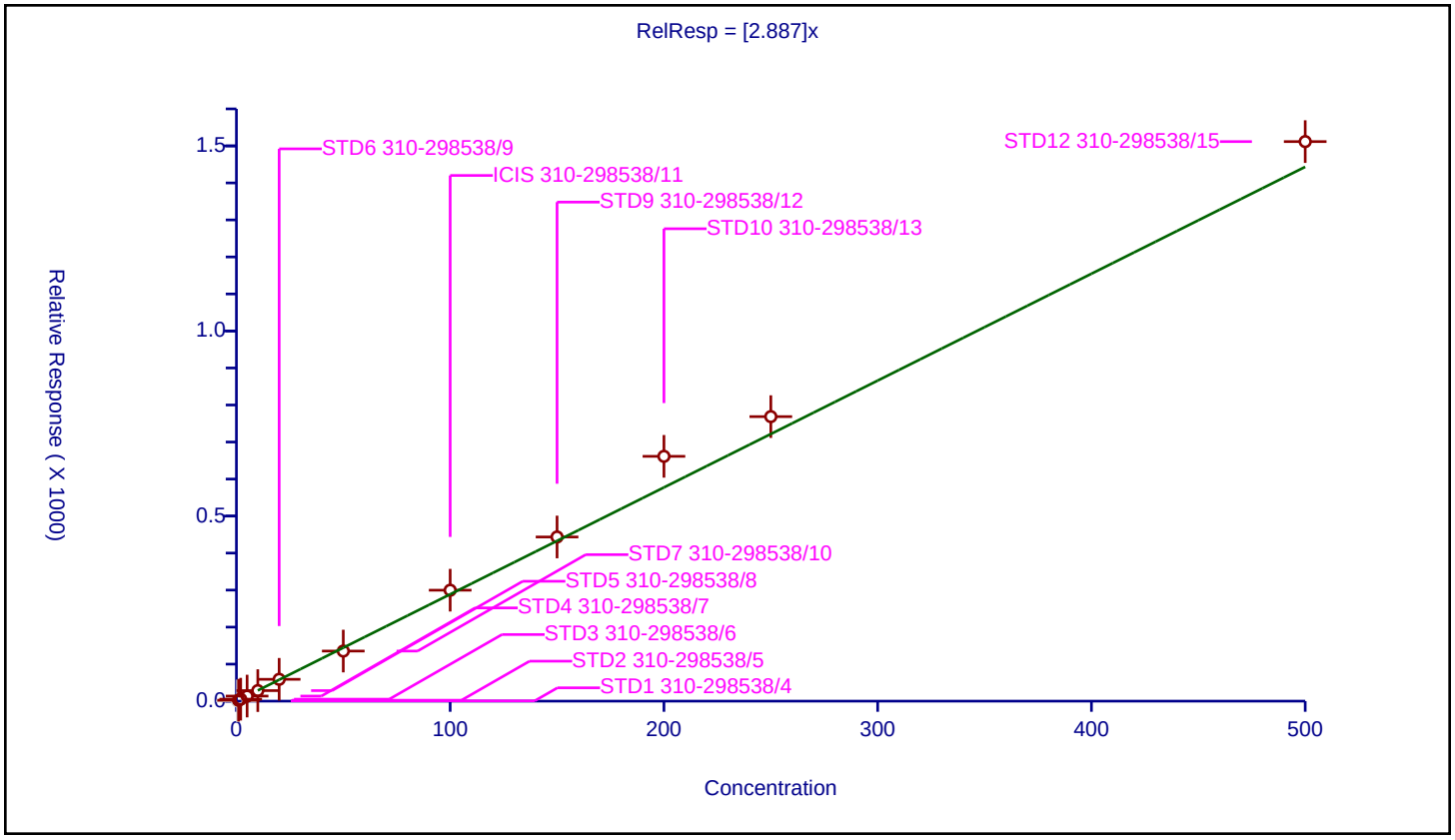
Curve Coefficients

Intercept:	0
Slope:	2.887

Error Coefficients

Standard Error:	975000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.767896	50.0	77810.0	1.535792	N
2	STD2 310-298538/5	1.0	2.489099	50.0	80270.0	2.489099	Y
3	STD3 310-298538/6	2.0	5.314953	50.0	76821.0	2.657476	Y
4	STD4 310-298538/7	5.0	13.731958	50.0	79883.0	2.746392	Y
5	STD5 310-298538/8	10.0	28.487555	50.0	81074.0	2.848755	Y
6	STD6 310-298538/9	20.0	58.949296	50.0	79185.0	2.947465	Y
7	STD7 310-298538/10	50.0	135.303009	50.0	78397.0	2.70606	Y
8	ICIS 310-298538/11	100.0	299.687358	50.0	77245.0	2.996874	Y
9	STD9 310-298538/12	150.0	443.51351	50.0	77831.0	2.956757	Y
10	STD10 310-298538/13	200.0	661.358519	50.0	76392.0	3.306793	Y
11	STD11 310-298538/14	250.0	768.656601	50.0	84316.0	3.074626	Y
12	STD12 310-298538/15	500.0	1511.608545	50.0	81496.0	3.023217	Y



Calibration / Vinyl acetate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

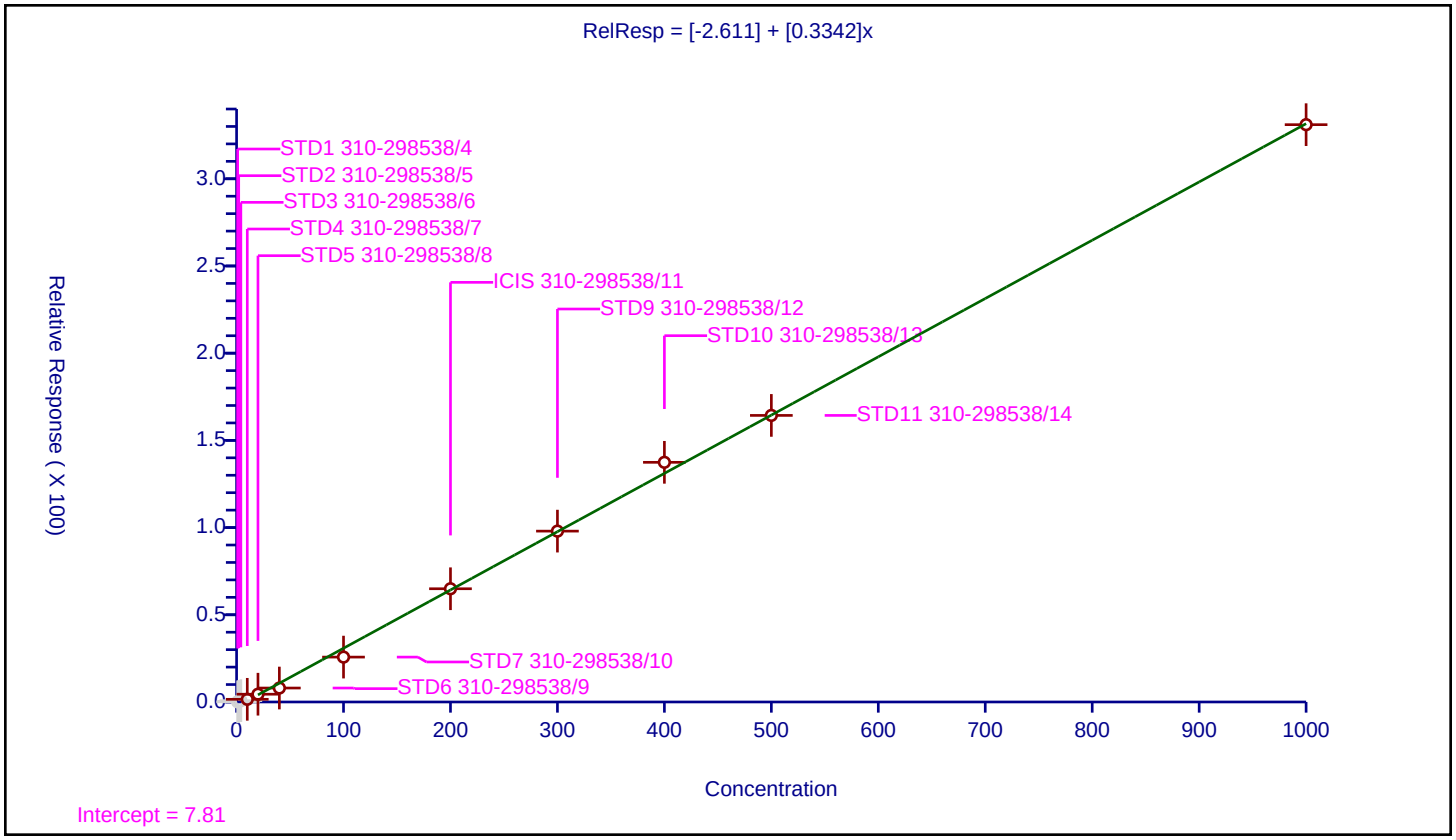
Curve Coefficients

Intercept:	-2.611
Slope:	0.3342

Error Coefficients

Standard Error:	253000
Relative Standard Error:	13.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	0.084822	50.0	77810.0	0.084822	N
2	STD2 310-298538/5	2.0	0.319547	50.0	80270.0	0.159773	N
3	STD3 310-298538/6	4.0	0.774528	50.0	76821.0	0.193632	N
4	STD4 310-298538/7	10.0	1.537874	50.0	79883.0	0.153787	Y
5	STD5 310-298538/8	20.0	4.459506	50.0	81074.0	0.222975	Y
6	STD6 310-298538/9	40.0	8.00341	50.0	79185.0	0.200085	Y
7	STD7 310-298538/10	100.0	25.736954	50.0	78397.0	0.25737	Y
8	ICIS 310-298538/11	200.0	64.930416	50.0	77245.0	0.324652	Y
9	STD9 310-298538/12	300.0	97.977027	50.0	77831.0	0.32659	Y
10	STD10 310-298538/13	400.0	137.425385	50.0	76392.0	0.343563	Y
11	STD11 310-298538/14	500.0	164.317567	50.0	84316.0	0.328635	Y
12	STD12 310-298538/15	1000.0	331.029744	50.0	81496.0	0.33103	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

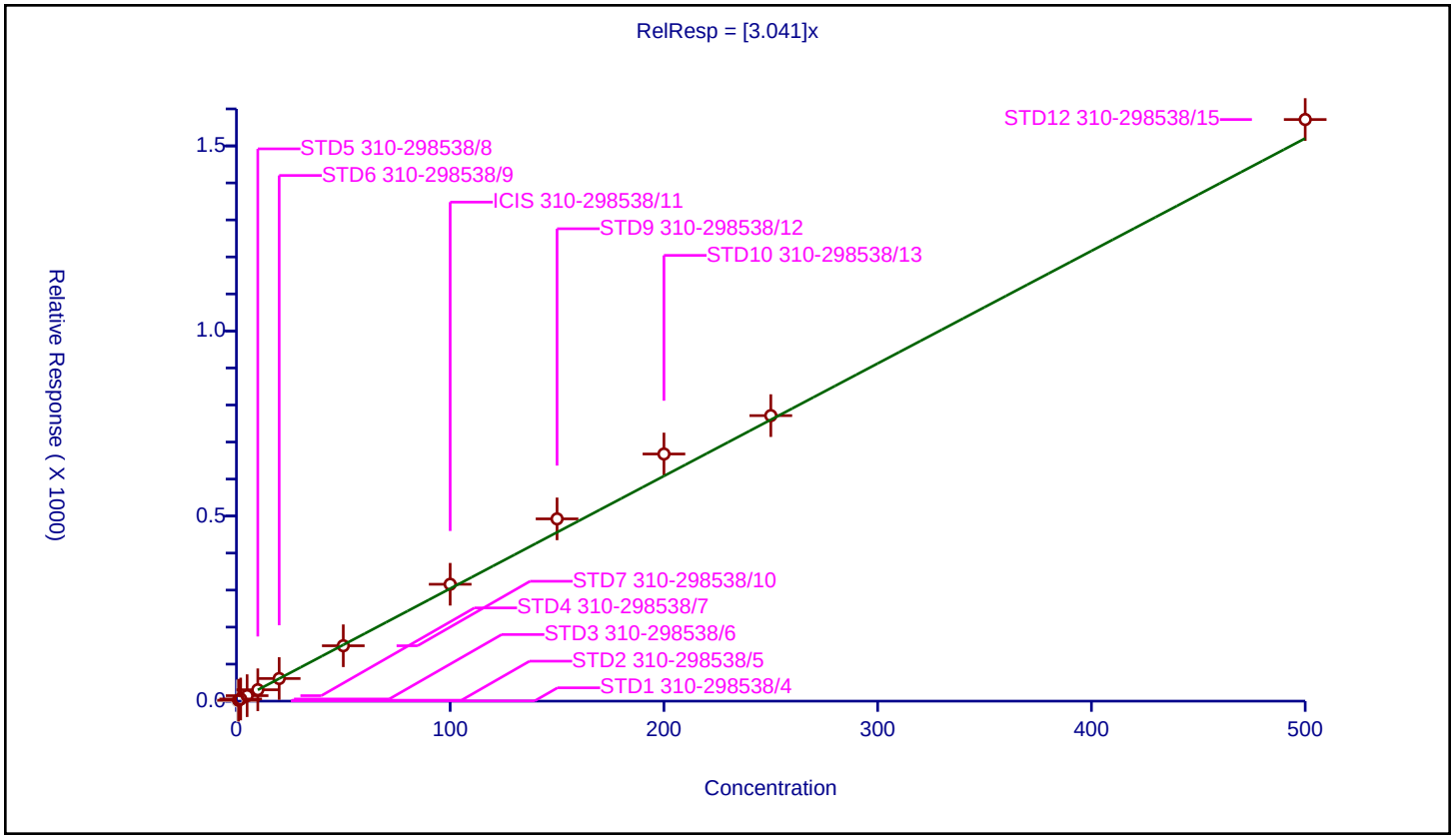
Curve Coefficients

Intercept:	0
Slope:	3.041

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.70428	50.0	77810.0	1.408559	N
2	STD2 310-298538/5	1.0	2.475396	50.0	80270.0	2.475396	Y
3	STD3 310-298538/6	2.0	5.77251	50.0	76821.0	2.886255	Y
4	STD4 310-298538/7	5.0	14.794762	50.0	79883.0	2.958952	Y
5	STD5 310-298538/8	10.0	30.733034	50.0	81074.0	3.073303	Y
6	STD6 310-298538/9	20.0	61.085433	50.0	79185.0	3.054272	Y
7	STD7 310-298538/10	50.0	149.651135	50.0	78397.0	2.993023	Y
8	ICIS 310-298538/11	100.0	315.796492	50.0	77245.0	3.157965	Y
9	STD9 310-298538/12	150.0	492.405982	50.0	77831.0	3.282707	Y
10	STD10 310-298538/13	200.0	667.683134	50.0	76392.0	3.338416	Y
11	STD11 310-298538/14	250.0	771.392737	50.0	84316.0	3.085571	Y
12	STD12 310-298538/15	500.0	1571.304113	50.0	81496.0	3.142608	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

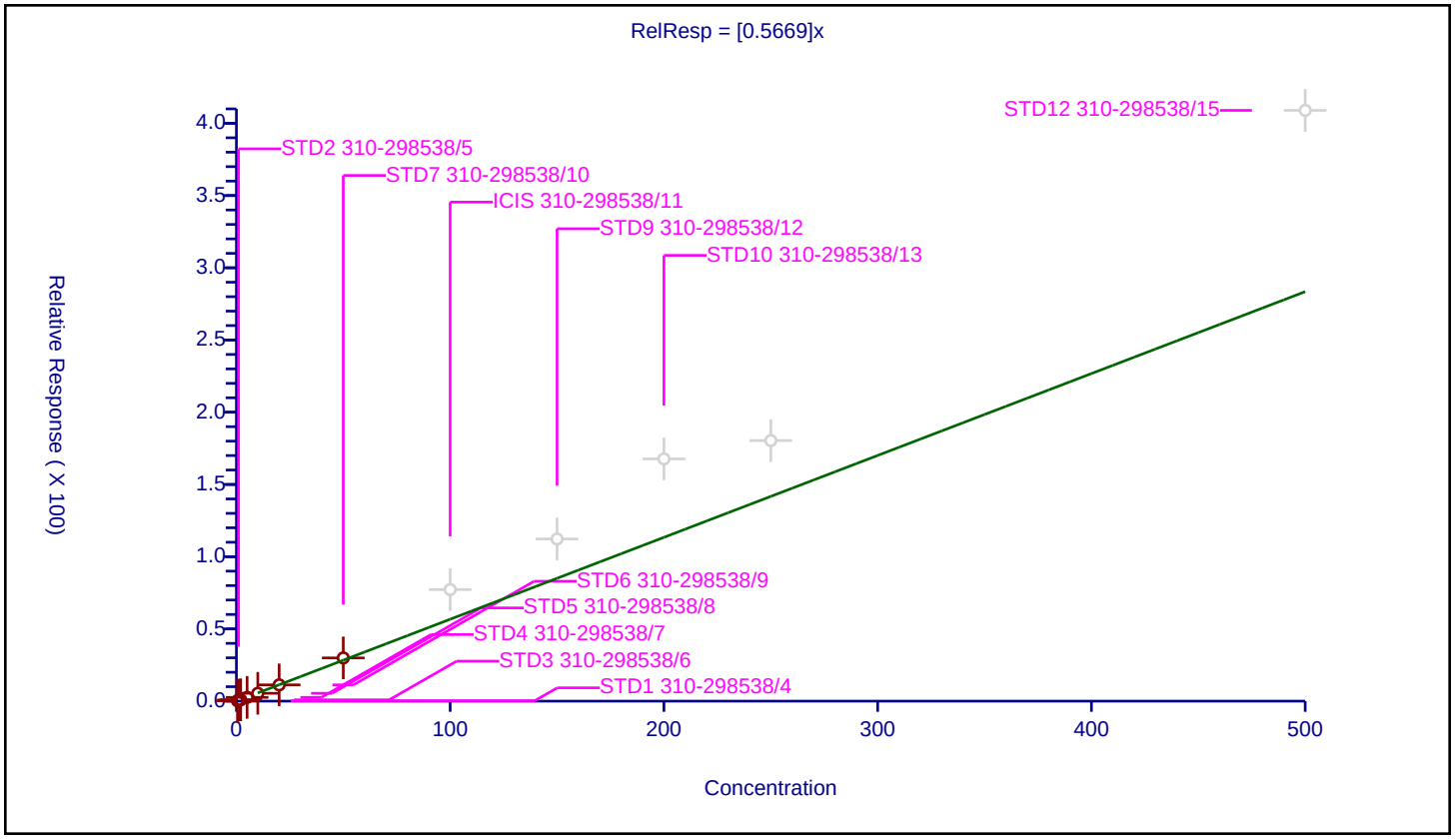
Curve Coefficients

Intercept:	0
Slope:	0.5669

Error Coefficients

Standard Error:	20900
Relative Standard Error:	16.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.258964	50.0	77810.0	0.517928	Y
2	STD2 310-298538/5	1.0	0.760558	50.0	80270.0	0.760558	Y
3	STD3 310-298538/6	2.0	0.932688	50.0	76821.0	0.466344	Y
4	STD4 310-298538/7	5.0	2.600053	50.0	79883.0	0.520011	Y
5	STD5 310-298538/8	10.0	5.426524	50.0	81074.0	0.542652	Y
6	STD6 310-298538/9	20.0	11.259708	50.0	79185.0	0.562985	Y
7	STD7 310-298538/10	50.0	29.907394	50.0	78397.0	0.598148	Y
8	ICIS 310-298538/11	100.0	77.255486	50.0	77245.0	0.772555	N
9	STD9 310-298538/12	150.0	112.268248	50.0	77831.0	0.748455	N
10	STD10 310-298538/13	200.0	167.707352	50.0	76392.0	0.838537	N
11	STD11 310-298538/14	250.0	180.397552	50.0	84316.0	0.72159	N
12	STD12 310-298538/15	500.0	408.968538	50.0	81496.0	0.817937	N



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

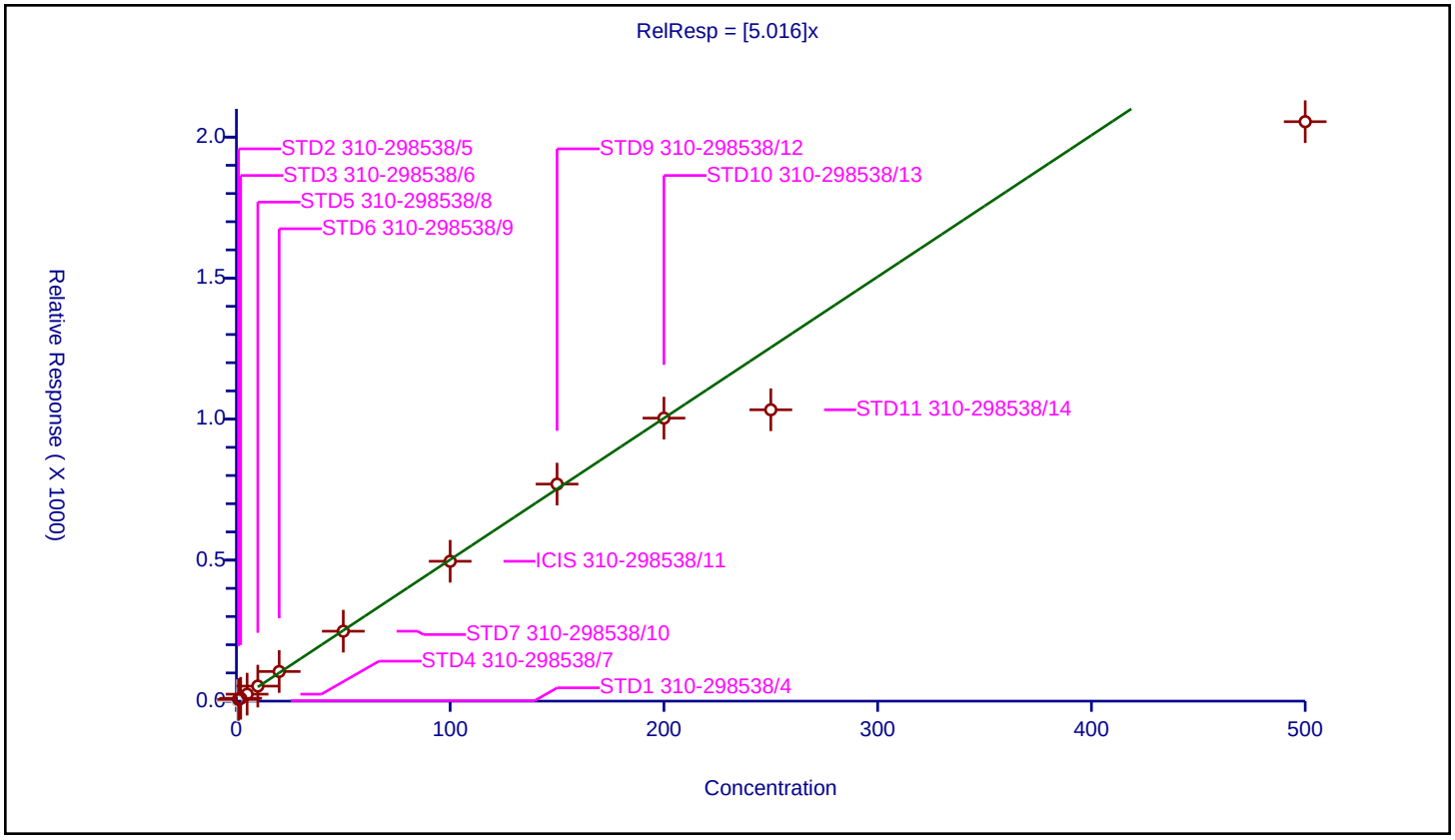
Curve Coefficients

Intercept:	0
Slope:	5.016

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	11.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.546716	50.0	77810.0	3.093433	N
2	STD2 310-298538/5	1.0	6.321166	50.0	80270.0	6.321166	Y
3	STD3 310-298538/6	2.0	10.051288	50.0	76821.0	5.025644	Y
4	STD4 310-298538/7	5.0	24.691111	50.0	79883.0	4.938222	Y
5	STD5 310-298538/8	10.0	53.318573	50.0	81074.0	5.331857	Y
6	STD6 310-298538/9	20.0	105.021784	50.0	79185.0	5.251089	Y
7	STD7 310-298538/10	50.0	247.99227	50.0	78397.0	4.959845	Y
8	ICIS 310-298538/11	100.0	495.924008	50.0	77245.0	4.95924	Y
9	STD9 310-298538/12	150.0	769.607226	50.0	77831.0	5.130715	Y
10	STD10 310-298538/13	200.0	1003.600508	50.0	76392.0	5.018003	Y
11	STD11 310-298538/14	250.0	1033.14792	50.0	84316.0	4.132592	Y
12	STD12 310-298538/15	500.0	2054.640105	50.0	81496.0	4.10928	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

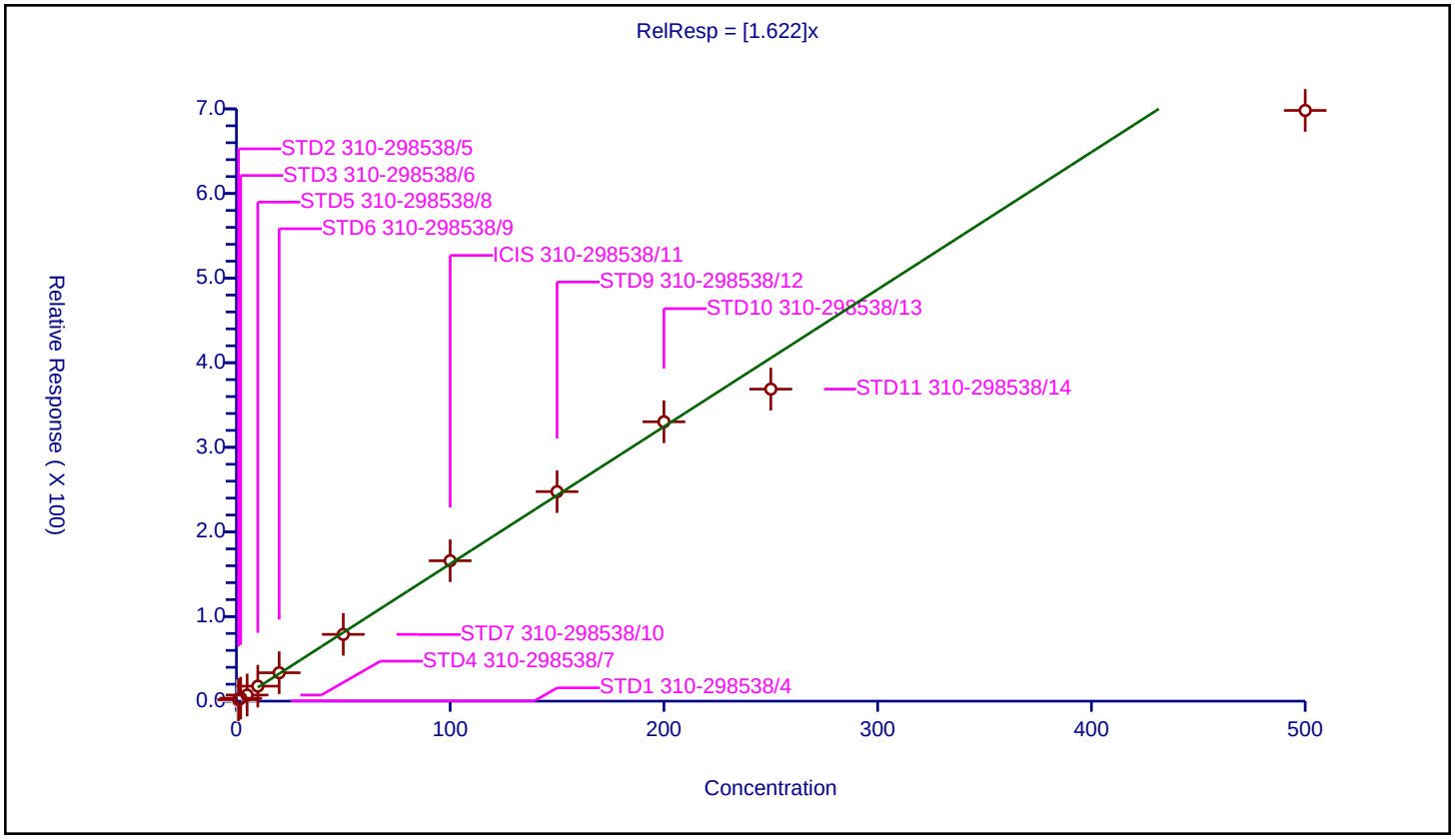
Curve Coefficients

Intercept:	0
Slope:	1.622

Error Coefficients

Standard Error:	465000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.449814	50.0	77810.0	0.899627	N
2	STD2 310-298538/5	1.0	1.780865	50.0	80270.0	1.780865	Y
3	STD3 310-298538/6	2.0	3.495138	50.0	76821.0	1.747569	Y
4	STD4 310-298538/7	5.0	7.268756	50.0	79883.0	1.453751	Y
5	STD5 310-298538/8	10.0	17.726398	50.0	81074.0	1.77264	Y
6	STD6 310-298538/9	20.0	33.558755	50.0	79185.0	1.677938	Y
7	STD7 310-298538/10	50.0	78.916923	50.0	78397.0	1.578338	Y
8	ICIS 310-298538/11	100.0	165.953136	50.0	77245.0	1.659531	Y
9	STD9 310-298538/12	150.0	247.624982	50.0	77831.0	1.650833	Y
10	STD10 310-298538/13	200.0	330.187716	50.0	76392.0	1.650939	Y
11	STD11 310-298538/14	250.0	368.788249	50.0	84316.0	1.475153	Y
12	STD12 310-298538/15	500.0	698.186414	50.0	81496.0	1.396373	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

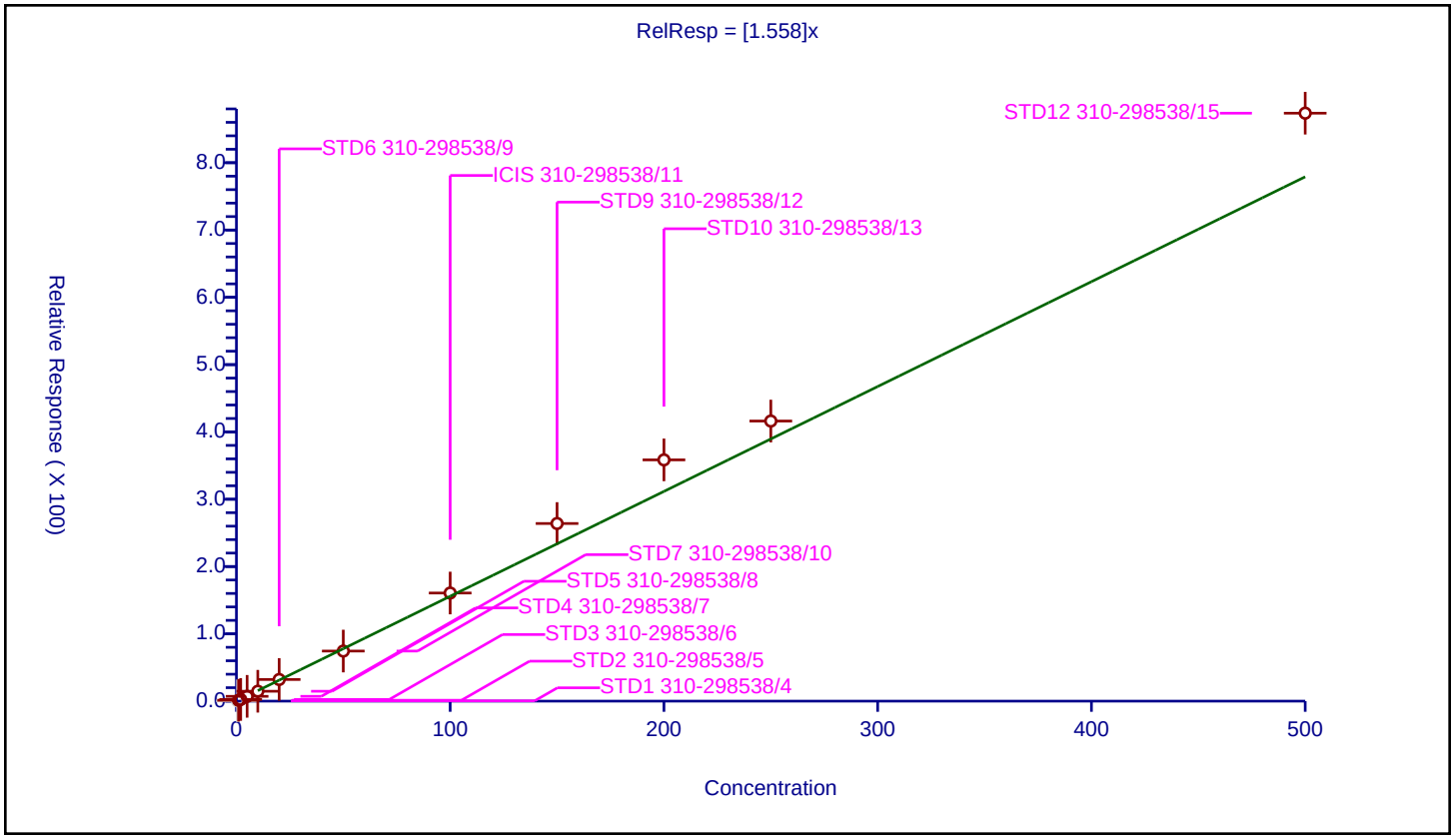
Curve Coefficients

Intercept:	0
Slope:	1.558

Error Coefficients

Standard Error:	554000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.454312	50.0	77810.0	0.908624	N
2	STD2 310-298538/5	1.0	1.334247	50.0	80270.0	1.334247	Y
3	STD3 310-298538/6	2.0	2.477187	50.0	76821.0	1.238594	Y
4	STD4 310-298538/7	5.0	7.156091	50.0	79883.0	1.431218	Y
5	STD5 310-298538/8	10.0	14.705084	50.0	81074.0	1.470508	Y
6	STD6 310-298538/9	20.0	32.139294	50.0	79185.0	1.606965	Y
7	STD7 310-298538/10	50.0	74.404633	50.0	78397.0	1.488093	Y
8	ICIS 310-298538/11	100.0	160.64988	50.0	77245.0	1.606499	Y
9	STD9 310-298538/12	150.0	263.957164	50.0	77831.0	1.759714	Y
10	STD10 310-298538/13	200.0	358.481255	50.0	76392.0	1.792406	Y
11	STD11 310-298538/14	250.0	416.186726	50.0	84316.0	1.664747	Y
12	STD12 310-298538/15	500.0	873.639197	50.0	81496.0	1.747278	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

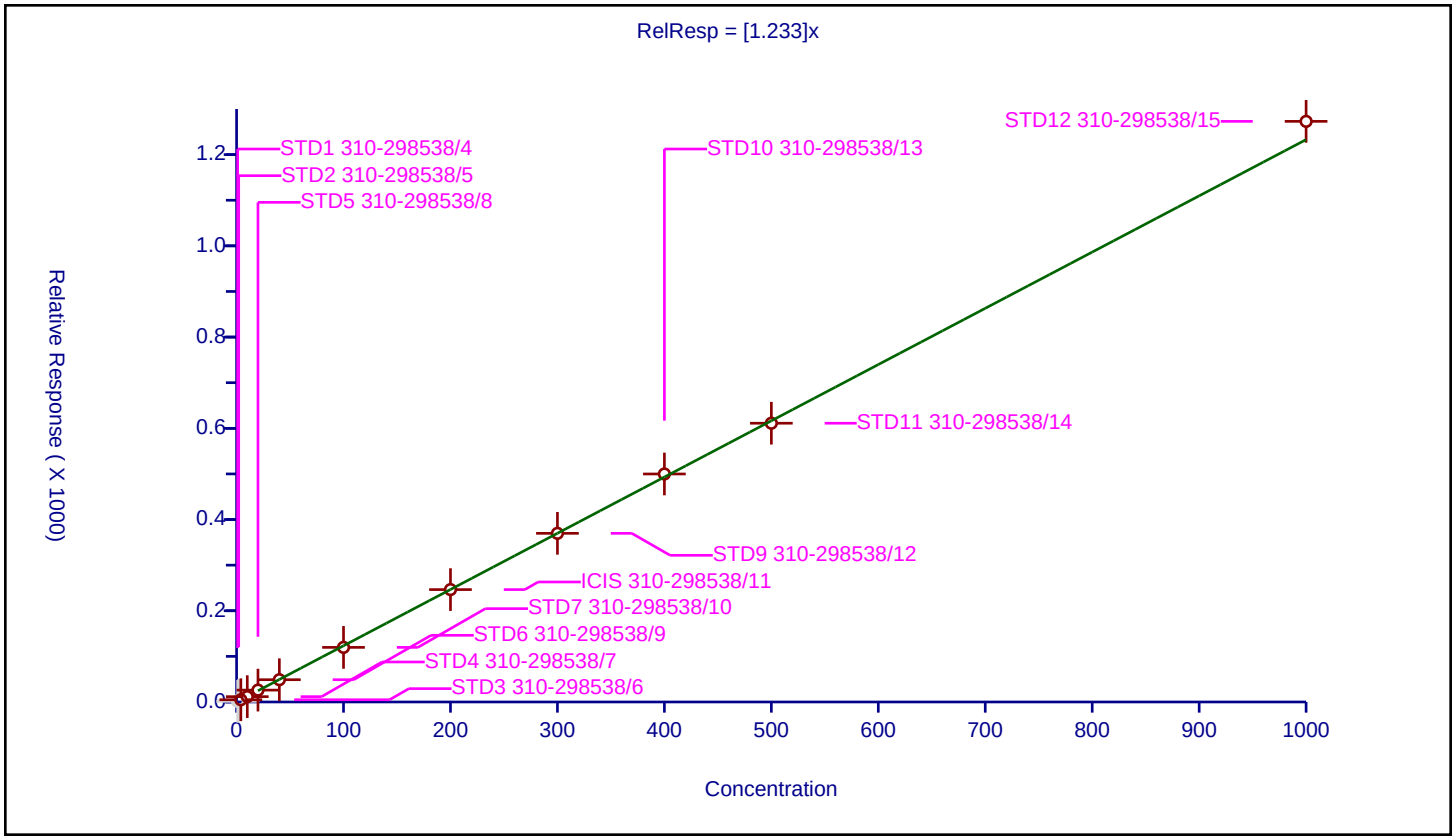
Curve Coefficients

Intercept:	0
Slope:	1.233

Error Coefficients

Standard Error:	847000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	1.347513	50.0	77810.0	1.347513	N
2	STD2 310-298538/5	2.0	3.666376	50.0	80270.0	1.833188	N
3	STD3 310-298538/6	4.0	4.917275	50.0	76821.0	1.229319	Y
4	STD4 310-298538/7	10.0	11.701488	50.0	79883.0	1.170149	Y
5	STD5 310-298538/8	20.0	26.055826	50.0	81074.0	1.302791	Y
6	STD6 310-298538/9	40.0	48.822378	50.0	79185.0	1.220559	Y
7	STD7 310-298538/10	100.0	119.711213	50.0	78397.0	1.197112	Y
8	ICIS 310-298538/11	200.0	246.368697	50.0	77245.0	1.231843	Y
9	STD9 310-298538/12	300.0	369.725431	50.0	77831.0	1.232418	Y
10	STD10 310-298538/13	400.0	499.888732	50.0	76392.0	1.249722	Y
11	STD11 310-298538/14	500.0	611.152095	50.0	84316.0	1.222304	Y
12	STD12 310-298538/15	1000.0	1272.907873	50.0	81496.0	1.272908	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

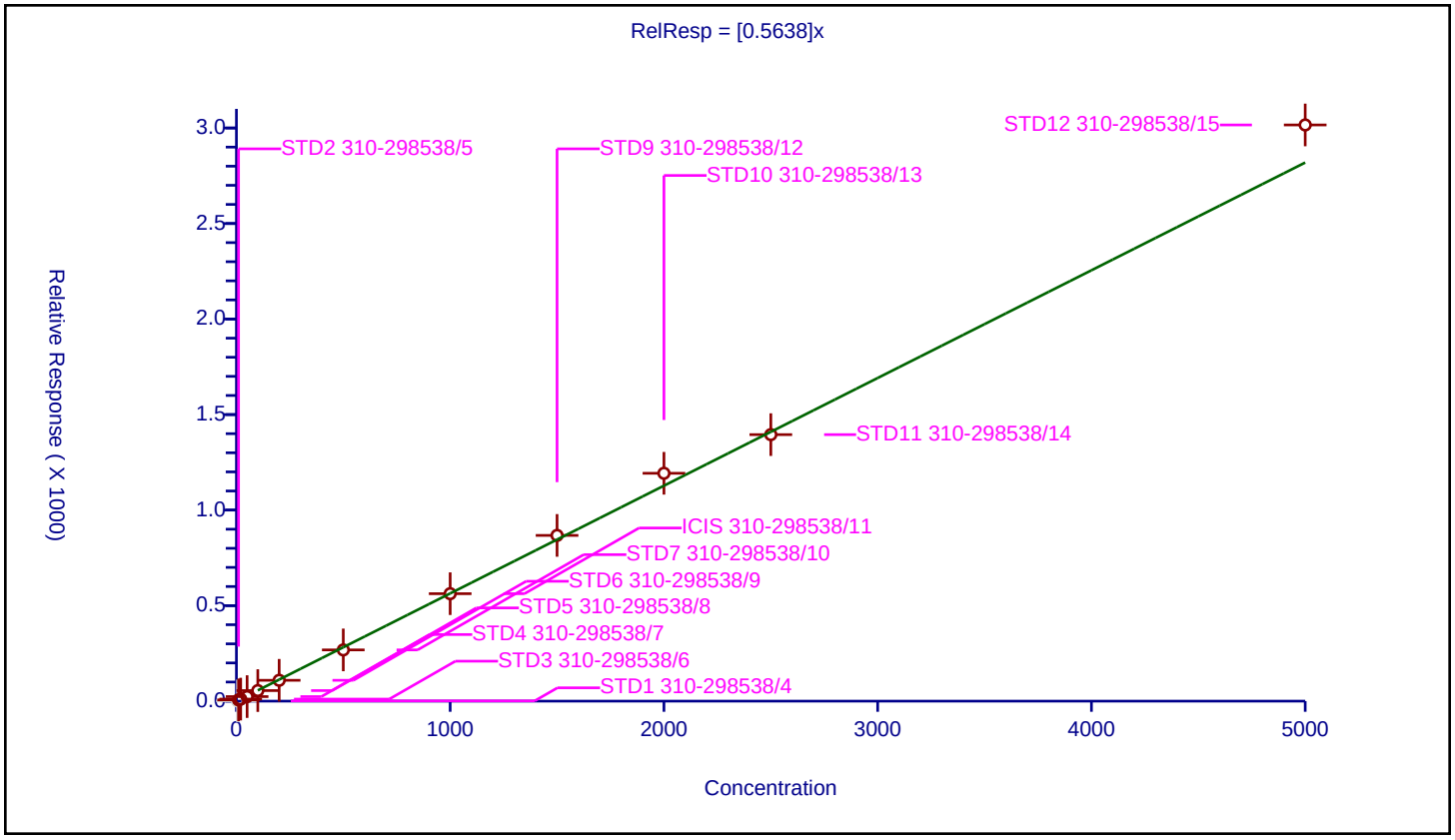
Curve Coefficients

Intercept:	0
Slope:	0.5638

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	5.0	1.386069	50.0	77810.0	0.277214	N
2	STD2 310-298538/5	10.0	6.58216	50.0	80270.0	0.658216	Y
3	STD3 310-298538/6	20.0	10.711915	50.0	76821.0	0.535596	Y
4	STD4 310-298538/7	50.0	23.795426	50.0	79883.0	0.475909	Y
5	STD5 310-298538/8	100.0	55.239658	50.0	81074.0	0.552397	Y
6	STD6 310-298538/9	200.0	109.038959	50.0	79185.0	0.545195	Y
7	STD7 310-298538/10	500.0	268.133347	50.0	78397.0	0.536267	Y
8	ICIS 310-298538/11	1000.0	562.393035	50.0	77245.0	0.562393	Y
9	STD9 310-298538/12	1500.0	867.54892	50.0	77831.0	0.578366	Y
10	STD10 310-298538/13	2000.0	1192.728951	50.0	76392.0	0.596364	Y
11	STD11 310-298538/14	2500.0	1394.993833	50.0	84316.0	0.557998	Y
12	STD12 310-298538/15	5000.0	3015.992196	50.0	81496.0	0.603198	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

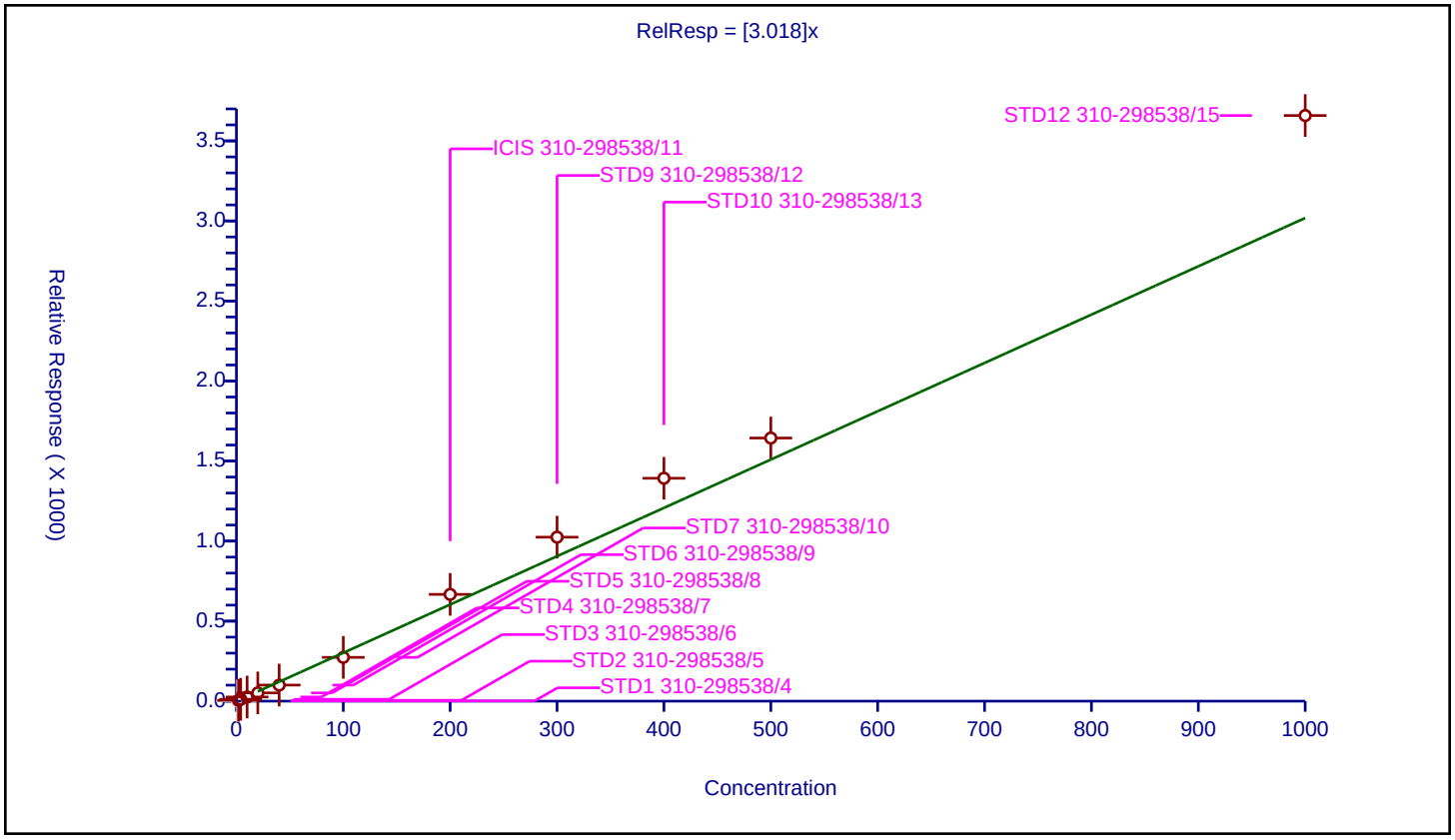
Curve Coefficients

Intercept:	0
Slope:	3.018

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	14.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	1.635394	50.0	77810.0	1.635394	N
2	STD2 310-298538/5	2.0	5.420456	50.0	80270.0	2.710228	Y
3	STD3 310-298538/6	4.0	11.632236	50.0	76821.0	2.908059	Y
4	STD4 310-298538/7	10.0	25.885983	50.0	79883.0	2.588598	Y
5	STD5 310-298538/8	20.0	51.488763	50.0	81074.0	2.574438	Y
6	STD6 310-298538/9	40.0	100.351708	50.0	79185.0	2.508793	Y
7	STD7 310-298538/10	100.0	273.527048	50.0	78397.0	2.73527	Y
8	ICIS 310-298538/11	200.0	666.915011	50.0	77245.0	3.334575	Y
9	STD9 310-298538/12	300.0	1024.452981	50.0	77831.0	3.414843	Y
10	STD10 310-298538/13	400.0	1392.541758	50.0	76392.0	3.481354	Y
11	STD11 310-298538/14	500.0	1643.695147	50.0	84316.0	3.28739	Y
12	STD12 310-298538/15	1000.0	3658.409002	50.0	81496.0	3.658409	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

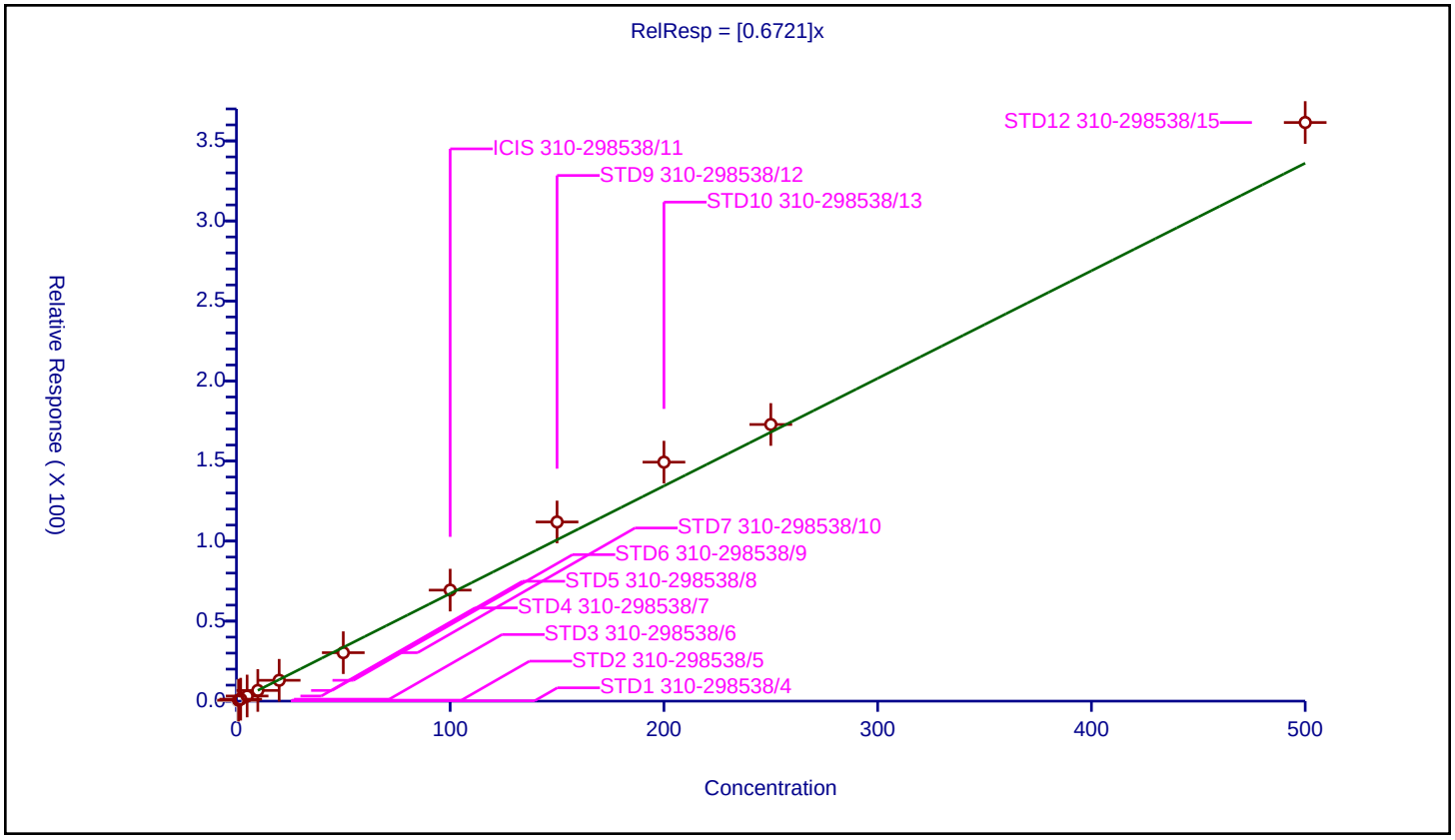
Curve Coefficients

Intercept:	0
Slope:	0.6721

Error Coefficients

Standard Error:	230000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.223622	50.0	77810.0	0.447243	N
2	STD2 310-298538/5	1.0	0.612931	50.0	80270.0	0.612931	Y
3	STD3 310-298538/6	2.0	1.226878	50.0	76821.0	0.613439	Y
4	STD4 310-298538/7	5.0	3.209068	50.0	79883.0	0.641814	Y
5	STD5 310-298538/8	10.0	6.682167	50.0	81074.0	0.668217	Y
6	STD6 310-298538/9	20.0	13.020143	50.0	79185.0	0.651007	Y
7	STD7 310-298538/10	50.0	30.274118	50.0	78397.0	0.605482	Y
8	ICIS 310-298538/11	100.0	69.357887	50.0	77245.0	0.693579	Y
9	STD9 310-298538/12	150.0	111.940615	50.0	77831.0	0.746271	Y
10	STD10 310-298538/13	200.0	149.31341	50.0	76392.0	0.746567	Y
11	STD11 310-298538/14	250.0	172.833744	50.0	84316.0	0.691335	Y
12	STD12 310-298538/15	500.0	361.49811	50.0	81496.0	0.722996	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

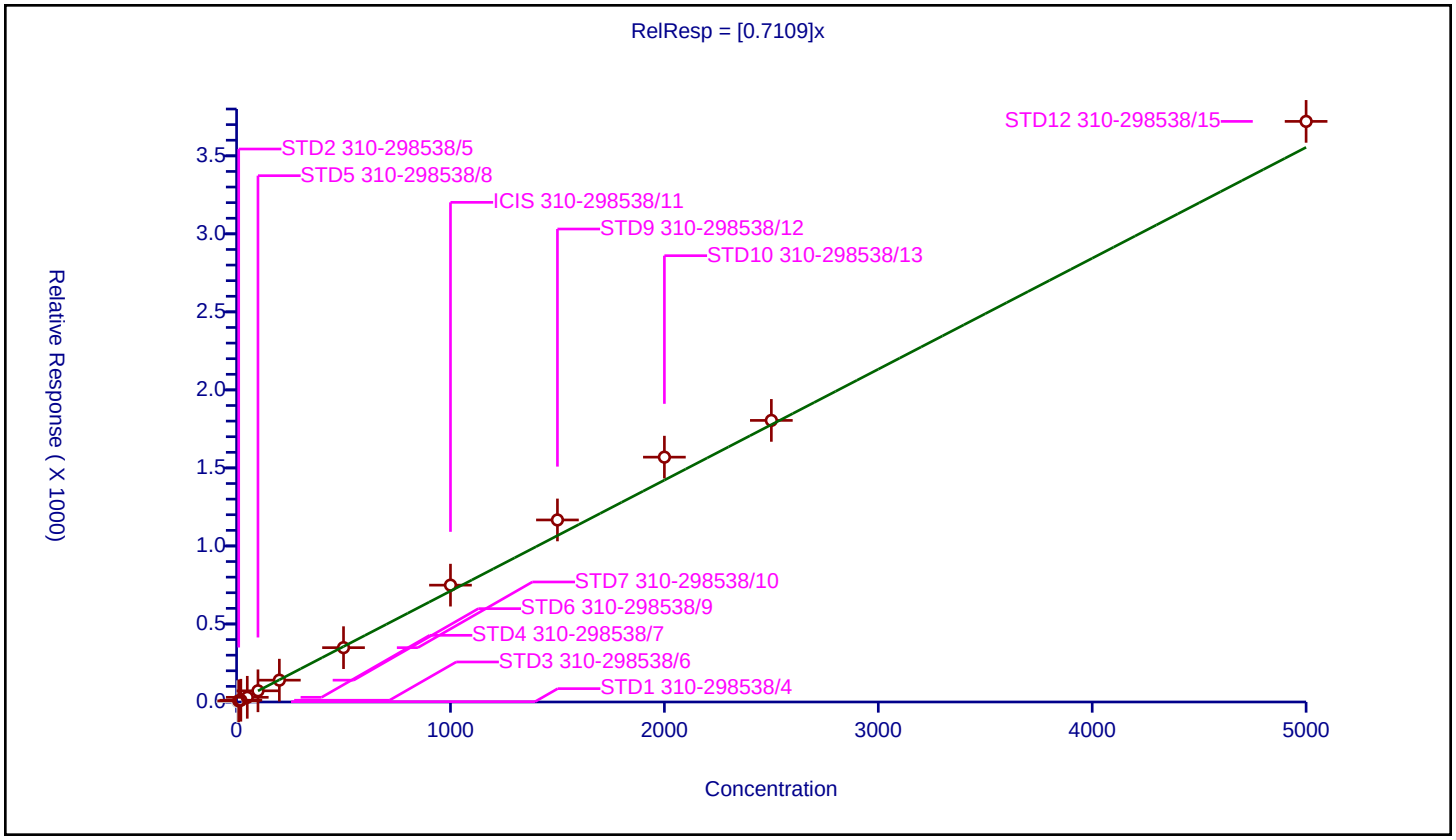
Curve Coefficients

Intercept:	0
Slope:	0.7109

Error Coefficients

Standard Error:	2380000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	5.0	2.204729	50.0	77810.0	0.440946	N
2	STD2 310-298538/5	10.0	7.658527	50.0	80270.0	0.765853	Y
3	STD3 310-298538/6	20.0	11.242369	50.0	76821.0	0.562118	Y
4	STD4 310-298538/7	50.0	30.075861	50.0	79883.0	0.601517	Y
5	STD5 310-298538/8	100.0	71.735698	50.0	81074.0	0.717357	Y
6	STD6 310-298538/9	200.0	139.934331	50.0	79185.0	0.699672	Y
7	STD7 310-298538/10	500.0	348.192533	50.0	78397.0	0.696385	Y
8	ICIS 310-298538/11	1000.0	748.774031	50.0	77245.0	0.748774	Y
9	STD9 310-298538/12	1500.0	1166.500495	50.0	77831.0	0.777667	Y
10	STD10 310-298538/13	2000.0	1568.96141	50.0	76392.0	0.784481	Y
11	STD11 310-298538/14	2500.0	1804.518715	50.0	84316.0	0.721807	Y
12	STD12 310-298538/15	5000.0	3720.707151	50.0	81496.0	0.744141	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

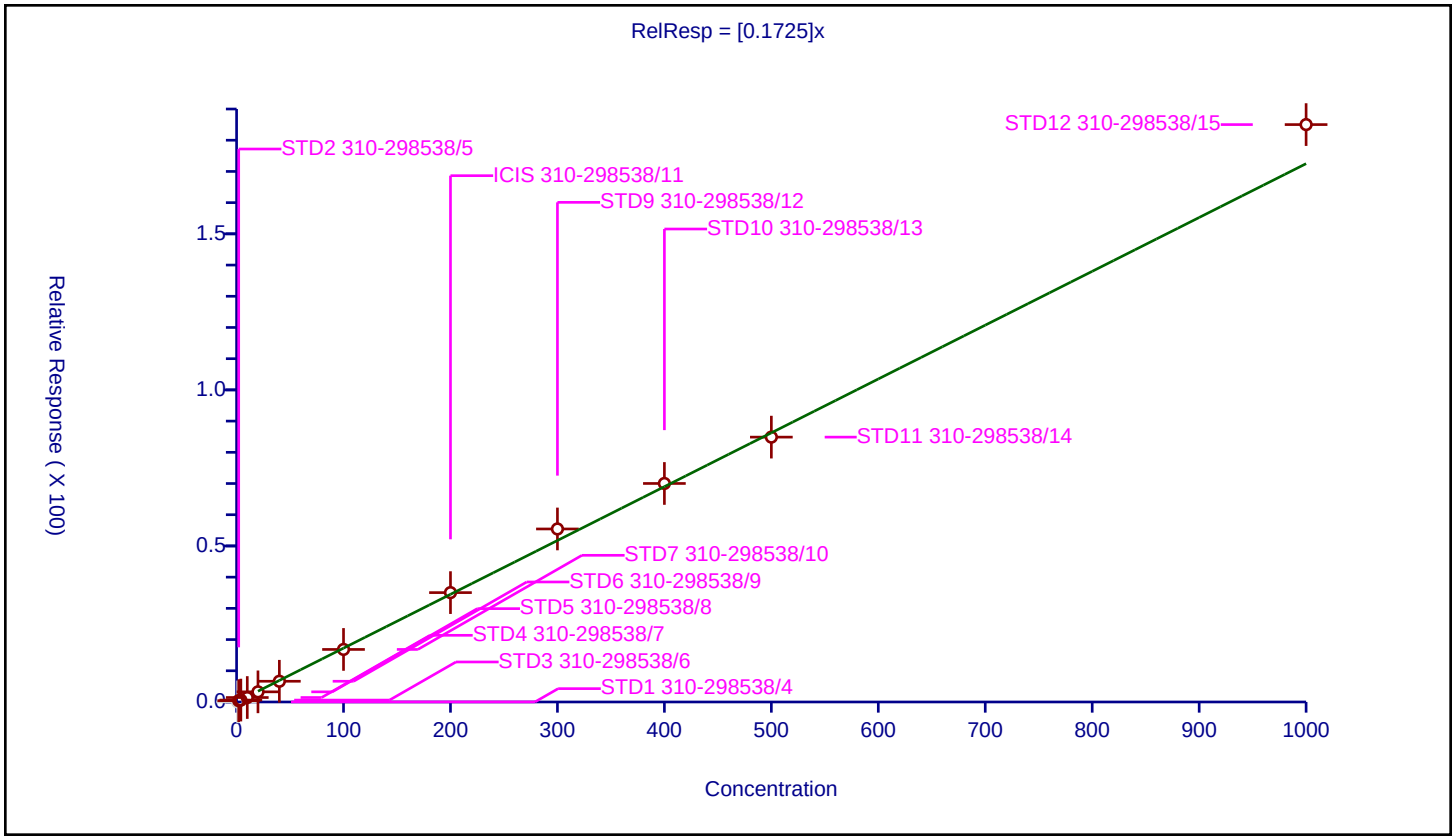
Curve Coefficients

Intercept:	0
Slope:	0.1725

Error Coefficients

Standard Error:	116000
Relative Standard Error:	11.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	0.033415	50.0	77810.0	0.033415	N
2	STD2 310-298538/5	2.0	0.430422	50.0	80270.0	0.215211	Y
3	STD3 310-298538/6	4.0	0.609208	50.0	76821.0	0.152302	Y
4	STD4 310-298538/7	10.0	1.432094	50.0	79883.0	0.143209	Y
5	STD5 310-298538/8	20.0	3.248884	50.0	81074.0	0.162444	Y
6	STD6 310-298538/9	40.0	6.643935	50.0	79185.0	0.166098	Y
7	STD7 310-298538/10	100.0	16.833552	50.0	78397.0	0.168336	Y
8	ICIS 310-298538/11	200.0	35.043045	50.0	77245.0	0.175215	Y
9	STD9 310-298538/12	300.0	55.439992	50.0	77831.0	0.1848	Y
10	STD10 310-298538/13	400.0	70.016494	50.0	76392.0	0.175041	Y
11	STD11 310-298538/14	500.0	84.86942	50.0	84316.0	0.169739	Y
12	STD12 310-298538/15	1000.0	185.006013	50.0	81496.0	0.185006	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

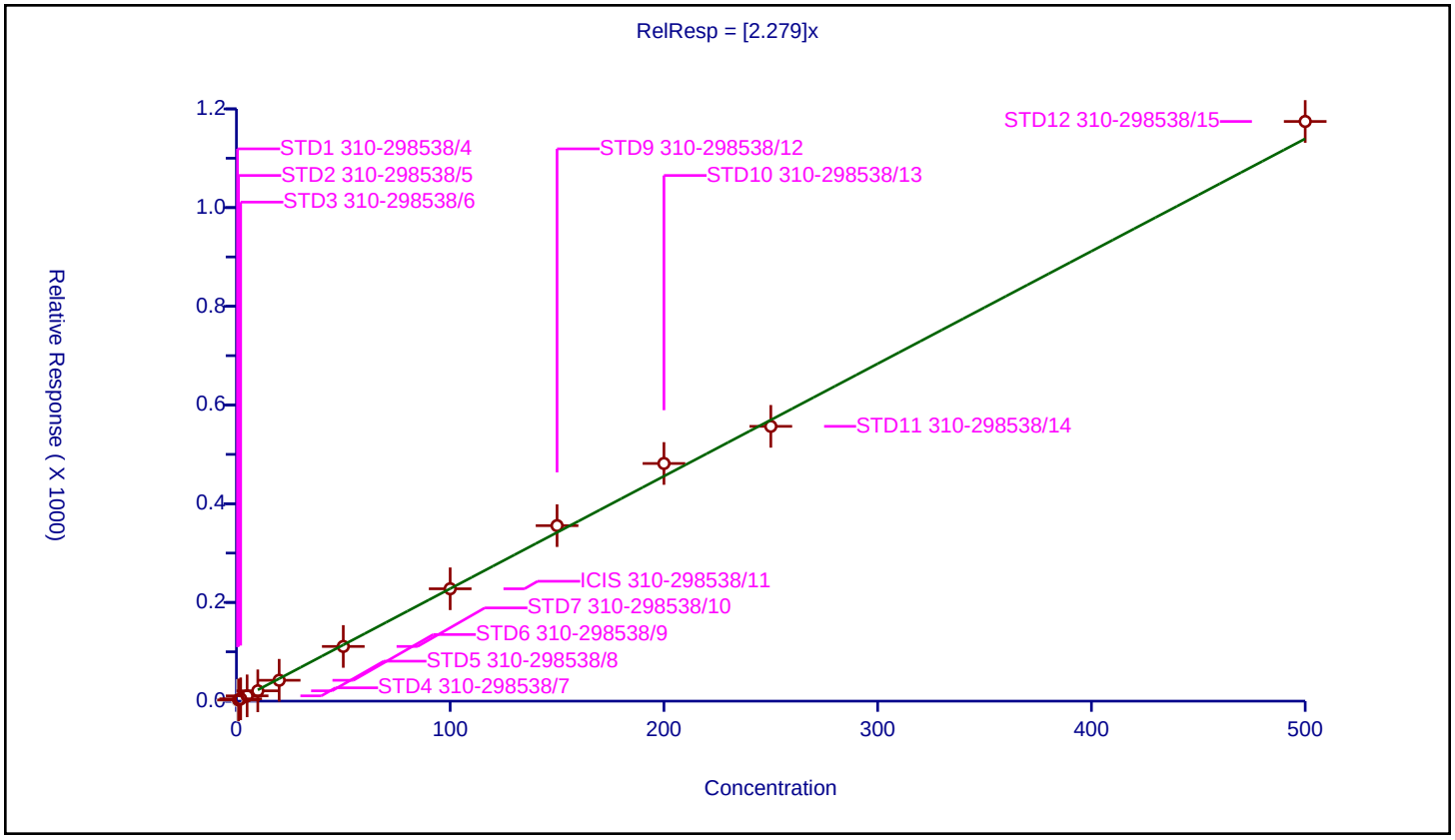
Curve Coefficients

Intercept:	0
Slope:	2.279

Error Coefficients

Standard Error:	745000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.538363	50.0	77810.0	3.076725	N
2	STD2 310-298538/5	1.0	2.505295	50.0	80270.0	2.505295	Y
3	STD3 310-298538/6	2.0	4.744796	50.0	76821.0	2.372398	Y
4	STD4 310-298538/7	5.0	10.69752	50.0	79883.0	2.139504	Y
5	STD5 310-298538/8	10.0	20.889558	50.0	81074.0	2.088956	Y
6	STD6 310-298538/9	20.0	42.295258	50.0	79185.0	2.114763	Y
7	STD7 310-298538/10	50.0	110.837149	50.0	78397.0	2.216743	Y
8	ICIS 310-298538/11	100.0	227.668458	50.0	77245.0	2.276685	Y
9	STD9 310-298538/12	150.0	355.585178	50.0	77831.0	2.370568	Y
10	STD10 310-298538/13	200.0	481.573987	50.0	76392.0	2.40787	Y
11	STD11 310-298538/14	250.0	556.804758	50.0	84316.0	2.227219	Y
12	STD12 310-298538/15	500.0	1174.547831	50.0	81496.0	2.349096	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

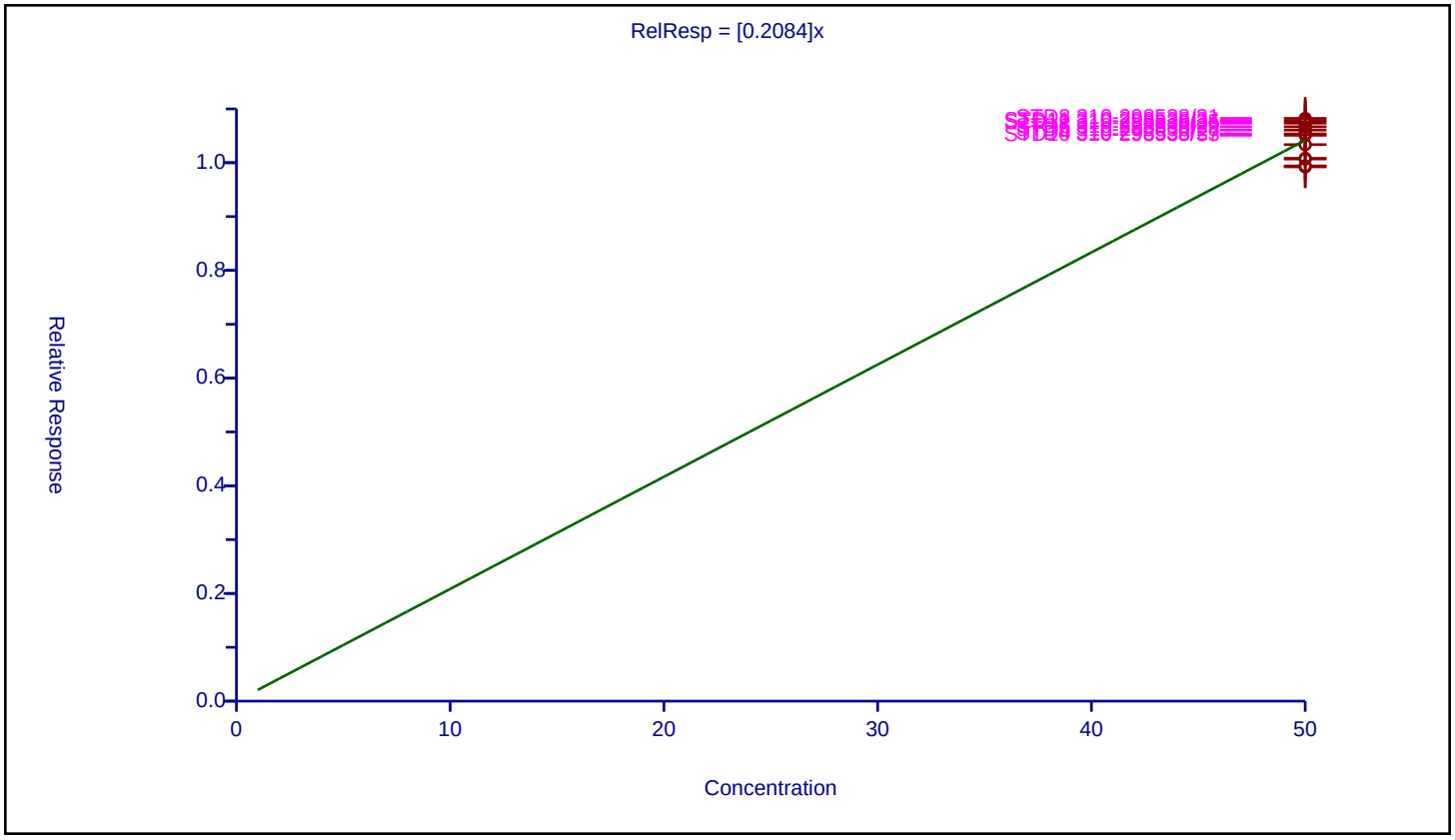
Curve Coefficients

Intercept:	0
Slope:	0.2084

Error Coefficients

Standard Error:	16700
Relative Standard Error:	3.2
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	50.0	9.940996	50.0	81350.0	0.19882	Y
2	STD2 310-298538/25	50.0	10.082214	50.0	79427.0	0.201644	Y
3	STD3 310-298538/26	50.0	9.922946	50.0	77089.0	0.198459	Y
4	STD4 310-298538/27	50.0	10.536146	50.0	75763.0	0.210723	Y
5	STD5 310-298538/28	50.0	10.606099	50.0	78733.0	0.212122	Y
6	STD6 310-298538/29	50.0	10.668068	50.0	78046.0	0.213361	Y
7	STD7 310-298538/30	50.0	10.33619	50.0	77843.0	0.206724	Y
8	STD8 310-298538/31	50.0	10.82387	50.0	76262.0	0.216477	Y
9	STD9 310-298538/32	50.0	10.069127	50.0	74356.0	0.201383	Y
10	STD10 310-298538/33	50.0	10.509497	50.0	72444.0	0.21019	Y
11	STD11 310-298538/34	50.0	10.780799	50.0	74475.0	0.215616	Y
12	STD12 310-298538/35	50.0	10.734196	50.0	73904.0	0.214684	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

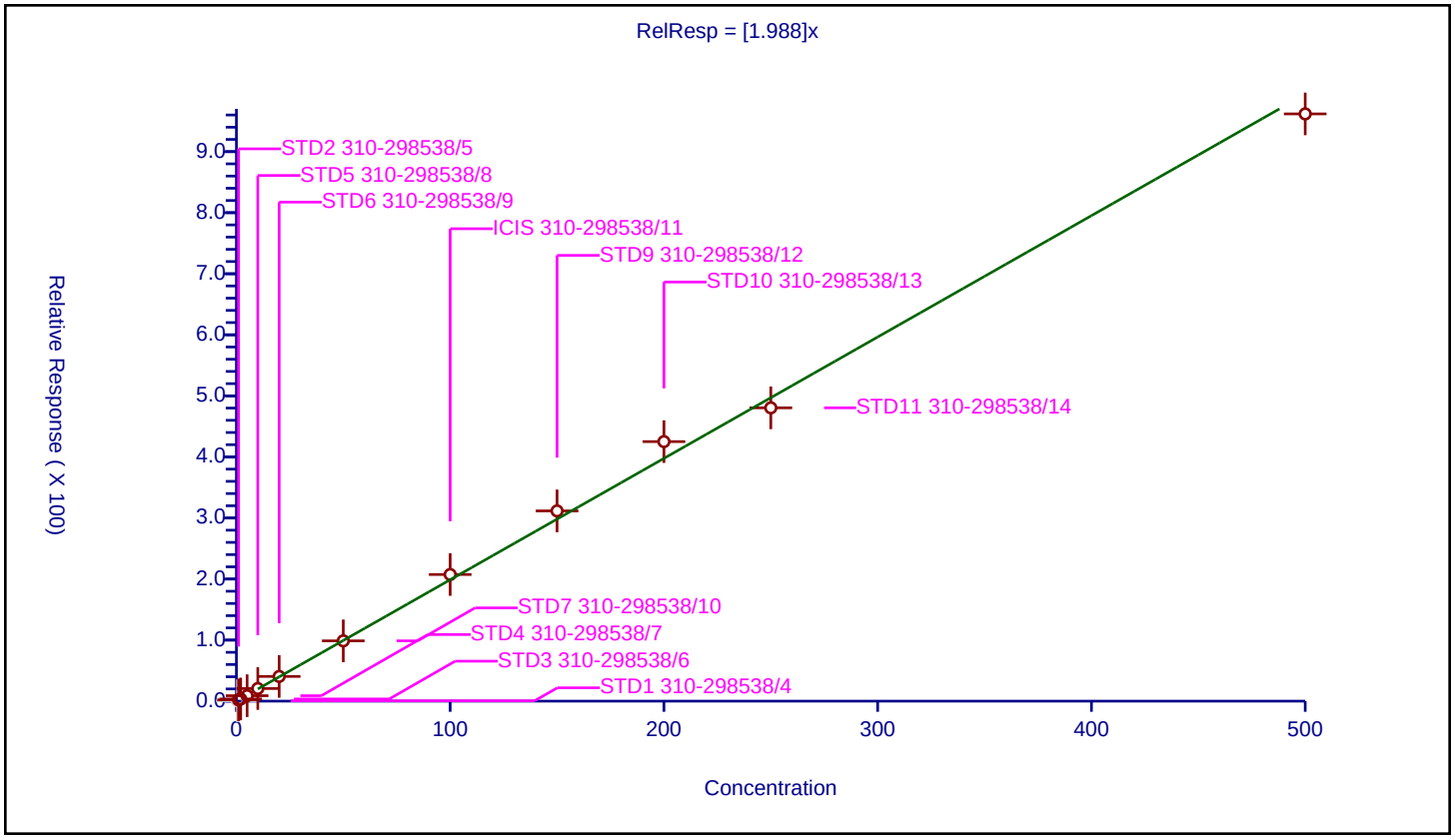
Curve Coefficients

Intercept:	0
Slope:	1.988

Error Coefficients

Standard Error:	624000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.571263	50.0	77810.0	1.142527	N
2	STD2 310-298538/5	1.0	2.108509	50.0	80270.0	2.108509	Y
3	STD3 310-298538/6	2.0	3.573893	50.0	76821.0	1.786946	Y
4	STD4 310-298538/7	5.0	8.91992	50.0	79883.0	1.783984	Y
5	STD5 310-298538/8	10.0	20.673089	50.0	81074.0	2.067309	Y
6	STD6 310-298538/9	20.0	40.46726	50.0	79185.0	2.023363	Y
7	STD7 310-298538/10	50.0	98.758881	50.0	78397.0	1.975178	Y
8	ICIS 310-298538/11	100.0	207.392064	50.0	77245.0	2.073921	Y
9	STD9 310-298538/12	150.0	311.552595	50.0	77831.0	2.077017	Y
10	STD10 310-298538/13	200.0	425.094905	50.0	76392.0	2.125475	Y
11	STD11 310-298538/14	250.0	480.404668	50.0	84316.0	1.921619	Y
12	STD12 310-298538/15	500.0	961.778492	50.0	81496.0	1.923557	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

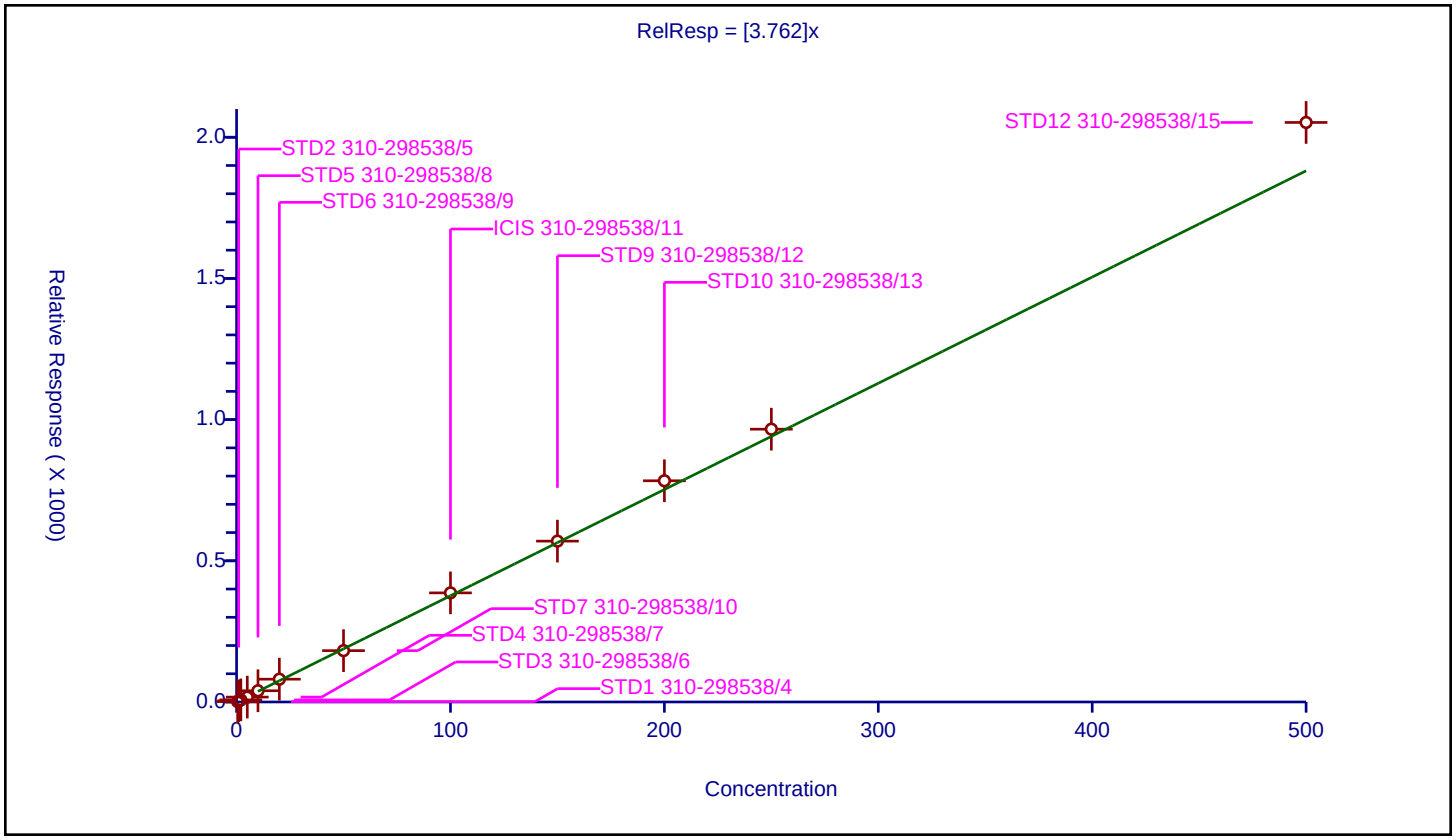
Curve Coefficients

Intercept:	0
Slope:	3.762

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	10.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.3443	50.0	77810.0	2.6886	Y
2	STD2 310-298538/5	1.0	4.098044	50.0	80270.0	4.098044	Y
3	STD3 310-298538/6	2.0	7.399018	50.0	76821.0	3.699509	Y
4	STD4 310-298538/7	5.0	17.29905	50.0	79883.0	3.45981	Y
5	STD5 310-298538/8	10.0	39.76614	50.0	81074.0	3.976614	Y
6	STD6 310-298538/9	20.0	80.81518	50.0	79185.0	4.040759	Y
7	STD7 310-298538/10	50.0	181.838591	50.0	78397.0	3.636772	Y
8	ICIS 310-298538/11	100.0	386.375817	50.0	77245.0	3.863758	Y
9	STD9 310-298538/12	150.0	569.740849	50.0	77831.0	3.798272	Y
10	STD10 310-298538/13	200.0	783.436093	50.0	76392.0	3.91718	Y
11	STD11 310-298538/14	250.0	966.135728	50.0	84316.0	3.864543	Y
12	STD12 310-298538/15	500.0	2052.443678	50.0	81496.0	4.104887	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

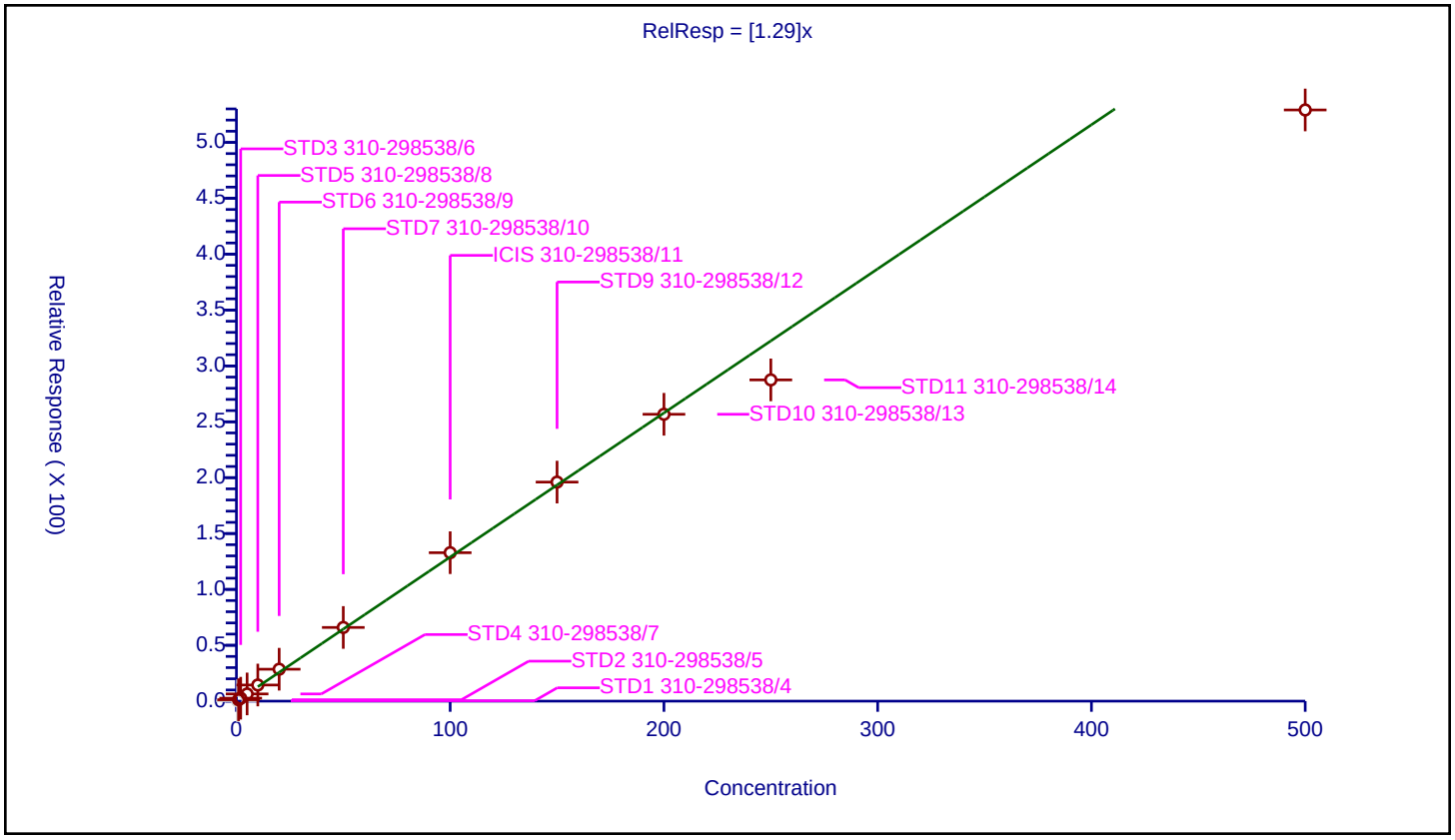
Curve Coefficients

Intercept:	0
Slope:	1.29

Error Coefficients

Standard Error:	358000
Relative Standard Error:	8.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.37206	50.0	77810.0	0.74412	N
2	STD2 310-298538/5	1.0	1.266974	50.0	80270.0	1.266974	Y
3	STD3 310-298538/6	2.0	2.626886	50.0	76821.0	1.313443	Y
4	STD4 310-298538/7	5.0	6.435662	50.0	79883.0	1.287132	Y
5	STD5 310-298538/8	10.0	14.426943	50.0	81074.0	1.442694	Y
6	STD6 310-298538/9	20.0	28.574856	50.0	79185.0	1.428743	Y
7	STD7 310-298538/10	50.0	65.950228	50.0	78397.0	1.319005	Y
8	ICIS 310-298538/11	100.0	132.841608	50.0	77245.0	1.328416	Y
9	STD9 310-298538/12	150.0	196.02729	50.0	77831.0	1.306849	Y
10	STD10 310-298538/13	200.0	256.710127	50.0	76392.0	1.283551	Y
11	STD11 310-298538/14	250.0	287.486954	50.0	84316.0	1.149948	Y
12	STD12 310-298538/15	500.0	529.037008	50.0	81496.0	1.058074	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

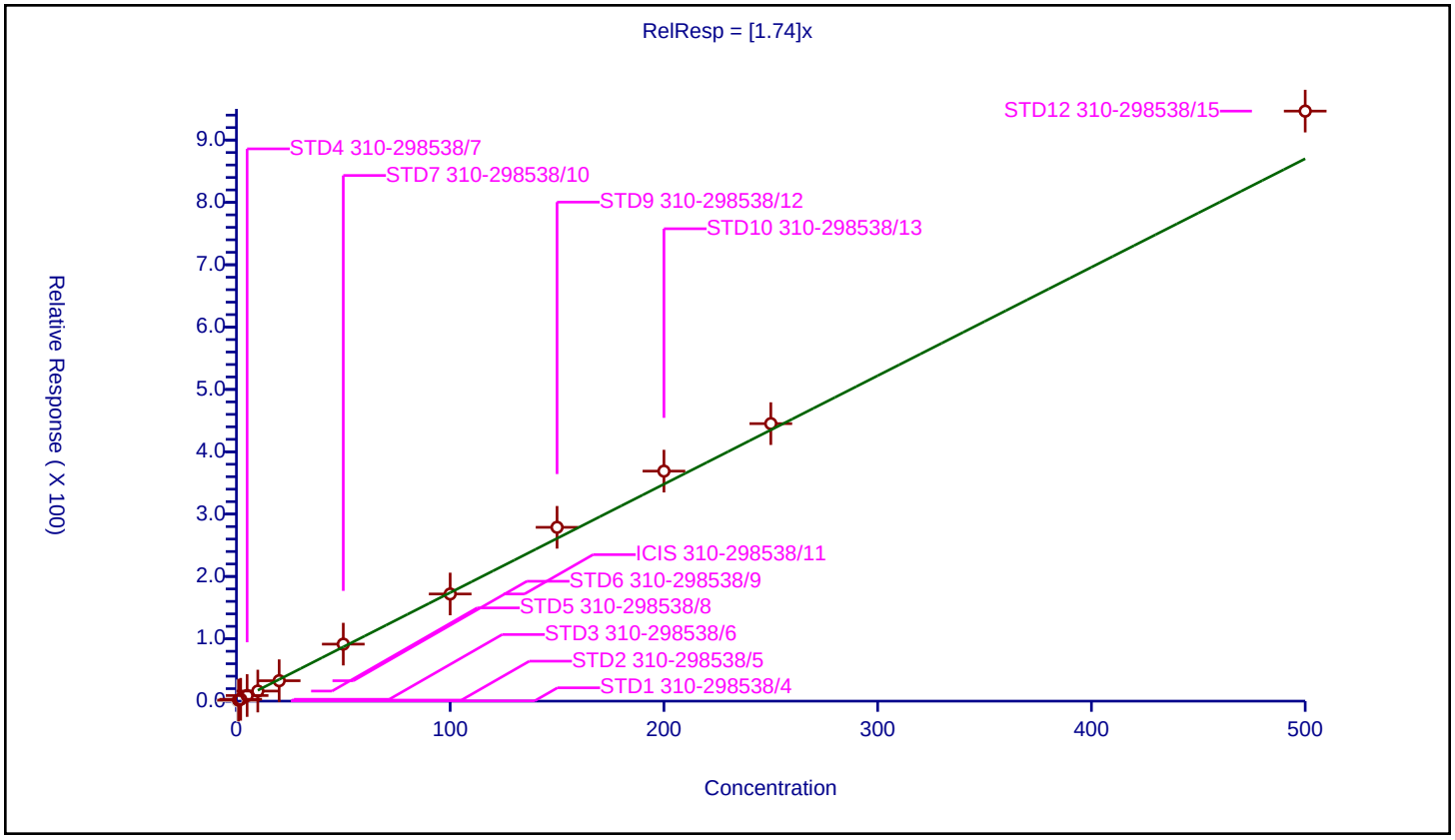
Curve Coefficients

Intercept:	0
Slope:	1.74

Error Coefficients

Standard Error:	595000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.452384	50.0	77810.0	0.904768	N
2	STD2 310-298538/5	1.0	1.674972	50.0	80270.0	1.674972	Y
3	STD3 310-298538/6	2.0	2.977051	50.0	76821.0	1.488525	Y
4	STD4 310-298538/7	5.0	8.986267	50.0	79883.0	1.797253	Y
5	STD5 310-298538/8	10.0	16.175963	50.0	81074.0	1.617596	Y
6	STD6 310-298538/9	20.0	32.75873	50.0	79185.0	1.637936	Y
7	STD7 310-298538/10	50.0	91.435259	50.0	78397.0	1.828705	Y
8	ICIS 310-298538/11	100.0	171.881675	50.0	77245.0	1.718817	Y
9	STD9 310-298538/12	150.0	278.825918	50.0	77831.0	1.858839	Y
10	STD10 310-298538/13	200.0	368.982354	50.0	76392.0	1.844912	Y
11	STD11 310-298538/14	250.0	445.160468	50.0	84316.0	1.780642	Y
12	STD12 310-298538/15	500.0	946.451973	50.0	81496.0	1.892904	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

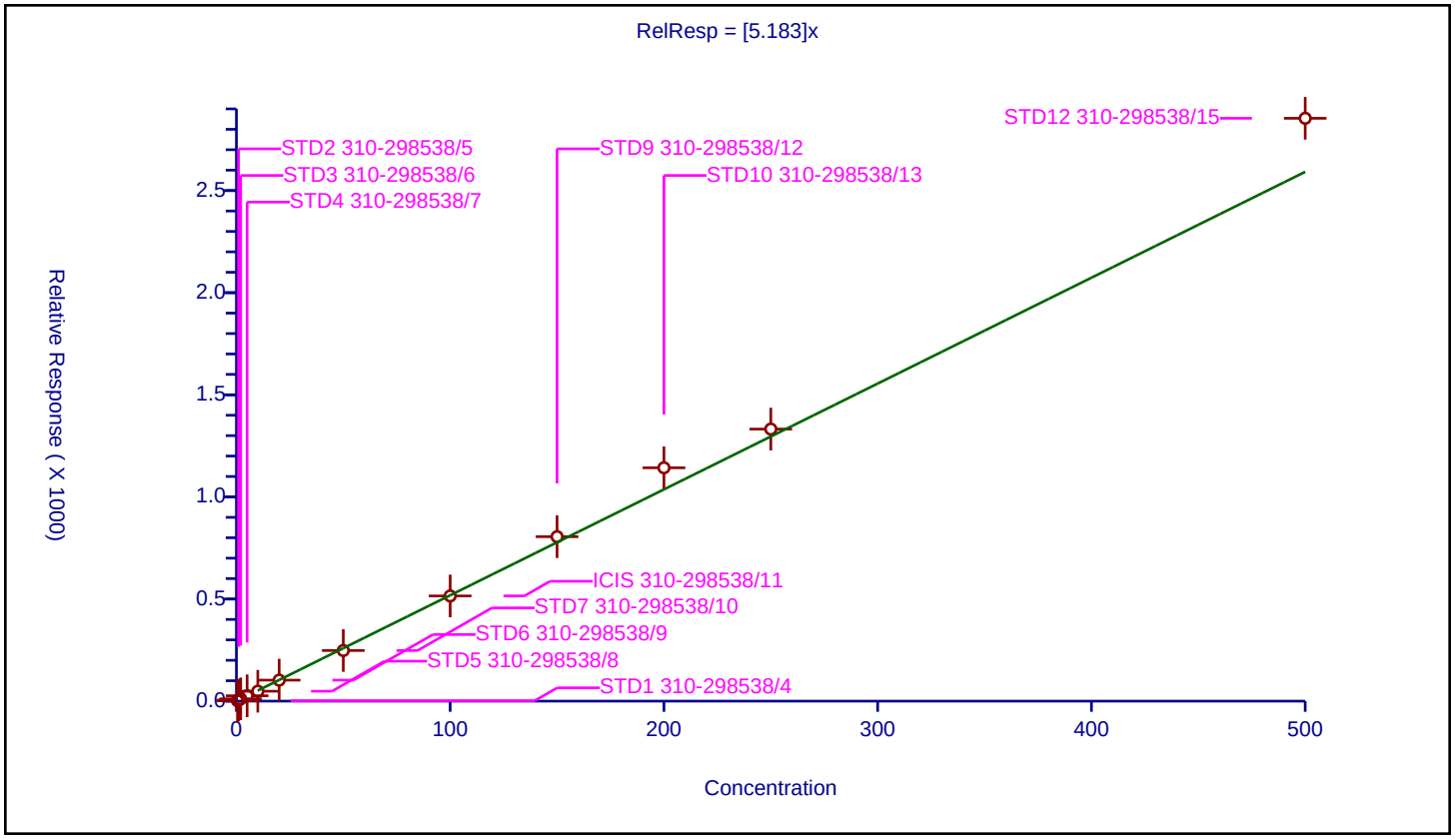
Curve Coefficients

Intercept:	0
Slope:	5.183

Error Coefficients

Standard Error:	1710000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.960545	50.0	77810.0	3.92109	Y
2	STD2 310-298538/5	1.0	5.244176	50.0	80270.0	5.244176	Y
3	STD3 310-298538/6	2.0	11.110894	50.0	76821.0	5.555447	Y
4	STD4 310-298538/7	5.0	26.316613	50.0	79883.0	5.263323	Y
5	STD5 310-298538/8	10.0	48.51617	50.0	81074.0	4.851617	Y
6	STD6 310-298538/9	20.0	102.814927	50.0	79185.0	5.140746	Y
7	STD7 310-298538/10	50.0	247.80285	50.0	78397.0	4.956057	Y
8	ICIS 310-298538/11	100.0	515.021684	50.0	77245.0	5.150217	Y
9	STD9 310-298538/12	150.0	805.272963	50.0	77831.0	5.368486	Y
10	STD10 310-298538/13	200.0	1142.678553	50.0	76392.0	5.713393	Y
11	STD11 310-298538/14	250.0	1332.078728	50.0	84316.0	5.328315	Y
12	STD12 310-298538/15	500.0	2854.017375	50.0	81496.0	5.708035	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

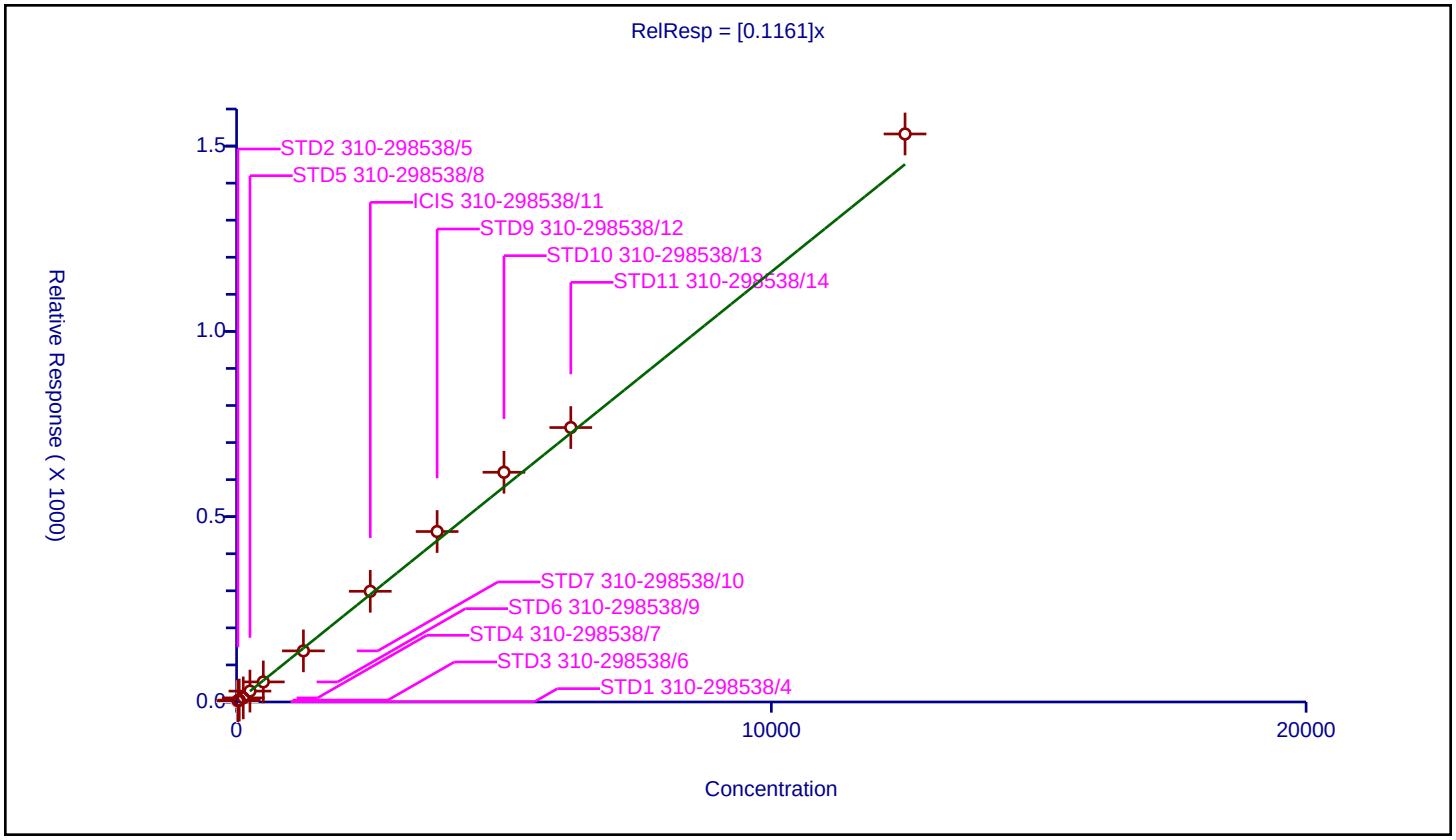
Curve Coefficients

Intercept:	0
Slope:	0.1161

Error Coefficients

Standard Error:	973000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	12.5	0.857216	50.0	77810.0	0.068577	N
2	STD2 310-298538/5	25.0	3.544288	50.0	80270.0	0.141772	Y
3	STD3 310-298538/6	50.0	5.170461	50.0	76821.0	0.103409	Y
4	STD4 310-298538/7	125.0	11.021744	50.0	79883.0	0.088174	Y
5	STD5 310-298538/8	250.0	29.397834	50.0	81074.0	0.117591	Y
6	STD6 310-298538/9	500.0	54.146619	50.0	79185.0	0.108293	Y
7	STD7 310-298538/10	1250.0	137.935125	50.0	78397.0	0.110348	Y
8	ICIS 310-298538/11	2500.0	298.7216	50.0	77245.0	0.119489	Y
9	STD9 310-298538/12	3750.0	459.938842	50.0	77831.0	0.12265	Y
10	STD10 310-298538/13	5000.0	619.837156	50.0	76392.0	0.123967	Y
11	STD11 310-298538/14	6250.0	740.539755	50.0	84316.0	0.118486	Y
12	STD12 310-298538/15	12500.0	1532.678904	50.0	81496.0	0.122614	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

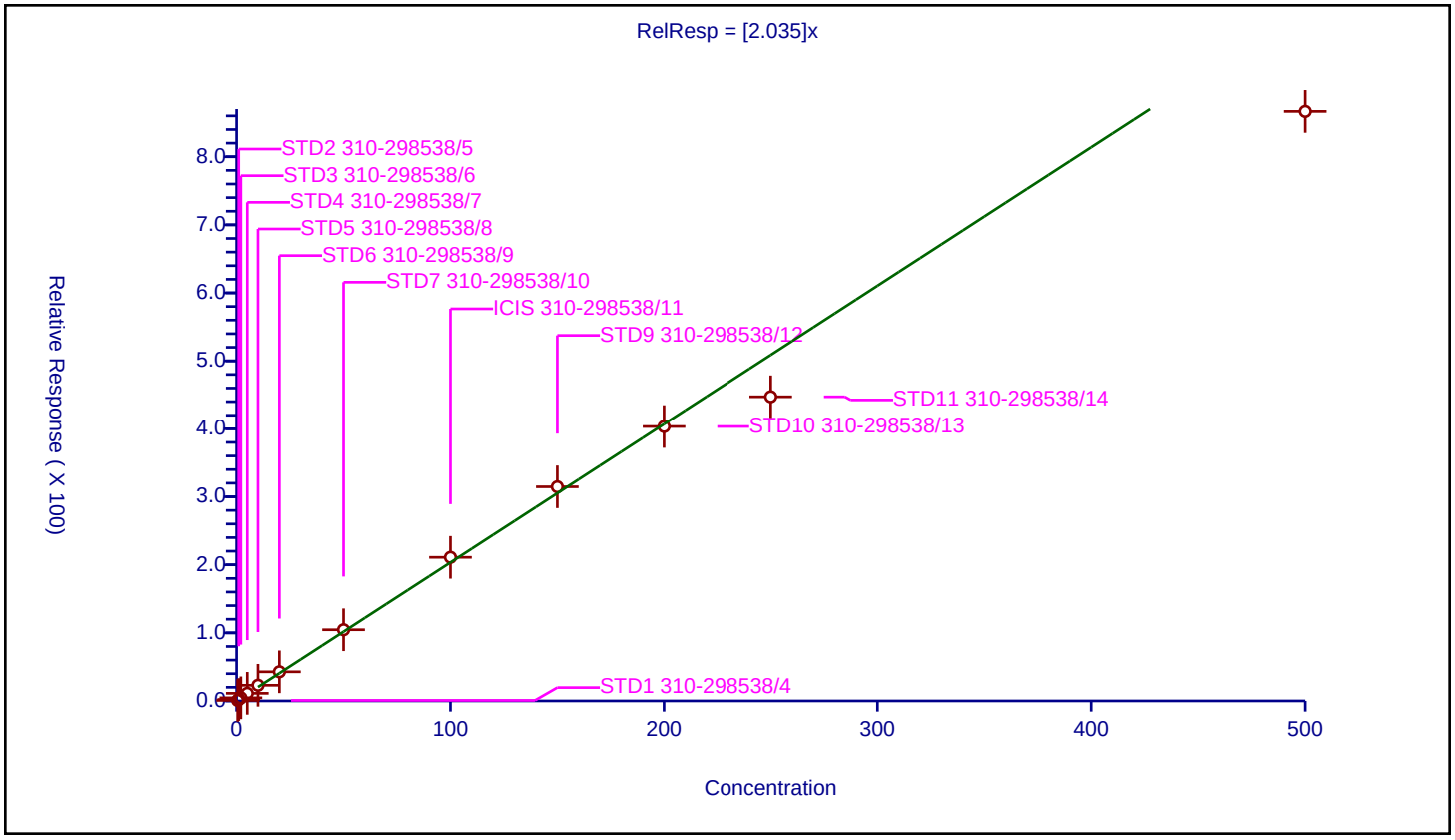
Curve Coefficients

Intercept:	0
Slope:	2.035

Error Coefficients

Standard Error:	549000
Relative Standard Error:	11.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.765968	50.0	77810.0	1.531937	Y
2	STD2 310-298538/5	1.0	2.103526	50.0	80270.0	2.103526	Y
3	STD3 310-298538/6	2.0	4.540425	50.0	76821.0	2.270213	Y
4	STD4 310-298538/7	5.0	11.178849	50.0	79883.0	2.23577	Y
5	STD5 310-298538/8	10.0	22.993808	50.0	81074.0	2.299381	Y
6	STD6 310-298538/9	20.0	42.782093	50.0	79185.0	2.139105	Y
7	STD7 310-298538/10	50.0	104.565863	50.0	78397.0	2.091317	Y
8	ICIS 310-298538/11	100.0	210.99877	50.0	77245.0	2.109988	Y
9	STD9 310-298538/12	150.0	314.683095	50.0	77831.0	2.097887	Y
10	STD10 310-298538/13	200.0	403.377317	50.0	76392.0	2.016887	Y
11	STD11 310-298538/14	250.0	447.226505	50.0	84316.0	1.788906	Y
12	STD12 310-298538/15	500.0	866.560936	50.0	81496.0	1.733122	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

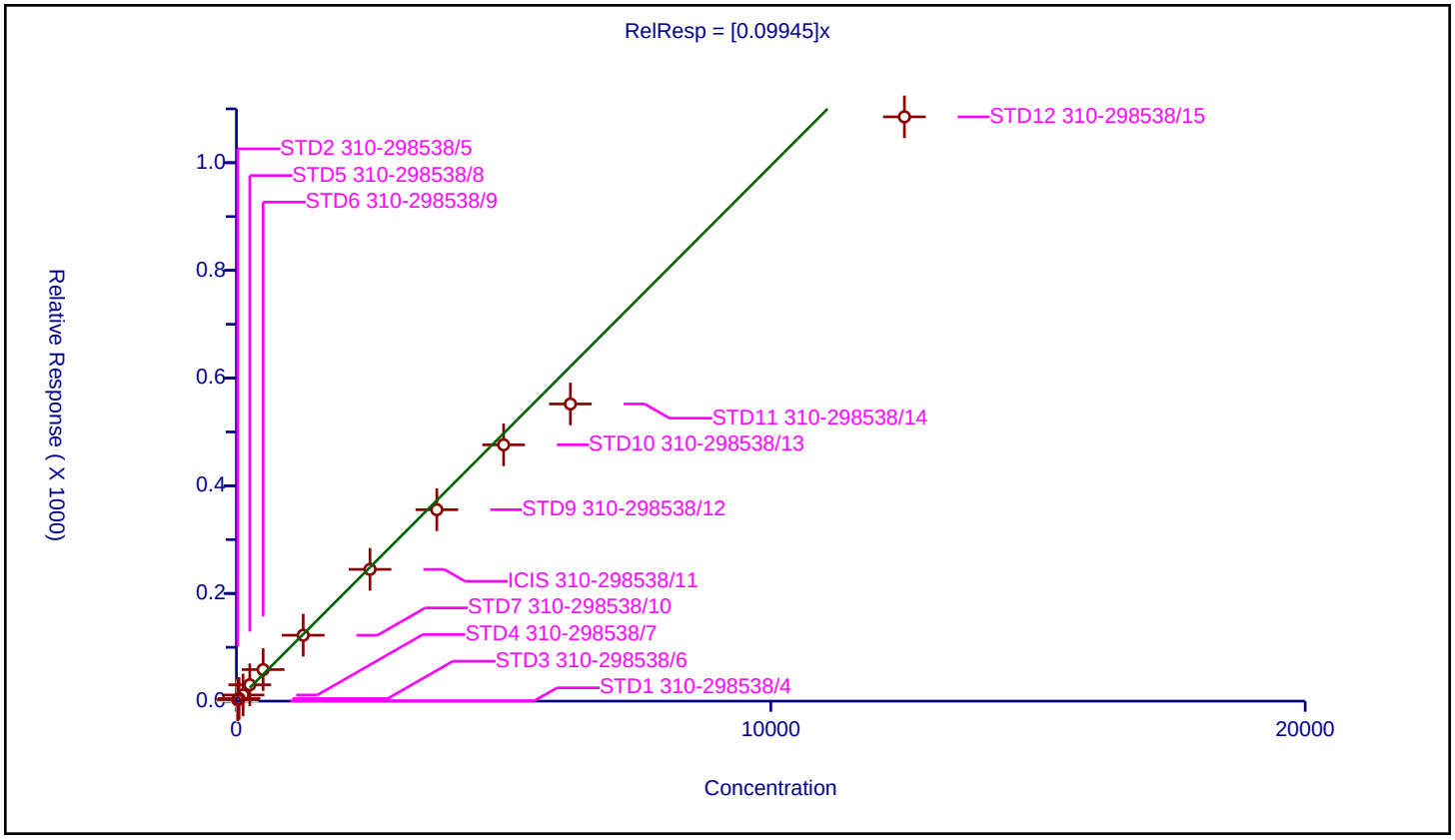
Curve Coefficients

Intercept:	0
Slope:	0.09945

Error Coefficients

Standard Error:	708000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	12.5	0.596967	50.0	77810.0	0.047757	N
2	STD2 310-298538/5	25.0	2.68282	50.0	80270.0	0.107313	Y
3	STD3 310-298538/6	50.0	4.768878	50.0	76821.0	0.095378	Y
4	STD4 310-298538/7	125.0	11.444863	50.0	79883.0	0.091559	Y
5	STD5 310-298538/8	250.0	30.377803	50.0	81074.0	0.121511	Y
6	STD6 310-298538/9	500.0	58.588748	50.0	79185.0	0.117177	Y
7	STD7 310-298538/10	1250.0	122.387974	50.0	78397.0	0.09791	Y
8	ICIS 310-298538/11	2500.0	244.762121	50.0	77245.0	0.097905	Y
9	STD9 310-298538/12	3750.0	355.577469	50.0	77831.0	0.094821	Y
10	STD10 310-298538/13	5000.0	476.069484	50.0	76392.0	0.095214	Y
11	STD11 310-298538/14	6250.0	551.965819	50.0	84316.0	0.088315	Y
12	STD12 310-298538/15	12500.0	1085.204182	50.0	81496.0	0.086816	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

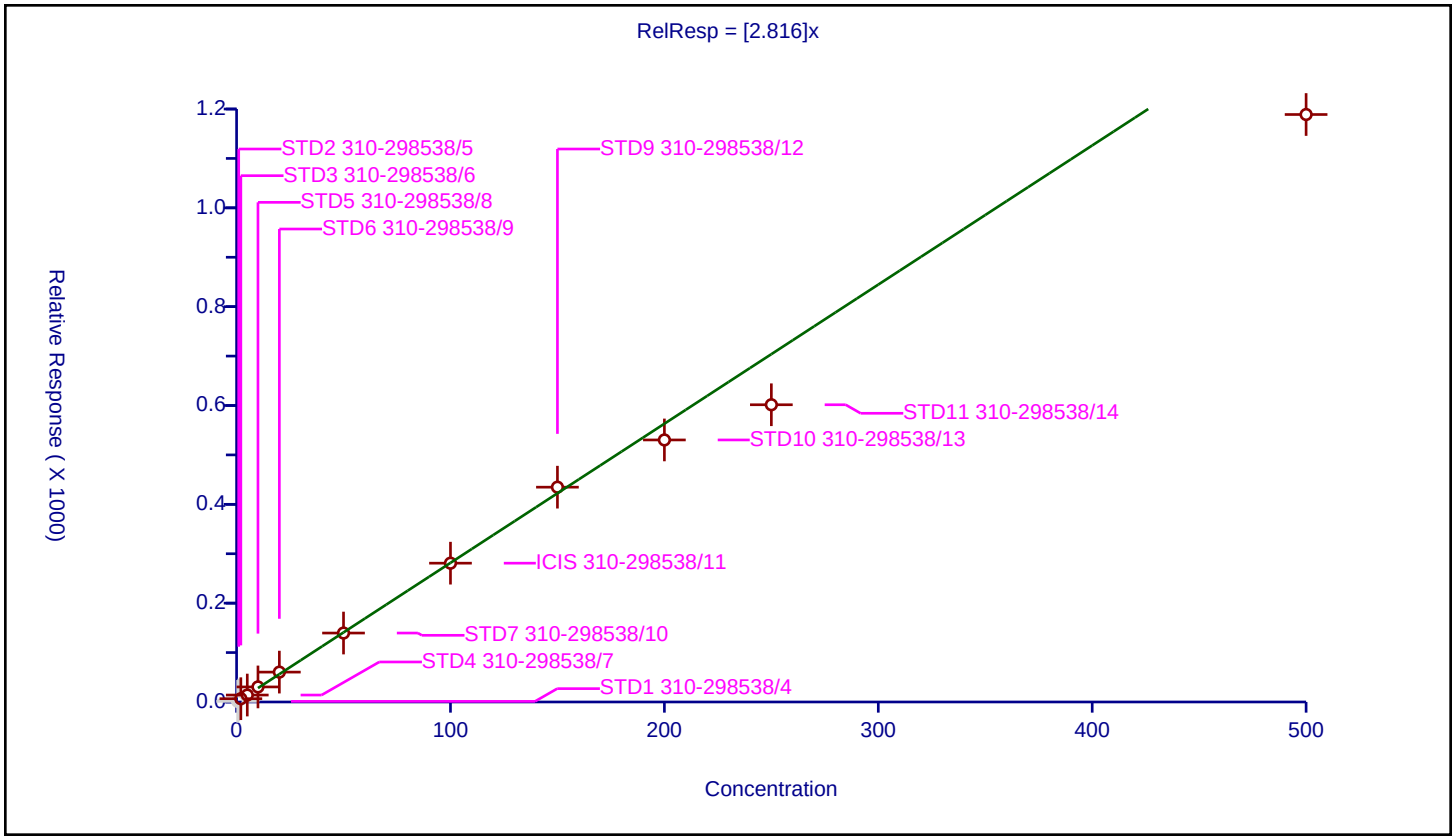
Curve Coefficients

Intercept:	0
Slope:	2.816

Error Coefficients

Standard Error:	826000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.253695	50.0	77810.0	2.50739	N
2	STD2 310-298538/5	1.0	3.990906	50.0	80270.0	3.990906	N
3	STD3 310-298538/6	2.0	6.689577	50.0	76821.0	3.344789	Y
4	STD4 310-298538/7	5.0	14.046168	50.0	79883.0	2.809234	Y
5	STD5 310-298538/8	10.0	30.475862	50.0	81074.0	3.047586	Y
6	STD6 310-298538/9	20.0	60.443897	50.0	79185.0	3.022195	Y
7	STD7 310-298538/10	50.0	139.513629	50.0	78397.0	2.790273	Y
8	ICIS 310-298538/11	100.0	280.897793	50.0	77245.0	2.808978	Y
9	STD9 310-298538/12	150.0	434.743226	50.0	77831.0	2.898288	Y
10	STD10 310-298538/13	200.0	530.288512	50.0	76392.0	2.651443	Y
11	STD11 310-298538/14	250.0	601.531738	50.0	84316.0	2.406127	Y
12	STD12 310-298538/15	500.0	1188.873687	50.0	81496.0	2.377747	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

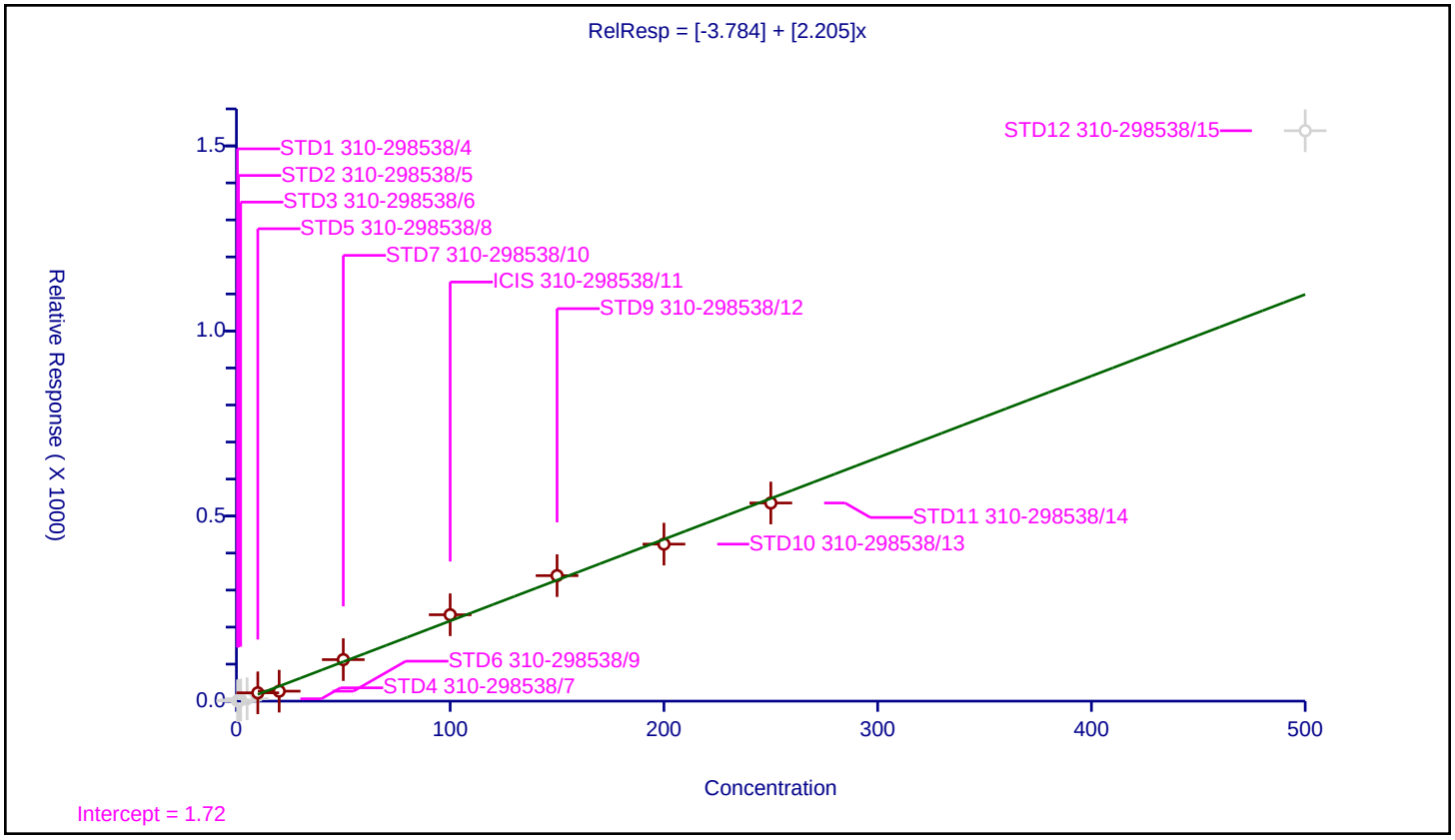
Curve Coefficients

Intercept:	-3.784
Slope:	2.205

Error Coefficients

Standard Error:	579000
Relative Standard Error:	16.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.659298	50.0	77810.0	1.318597	N
2	STD2 310-298538/5	1.0	1.49184	50.0	80270.0	1.49184	N
3	STD3 310-298538/6	2.0	3.123495	50.0	76821.0	1.561747	N
4	STD4 310-298538/7	5.0	6.334264	50.0	79883.0	1.266853	N
5	STD5 310-298538/8	10.0	22.485014	50.0	81074.0	2.248501	Y
6	STD6 310-298538/9	20.0	26.952706	50.0	79185.0	1.347635	Y
7	STD7 310-298538/10	50.0	112.158629	50.0	78397.0	2.243173	Y
8	ICIS 310-298538/11	100.0	233.370445	50.0	77245.0	2.333704	Y
9	STD9 310-298538/12	150.0	339.074405	50.0	77831.0	2.260496	Y
10	STD10 310-298538/13	200.0	424.212614	50.0	76392.0	2.121063	Y
11	STD11 310-298538/14	250.0	535.283932	50.0	84316.0	2.141136	Y
12	STD12 310-298538/15	500.0	1541.002012	50.0	81496.0	3.082004	N



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

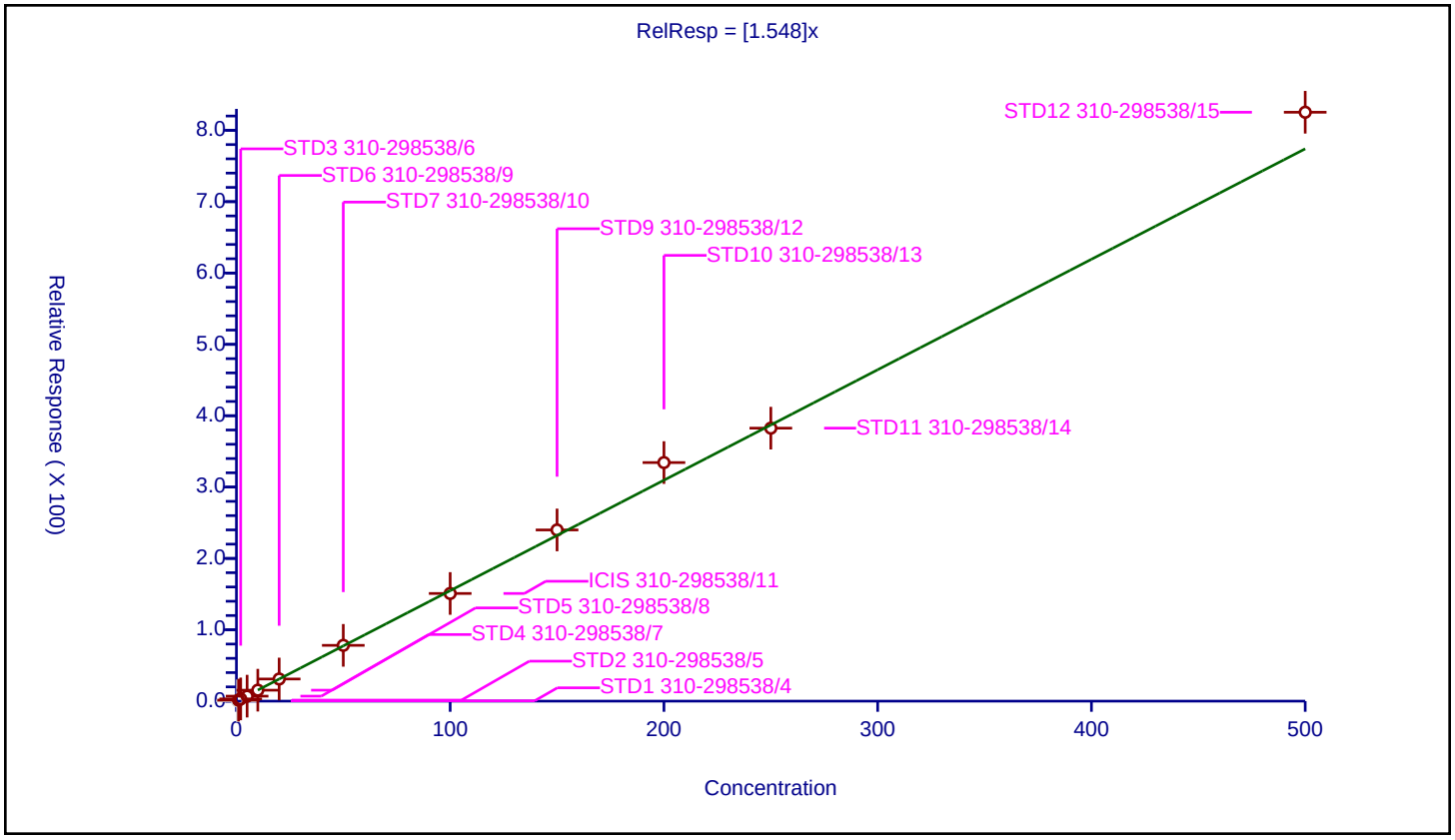
Curve Coefficients

Intercept:	0
Slope:	1.548

Error Coefficients

Standard Error:	519000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.45624	50.0	77810.0	0.912479	N
2	STD2 310-298538/5	1.0	1.455712	50.0	80270.0	1.455712	Y
3	STD3 310-298538/6	2.0	3.123495	50.0	76821.0	1.561747	Y
4	STD4 310-298538/7	5.0	6.996482	50.0	79883.0	1.399296	Y
5	STD5 310-298538/8	10.0	15.364358	50.0	81074.0	1.536436	Y
6	STD6 310-298538/9	20.0	31.024815	50.0	79185.0	1.551241	Y
7	STD7 310-298538/10	50.0	78.178374	50.0	78397.0	1.563567	Y
8	ICIS 310-298538/11	100.0	150.904913	50.0	77245.0	1.509049	Y
9	STD9 310-298538/12	150.0	239.915329	50.0	77831.0	1.599436	Y
10	STD10 310-298538/13	200.0	334.361582	50.0	76392.0	1.671808	Y
11	STD11 310-298538/14	250.0	382.587528	50.0	84316.0	1.53035	Y
12	STD12 310-298538/15	500.0	825.292652	50.0	81496.0	1.650585	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

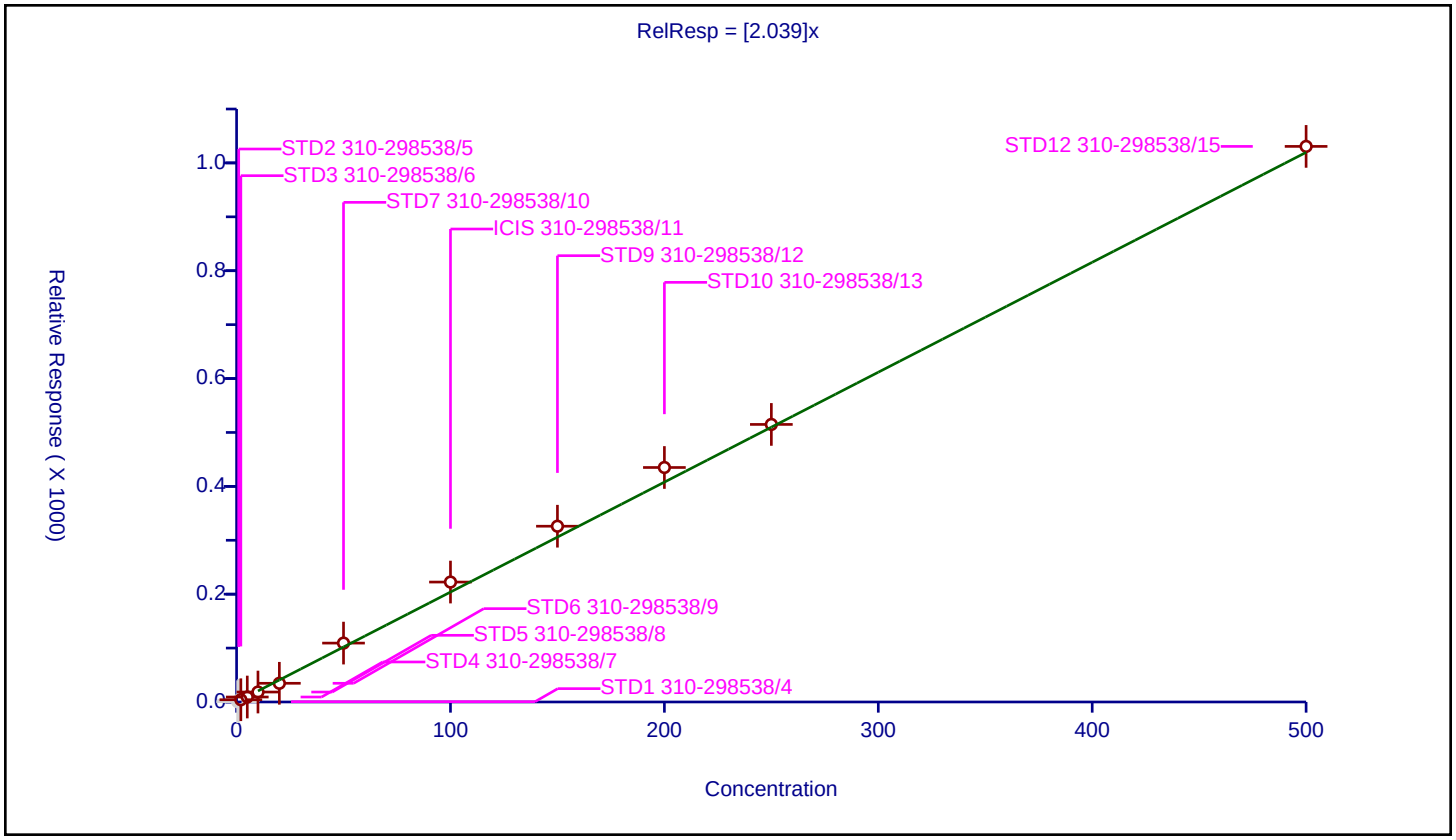
Curve Coefficients

Intercept:	0
Slope:	2.039

Error Coefficients

Standard Error:	701000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.586686	50.0	77810.0	1.173371	N
2	STD2 310-298538/5	1.0	3.167435	50.0	80270.0	3.167435	N
3	STD3 310-298538/6	2.0	4.170735	50.0	76821.0	2.085367	Y
4	STD4 310-298538/7	5.0	9.229123	50.0	79883.0	1.845825	Y
5	STD5 310-298538/8	10.0	18.456595	50.0	81074.0	1.84566	Y
6	STD6 310-298538/9	20.0	34.694702	50.0	79185.0	1.734735	Y
7	STD7 310-298538/10	50.0	109.273314	50.0	78397.0	2.185466	Y
8	ICIS 310-298538/11	100.0	222.469415	50.0	77245.0	2.224694	Y
9	STD9 310-298538/12	150.0	326.049389	50.0	77831.0	2.173663	Y
10	STD10 310-298538/13	200.0	435.022646	50.0	76392.0	2.175113	Y
11	STD11 310-298538/14	250.0	514.880924	50.0	84316.0	2.059524	Y
12	STD12 310-298538/15	500.0	1030.637086	50.0	81496.0	2.061274	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

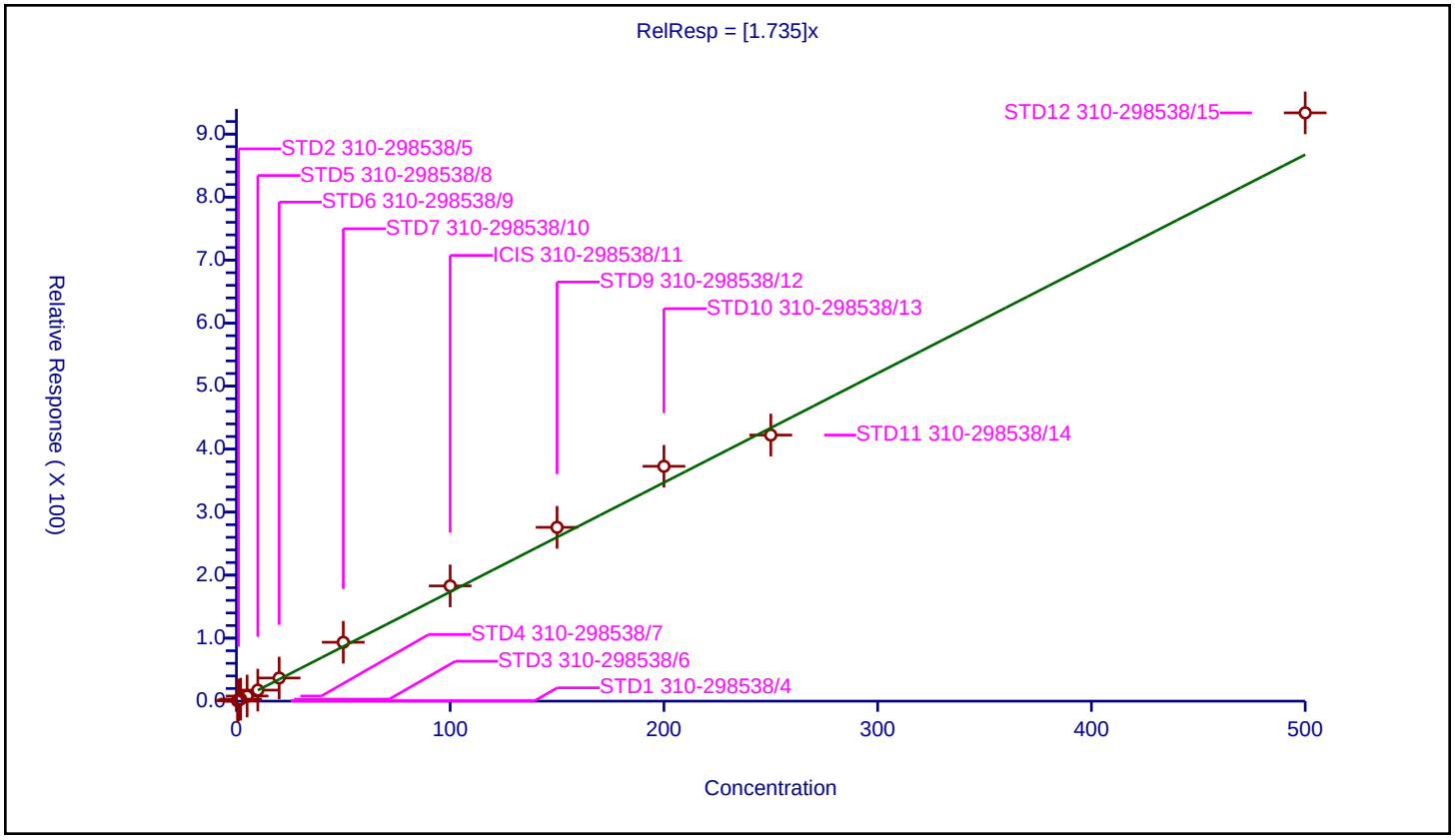
Curve Coefficients

Intercept:	0
Slope:	1.735

Error Coefficients

Standard Error:	559000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.615602	50.0	77810.0	1.231204	Y
2	STD2 310-298538/5	1.0	1.804535	50.0	80270.0	1.804535	Y
3	STD3 310-298538/6	2.0	3.210711	50.0	76821.0	1.605355	Y
4	STD4 310-298538/7	5.0	8.157555	50.0	79883.0	1.631511	Y
5	STD5 310-298538/8	10.0	17.52103	50.0	81074.0	1.752103	Y
6	STD6 310-298538/9	20.0	36.69445	50.0	79185.0	1.834722	Y
7	STD7 310-298538/10	50.0	93.460847	50.0	78397.0	1.869217	Y
8	ICIS 310-298538/11	100.0	182.899217	50.0	77245.0	1.828992	Y
9	STD9 310-298538/12	150.0	275.836749	50.0	77831.0	1.838912	Y
10	STD10 310-298538/13	200.0	372.731438	50.0	76392.0	1.863657	Y
11	STD11 310-298538/14	250.0	422.319014	50.0	84316.0	1.689276	Y
12	STD12 310-298538/15	500.0	933.72006	50.0	81496.0	1.86744	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

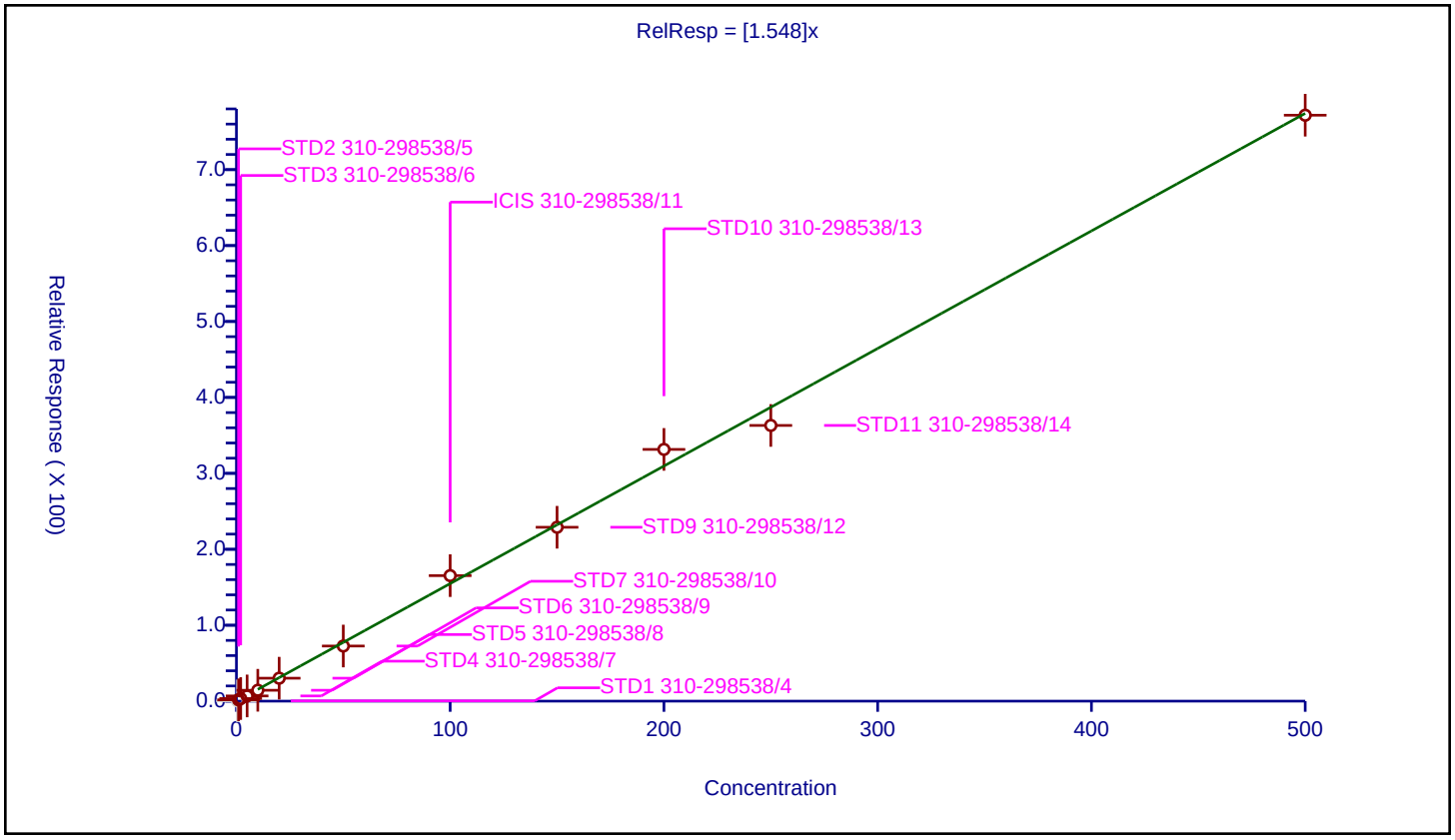
Curve Coefficients

Intercept:	0
Slope:	1.548

Error Coefficients

Standard Error:	492000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.364349	50.0	77810.0	0.728698	N
2	STD2 310-298538/5	1.0	1.72605	50.0	80270.0	1.72605	Y
3	STD3 310-298538/6	2.0	3.402715	50.0	76821.0	1.701358	Y
4	STD4 310-298538/7	5.0	6.871299	50.0	79883.0	1.37426	Y
5	STD5 310-298538/8	10.0	14.322101	50.0	81074.0	1.43221	Y
6	STD6 310-298538/9	20.0	30.232999	50.0	79185.0	1.51165	Y
7	STD7 310-298538/10	50.0	72.576757	50.0	78397.0	1.451535	Y
8	ICIS 310-298538/11	100.0	165.307787	50.0	77245.0	1.653078	Y
9	STD9 310-298538/12	150.0	229.007079	50.0	77831.0	1.526714	Y
10	STD10 310-298538/13	200.0	331.519662	50.0	76392.0	1.657598	Y
11	STD11 310-298538/14	250.0	363.118507	50.0	84316.0	1.452474	Y
12	STD12 310-298538/15	500.0	771.699225	50.0	81496.0	1.543398	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

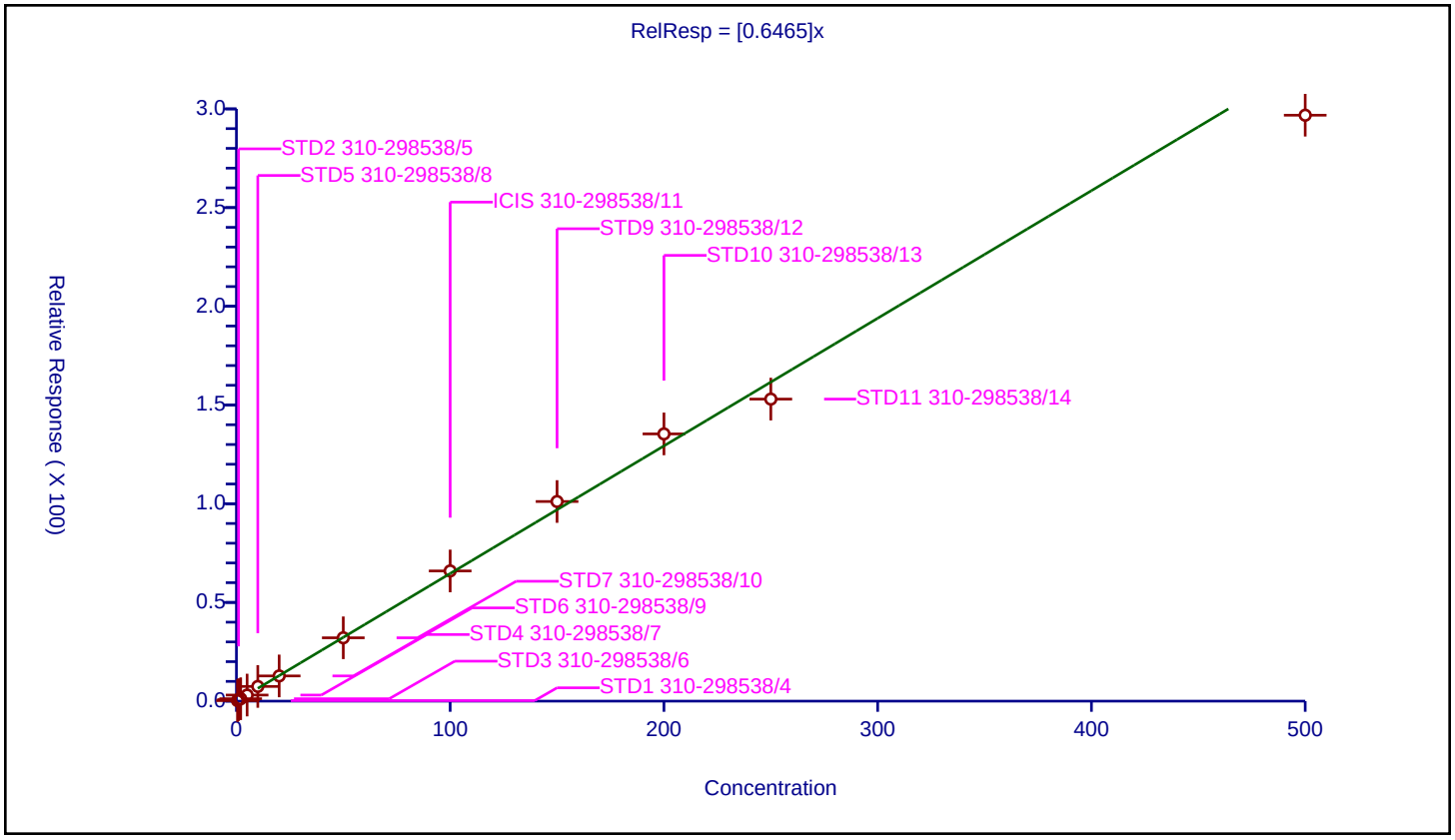
Curve Coefficients

Intercept:	0
Slope:	0.6465

Error Coefficients

Standard Error:	186000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.261535	50.0	77810.0	0.523069	Y
2	STD2 310-298538/5	1.0	0.766787	50.0	80270.0	0.766787	Y
3	STD3 310-298538/6	2.0	1.218417	50.0	76821.0	0.609208	Y
4	STD4 310-298538/7	5.0	3.087641	50.0	79883.0	0.617528	Y
5	STD5 310-298538/8	10.0	7.44505	50.0	81074.0	0.744505	Y
6	STD6 310-298538/9	20.0	12.773884	50.0	79185.0	0.638694	Y
7	STD7 310-298538/10	50.0	32.086687	50.0	78397.0	0.641734	Y
8	ICIS 310-298538/11	100.0	65.95702	50.0	77245.0	0.65957	Y
9	STD9 310-298538/12	150.0	101.119734	50.0	77831.0	0.674132	Y
10	STD10 310-298538/13	200.0	135.37085	50.0	76392.0	0.676854	Y
11	STD11 310-298538/14	250.0	152.992908	50.0	84316.0	0.611972	Y
12	STD12 310-298538/15	500.0	296.796775	50.0	81496.0	0.593594	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

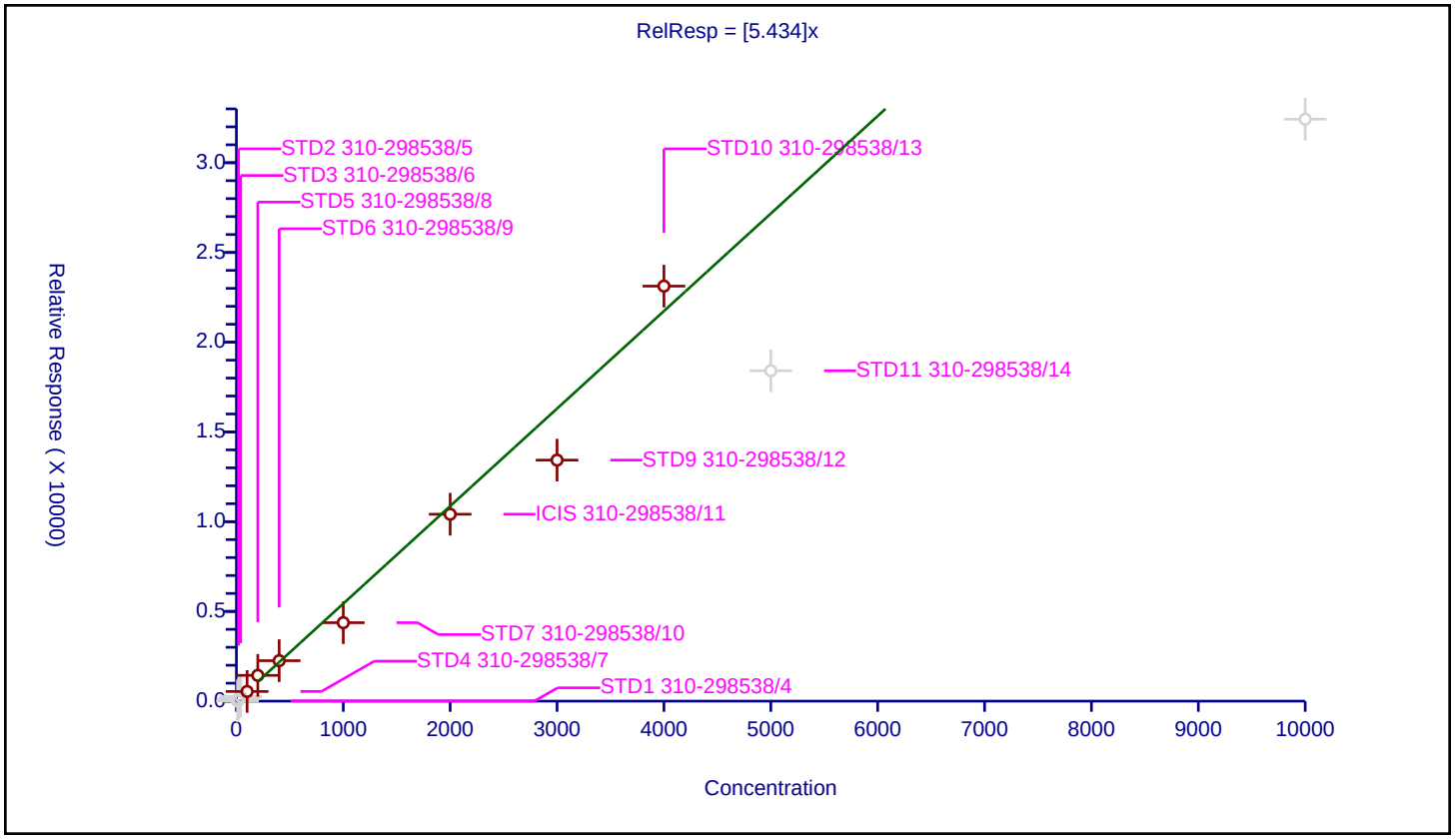
Curve Coefficients

Intercept:	0
Slope:	5.434

Error Coefficients

Standard Error:	64900
Relative Standard Error:	17.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.954

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	10.0	9.726962	1000.0	5860.0	0.972696	N
2	STD2 310-298538/5	20.0	130.079947	1000.0	6004.0	6.503997	N
3	STD3 310-298538/6	40.0	260.833472	1000.0	6023.0	6.520837	N
4	STD4 310-298538/7	100.0	538.485904	1000.0	6314.0	5.384859	Y
5	STD5 310-298538/8	200.0	1436.51481	1000.0	5773.0	7.182574	Y
6	STD6 310-298538/9	400.0	2253.506721	1000.0	6844.0	5.633767	Y
7	STD7 310-298538/10	1000.0	4370.752511	1000.0	7269.0	4.370753	Y
8	ICIS 310-298538/11	2000.0	10414.662273	1000.0	6070.0	5.207331	Y
9	STD9 310-298538/12	3000.0	13430.126809	1000.0	7807.0	4.476709	Y
10	STD10 310-298538/13	4000.0	23125.478449	1000.0	6009.0	5.78137	Y
11	STD11 310-298538/14	5000.0	18410.248077	1000.0	9231.0	3.68205	N
12	STD12 310-298538/15	10000.0	32426.322931	1000.0	11055.0	3.242632	N



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

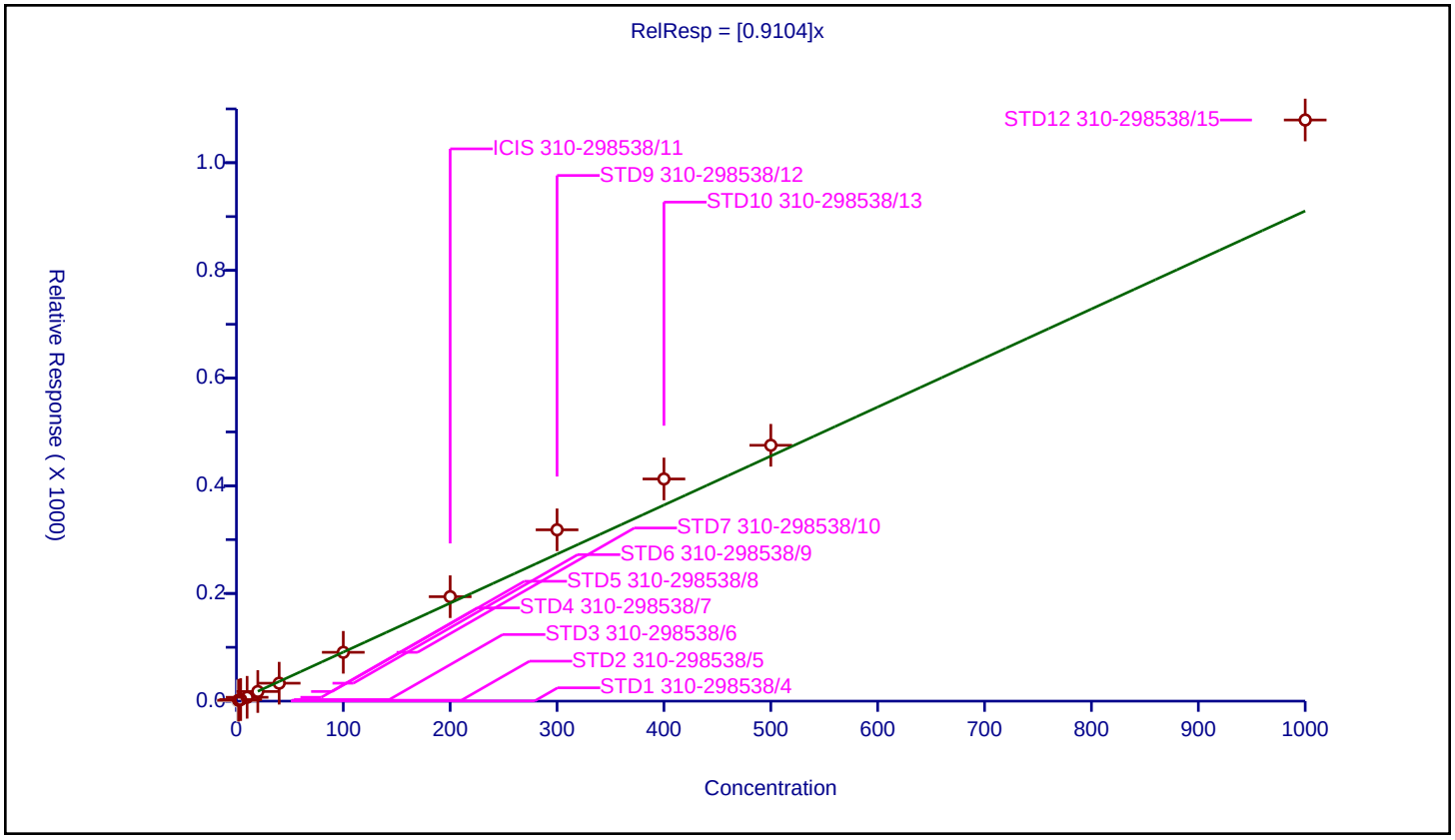
Curve Coefficients

Intercept:	0
Slope:	0.9104

Error Coefficients

Standard Error:	670000
Relative Standard Error:	13.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	0.355353	50.0	77810.0	0.355353	N
2	STD2 310-298538/5	2.0	1.704871	50.0	80270.0	0.852436	Y
3	STD3 310-298538/6	4.0	2.889184	50.0	76821.0	0.722296	Y
4	STD4 310-298538/7	10.0	7.142947	50.0	79883.0	0.714295	Y
5	STD5 310-298538/8	20.0	17.876878	50.0	81074.0	0.893844	Y
6	STD6 310-298538/9	40.0	33.315653	50.0	79185.0	0.832891	Y
7	STD7 310-298538/10	100.0	90.70245	50.0	78397.0	0.907025	Y
8	ICIS 310-298538/11	200.0	193.984077	50.0	77245.0	0.96992	Y
9	STD9 310-298538/12	300.0	318.226028	50.0	77831.0	1.060753	Y
10	STD10 310-298538/13	400.0	412.621086	50.0	76392.0	1.031553	Y
11	STD11 310-298538/14	500.0	475.216448	50.0	84316.0	0.950433	Y
12	STD12 310-298538/15	1000.0	1079.351134	50.0	81496.0	1.079351	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

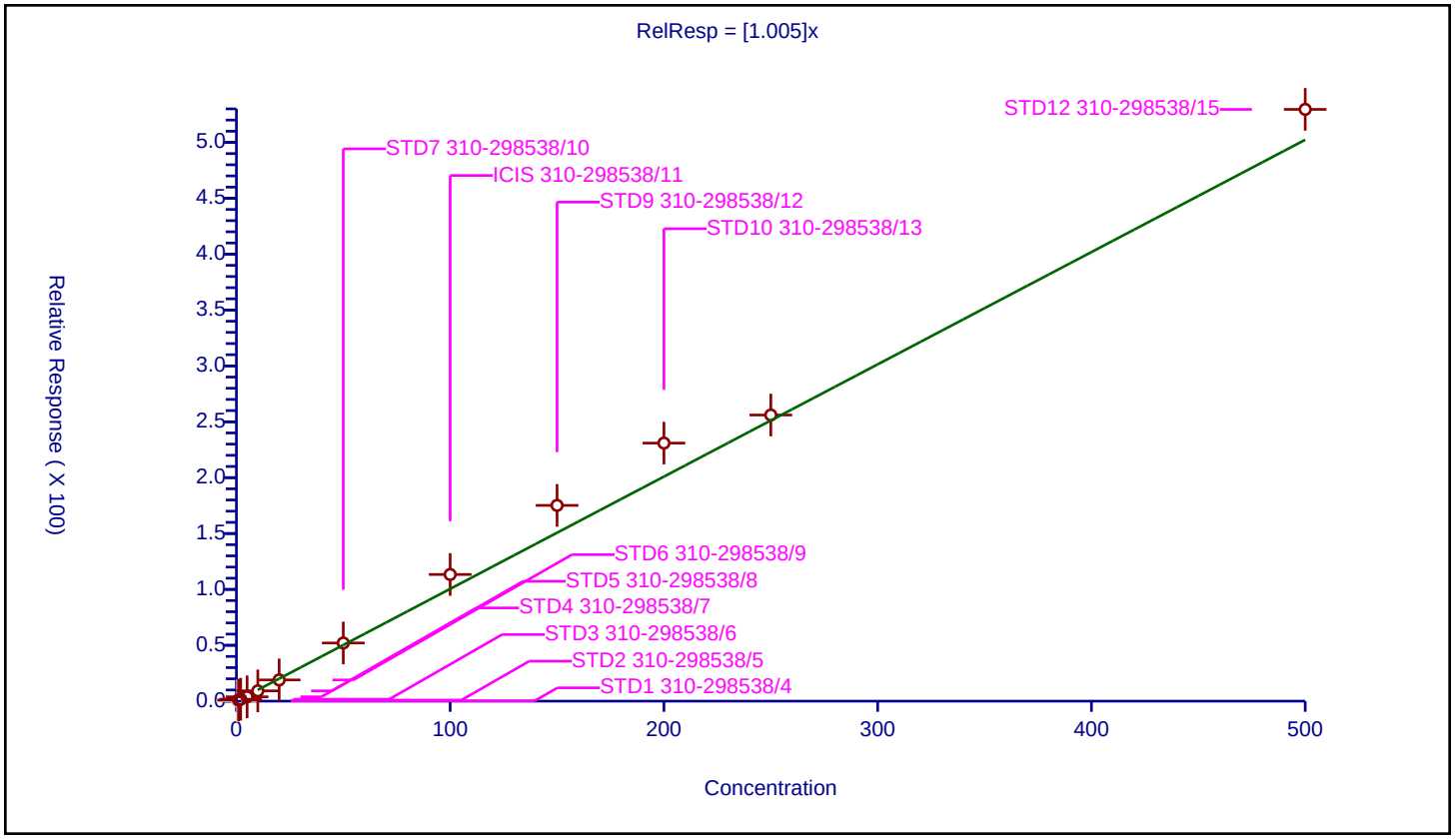
Curve Coefficients

Intercept:	0
Slope:	1.005

Error Coefficients

Standard Error:	342000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.284025	50.0	77810.0	0.56805	N
2	STD2 310-298538/5	1.0	0.974212	50.0	80270.0	0.974212	Y
3	STD3 310-298538/6	2.0	1.706565	50.0	76821.0	0.853282	Y
4	STD4 310-298538/7	5.0	3.864402	50.0	79883.0	0.77288	Y
5	STD5 310-298538/8	10.0	9.220589	50.0	81074.0	0.922059	Y
6	STD6 310-298538/9	20.0	18.976448	50.0	79185.0	0.948822	Y
7	STD7 310-298538/10	50.0	52.049823	50.0	78397.0	1.040996	Y
8	ICIS 310-298538/11	100.0	113.344553	50.0	77245.0	1.133446	Y
9	STD9 310-298538/12	150.0	175.170562	50.0	77831.0	1.167804	Y
10	STD10 310-298538/13	200.0	230.925359	50.0	76392.0	1.154627	Y
11	STD11 310-298538/14	250.0	256.033256	50.0	84316.0	1.024133	Y
12	STD12 310-298538/15	500.0	529.552371	50.0	81496.0	1.059105	Y



Calibration / 2-Nitropropane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

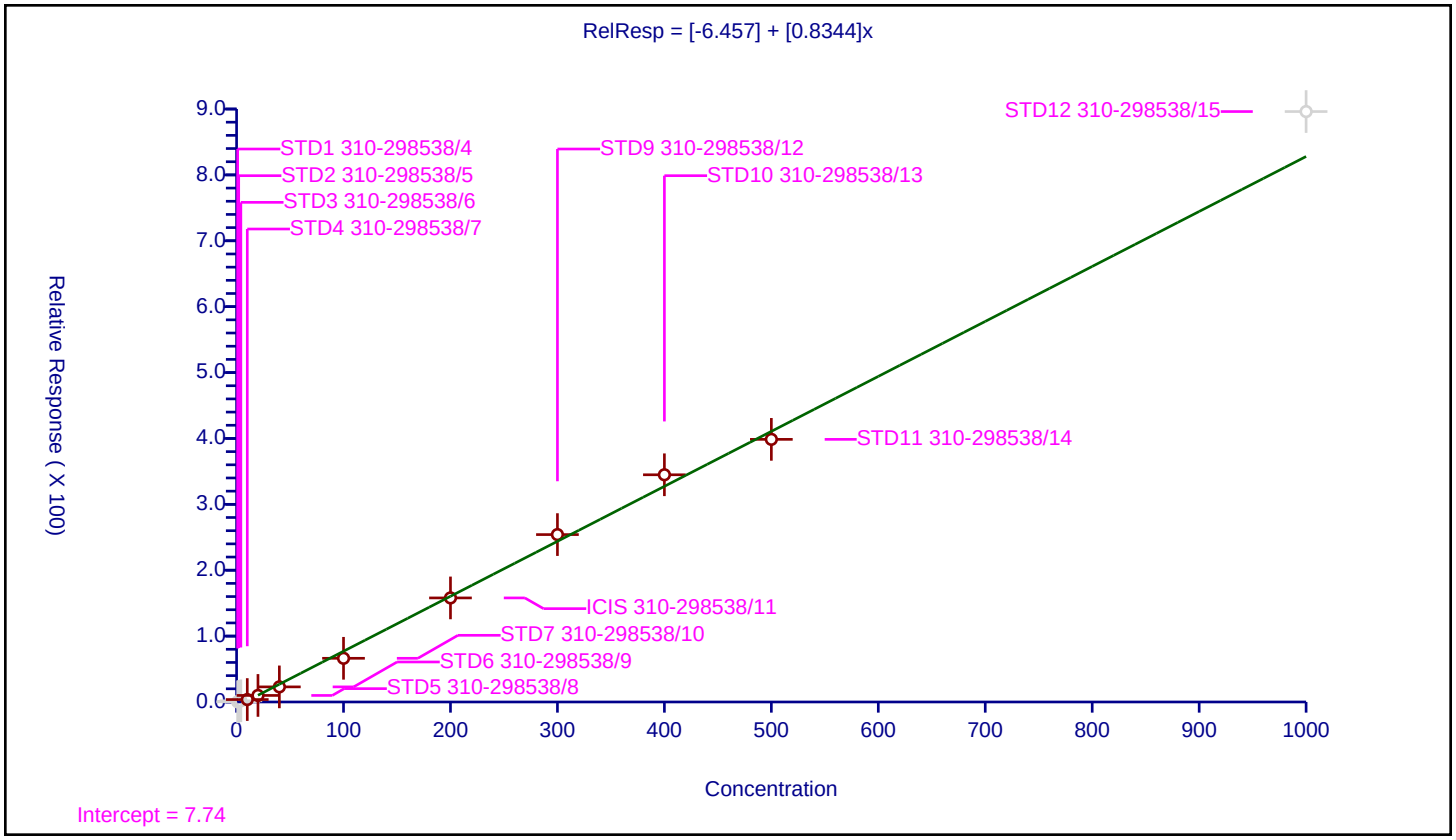
Curve Coefficients

Intercept:	-6.457
Slope:	0.8344

Error Coefficients

Standard Error:	399000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	0.264105	50.0	77810.0	0.264105	N
2	STD2 310-298538/5	2.0	0.990407	50.0	80270.0	0.495204	N
3	STD3 310-298538/6	4.0	1.790526	50.0	76821.0	0.447632	N
4	STD4 310-298538/7	10.0	3.693527	50.0	79883.0	0.369353	Y
5	STD5 310-298538/8	20.0	9.9218	50.0	81074.0	0.49609	Y
6	STD6 310-298538/9	40.0	22.934268	50.0	79185.0	0.573357	Y
7	STD7 310-298538/10	100.0	66.29718	50.0	78397.0	0.662972	Y
8	ICIS 310-298538/11	200.0	157.961033	50.0	77245.0	0.789805	Y
9	STD9 310-298538/12	300.0	254.075497	50.0	77831.0	0.846918	Y
10	STD10 310-298538/13	400.0	344.866609	50.0	76392.0	0.862167	Y
11	STD11 310-298538/14	500.0	398.602875	50.0	84316.0	0.797206	Y
12	STD12 310-298538/15	1000.0	896.147664	50.0	81496.0	0.896148	N



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

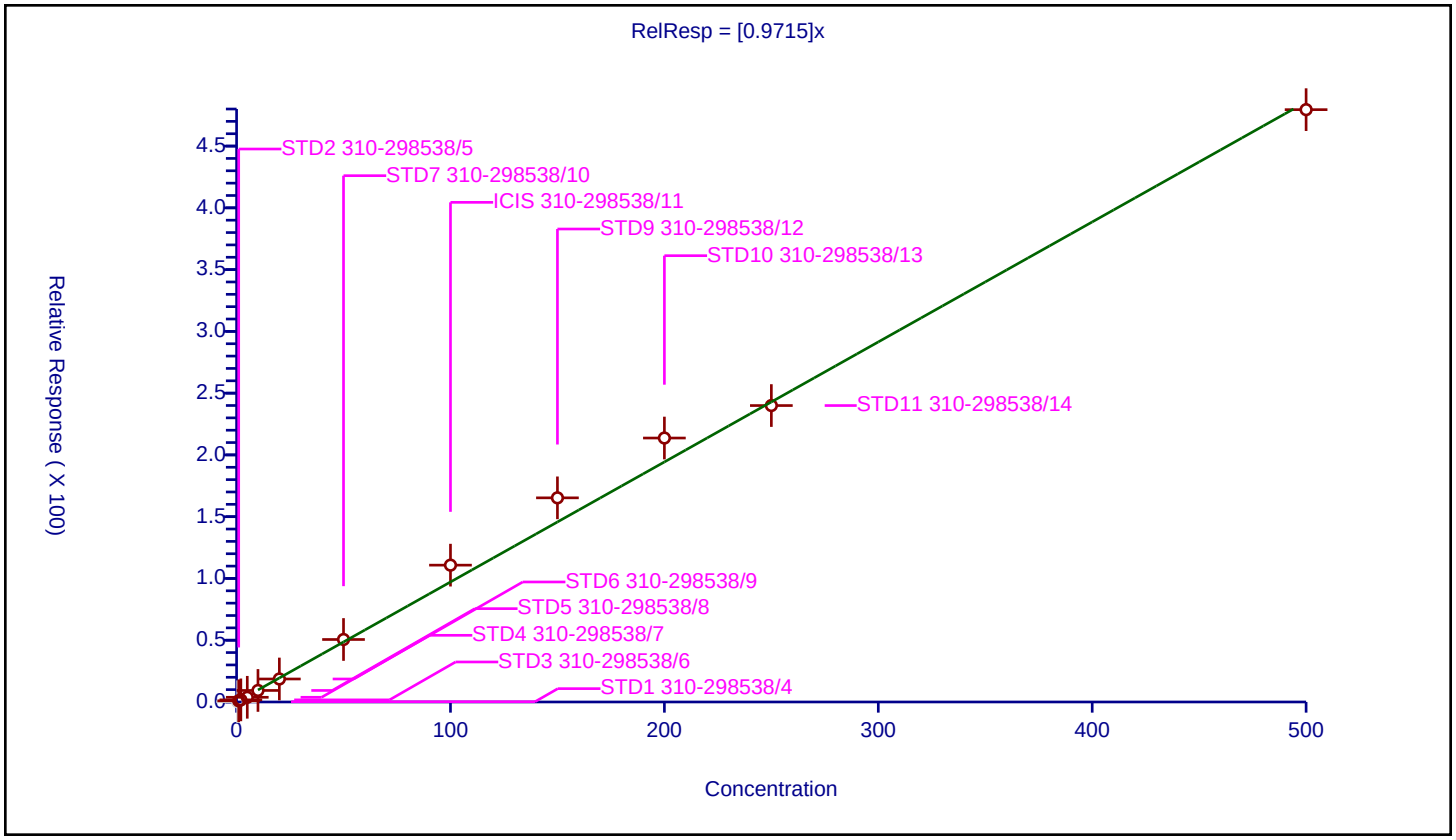
Curve Coefficients

Intercept:	0
Slope:	0.9715

Error Coefficients

Standard Error:	313000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.23069	50.0	77810.0	0.46138	N
2	STD2 310-298538/5	1.0	0.99103	50.0	80270.0	0.99103	Y
3	STD3 310-298538/6	2.0	1.722185	50.0	76821.0	0.861093	Y
4	STD4 310-298538/7	5.0	3.80181	50.0	79883.0	0.760362	Y
5	STD5 310-298538/8	10.0	9.342083	50.0	81074.0	0.934208	Y
6	STD6 310-298538/9	20.0	18.62474	50.0	79185.0	0.931237	Y
7	STD7 310-298538/10	50.0	50.589946	50.0	78397.0	1.011799	Y
8	ICIS 310-298538/11	100.0	110.765098	50.0	77245.0	1.107651	Y
9	STD9 310-298538/12	150.0	165.241999	50.0	77831.0	1.101613	Y
10	STD10 310-298538/13	200.0	213.680752	50.0	76392.0	1.068404	Y
11	STD11 310-298538/14	250.0	239.959201	50.0	84316.0	0.959837	Y
12	STD12 310-298538/15	500.0	479.48611	50.0	81496.0	0.958972	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

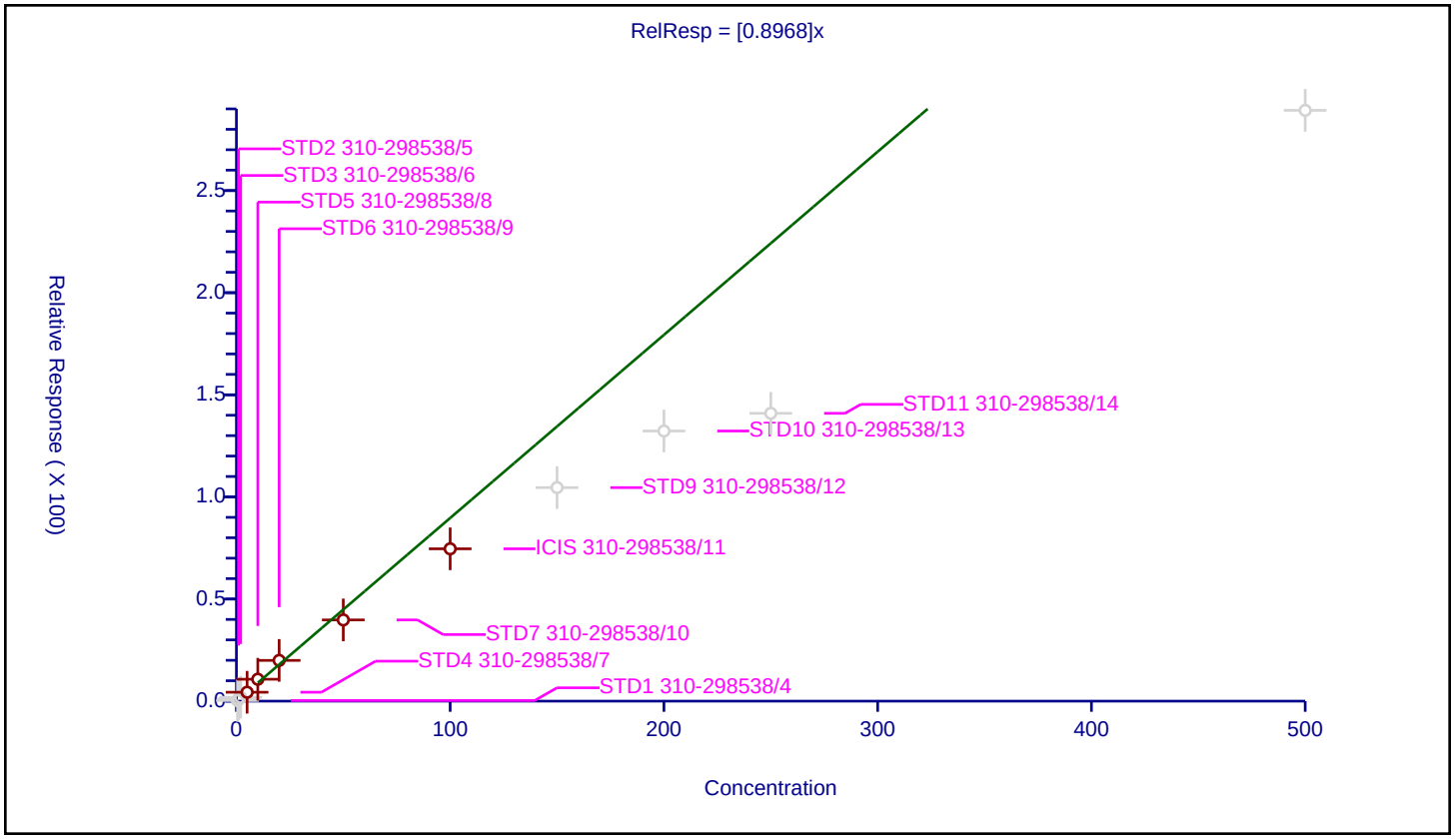
Curve Coefficients

Intercept:	0
Slope:	0.8968

Error Coefficients

Standard Error:	68000
Relative Standard Error:	15.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.287238	50.0	77810.0	0.574476	N
2	STD2 310-298538/5	1.0	1.118724	50.0	80270.0	1.118724	N
3	STD3 310-298538/6	2.0	1.8836	50.0	76821.0	0.9418	N
4	STD4 310-298538/7	5.0	4.359501	50.0	79883.0	0.8719	Y
5	STD5 310-298538/8	10.0	10.731554	50.0	81074.0	1.073155	Y
6	STD6 310-298538/9	20.0	19.952011	50.0	79185.0	0.997601	Y
7	STD7 310-298538/10	50.0	39.769379	50.0	78397.0	0.795388	Y
8	ICIS 310-298538/11	100.0	74.589294	50.0	77245.0	0.745893	Y
9	STD9 310-298538/12	150.0	104.567589	50.0	77831.0	0.697117	N
10	STD10 310-298538/13	200.0	132.274976	50.0	76392.0	0.661375	N
11	STD11 310-298538/14	250.0	140.938849	50.0	84316.0	0.563755	N
12	STD12 310-298538/15	500.0	289.288431	50.0	81496.0	0.578577	N



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

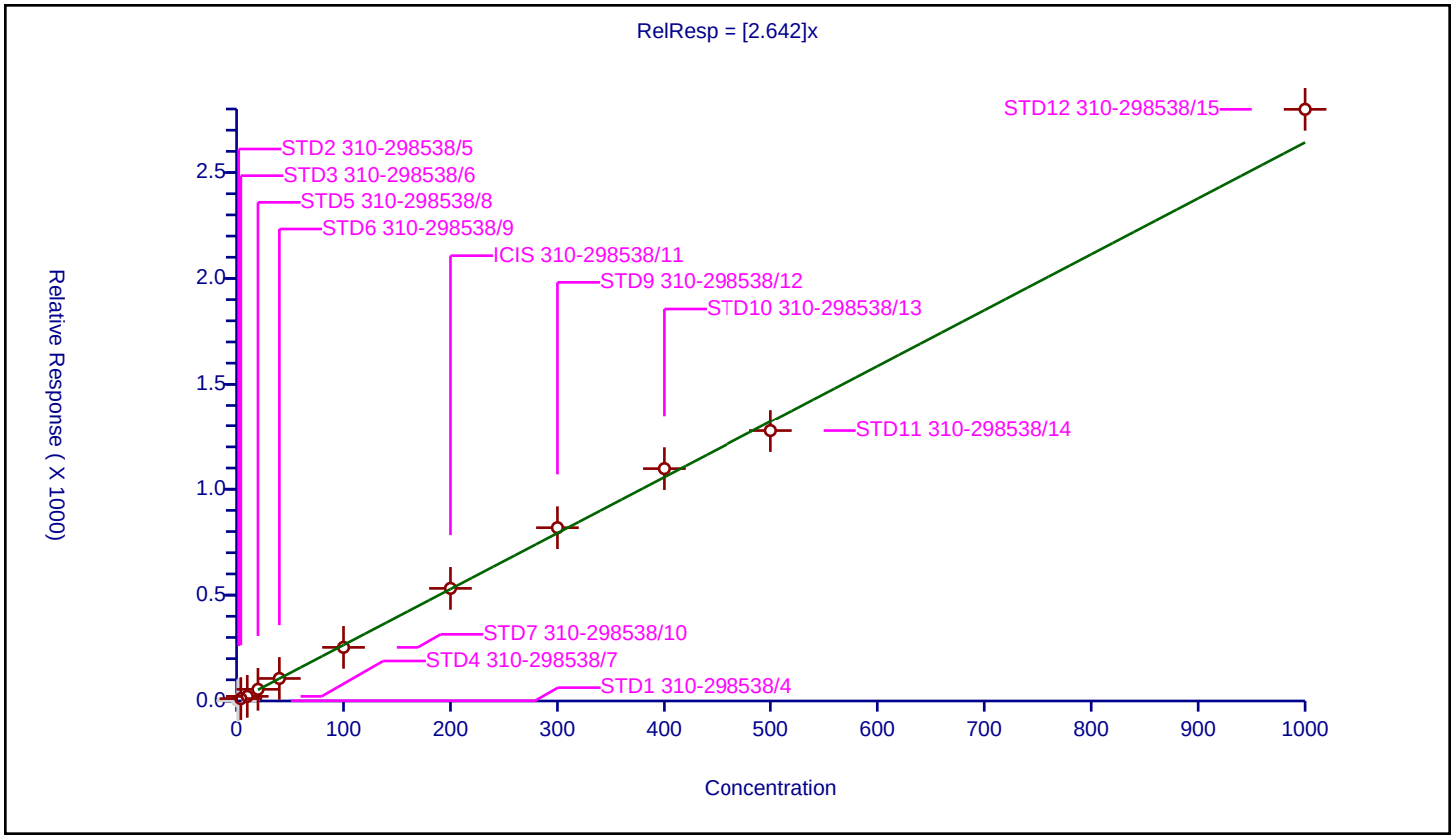
Curve Coefficients

Intercept:	0
Slope:	2.642

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	1.118751	50.0	77810.0	1.118751	N
2	STD2 310-298538/5	2.0	7.206304	50.0	80270.0	3.603152	N
3	STD3 310-298538/6	4.0	11.255386	50.0	76821.0	2.813846	Y
4	STD4 310-298538/7	10.0	21.829426	50.0	79883.0	2.182943	Y
5	STD5 310-298538/8	20.0	55.088561	50.0	81074.0	2.754428	Y
6	STD6 310-298538/9	40.0	106.336427	50.0	79185.0	2.658411	Y
7	STD7 310-298538/10	100.0	253.1079	50.0	78397.0	2.531079	Y
8	ICIS 310-298538/11	200.0	531.752217	50.0	77245.0	2.658761	Y
9	STD9 310-298538/12	300.0	818.305688	50.0	77831.0	2.727686	Y
10	STD10 310-298538/13	400.0	1097.222877	50.0	76392.0	2.743057	Y
11	STD11 310-298538/14	500.0	1276.991318	50.0	84316.0	2.553983	Y
12	STD12 310-298538/15	1000.0	2798.535511	50.0	81496.0	2.798536	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

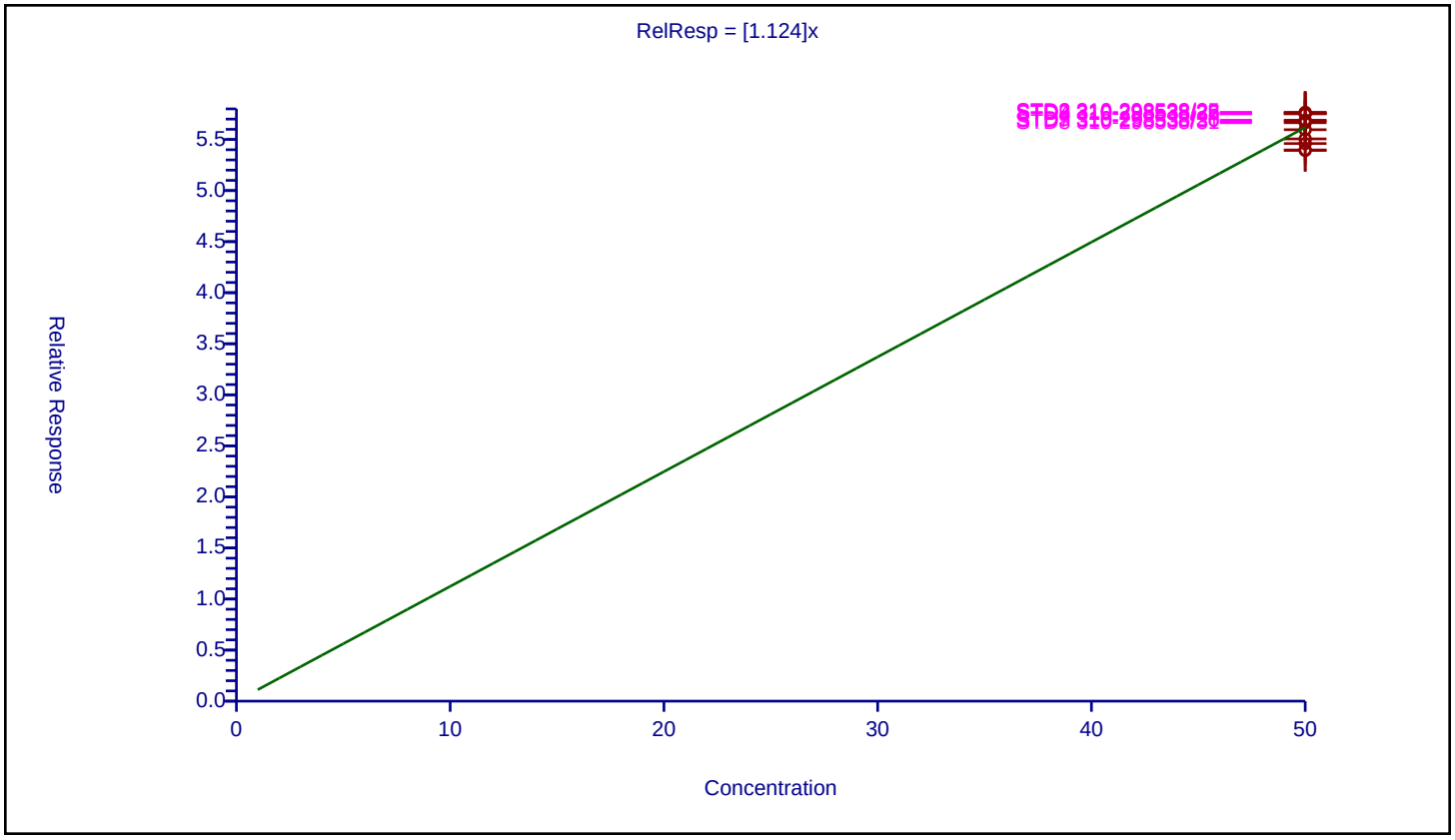
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Standard Error:	74000
Relative Standard Error:	2.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	50.0	54.607269	50.0	65592.0	1.092145	Y
2	STD2 310-298538/25	50.0	57.658034	50.0	62170.0	1.153161	Y
3	STD3 310-298538/26	50.0	57.620034	50.0	63753.0	1.152401	Y
4	STD4 310-298538/27	50.0	57.519275	50.0	62127.0	1.150386	Y
5	STD5 310-298538/28	50.0	56.887594	50.0	63324.0	1.137752	Y
6	STD6 310-298538/29	50.0	55.959293	50.0	64412.0	1.119186	Y
7	STD7 310-298538/30	50.0	56.798235	50.0	64605.0	1.135965	Y
8	STD8 310-298538/31	50.0	56.647126	50.0	62433.0	1.132943	Y
9	STD9 310-298538/32	50.0	57.537004	50.0	60601.0	1.15074	Y
10	STD10 310-298538/33	50.0	55.061469	50.0	61494.0	1.101229	Y
11	STD11 310-298538/34	50.0	53.978257	50.0	62364.0	1.079565	Y
12	STD12 310-298538/35	50.0	53.93427	50.0	63989.0	1.078685	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

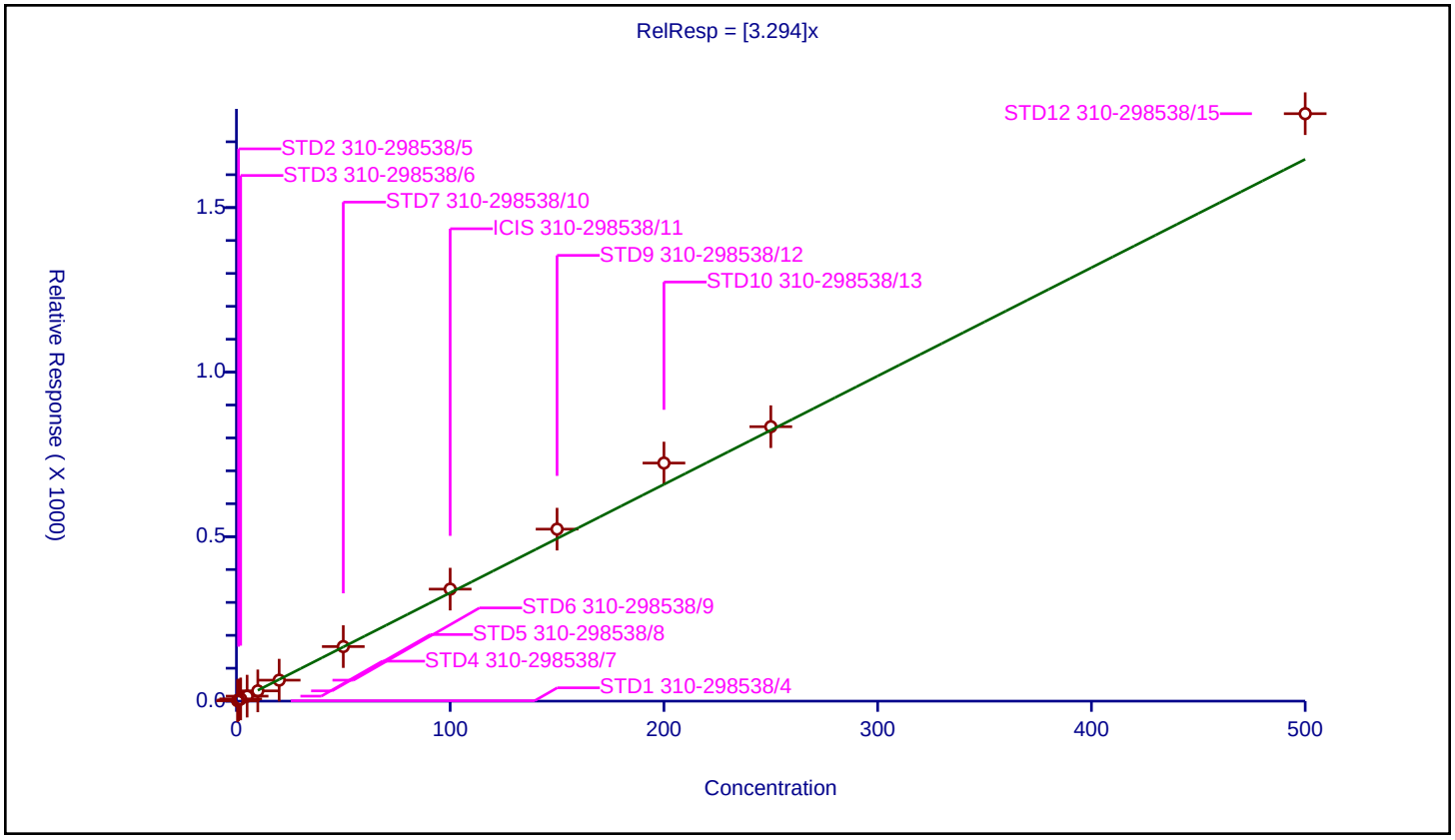
Curve Coefficients

Intercept:	0
Slope:	3.294

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.260121	50.0	77810.0	2.520242	Y
2	STD2 310-298538/5	1.0	3.567335	50.0	80270.0	3.567335	Y
3	STD3 310-298538/6	2.0	6.723422	50.0	76821.0	3.361711	Y
4	STD4 310-298538/7	5.0	15.19347	50.0	79883.0	3.038694	Y
5	STD5 310-298538/8	10.0	31.18509	50.0	81074.0	3.118509	Y
6	STD6 310-298538/9	20.0	63.76397	50.0	79185.0	3.188199	Y
7	STD7 310-298538/10	50.0	165.809916	50.0	78397.0	3.316198	Y
8	ICIS 310-298538/11	100.0	340.436921	50.0	77245.0	3.404369	Y
9	STD9 310-298538/12	150.0	522.699182	50.0	77831.0	3.484661	Y
10	STD10 310-298538/13	200.0	723.641219	50.0	76392.0	3.618206	Y
11	STD11 310-298538/14	250.0	834.150102	50.0	84316.0	3.3366	Y
12	STD12 310-298538/15	500.0	1785.468612	50.0	81496.0	3.570937	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

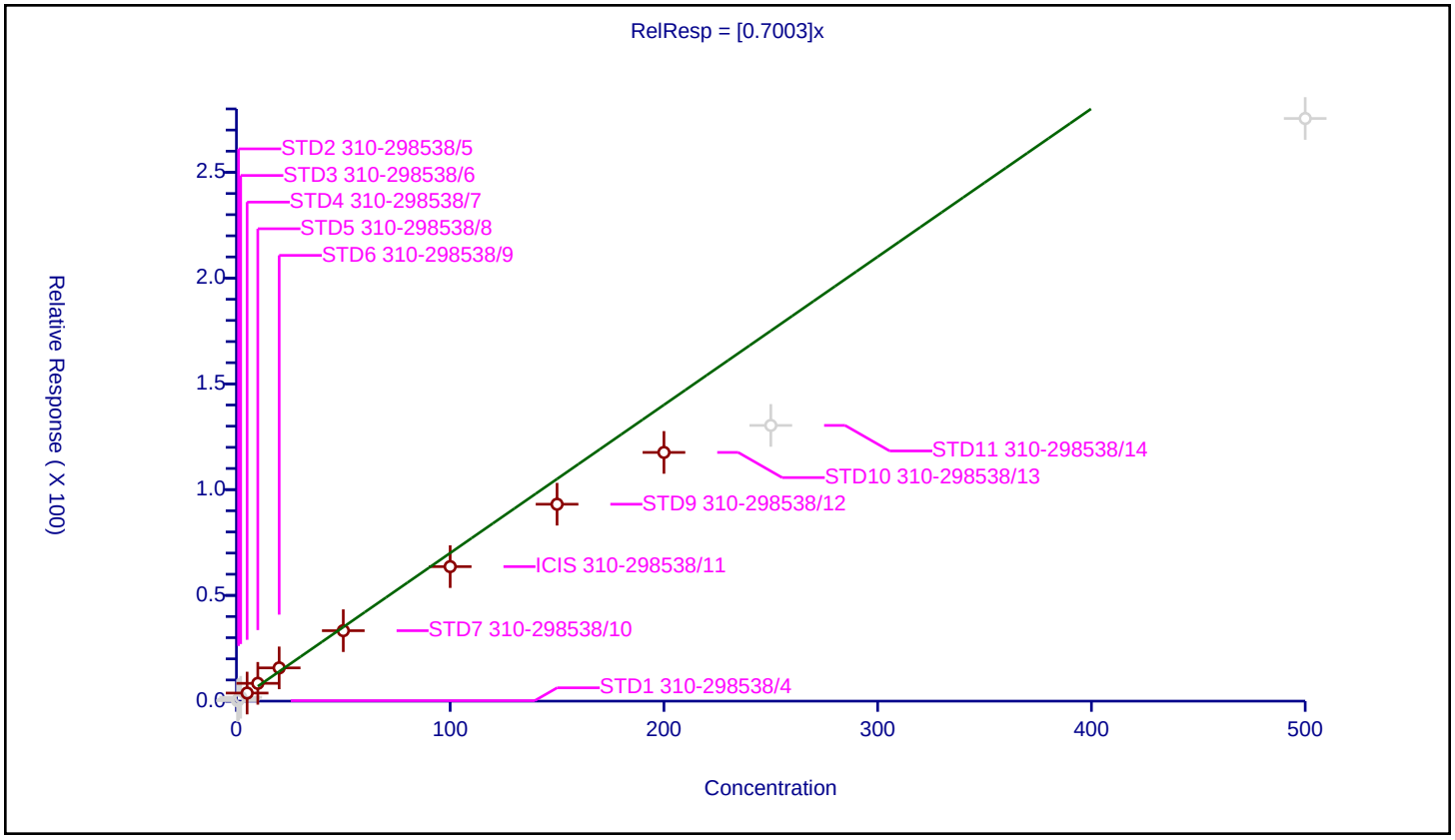
Curve Coefficients

Intercept:	0
Slope:	0.7003

Error Coefficients

Standard Error:	105000
Relative Standard Error:	13.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.221051	50.0	77810.0	0.442103	N
2	STD2 310-298538/5	1.0	0.894481	50.0	80270.0	0.894481	N
3	STD3 310-298538/6	2.0	1.820466	50.0	76821.0	0.910233	N
4	STD4 310-298538/7	5.0	3.817458	50.0	79883.0	0.763492	Y
5	STD5 310-298538/8	10.0	8.416385	50.0	81074.0	0.841639	Y
6	STD6 310-298538/9	20.0	15.727095	50.0	79185.0	0.786355	Y
7	STD7 310-298538/10	50.0	33.316964	50.0	78397.0	0.666339	Y
8	ICIS 310-298538/11	100.0	63.601528	50.0	77245.0	0.636015	Y
9	STD9 310-298538/12	150.0	93.097223	50.0	77831.0	0.620648	Y
10	STD10 310-298538/13	200.0	117.588884	50.0	76392.0	0.587944	Y
11	STD11 310-298538/14	250.0	130.362565	50.0	84316.0	0.52145	N
12	STD12 310-298538/15	500.0	275.46444	50.0	81496.0	0.550929	N



Calibration / Ethyl methacrylate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

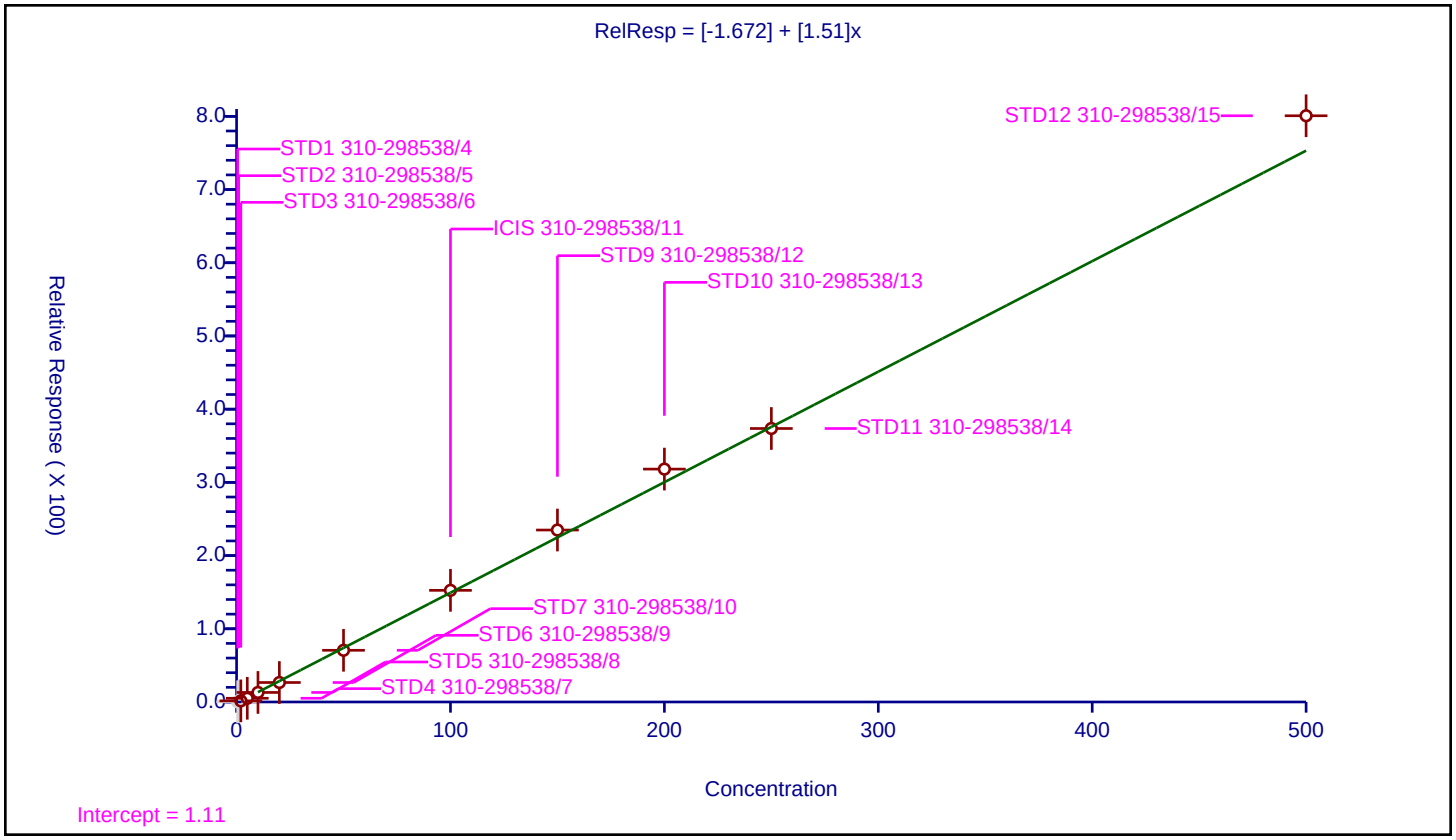
Curve Coefficients

Intercept:	-1.672
Slope:	1.51

Error Coefficients

Standard Error:	563000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.201774	50.0	77810.0	0.403547	N
2	STD2 310-298538/5	1.0	1.090071	50.0	80270.0	1.090071	N
3	STD3 310-298538/6	2.0	1.506749	50.0	76821.0	0.753375	Y
4	STD4 310-298538/7	5.0	5.0937	50.0	79883.0	1.01874	Y
5	STD5 310-298538/8	10.0	13.012186	50.0	81074.0	1.301219	Y
6	STD6 310-298538/9	20.0	26.616783	50.0	79185.0	1.330839	Y
7	STD7 310-298538/10	50.0	70.630891	50.0	78397.0	1.412618	Y
8	ICIS 310-298538/11	100.0	152.49466	50.0	77245.0	1.524947	Y
9	STD9 310-298538/12	150.0	234.887127	50.0	77831.0	1.565914	Y
10	STD10 310-298538/13	200.0	318.122316	50.0	76392.0	1.590612	Y
11	STD11 310-298538/14	250.0	373.577376	50.0	84316.0	1.49431	Y
12	STD12 310-298538/15	500.0	800.795131	50.0	81496.0	1.60159	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

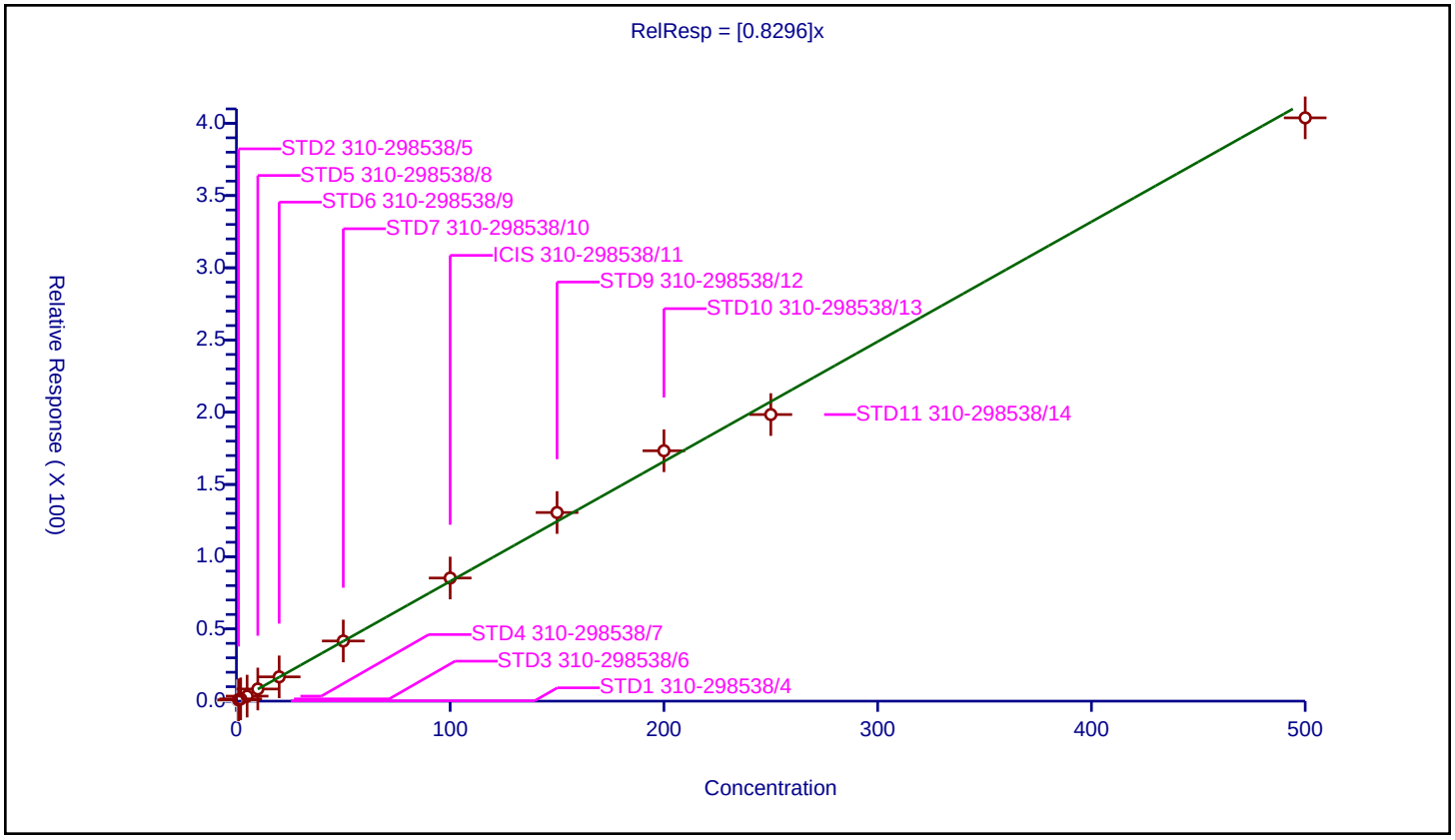
Curve Coefficients

Intercept:	0
Slope:	0.8296

Error Coefficients

Standard Error:	260000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.257036	50.0	77810.0	0.514073	N
2	STD2 310-298538/5	1.0	0.939953	50.0	80270.0	0.939953	Y
3	STD3 310-298538/6	2.0	1.570534	50.0	76821.0	0.785267	Y
4	STD4 310-298538/7	5.0	3.480716	50.0	79883.0	0.696143	Y
5	STD5 310-298538/8	10.0	8.404667	50.0	81074.0	0.840467	Y
6	STD6 310-298538/9	20.0	16.806213	50.0	79185.0	0.840311	Y
7	STD7 310-298538/10	50.0	41.63616	50.0	78397.0	0.832723	Y
8	ICIS 310-298538/11	100.0	85.236585	50.0	77245.0	0.852366	Y
9	STD9 310-298538/12	150.0	130.583572	50.0	77831.0	0.870557	Y
10	STD10 310-298538/13	200.0	173.323777	50.0	76392.0	0.866619	Y
11	STD11 310-298538/14	250.0	198.395322	50.0	84316.0	0.793581	Y
12	STD12 310-298538/15	500.0	403.810616	50.0	81496.0	0.807621	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

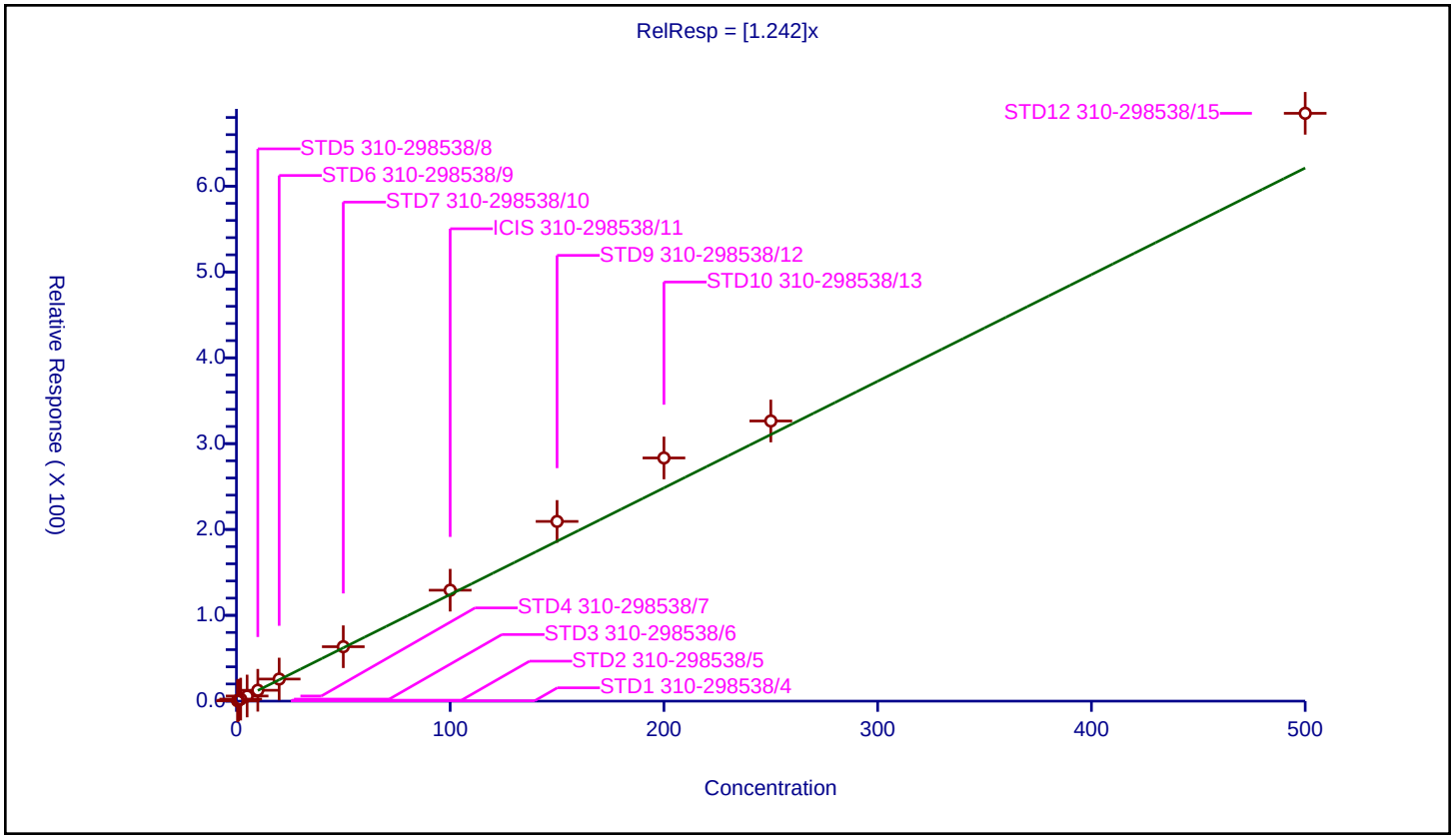
Curve Coefficients

Intercept:	0
Slope:	1.242

Error Coefficients

Standard Error:	415000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.413829	50.0	77810.0	0.827657	Y
2	STD2 310-298538/5	1.0	1.093185	50.0	80270.0	1.093185	Y
3	STD3 310-298538/6	2.0	2.372398	50.0	76821.0	1.186199	Y
4	STD4 310-298538/7	5.0	5.985629	50.0	79883.0	1.197126	Y
5	STD5 310-298538/8	10.0	12.67484	50.0	81074.0	1.267484	Y
6	STD6 310-298538/9	20.0	25.746669	50.0	79185.0	1.287333	Y
7	STD7 310-298538/10	50.0	63.406125	50.0	78397.0	1.268123	Y
8	ICIS 310-298538/11	100.0	129.258204	50.0	77245.0	1.292582	Y
9	STD9 310-298538/12	150.0	209.383151	50.0	77831.0	1.395888	Y
10	STD10 310-298538/13	200.0	283.315661	50.0	76392.0	1.416578	Y
11	STD11 310-298538/14	250.0	326.37637	50.0	84316.0	1.305505	Y
12	STD12 310-298538/15	500.0	684.845882	50.0	81496.0	1.369692	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

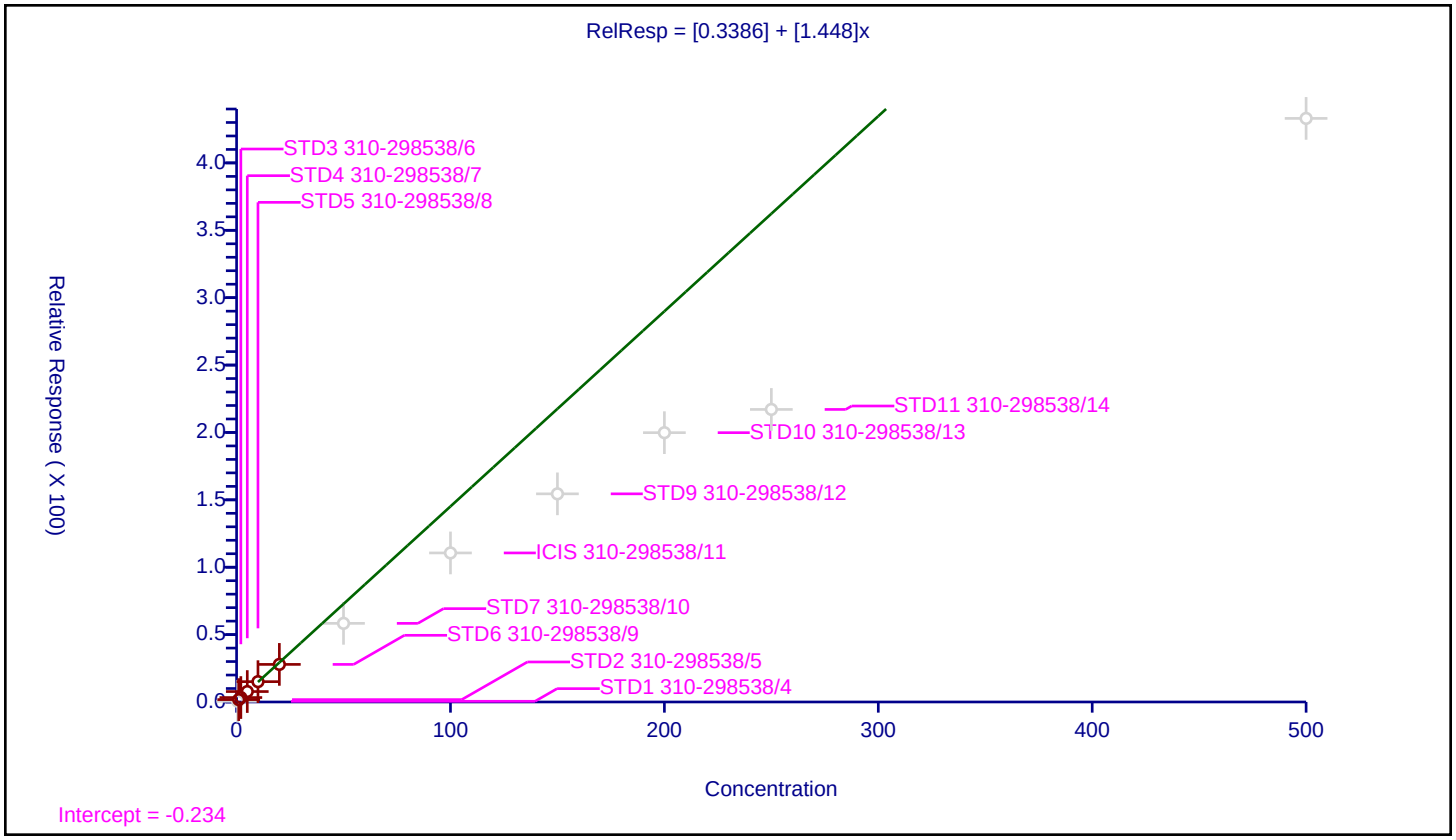
Curve Coefficients

Intercept:	0.3386
Slope:	1.448

Error Coefficients

Standard Error:	30200
Relative Standard Error:	3.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.523069	50.0	77810.0	1.046138	N
2	STD2 310-298538/5	1.0	1.766538	50.0	80270.0	1.766538	Y
3	STD3 310-298538/6	2.0	3.289465	50.0	76821.0	1.644733	Y
4	STD4 310-298538/7	5.0	7.752588	50.0	79883.0	1.550518	Y
5	STD5 310-298538/8	10.0	15.094235	50.0	81074.0	1.509423	Y
6	STD6 310-298538/9	20.0	27.896066	50.0	79185.0	1.394803	Y
7	STD7 310-298538/10	50.0	58.344707	50.0	78397.0	1.166894	N
8	ICIS 310-298538/11	100.0	110.600686	50.0	77245.0	1.106007	N
9	STD9 310-298538/12	150.0	154.450669	50.0	77831.0	1.029671	N
10	STD10 310-298538/13	200.0	199.832443	50.0	76392.0	0.999162	N
11	STD11 310-298538/14	250.0	217.083353	50.0	84316.0	0.868333	N
12	STD12 310-298538/15	500.0	433.044567	50.0	81496.0	0.866089	N



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

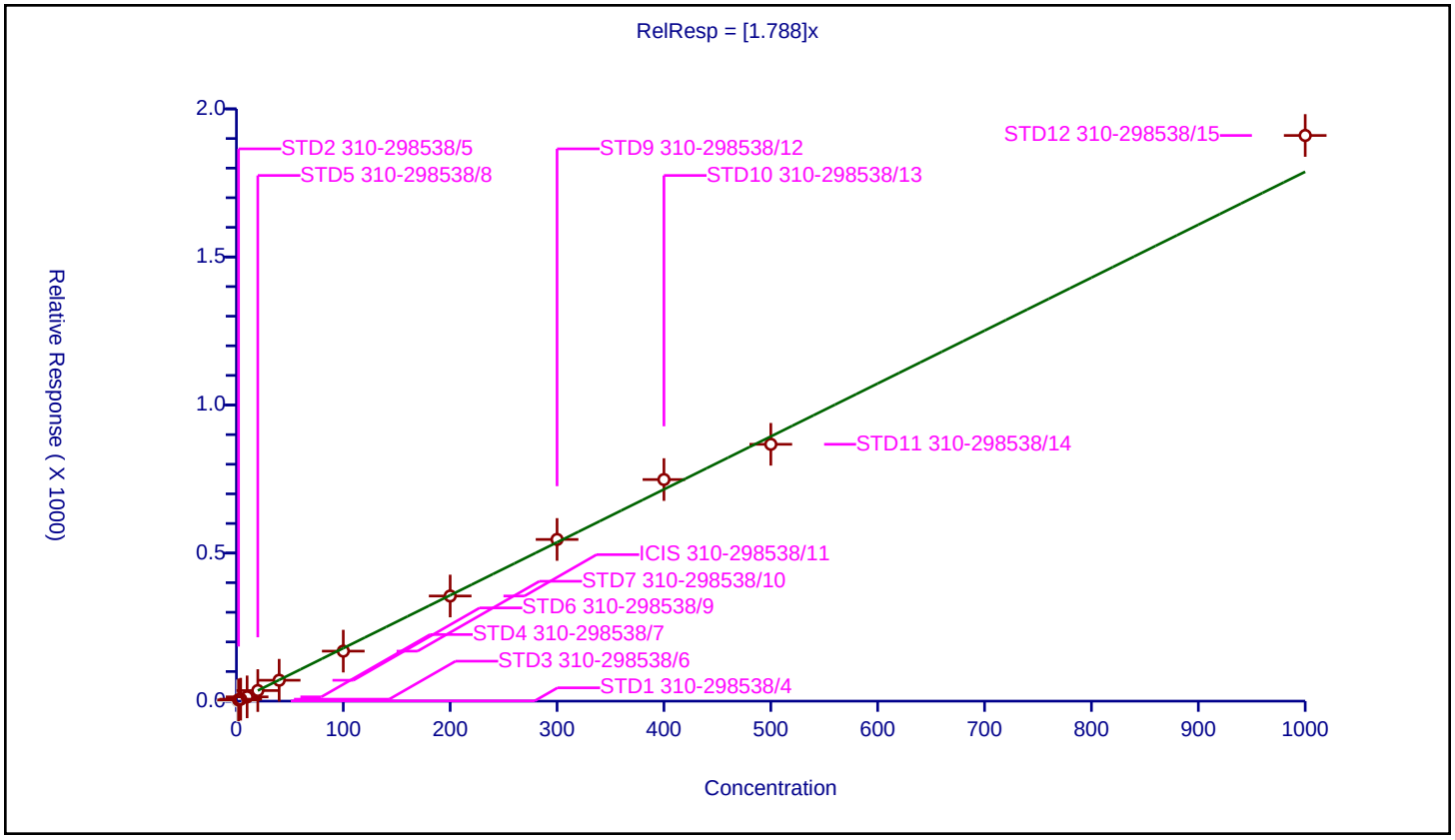
Curve Coefficients

Intercept:	0
Slope:	1.788

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	1.0	0.874566	50.0	77810.0	0.874566	N
2	STD2 310-298538/5	2.0	4.410116	50.0	80270.0	2.205058	Y
3	STD3 310-298538/6	4.0	6.644017	50.0	76821.0	1.661004	Y
4	STD4 310-298538/7	10.0	14.451761	50.0	79883.0	1.445176	Y
5	STD5 310-298538/8	20.0	35.777191	50.0	81074.0	1.78886	Y
6	STD6 310-298538/9	40.0	70.570815	50.0	79185.0	1.76427	Y
7	STD7 310-298538/10	100.0	168.867431	50.0	78397.0	1.688674	Y
8	ICIS 310-298538/11	200.0	355.088355	50.0	77245.0	1.775442	Y
9	STD9 310-298538/12	300.0	546.021508	50.0	77831.0	1.820072	Y
10	STD10 310-298538/13	400.0	748.310687	50.0	76392.0	1.870777	Y
11	STD11 310-298538/14	500.0	867.359101	50.0	84316.0	1.734718	Y
12	STD12 310-298538/15	1000.0	1910.212158	50.0	81496.0	1.910212	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

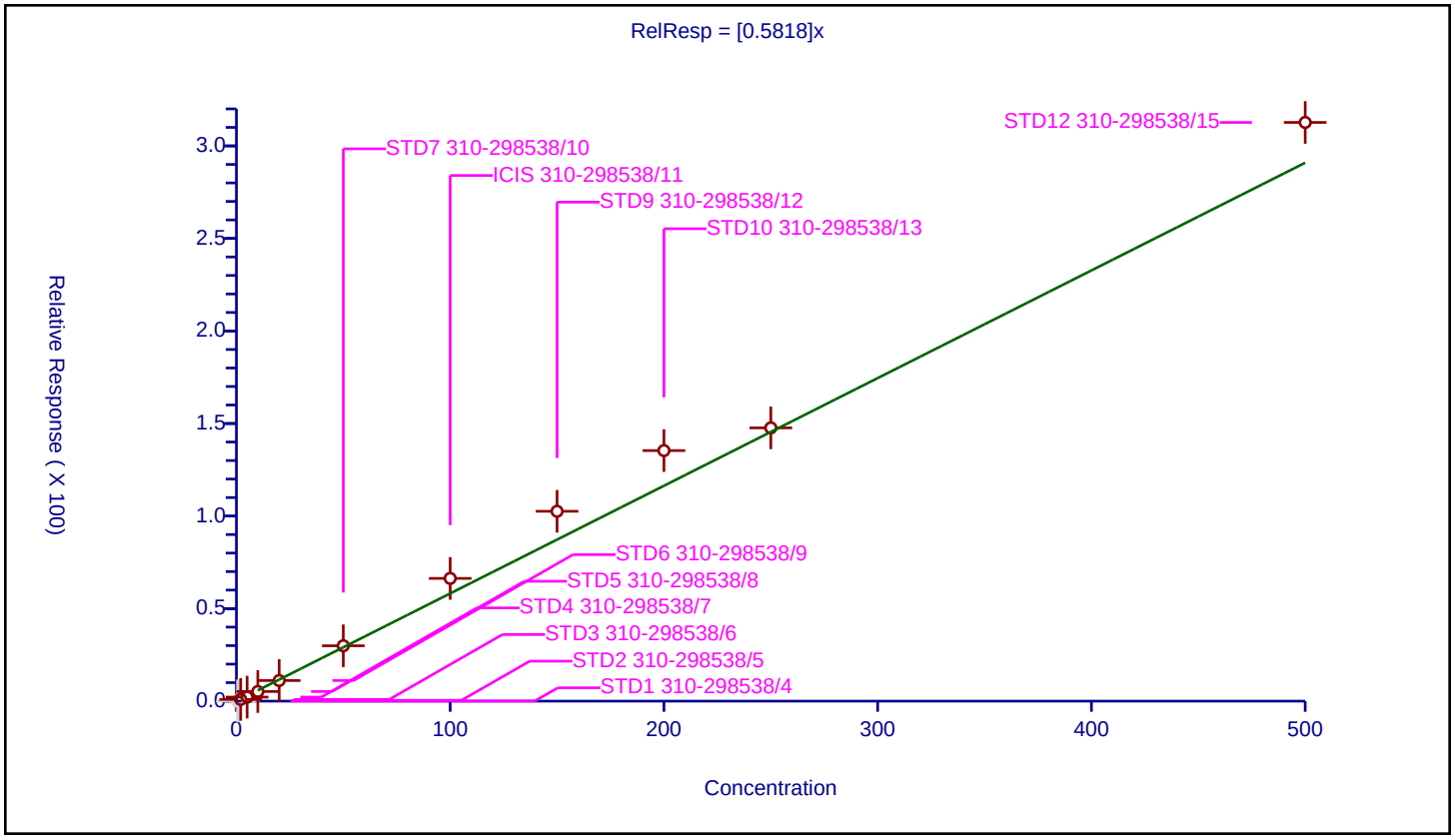
Curve Coefficients

Intercept:	0
Slope:	0.5818

Error Coefficients

Standard Error:	212000
Relative Standard Error:	14.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.028917	50.0	77810.0	0.057833	N
2	STD2 310-298538/5	1.0	0.448486	50.0	80270.0	0.448486	N
3	STD3 310-298538/6	2.0	0.933989	50.0	76821.0	0.466995	Y
4	STD4 310-298538/7	5.0	2.182567	50.0	79883.0	0.436513	Y
5	STD5 310-298538/8	10.0	5.197104	50.0	81074.0	0.51971	Y
6	STD6 310-298538/9	20.0	11.133422	50.0	79185.0	0.556671	Y
7	STD7 310-298538/10	50.0	29.90867	50.0	78397.0	0.598173	Y
8	ICIS 310-298538/11	100.0	66.325976	50.0	77245.0	0.66326	Y
9	STD9 310-298538/12	150.0	102.579306	50.0	77831.0	0.683862	Y
10	STD10 310-298538/13	200.0	135.380668	50.0	76392.0	0.676903	Y
11	STD11 310-298538/14	250.0	147.658214	50.0	84316.0	0.590633	Y
12	STD12 310-298538/15	500.0	312.683445	50.0	81496.0	0.625367	Y



Calibration / n-Butyl acetate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

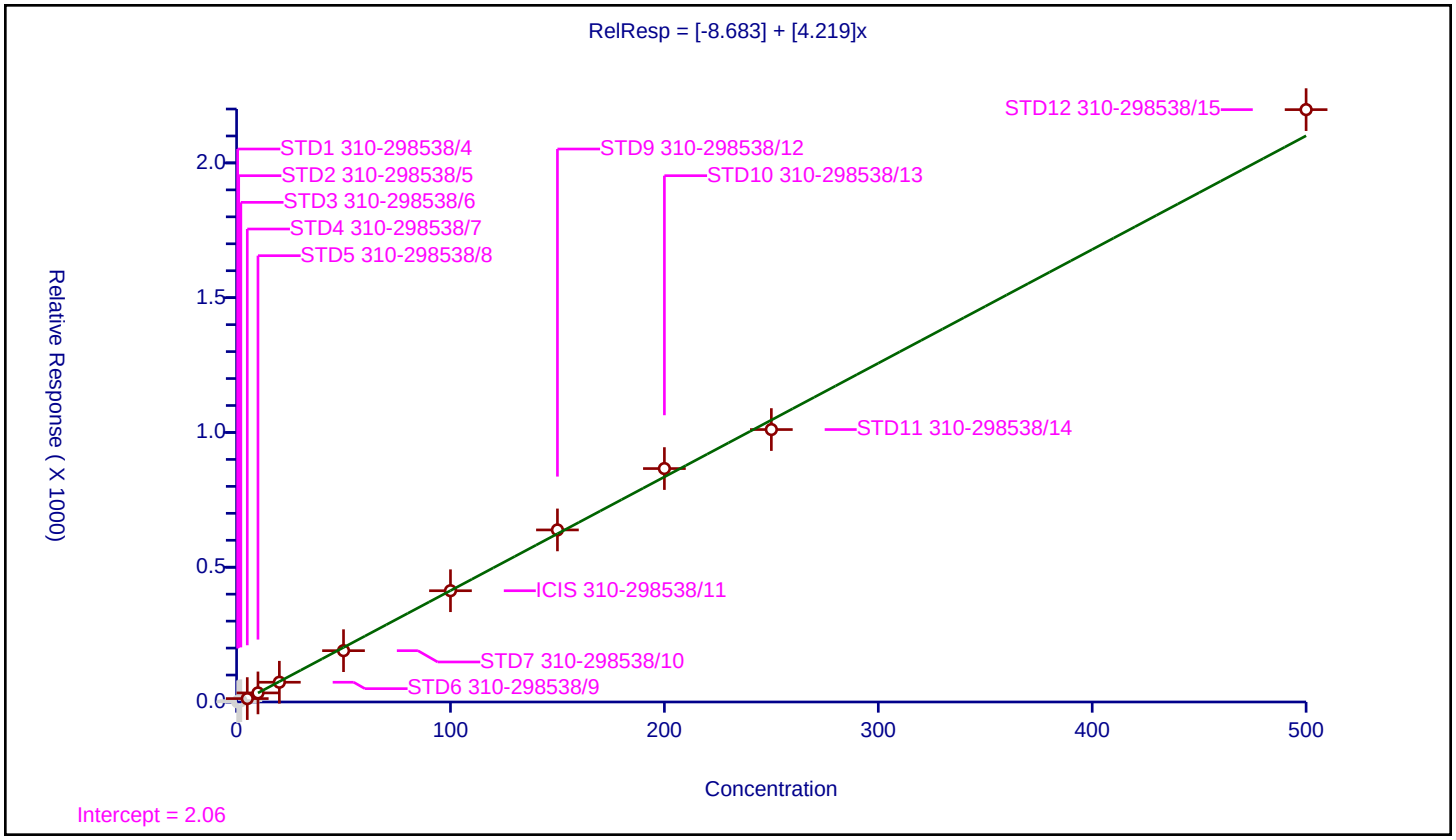
Curve Coefficients

Intercept:	-8.683
Slope:	4.219

Error Coefficients

Standard Error:	1650000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.645804	50.0	77810.0	1.291608	N
2	STD2 310-298538/5	1.0	3.267721	50.0	80270.0	3.267721	N
3	STD3 310-298538/6	2.0	4.76237	50.0	76821.0	2.381185	N
4	STD4 310-298538/7	5.0	12.59467	50.0	79883.0	2.518934	Y
5	STD5 310-298538/8	10.0	33.727829	50.0	81074.0	3.372783	Y
6	STD6 310-298538/9	20.0	73.299236	50.0	79185.0	3.664962	Y
7	STD7 310-298538/10	50.0	190.381009	50.0	78397.0	3.80762	Y
8	ICIS 310-298538/11	100.0	412.783999	50.0	77245.0	4.12784	Y
9	STD9 310-298538/12	150.0	638.361964	50.0	77831.0	4.255746	Y
10	STD10 310-298538/13	200.0	866.023275	50.0	76392.0	4.330116	Y
11	STD11 310-298538/14	250.0	1010.789174	50.0	84316.0	4.043157	Y
12	STD12 310-298538/15	500.0	2197.680254	50.0	81496.0	4.395361	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

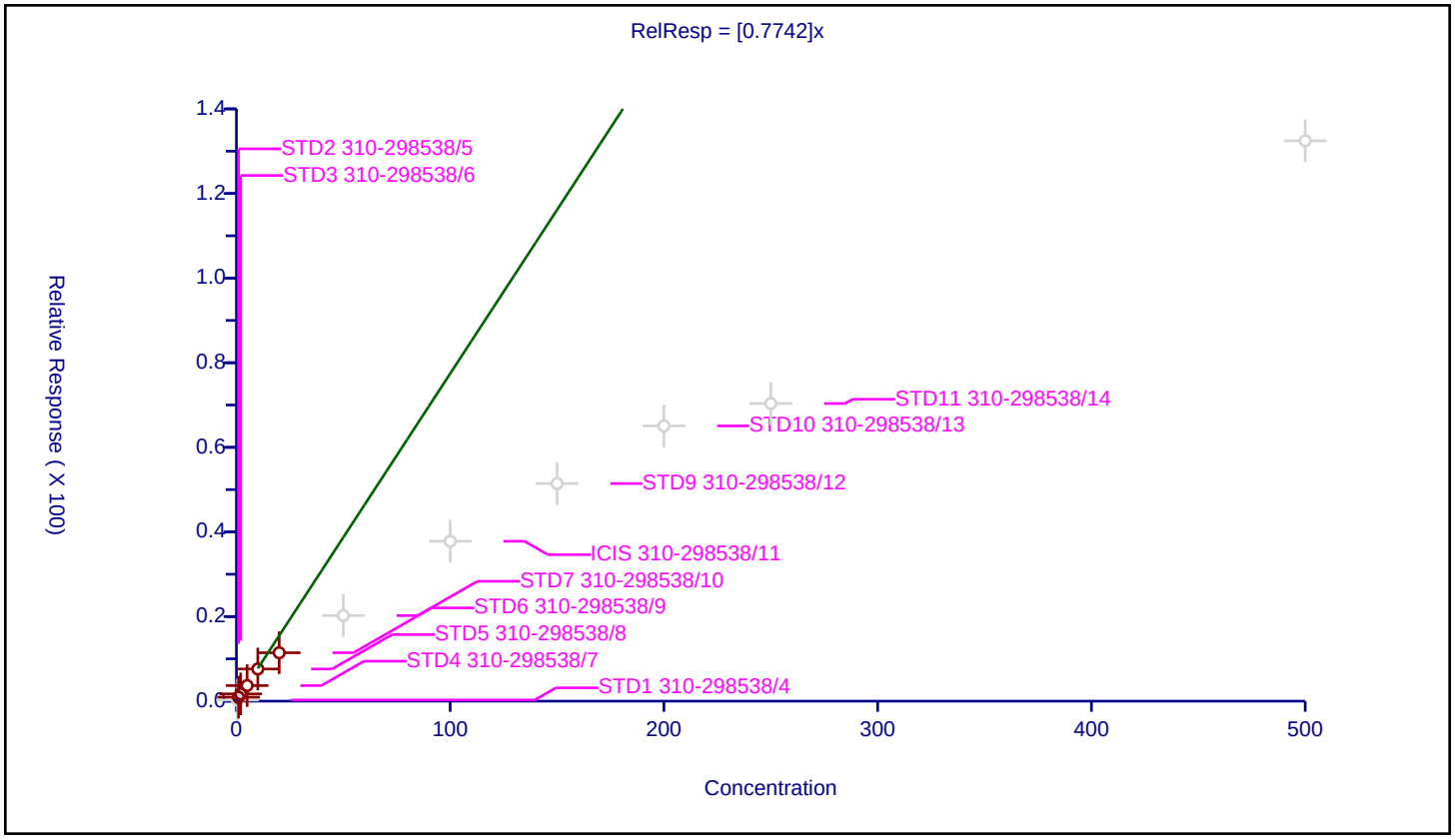
Curve Coefficients

Intercept:	0
Slope:	0.7742

Error Coefficients

Standard Error:	11400
Relative Standard Error:	18.1
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.925

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.274386	50.0	77810.0	0.548773	N
2	STD2 310-298538/5	1.0	0.94369	50.0	80270.0	0.94369	Y
3	STD3 310-298538/6	2.0	1.71828	50.0	76821.0	0.85914	Y
4	STD4 310-298538/7	5.0	3.681008	50.0	79883.0	0.736202	Y
5	STD5 310-298538/8	10.0	7.600464	50.0	81074.0	0.760046	Y
6	STD6 310-298538/9	20.0	11.442824	50.0	79185.0	0.572141	Y
7	STD7 310-298538/10	50.0	20.226539	50.0	78397.0	0.404531	N
8	ICIS 310-298538/11	100.0	37.797916	50.0	77245.0	0.377979	N
9	STD9 310-298538/12	150.0	51.43773	50.0	77831.0	0.342918	N
10	STD10 310-298538/13	200.0	65.06375	50.0	76392.0	0.325319	N
11	STD11 310-298538/14	250.0	70.353788	50.0	84316.0	0.281415	N
12	STD12 310-298538/15	500.0	132.460489	50.0	81496.0	0.264921	N



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

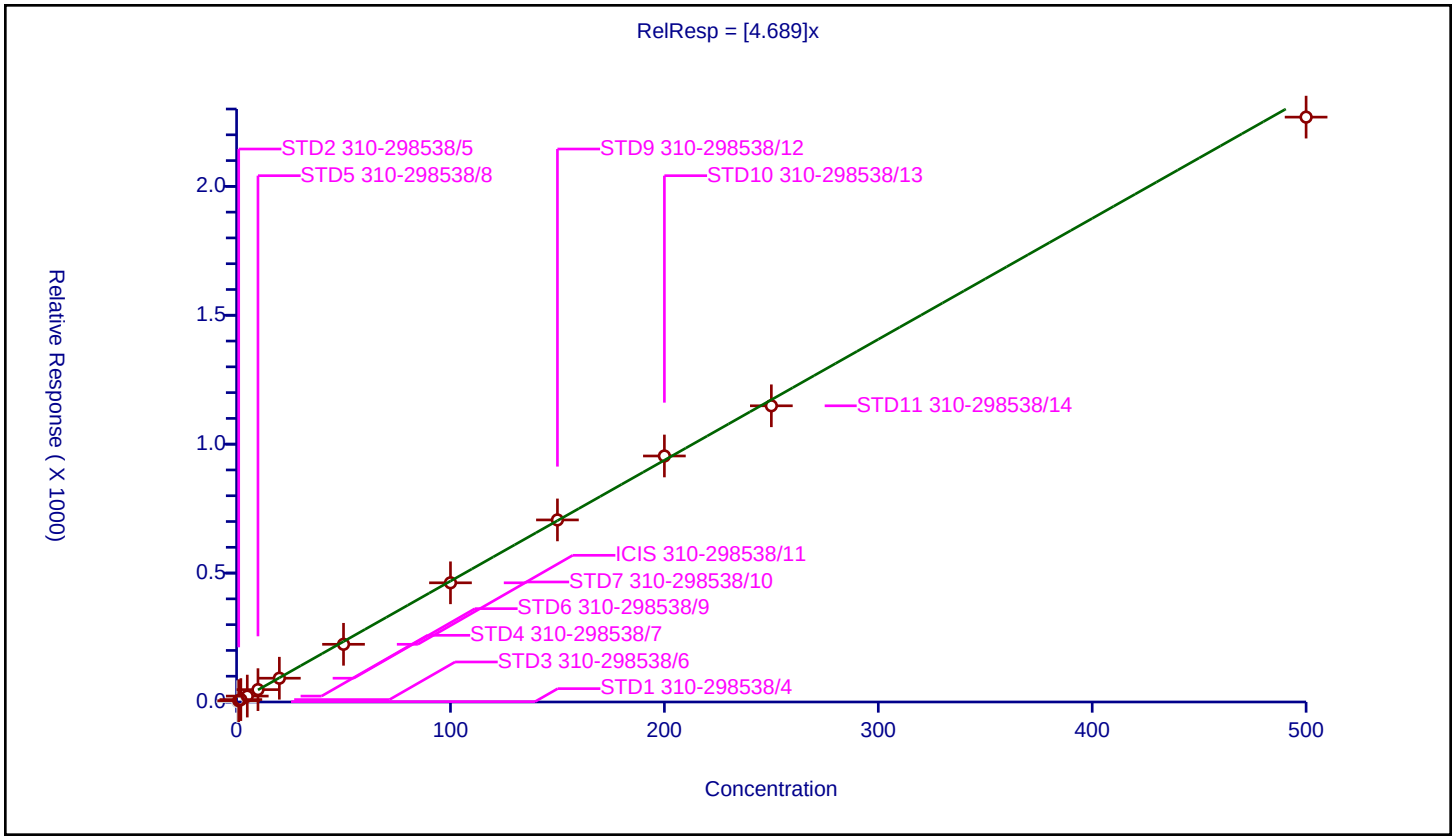
Curve Coefficients

Intercept:	0
Slope:	4.689

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.351702	50.0	65436.0	2.703405	N
2	STD2 310-298538/5	1.0	5.207894	50.0	66380.0	5.207894	Y
3	STD3 310-298538/6	2.0	9.34503	50.0	62354.0	4.672515	Y
4	STD4 310-298538/7	5.0	22.894488	50.0	61434.0	4.578898	Y
5	STD5 310-298538/8	10.0	47.975478	50.0	61496.0	4.797548	Y
6	STD6 310-298538/9	20.0	92.254558	50.0	59067.0	4.612728	Y
7	STD7 310-298538/10	50.0	223.779581	50.0	60512.0	4.475592	Y
8	ICIS 310-298538/11	100.0	462.31106	50.0	59609.0	4.623111	Y
9	STD9 310-298538/12	150.0	706.207998	50.0	59818.0	4.708053	Y
10	STD10 310-298538/13	200.0	954.204601	50.0	58983.0	4.771023	Y
11	STD11 310-298538/14	250.0	1148.889965	50.0	61935.0	4.59556	Y
12	STD12 310-298538/15	500.0	2268.523185	50.0	63488.0	4.537046	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

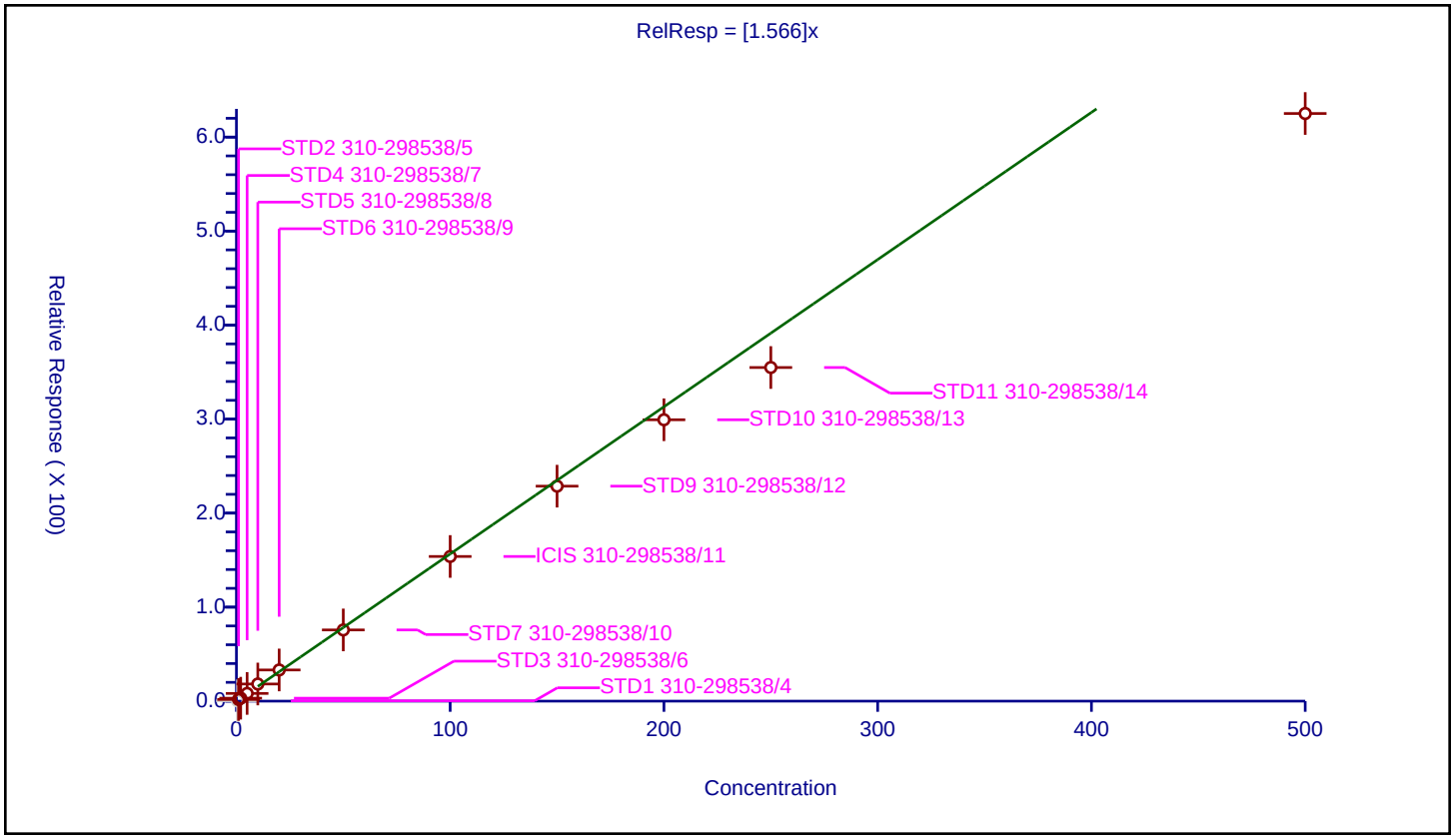
Curve Coefficients

Intercept:	0
Slope:	1.566

Error Coefficients

Standard Error:	326000
Relative Standard Error:	10.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.38893	50.0	65436.0	0.777859	N
2	STD2 310-298538/5	1.0	1.794215	50.0	66380.0	1.794215	Y
3	STD3 310-298538/6	2.0	3.12089	50.0	62354.0	1.560445	Y
4	STD4 310-298538/7	5.0	8.215321	50.0	61434.0	1.643064	Y
5	STD5 310-298538/8	10.0	18.218258	50.0	61496.0	1.821826	Y
6	STD6 310-298538/9	20.0	33.164881	50.0	59067.0	1.658244	Y
7	STD7 310-298538/10	50.0	75.752743	50.0	60512.0	1.515055	Y
8	ICIS 310-298538/11	100.0	153.883642	50.0	59609.0	1.538836	Y
9	STD9 310-298538/12	150.0	228.68451	50.0	59818.0	1.524563	Y
10	STD10 310-298538/13	200.0	299.302341	50.0	58983.0	1.496512	Y
11	STD11 310-298538/14	250.0	354.906757	50.0	61935.0	1.419627	Y
12	STD12 310-298538/15	500.0	625.106319	50.0	63488.0	1.250213	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

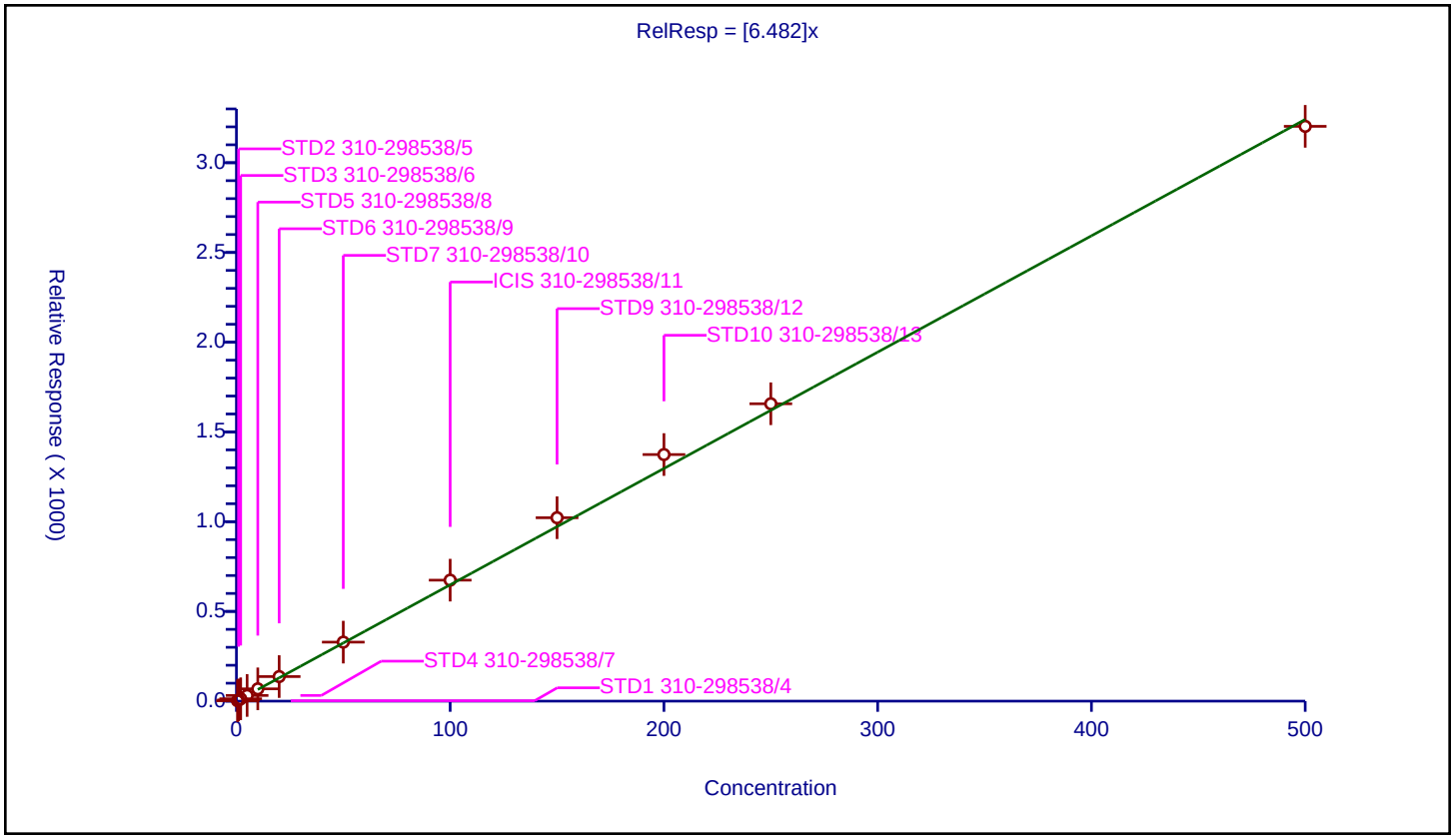
Curve Coefficients

Intercept:	0
Slope:	6.482

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	2.269393	50.0	65436.0	4.538786	Y
2	STD2 310-298538/5	1.0	6.600633	50.0	66380.0	6.600633	Y
3	STD3 310-298538/6	2.0	13.16355	50.0	62354.0	6.581775	Y
4	STD4 310-298538/7	5.0	31.725917	50.0	61434.0	6.345183	Y
5	STD5 310-298538/8	10.0	68.438598	50.0	61496.0	6.84386	Y
6	STD6 310-298538/9	20.0	136.839521	50.0	59067.0	6.841976	Y
7	STD7 310-298538/10	50.0	328.847997	50.0	60512.0	6.57696	Y
8	ICIS 310-298538/11	100.0	674.089483	50.0	59609.0	6.740895	Y
9	STD9 310-298538/12	150.0	1022.005918	50.0	59818.0	6.813373	Y
10	STD10 310-298538/13	200.0	1373.939949	50.0	58983.0	6.8697	Y
11	STD11 310-298538/14	250.0	1657.006539	50.0	61935.0	6.628026	Y
12	STD12 310-298538/15	500.0	3202.754064	50.0	63488.0	6.405508	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

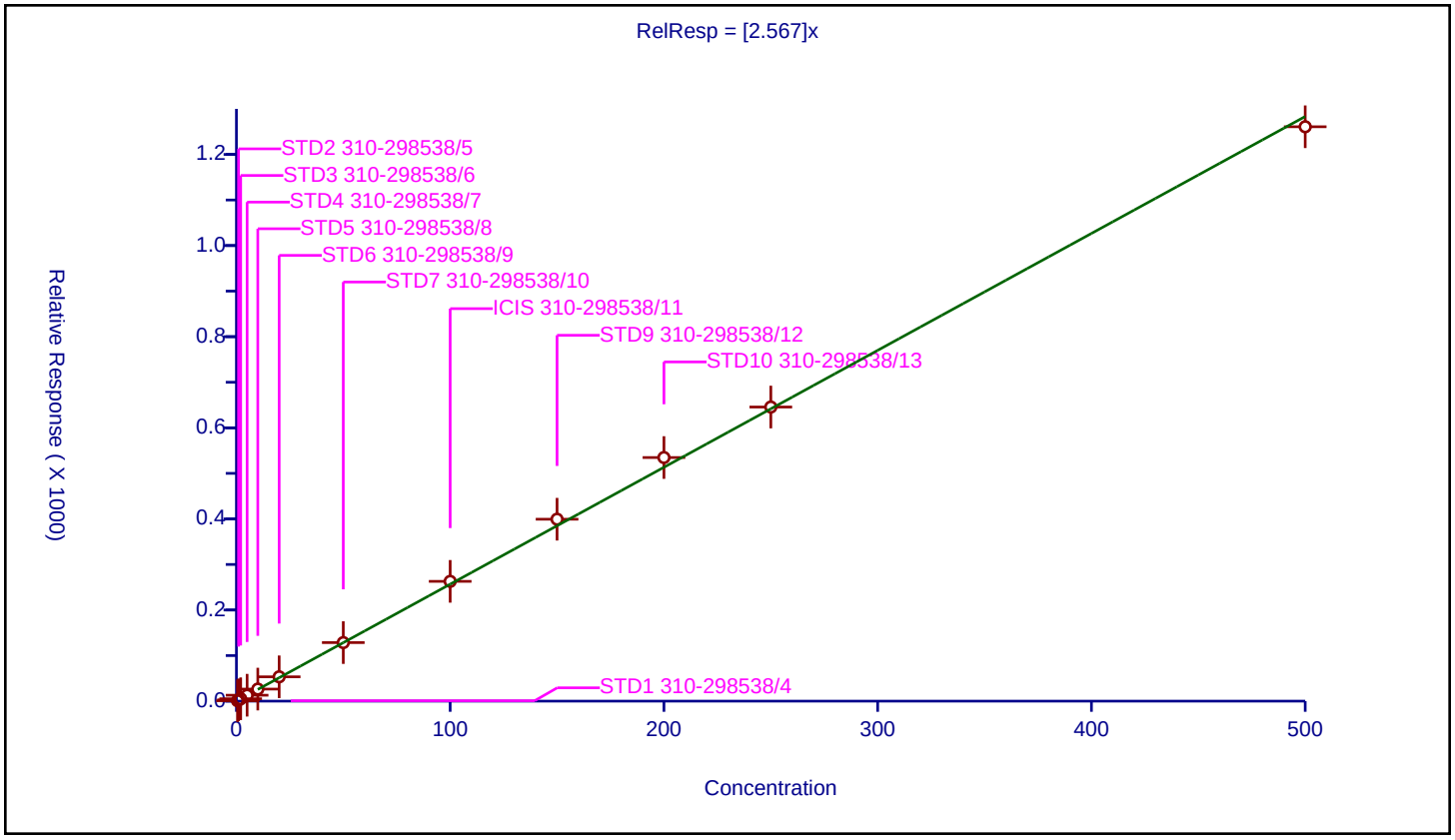
Curve Coefficients

Intercept:	0
Slope:	2.567

Error Coefficients

Standard Error:	599000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.906229	50.0	65436.0	1.812458	Y
2	STD2 310-298538/5	1.0	2.811841	50.0	66380.0	2.811841	Y
3	STD3 310-298538/6	2.0	5.225807	50.0	62354.0	2.612904	Y
4	STD4 310-298538/7	5.0	13.031872	50.0	61434.0	2.606374	Y
5	STD5 310-298538/8	10.0	26.451314	50.0	61496.0	2.645131	Y
6	STD6 310-298538/9	20.0	53.408841	50.0	59067.0	2.670442	Y
7	STD7 310-298538/10	50.0	128.517484	50.0	60512.0	2.57035	Y
8	ICIS 310-298538/11	100.0	262.938482	50.0	59609.0	2.629385	Y
9	STD9 310-298538/12	150.0	399.35053	50.0	59818.0	2.662337	Y
10	STD10 310-298538/13	200.0	534.709153	50.0	58983.0	2.673546	Y
11	STD11 310-298538/14	250.0	645.59296	50.0	61935.0	2.582372	Y
12	STD12 310-298538/15	500.0	1260.764239	50.0	63488.0	2.521528	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

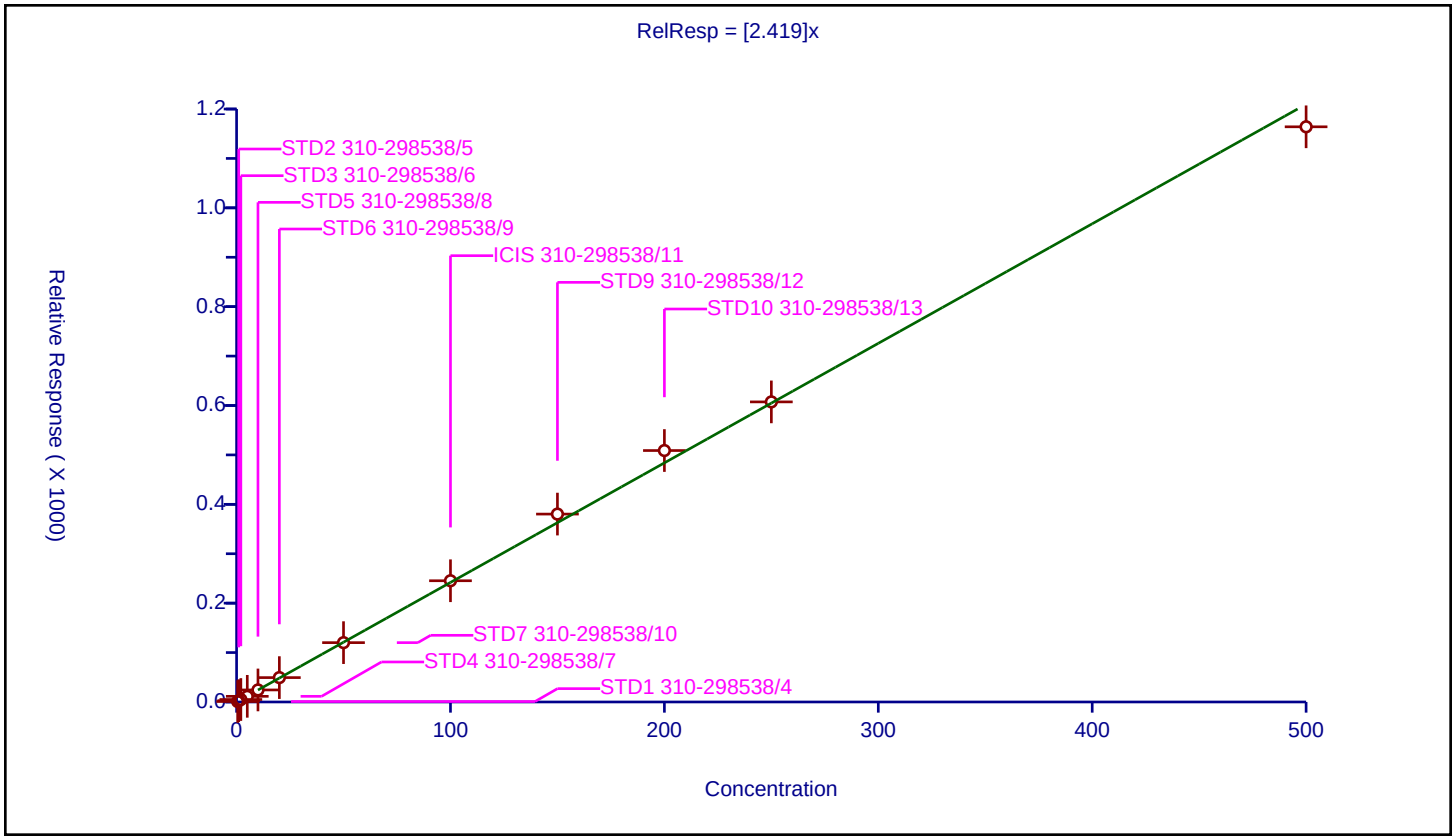
Curve Coefficients

Intercept:	0
Slope:	2.419

Error Coefficients

Standard Error:	558000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.970414	50.0	65436.0	1.940828	Y
2	STD2 310-298538/5	1.0	2.691323	50.0	66380.0	2.691323	Y
3	STD3 310-298538/6	2.0	5.018122	50.0	62354.0	2.509061	Y
4	STD4 310-298538/7	5.0	11.478986	50.0	61434.0	2.295797	Y
5	STD5 310-298538/8	10.0	24.341421	50.0	61496.0	2.434142	Y
6	STD6 310-298538/9	20.0	49.374439	50.0	59067.0	2.468722	Y
7	STD7 310-298538/10	50.0	120.094361	50.0	60512.0	2.401887	Y
8	ICIS 310-298538/11	100.0	245.343824	50.0	59609.0	2.453438	Y
9	STD9 310-298538/12	150.0	380.278511	50.0	59818.0	2.53519	Y
10	STD10 310-298538/13	200.0	508.865266	50.0	58983.0	2.544326	Y
11	STD11 310-298538/14	250.0	607.276177	50.0	61935.0	2.429105	Y
12	STD12 310-298538/15	500.0	1164.007371	50.0	63488.0	2.328015	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

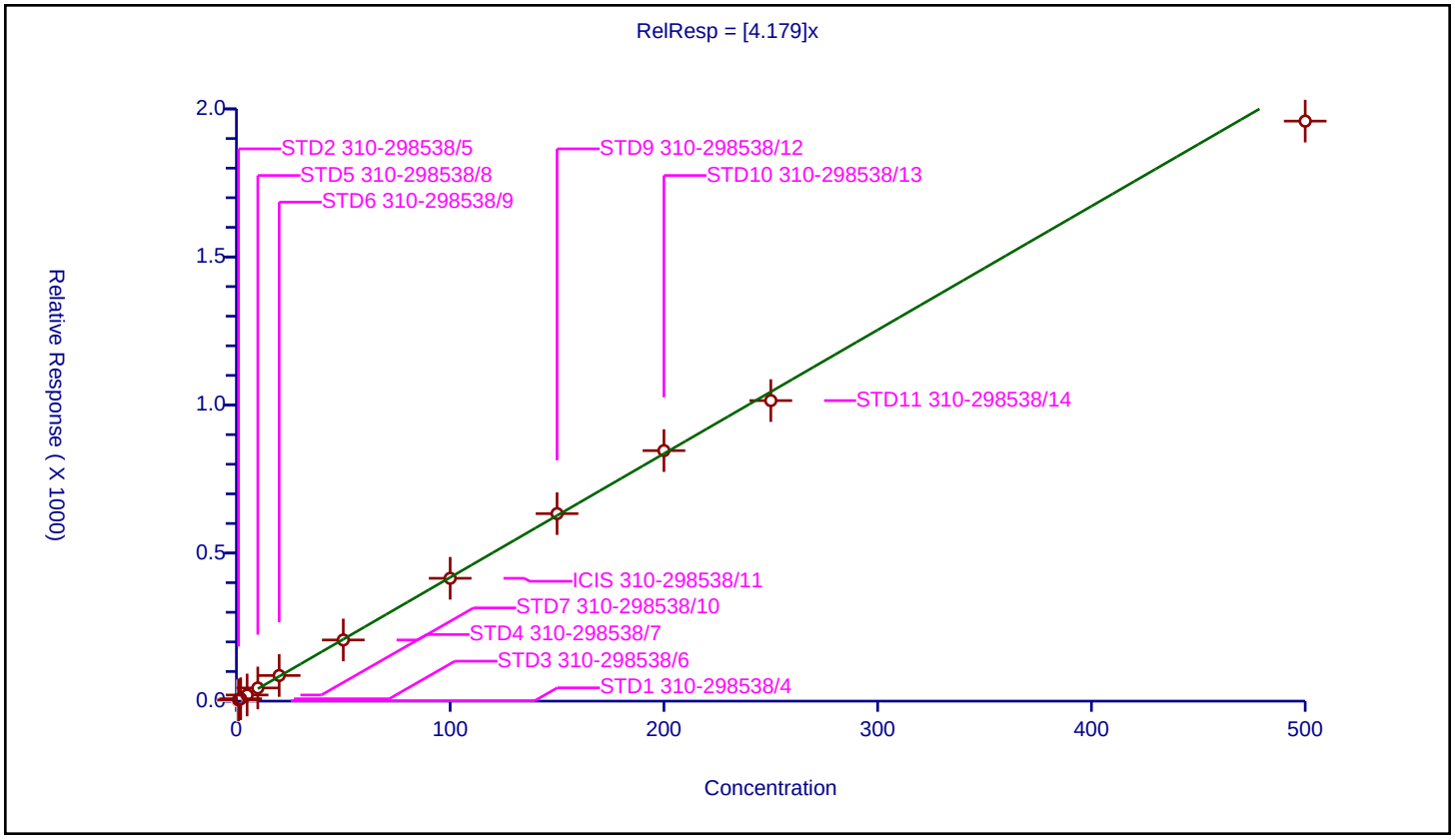
Curve Coefficients

Intercept:	0
Slope:	4.179

Error Coefficients

Standard Error:	982000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.204994	50.0	65436.0	2.409988	N
2	STD2 310-298538/5	1.0	4.331877	50.0	66380.0	4.331877	Y
3	STD3 310-298538/6	2.0	8.018732	50.0	62354.0	4.009366	Y
4	STD4 310-298538/7	5.0	20.708403	50.0	61434.0	4.141681	Y
5	STD5 310-298538/8	10.0	44.483381	50.0	61496.0	4.448338	Y
6	STD6 310-298538/9	20.0	86.535629	50.0	59067.0	4.326781	Y
7	STD7 310-298538/10	50.0	206.511932	50.0	60512.0	4.130239	Y
8	ICIS 310-298538/11	100.0	414.822426	50.0	59609.0	4.148224	Y
9	STD9 310-298538/12	150.0	633.217426	50.0	59818.0	4.22145	Y
10	STD10 310-298538/13	200.0	846.005629	50.0	58983.0	4.230028	Y
11	STD11 310-298538/14	250.0	1014.979414	50.0	61935.0	4.059918	Y
12	STD12 310-298538/15	500.0	1958.773311	50.0	63488.0	3.917547	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

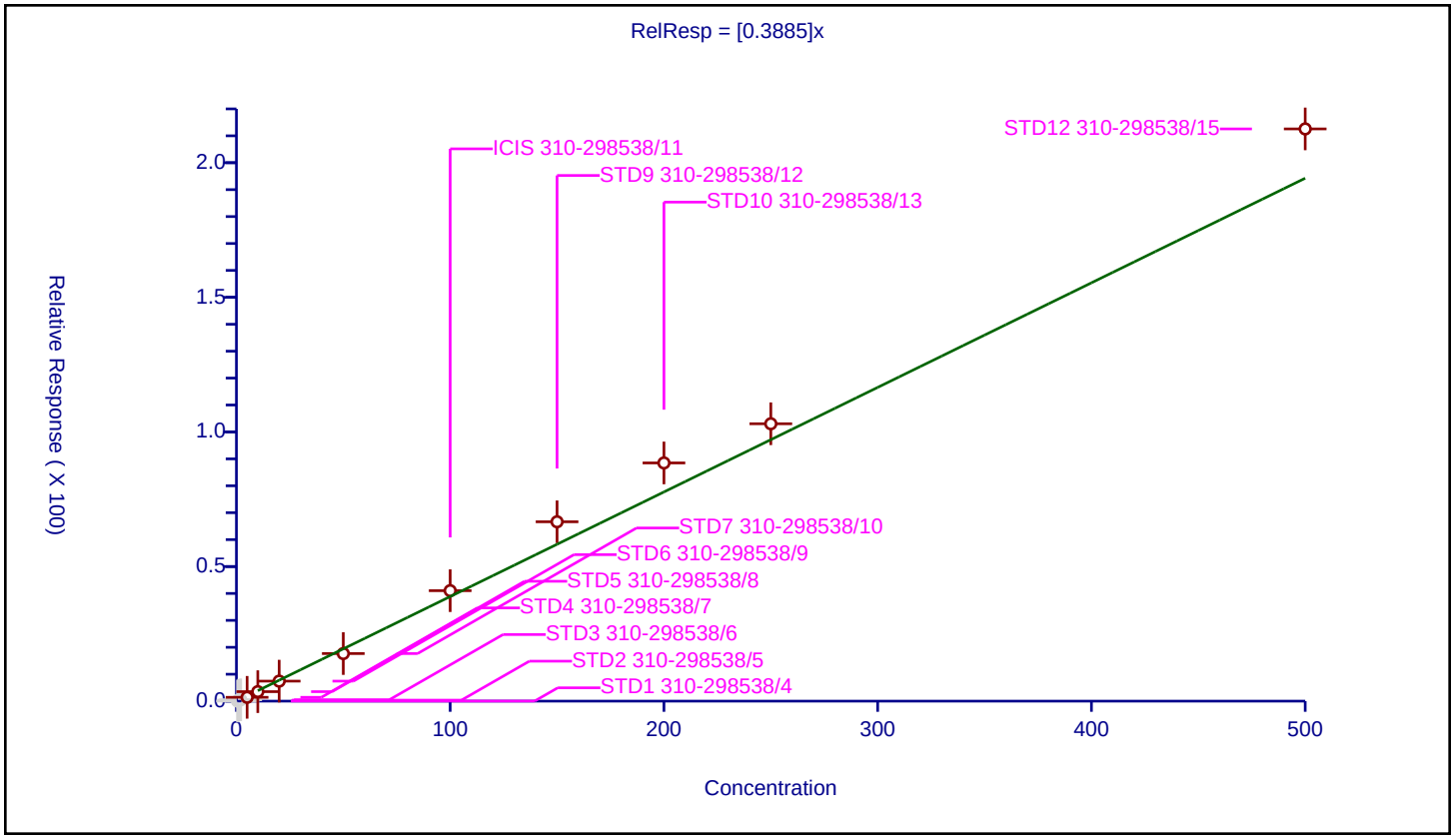
Curve Coefficients

Intercept:	0
Slope:	0.3885

Error Coefficients

Standard Error:	117000
Relative Standard Error:	13.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.037441	50.0	65436.0	0.074882	N
2	STD2 310-298538/5	1.0	0.37436	50.0	66380.0	0.37436	N
3	STD3 310-298538/6	2.0	0.496359	50.0	62354.0	0.24818	N
4	STD4 310-298538/7	5.0	1.419409	50.0	61434.0	0.283882	Y
5	STD5 310-298538/8	10.0	3.531124	50.0	61496.0	0.353112	Y
6	STD6 310-298538/9	20.0	7.433931	50.0	59067.0	0.371697	Y
7	STD7 310-298538/10	50.0	17.677485	50.0	60512.0	0.35355	Y
8	ICIS 310-298538/11	100.0	41.030717	50.0	59609.0	0.410307	Y
9	STD9 310-298538/12	150.0	66.624595	50.0	59818.0	0.444164	Y
10	STD10 310-298538/13	200.0	88.480579	50.0	58983.0	0.442403	Y
11	STD11 310-298538/14	250.0	103.037055	50.0	61935.0	0.412148	Y
12	STD12 310-298538/15	500.0	212.555129	50.0	63488.0	0.42511	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

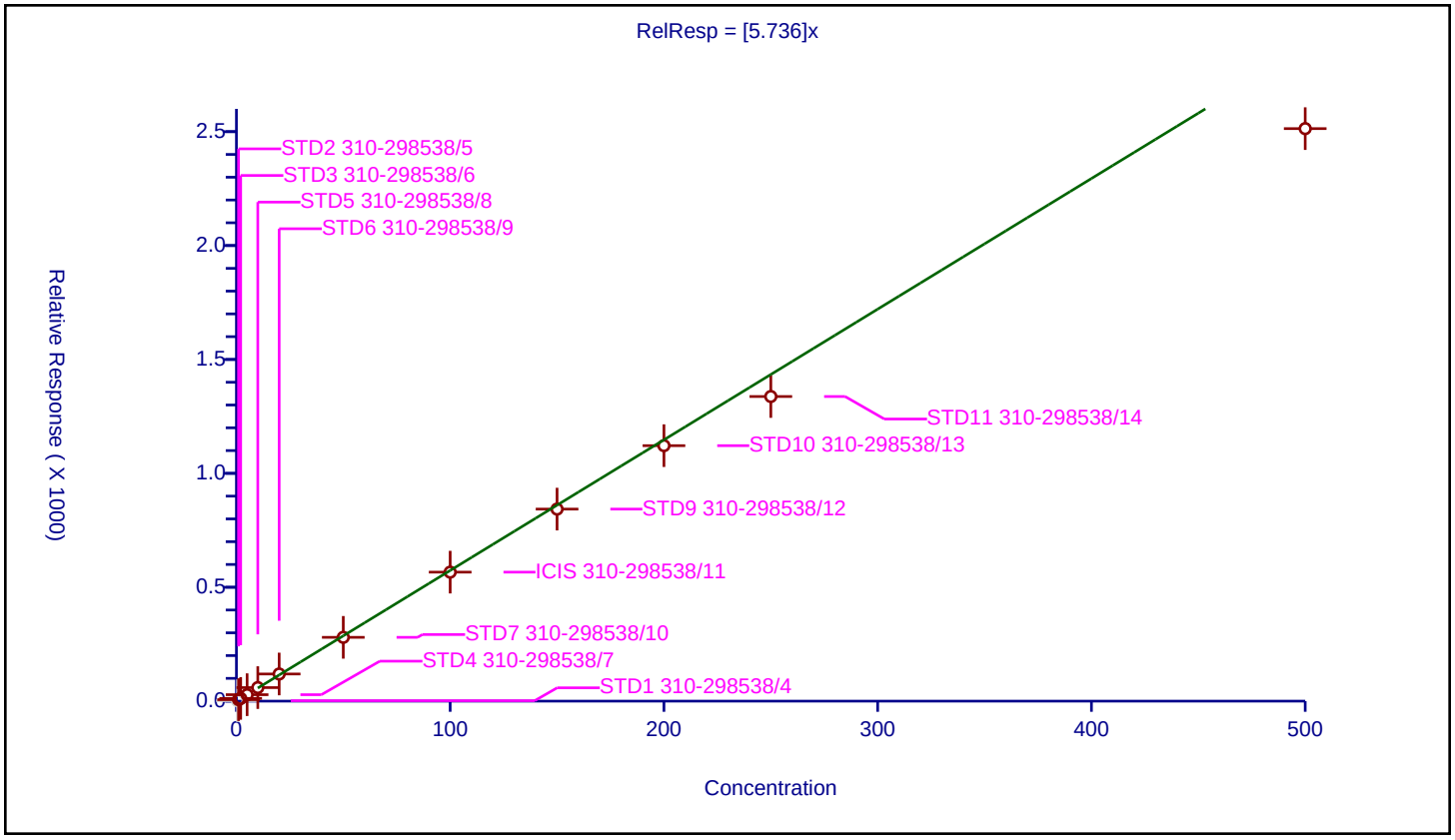
Curve Coefficients

Intercept:	0
Slope:	5.736

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.89651	50.0	65436.0	3.793019	N
2	STD2 310-298538/5	1.0	6.663905	50.0	66380.0	6.663905	Y
3	STD3 310-298538/6	2.0	11.956731	50.0	62354.0	5.978365	Y
4	STD4 310-298538/7	5.0	28.399583	50.0	61434.0	5.679917	Y
5	STD5 310-298538/8	10.0	59.407929	50.0	61496.0	5.940793	Y
6	STD6 310-298538/9	20.0	119.256099	50.0	59067.0	5.962805	Y
7	STD7 310-298538/10	50.0	280.124603	50.0	60512.0	5.602492	Y
8	ICIS 310-298538/11	100.0	566.315489	50.0	59609.0	5.663155	Y
9	STD9 310-298538/12	150.0	843.077335	50.0	59818.0	5.620516	Y
10	STD10 310-298538/13	200.0	1121.556211	50.0	58983.0	5.607781	Y
11	STD11 310-298538/14	250.0	1337.339146	50.0	61935.0	5.349357	Y
12	STD12 310-298538/15	500.0	2513.330078	50.0	63488.0	5.02666	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

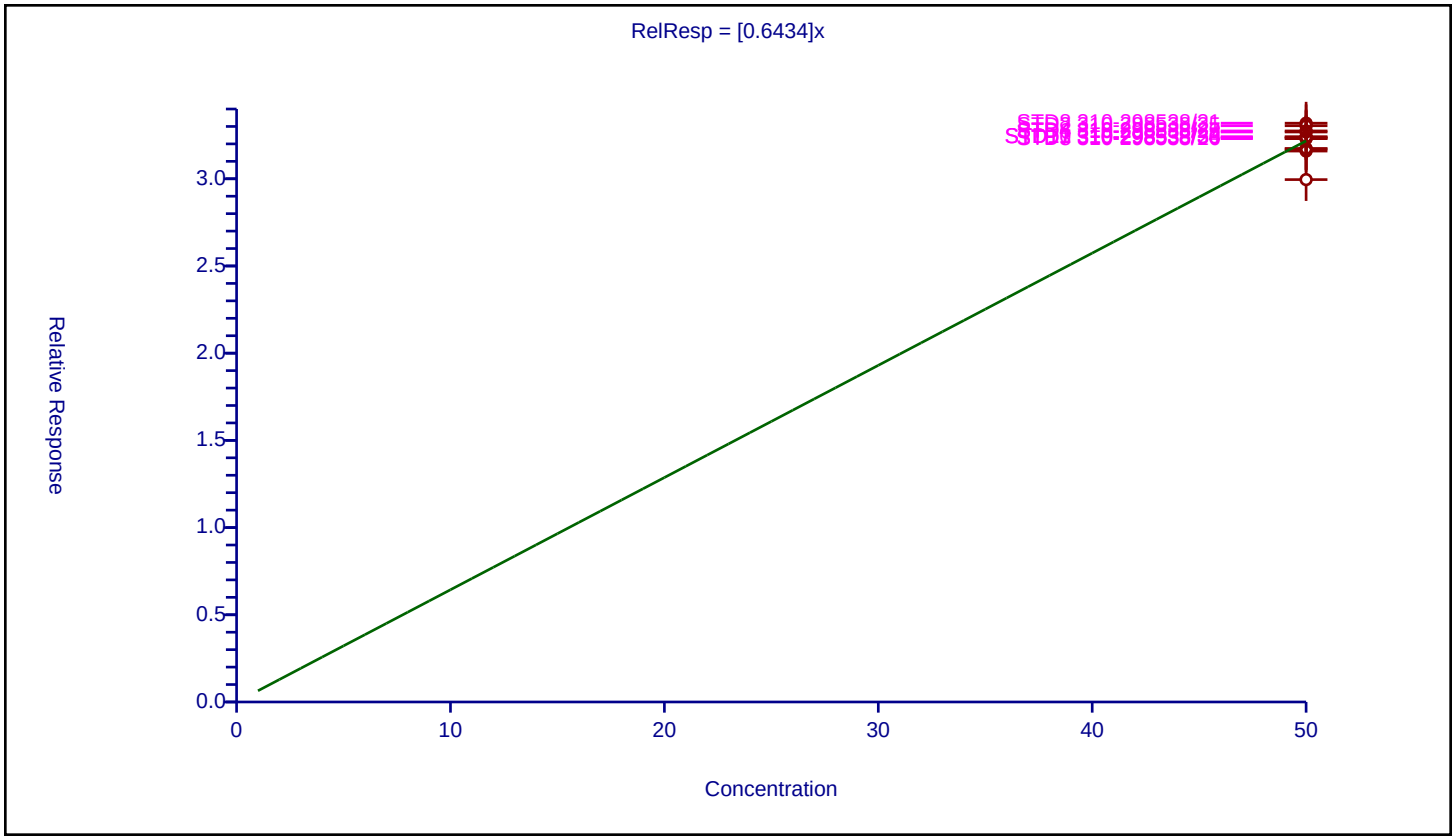
Curve Coefficients

Intercept:	0
Slope:	0.6434

Error Coefficients

Standard Error:	25400
Relative Standard Error:	2.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/24	50.0	31.588822	50.0	39973.0	0.631776	Y
2	STD2 310-298538/25	50.0	33.040724	50.0	37251.0	0.660814	Y
3	STD3 310-298538/26	50.0	32.299	50.0	38495.0	0.64598	Y
4	STD4 310-298538/27	50.0	32.743762	50.0	37711.0	0.654875	Y
5	STD5 310-298538/28	50.0	31.735429	50.0	38999.0	0.634709	Y
6	STD6 310-298538/29	50.0	32.681997	50.0	38050.0	0.65364	Y
7	STD7 310-298538/30	50.0	32.327086	50.0	37880.0	0.646542	Y
8	STD8 310-298538/31	50.0	33.188078	50.0	37979.0	0.663762	Y
9	STD9 310-298538/32	50.0	29.95269	50.0	36990.0	0.599054	Y
10	STD10 310-298538/33	50.0	32.389189	50.0	37000.0	0.647784	Y
11	STD11 310-298538/34	50.0	32.408649	50.0	36535.0	0.648173	Y
12	STD12 310-298538/35	50.0	31.70855	50.0	36610.0	0.634171	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

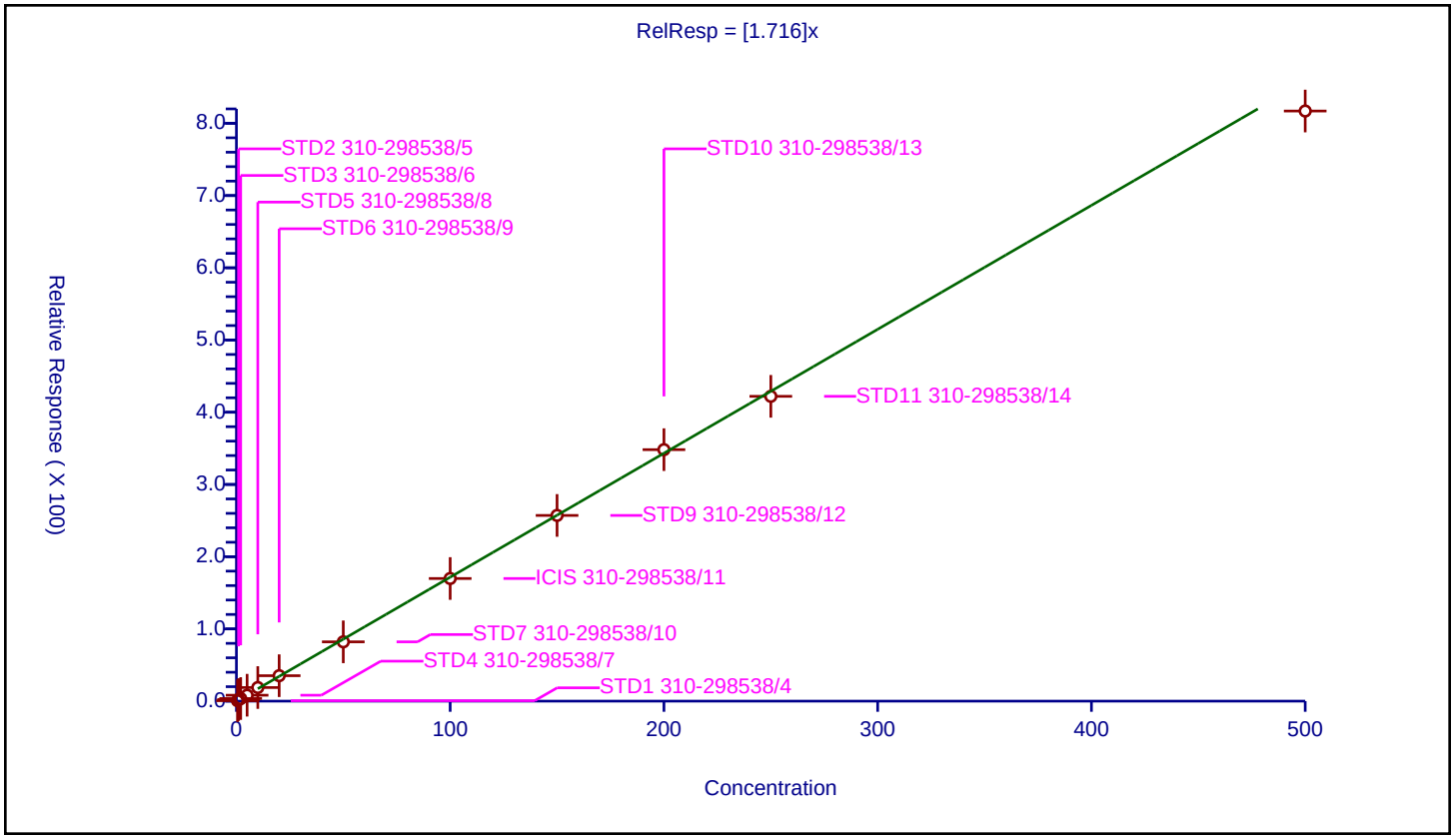
Curve Coefficients

Intercept:	0
Slope:	1.716

Error Coefficients

Standard Error:	389000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.611284	50.0	65436.0	1.222569	Y
2	STD2 310-298538/5	1.0	2.164809	50.0	66380.0	2.164809	Y
3	STD3 310-298538/6	2.0	3.612439	50.0	62354.0	1.806219	Y
4	STD4 310-298538/7	5.0	8.195787	50.0	61434.0	1.639157	Y
5	STD5 310-298538/8	10.0	18.81098	50.0	61496.0	1.881098	Y
6	STD6 310-298538/9	20.0	35.238797	50.0	59067.0	1.76194	Y
7	STD7 310-298538/10	50.0	82.095287	50.0	60512.0	1.641906	Y
8	ICIS 310-298538/11	100.0	169.811606	50.0	59609.0	1.698116	Y
9	STD9 310-298538/12	150.0	257.129961	50.0	59818.0	1.7142	Y
10	STD10 310-298538/13	200.0	348.198634	50.0	58983.0	1.740993	Y
11	STD11 310-298538/14	250.0	422.017438	50.0	61935.0	1.68807	Y
12	STD12 310-298538/15	500.0	817.063067	50.0	63488.0	1.634126	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

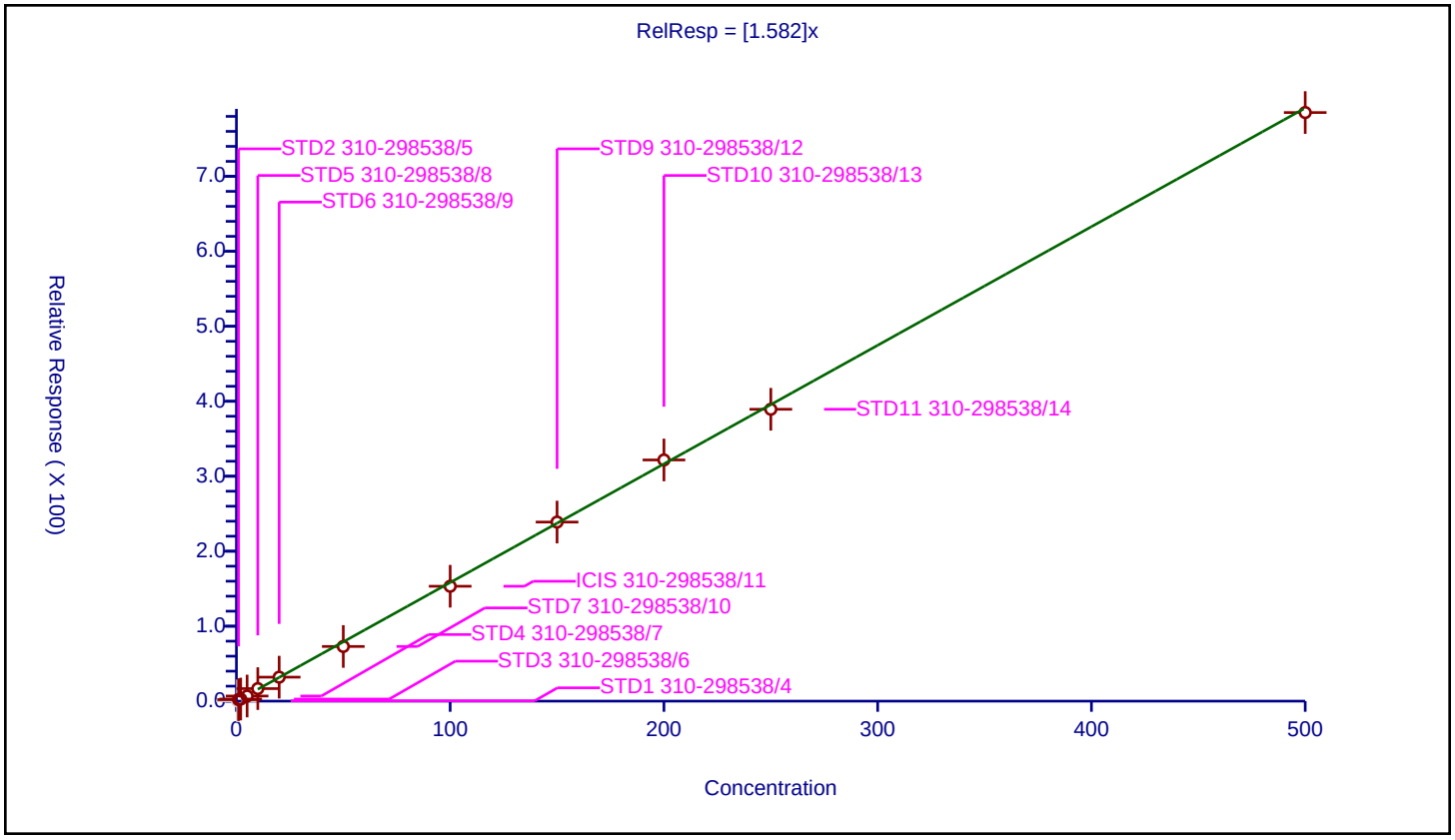
Curve Coefficients

Intercept:	0
Slope:	1.582

Error Coefficients

Standard Error:	386000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.391986	50.0	65436.0	0.783972	N
2	STD2 310-298538/5	1.0	2.054083	50.0	66380.0	2.054083	Y
3	STD3 310-298538/6	2.0	2.784906	50.0	62354.0	1.392453	Y
4	STD4 310-298538/7	5.0	6.845558	50.0	61434.0	1.369112	Y
5	STD5 310-298538/8	10.0	16.705965	50.0	61496.0	1.670596	Y
6	STD6 310-298538/9	20.0	31.980632	50.0	59067.0	1.599032	Y
7	STD7 310-298538/10	50.0	72.907853	50.0	60512.0	1.458157	Y
8	ICIS 310-298538/11	100.0	153.259575	50.0	59609.0	1.532596	Y
9	STD9 310-298538/12	150.0	238.857869	50.0	59818.0	1.592386	Y
10	STD10 310-298538/13	200.0	321.719818	50.0	58983.0	1.608599	Y
11	STD11 310-298538/14	250.0	389.325099	50.0	61935.0	1.5573	Y
12	STD12 310-298538/15	500.0	785.123173	50.0	63488.0	1.570246	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

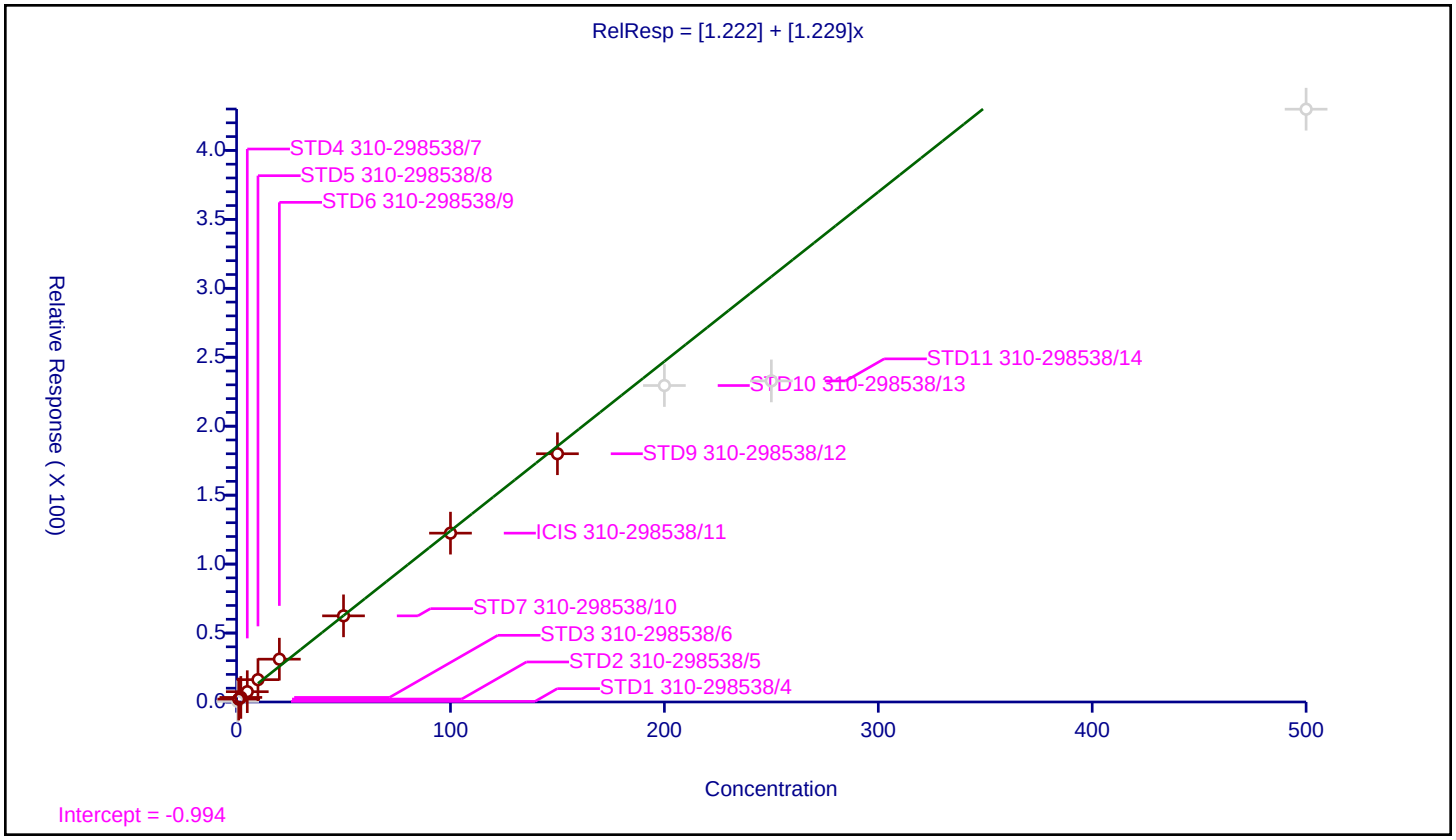
Curve Coefficients

Intercept:	1.222
Slope:	1.229

Error Coefficients

Standard Error:	112000
Relative Standard Error:	17.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.440889	50.0	65436.0	0.881778	N
2	STD2 310-298538/5	1.0	2.133926	50.0	66380.0	2.133926	Y
3	STD3 310-298538/6	2.0	3.318953	50.0	62354.0	1.659477	Y
4	STD4 310-298538/7	5.0	7.482827	50.0	61434.0	1.496565	Y
5	STD5 310-298538/8	10.0	16.196988	50.0	61496.0	1.619699	Y
6	STD6 310-298538/9	20.0	31.041021	50.0	59067.0	1.552051	Y
7	STD7 310-298538/10	50.0	62.478517	50.0	60512.0	1.24957	Y
8	ICIS 310-298538/11	100.0	122.436209	50.0	59609.0	1.224362	Y
9	STD9 310-298538/12	150.0	180.014377	50.0	59818.0	1.200096	Y
10	STD10 310-298538/13	200.0	229.496635	50.0	58983.0	1.147483	N
11	STD11 310-298538/14	250.0	232.831194	50.0	61935.0	0.931325	N
12	STD12 310-298538/15	500.0	429.860761	50.0	63488.0	0.859722	N



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

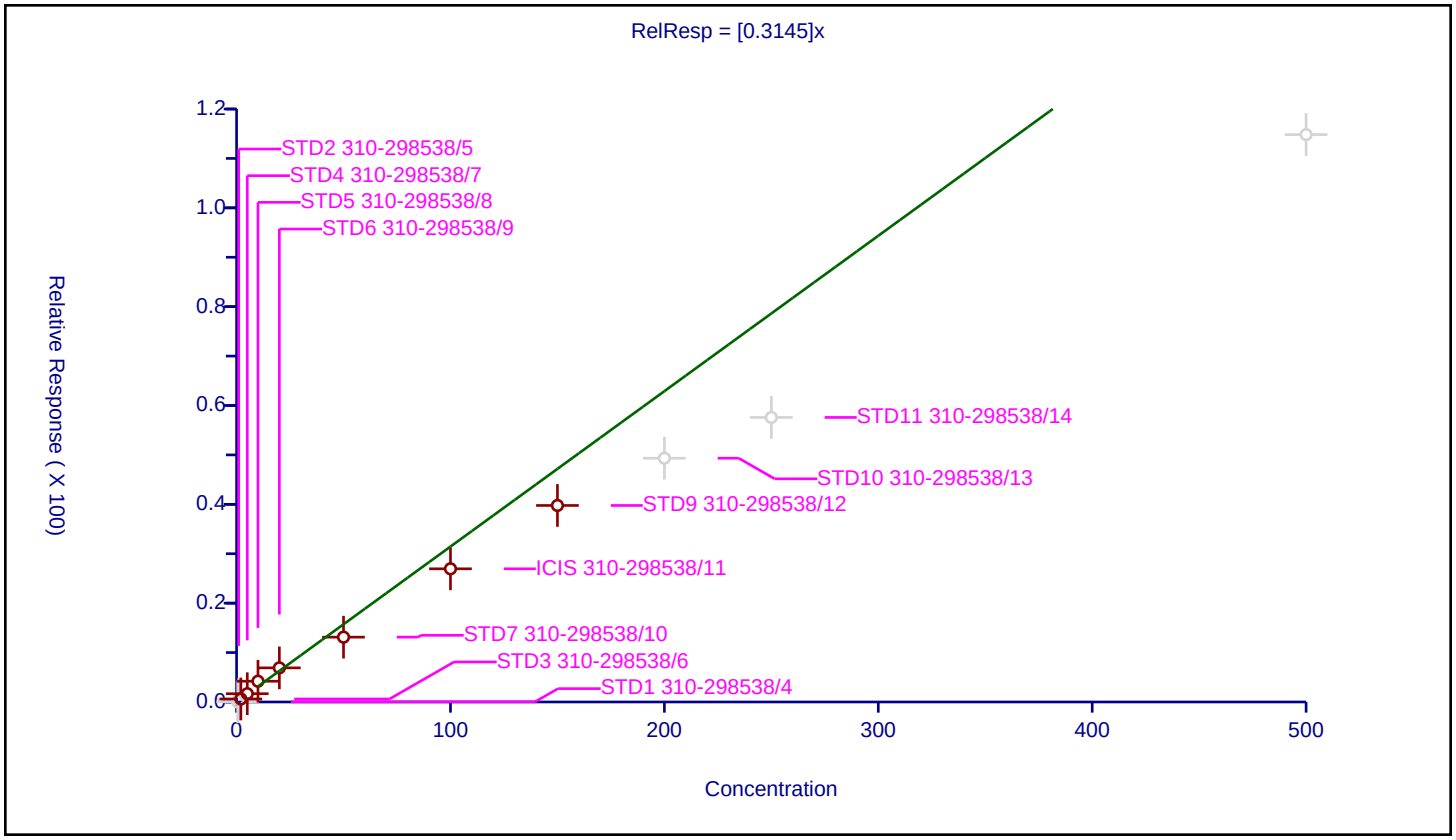
Curve Coefficients

Intercept:	0
Slope:	0.3145

Error Coefficients

Standard Error:	24600
Relative Standard Error:	18.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.955

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.037441	50.0	65436.0	0.074882	N
2	STD2 310-298538/5	1.0	0.566436	50.0	66380.0	0.566436	N
3	STD3 310-298538/6	2.0	0.609424	50.0	62354.0	0.304712	Y
4	STD4 310-298538/7	5.0	1.67334	50.0	61434.0	0.334668	Y
5	STD5 310-298538/8	10.0	4.198647	50.0	61496.0	0.419865	Y
6	STD6 310-298538/9	20.0	6.903178	50.0	59067.0	0.345159	Y
7	STD7 310-298538/10	50.0	13.123017	50.0	60512.0	0.26246	Y
8	ICIS 310-298538/11	100.0	26.950628	50.0	59609.0	0.269506	Y
9	STD9 310-298538/12	150.0	39.76813	50.0	59818.0	0.265121	Y
10	STD10 310-298538/13	200.0	49.330316	50.0	58983.0	0.246652	N
11	STD11 310-298538/14	250.0	57.586179	50.0	61935.0	0.230345	N
12	STD12 310-298538/15	500.0	114.827211	50.0	63488.0	0.229654	N



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

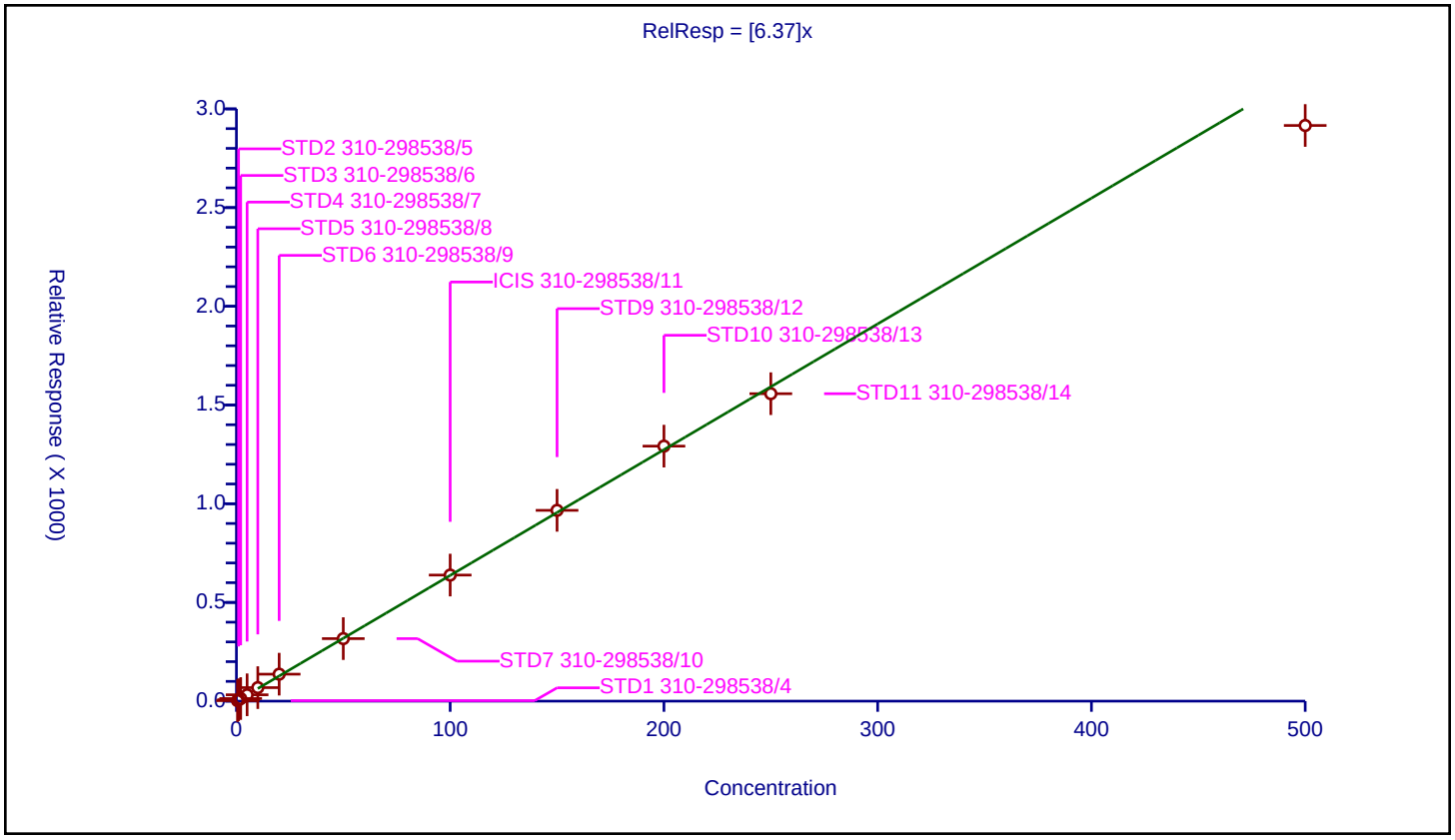
Curve Coefficients

Intercept:	0
Slope:	6.37

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	2.481814	50.0	65436.0	4.963629	Y
2	STD2 310-298538/5	1.0	7.092498	50.0	66380.0	7.092498	Y
3	STD3 310-298538/6	2.0	13.16355	50.0	62354.0	6.581775	Y
4	STD4 310-298538/7	5.0	32.222385	50.0	61434.0	6.444477	Y
5	STD5 310-298538/8	10.0	68.401197	50.0	61496.0	6.84012	Y
6	STD6 310-298538/9	20.0	136.616046	50.0	59067.0	6.830802	Y
7	STD7 310-298538/10	50.0	316.669421	50.0	60512.0	6.333388	Y
8	ICIS 310-298538/11	100.0	638.550387	50.0	59609.0	6.385504	Y
9	STD9 310-298538/12	150.0	966.479153	50.0	59818.0	6.443194	Y
10	STD10 310-298538/13	200.0	1291.691674	50.0	58983.0	6.458458	Y
11	STD11 310-298538/14	250.0	1557.368209	50.0	61935.0	6.229473	Y
12	STD12 310-298538/15	500.0	2915.888829	50.0	63488.0	5.831778	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

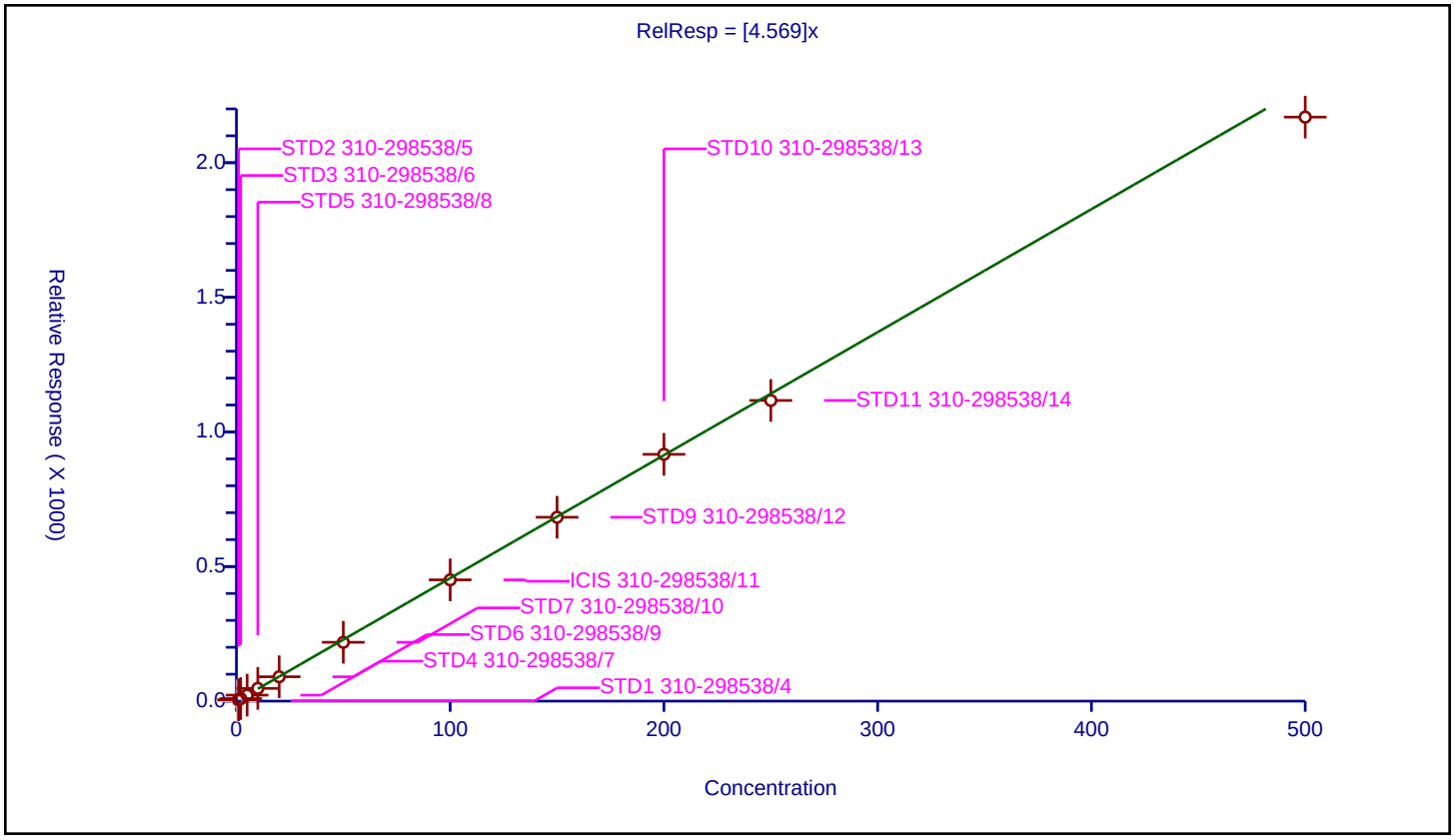
Curve Coefficients

Intercept:	0
Slope:	4.569

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.368513	50.0	65436.0	2.737025	N
2	STD2 310-298538/5	1.0	5.017324	50.0	66380.0	5.017324	Y
3	STD3 310-298538/6	2.0	9.37069	50.0	62354.0	4.685345	Y
4	STD4 310-298538/7	5.0	22.308494	50.0	61434.0	4.461699	Y
5	STD5 310-298538/8	10.0	47.390074	50.0	61496.0	4.739007	Y
6	STD6 310-298538/9	20.0	90.607276	50.0	59067.0	4.530364	Y
7	STD7 310-298538/10	50.0	218.581438	50.0	60512.0	4.371629	Y
8	ICIS 310-298538/11	100.0	450.533476	50.0	59609.0	4.505335	Y
9	STD9 310-298538/12	150.0	683.084523	50.0	59818.0	4.553897	Y
10	STD10 310-298538/13	200.0	916.820101	50.0	58983.0	4.584101	Y
11	STD11 310-298538/14	250.0	1116.932268	50.0	61935.0	4.467729	Y
12	STD12 310-298538/15	500.0	2169.520224	50.0	63488.0	4.33904	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

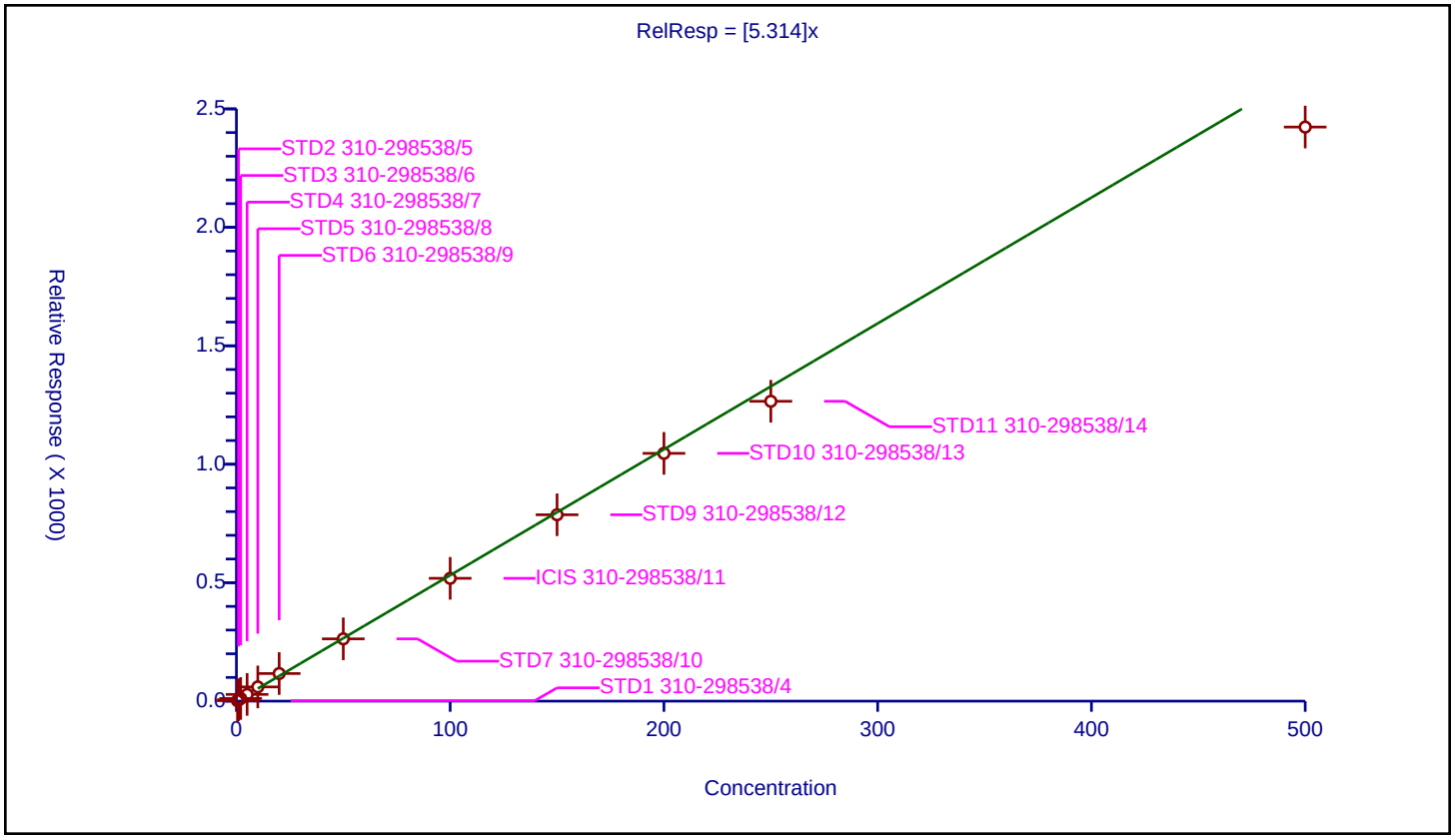
Curve Coefficients

Intercept:	0
Slope:	5.314

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	11.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.894981	50.0	65436.0	3.789963	Y
2	STD2 310-298538/5	1.0	6.065833	50.0	66380.0	6.065833	Y
3	STD3 310-298538/6	2.0	11.172499	50.0	62354.0	5.586249	Y
4	STD4 310-298538/7	5.0	28.423186	50.0	61434.0	5.684637	Y
5	STD5 310-298538/8	10.0	59.936419	50.0	61496.0	5.993642	Y
6	STD6 310-298538/9	20.0	116.524455	50.0	59067.0	5.826223	Y
7	STD7 310-298538/10	50.0	262.914794	50.0	60512.0	5.258296	Y
8	ICIS 310-298538/11	100.0	518.435974	50.0	59609.0	5.18436	Y
9	STD9 310-298538/12	150.0	786.69882	50.0	59818.0	5.244659	Y
10	STD10 310-298538/13	200.0	1045.923402	50.0	58983.0	5.229617	Y
11	STD11 310-298538/14	250.0	1265.721321	50.0	61935.0	5.062885	Y
12	STD12 310-298538/15	500.0	2423.268177	50.0	63488.0	4.846536	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

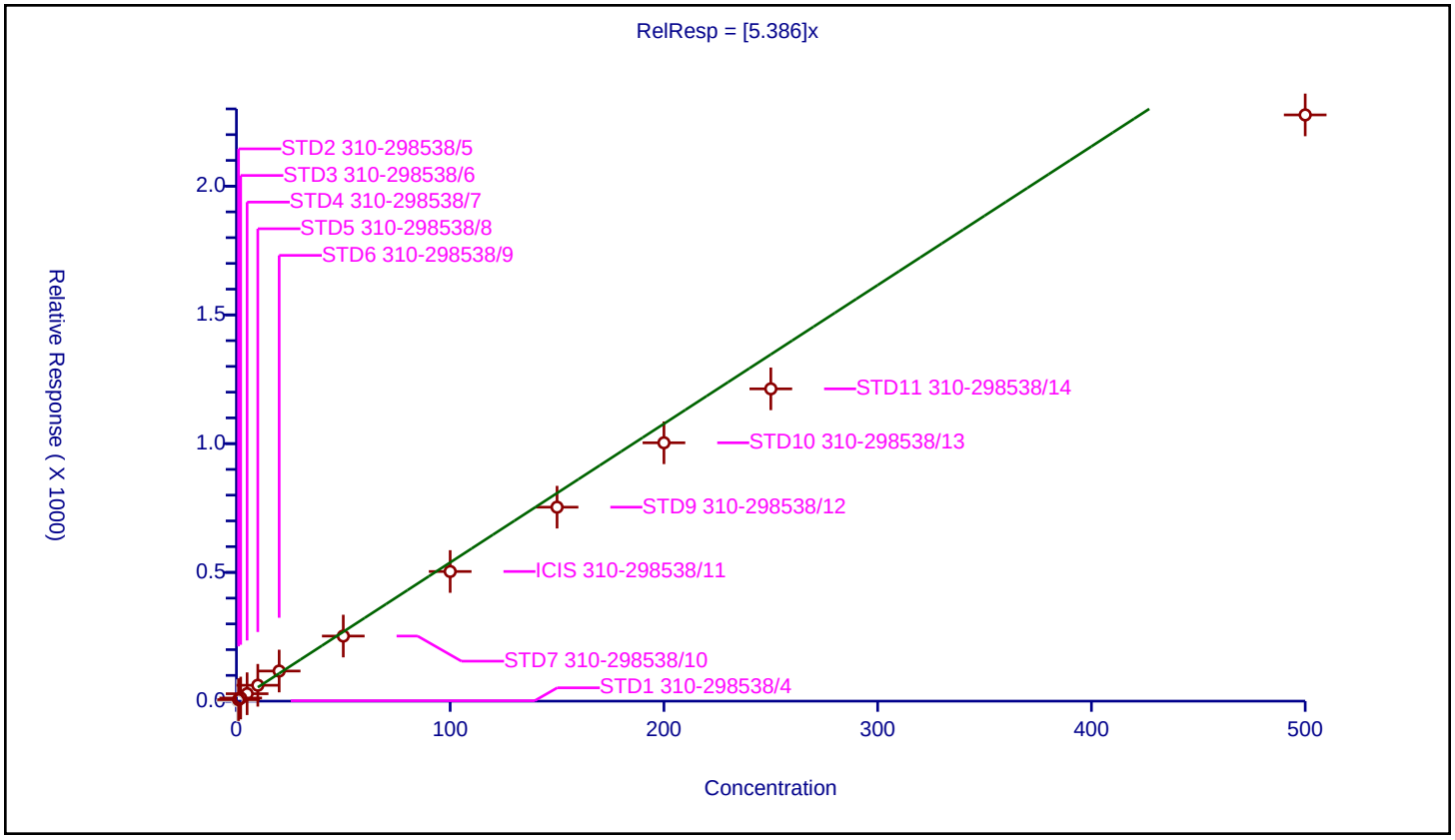
Curve Coefficients

Intercept:	0
Slope:	5.386

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.611498	50.0	65436.0	3.222997	N
2	STD2 310-298538/5	1.0	5.93251	50.0	66380.0	5.93251	Y
3	STD3 310-298538/6	2.0	12.008051	50.0	62354.0	6.004025	Y
4	STD4 310-298538/7	5.0	28.843963	50.0	61434.0	5.768793	Y
5	STD5 310-298538/8	10.0	61.593437	50.0	61496.0	6.159344	Y
6	STD6 310-298538/9	20.0	116.912997	50.0	59067.0	5.84565	Y
7	STD7 310-298538/10	50.0	252.749042	50.0	60512.0	5.054981	Y
8	ICIS 310-298538/11	100.0	503.486051	50.0	59609.0	5.034861	Y
9	STD9 310-298538/12	150.0	753.231469	50.0	59818.0	5.021543	Y
10	STD10 310-298538/13	200.0	1003.401828	50.0	58983.0	5.017009	Y
11	STD11 310-298538/14	250.0	1212.759344	50.0	61935.0	4.851037	Y
12	STD12 310-298538/15	500.0	2276.663306	50.0	63488.0	4.553327	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

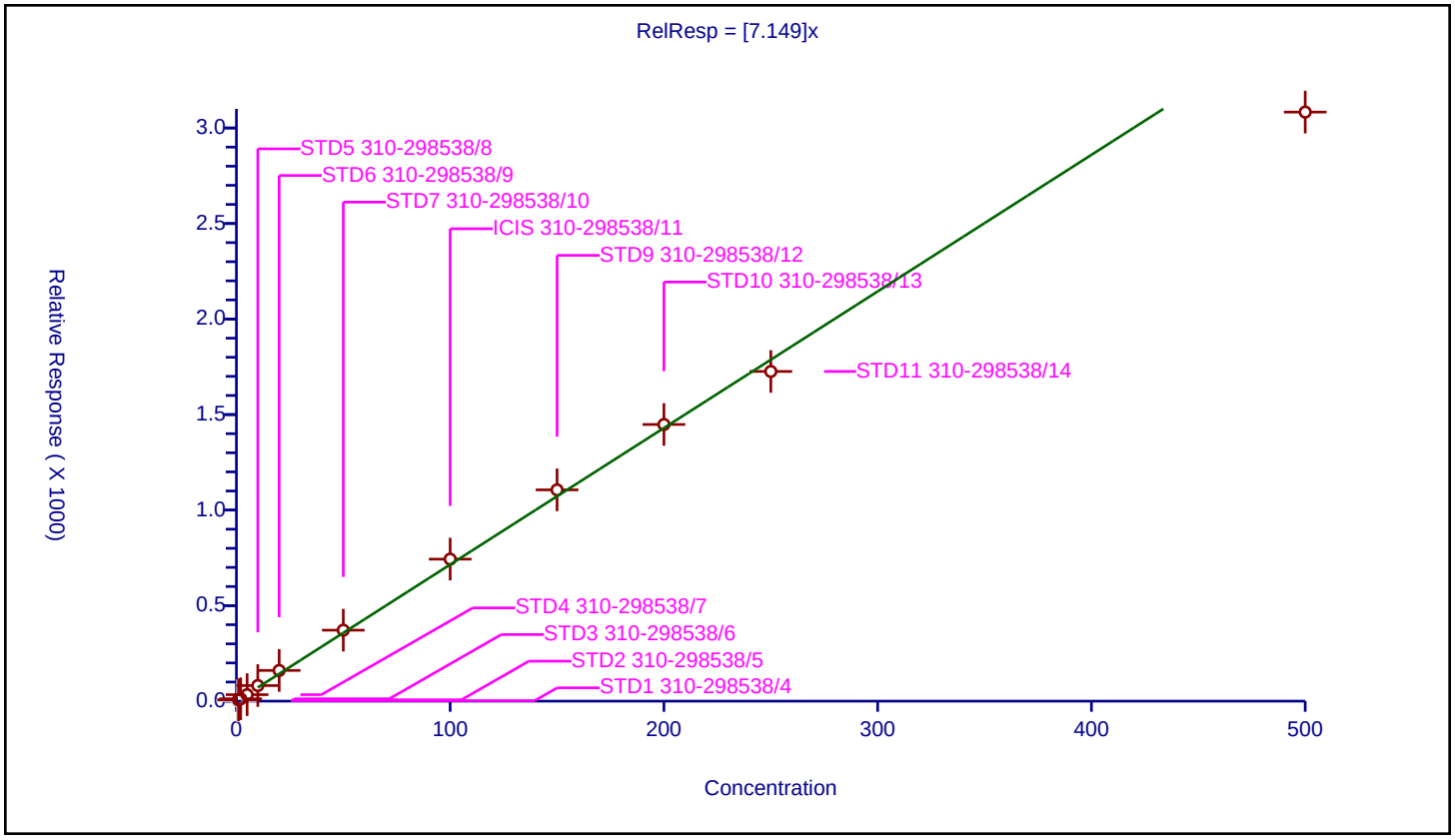
Curve Coefficients

Intercept:	0
Slope:	7.149

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	9.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	2.355737	50.0	65436.0	4.711474	N
2	STD2 310-298538/5	1.0	7.001356	50.0	66380.0	7.001356	Y
3	STD3 310-298538/6	2.0	12.304744	50.0	62354.0	6.152372	Y
4	STD4 310-298538/7	5.0	33.741902	50.0	61434.0	6.74838	Y
5	STD5 310-298538/8	10.0	81.544328	50.0	61496.0	8.154433	Y
6	STD6 310-298538/9	20.0	160.714951	50.0	59067.0	8.035748	Y
7	STD7 310-298538/10	50.0	371.451943	50.0	60512.0	7.429039	Y
8	ICIS 310-298538/11	100.0	743.325672	50.0	59609.0	7.433257	Y
9	STD9 310-298538/12	150.0	1105.870307	50.0	59818.0	7.372469	Y
10	STD10 310-298538/13	200.0	1448.097757	50.0	58983.0	7.240489	Y
11	STD11 310-298538/14	250.0	1725.726165	50.0	61935.0	6.902905	Y
12	STD12 310-298538/15	500.0	3083.332283	50.0	63488.0	6.166665	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

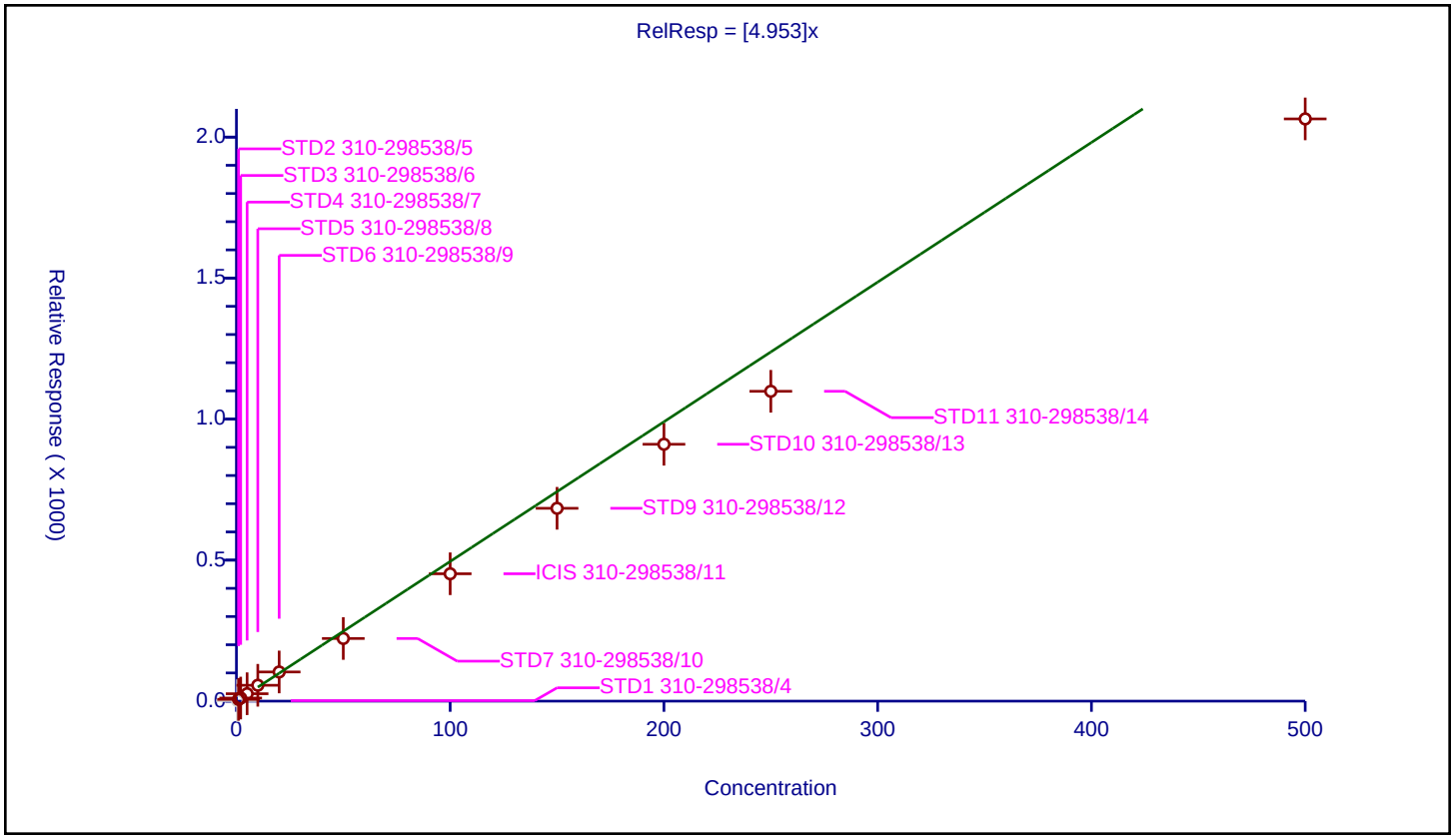
Curve Coefficients

Intercept:	0
Slope:	4.953

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	13.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.771196	50.0	65436.0	3.542393	N
2	STD2 310-298538/5	1.0	6.364869	50.0	66380.0	6.364869	Y
3	STD3 310-298538/6	2.0	10.912692	50.0	62354.0	5.456346	Y
4	STD4 310-298538/7	5.0	26.305466	50.0	61434.0	5.261093	Y
5	STD5 310-298538/8	10.0	56.254878	50.0	61496.0	5.625488	Y
6	STD6 310-298538/9	20.0	103.492644	50.0	59067.0	5.174632	Y
7	STD7 310-298538/10	50.0	222.178246	50.0	60512.0	4.443565	Y
8	ICIS 310-298538/11	100.0	451.639853	50.0	59609.0	4.516399	Y
9	STD9 310-298538/12	150.0	683.751546	50.0	59818.0	4.558344	Y
10	STD10 310-298538/13	200.0	910.842107	50.0	58983.0	4.554211	Y
11	STD11 310-298538/14	250.0	1098.630823	50.0	61935.0	4.394523	Y
12	STD12 310-298538/15	500.0	2064.491715	50.0	63488.0	4.128983	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

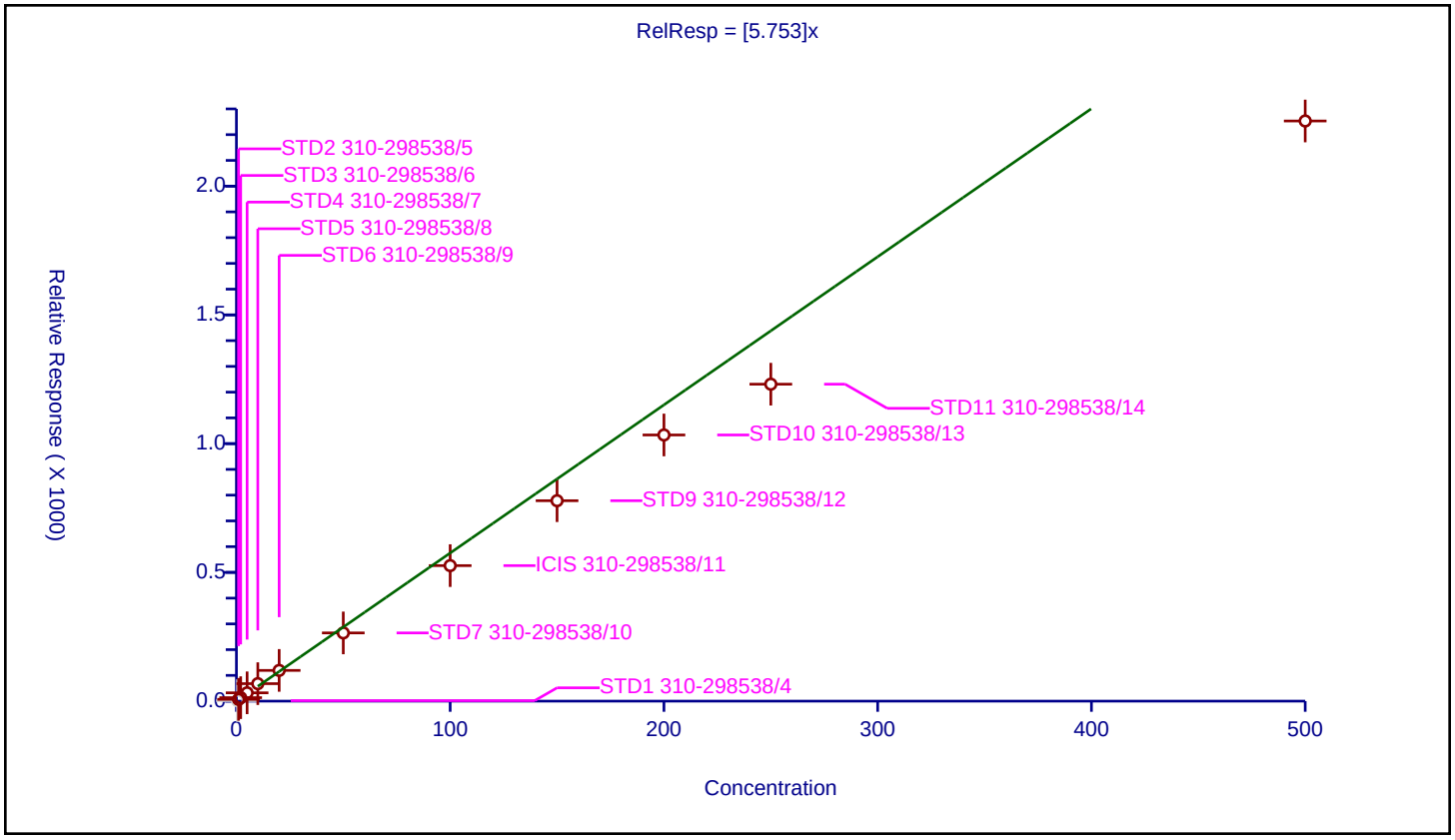
Curve Coefficients

Intercept:	0
Slope:	5.753

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	15.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.93013	50.0	65436.0	3.86026	N
2	STD2 310-298538/5	1.0	6.977252	50.0	66380.0	6.977252	Y
3	STD3 310-298538/6	2.0	13.466658	50.0	62354.0	6.733329	Y
4	STD4 310-298538/7	5.0	32.311912	50.0	61434.0	6.462382	Y
5	STD5 310-298538/8	10.0	67.885716	50.0	61496.0	6.788572	Y
6	STD6 310-298538/9	20.0	119.345828	50.0	59067.0	5.967291	Y
7	STD7 310-298538/10	50.0	264.936707	50.0	60512.0	5.298734	Y
8	ICIS 310-298538/11	100.0	526.310624	50.0	59609.0	5.263106	Y
9	STD9 310-298538/12	150.0	778.357685	50.0	59818.0	5.189051	Y
10	STD10 310-298538/13	200.0	1033.705474	50.0	58983.0	5.168527	Y
11	STD11 310-298538/14	250.0	1230.927585	50.0	61935.0	4.92371	Y
12	STD12 310-298538/15	500.0	2253.029706	50.0	63488.0	4.506059	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

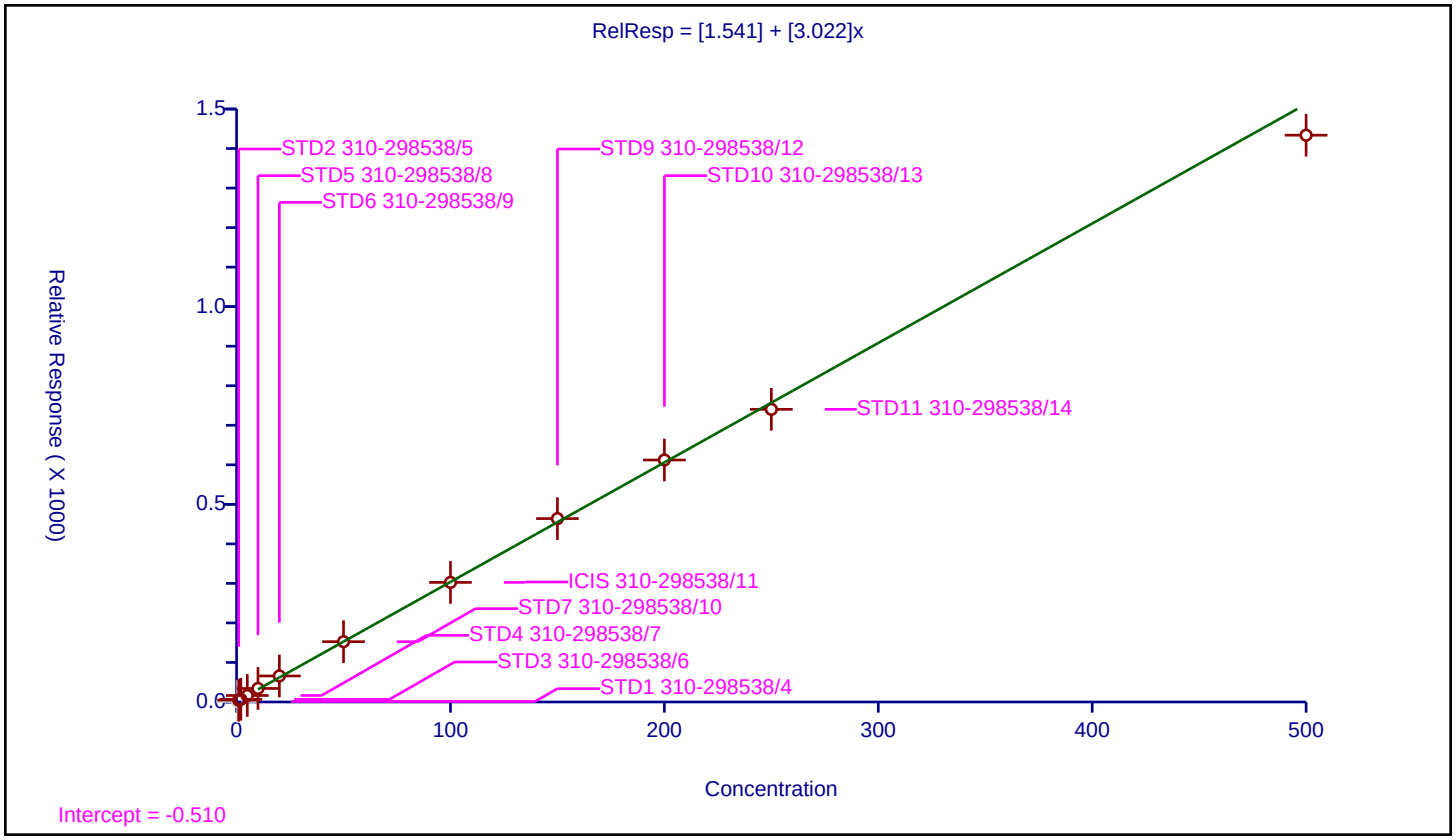
Curve Coefficients

Intercept:	1.541
Slope:	3.022

Error Coefficients

Standard Error:	756000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.254661	50.0	65436.0	2.509322	N
2	STD2 310-298538/5	1.0	4.75821	50.0	66380.0	4.75821	Y
3	STD3 310-298538/6	2.0	6.707669	50.0	62354.0	3.353835	Y
4	STD4 310-298538/7	5.0	16.397272	50.0	61434.0	3.279454	Y
5	STD5 310-298538/8	10.0	34.212794	50.0	61496.0	3.421279	Y
6	STD6 310-298538/9	20.0	65.891276	50.0	59067.0	3.294564	Y
7	STD7 310-298538/10	50.0	152.530903	50.0	60512.0	3.050618	Y
8	ICIS 310-298538/11	100.0	302.530658	50.0	59609.0	3.025307	Y
9	STD9 310-298538/12	150.0	463.942292	50.0	59818.0	3.092949	Y
10	STD10 310-298538/13	200.0	612.139091	50.0	58983.0	3.060695	Y
11	STD11 310-298538/14	250.0	740.314039	50.0	61935.0	2.961256	Y
12	STD12 310-298538/15	500.0	1433.780399	50.0	63488.0	2.867561	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

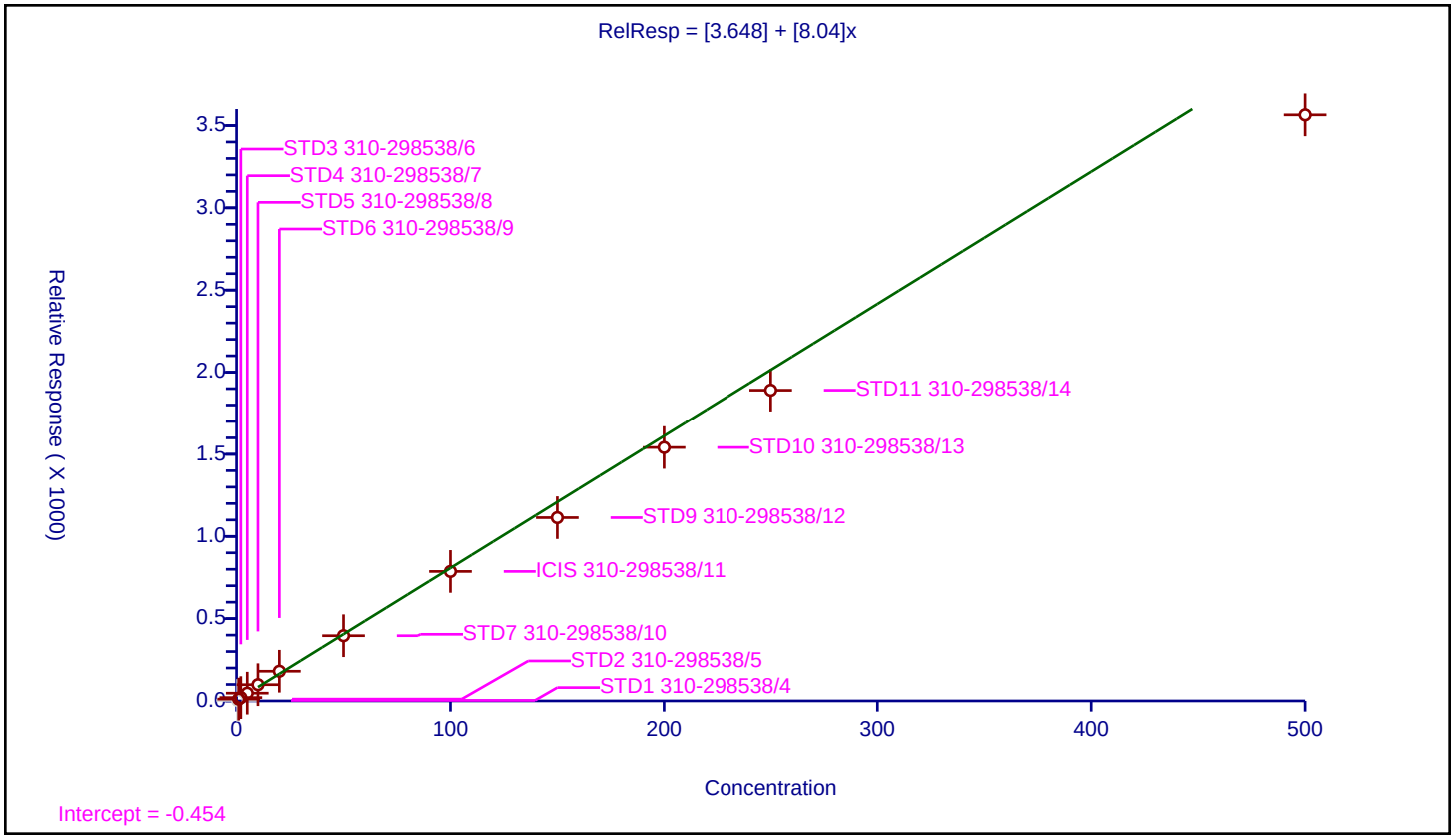
Curve Coefficients

Intercept:	3.648
Slope:	8.04

Error Coefficients

Standard Error:	851000
Relative Standard Error:	9.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	3.133907	50.0	36137.0	6.267814	N
2	STD2 310-298538/5	1.0	11.225646	50.0	37058.0	11.225646	Y
3	STD3 310-298538/6	2.0	20.356643	50.0	35750.0	10.178322	Y
4	STD4 310-298538/7	5.0	47.2128	50.0	35376.0	9.44256	Y
5	STD5 310-298538/8	10.0	98.724683	50.0	32933.0	9.872468	Y
6	STD6 310-298538/9	20.0	180.500717	50.0	30696.0	9.025036	Y
7	STD7 310-298538/10	50.0	396.28579	50.0	30141.0	7.925716	Y
8	ICIS 310-298538/11	100.0	786.9756	50.0	29057.0	7.869756	Y
9	STD9 310-298538/12	150.0	1114.295474	50.0	30006.0	7.428636	Y
10	STD10 310-298538/13	200.0	1541.29306	50.0	27926.0	7.706465	Y
11	STD11 310-298538/14	250.0	1890.533913	50.0	28544.0	7.562136	Y
12	STD12 310-298538/15	500.0	3564.787894	50.0	27722.0	7.129576	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

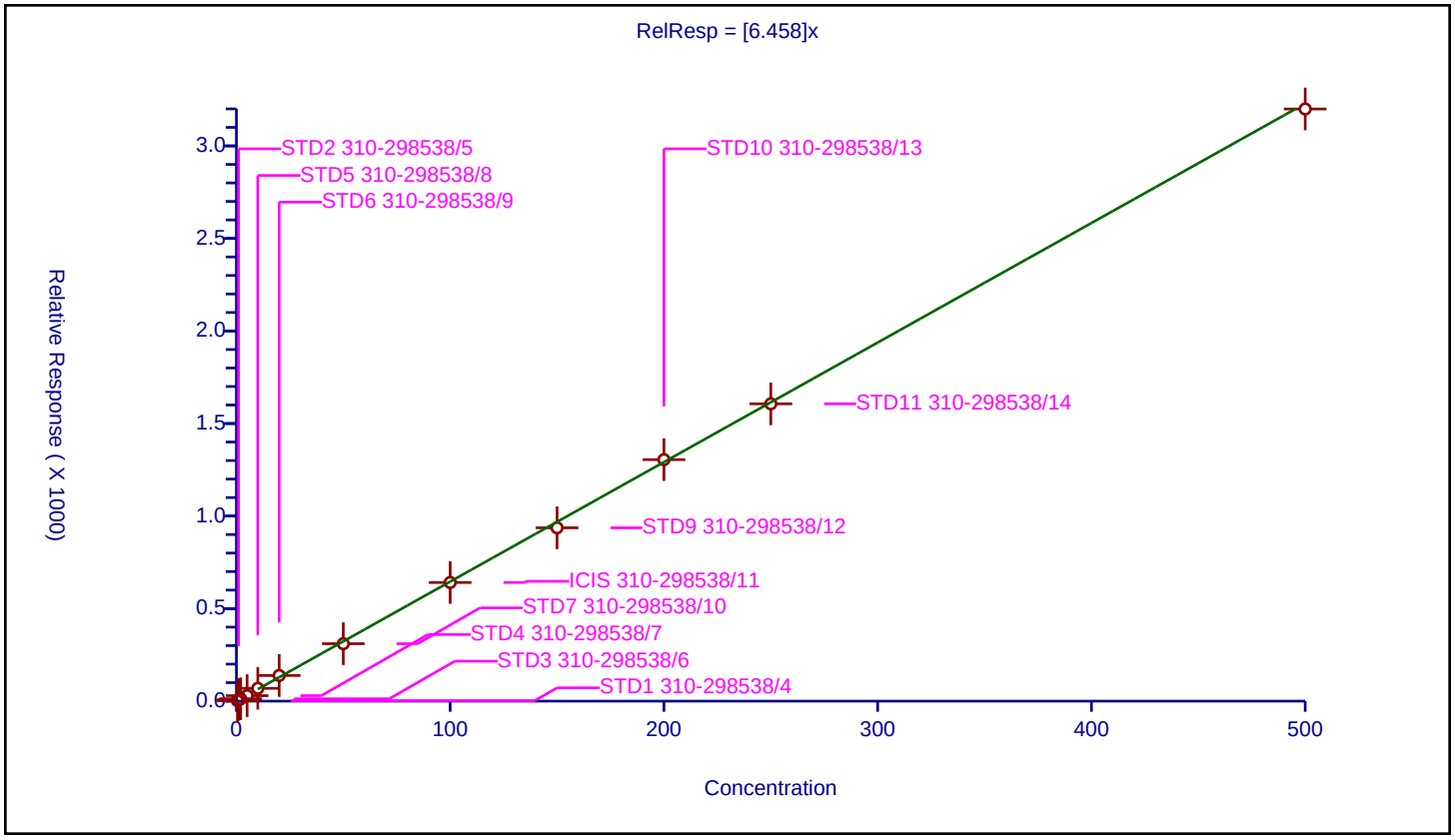
Curve Coefficients

Intercept:	0
Slope:	6.458

Error Coefficients

Standard Error:	674000
Relative Standard Error:	13.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	2.323104	50.0	36137.0	4.646207	Y
2	STD2 310-298538/5	1.0	8.517729	50.0	37058.0	8.517729	Y
3	STD3 310-298538/6	2.0	12.72028	50.0	35750.0	6.36014	Y
4	STD4 310-298538/7	5.0	29.583616	50.0	35376.0	5.916723	Y
5	STD5 310-298538/8	10.0	69.295236	50.0	32933.0	6.929524	Y
6	STD6 310-298538/9	20.0	138.467553	50.0	30696.0	6.923378	Y
7	STD7 310-298538/10	50.0	310.291629	50.0	30141.0	6.205833	Y
8	ICIS 310-298538/11	100.0	641.002168	50.0	29057.0	6.410022	Y
9	STD9 310-298538/12	150.0	936.467706	50.0	30006.0	6.243118	Y
10	STD10 310-298538/13	200.0	1304.741101	50.0	27926.0	6.523706	Y
11	STD11 310-298538/14	250.0	1606.414658	50.0	28544.0	6.425659	Y
12	STD12 310-298538/15	500.0	3199.359714	50.0	27722.0	6.398719	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

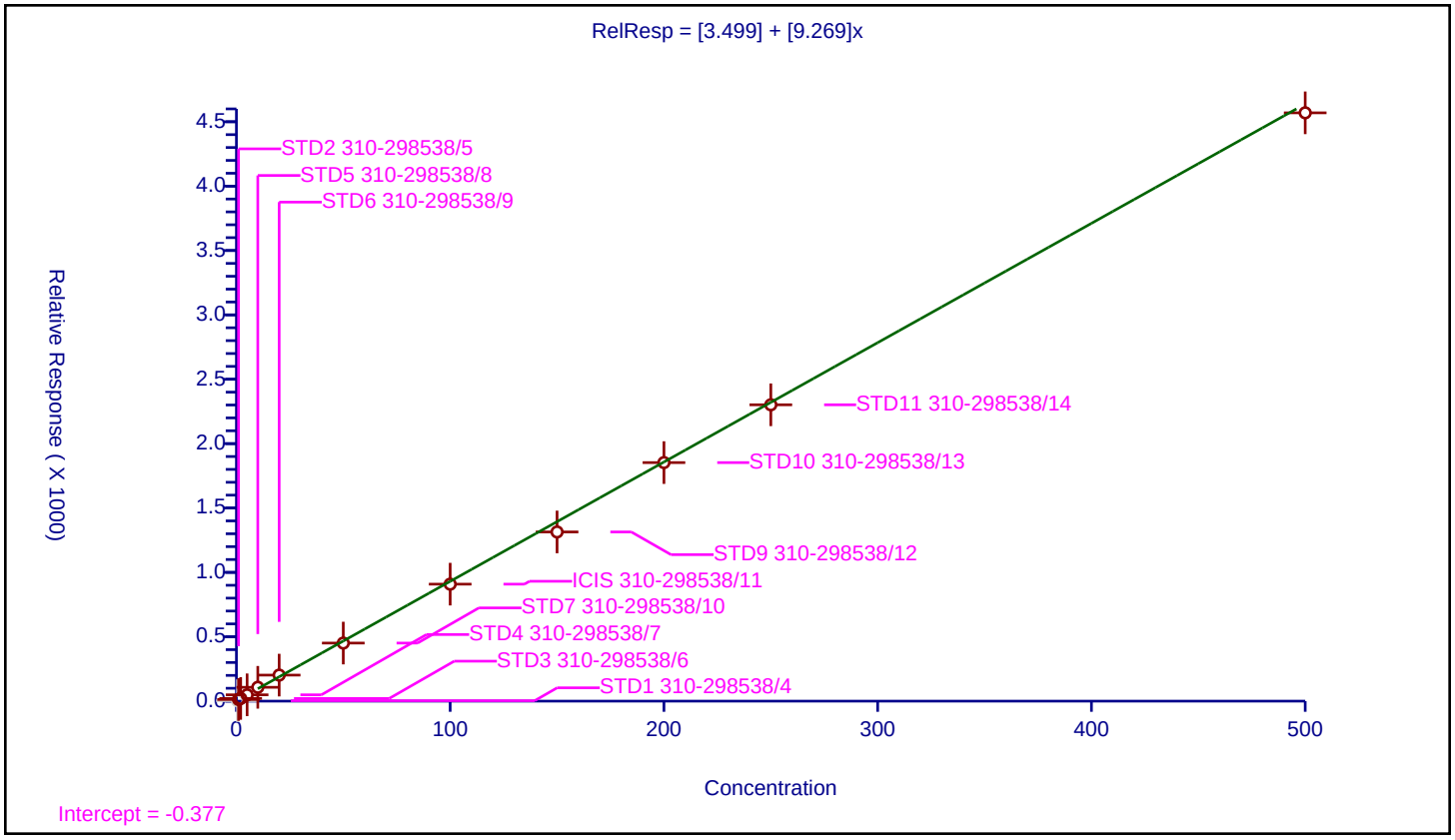
Curve Coefficients

Intercept:	3.499
Slope:	9.269

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	3.46736	50.0	36137.0	6.934721	N
2	STD2 310-298538/5	1.0	12.901398	50.0	37058.0	12.901398	Y
3	STD3 310-298538/6	2.0	21.096503	50.0	35750.0	10.548252	Y
4	STD4 310-298538/7	5.0	49.067164	50.0	35376.0	9.813433	Y
5	STD5 310-298538/8	10.0	107.437828	50.0	32933.0	10.743783	Y
6	STD6 310-298538/9	20.0	202.236448	50.0	30696.0	10.111822	Y
7	STD7 310-298538/10	50.0	451.172821	50.0	30141.0	9.023456	Y
8	ICIS 310-298538/11	100.0	908.727673	50.0	29057.0	9.087277	Y
9	STD9 310-298538/12	150.0	1314.218823	50.0	30006.0	8.761459	Y
10	STD10 310-298538/13	200.0	1852.904104	50.0	27926.0	9.264521	Y
11	STD11 310-298538/14	250.0	2301.732413	50.0	28544.0	9.20693	Y
12	STD12 310-298538/15	500.0	4569.4719	50.0	27722.0	9.138944	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

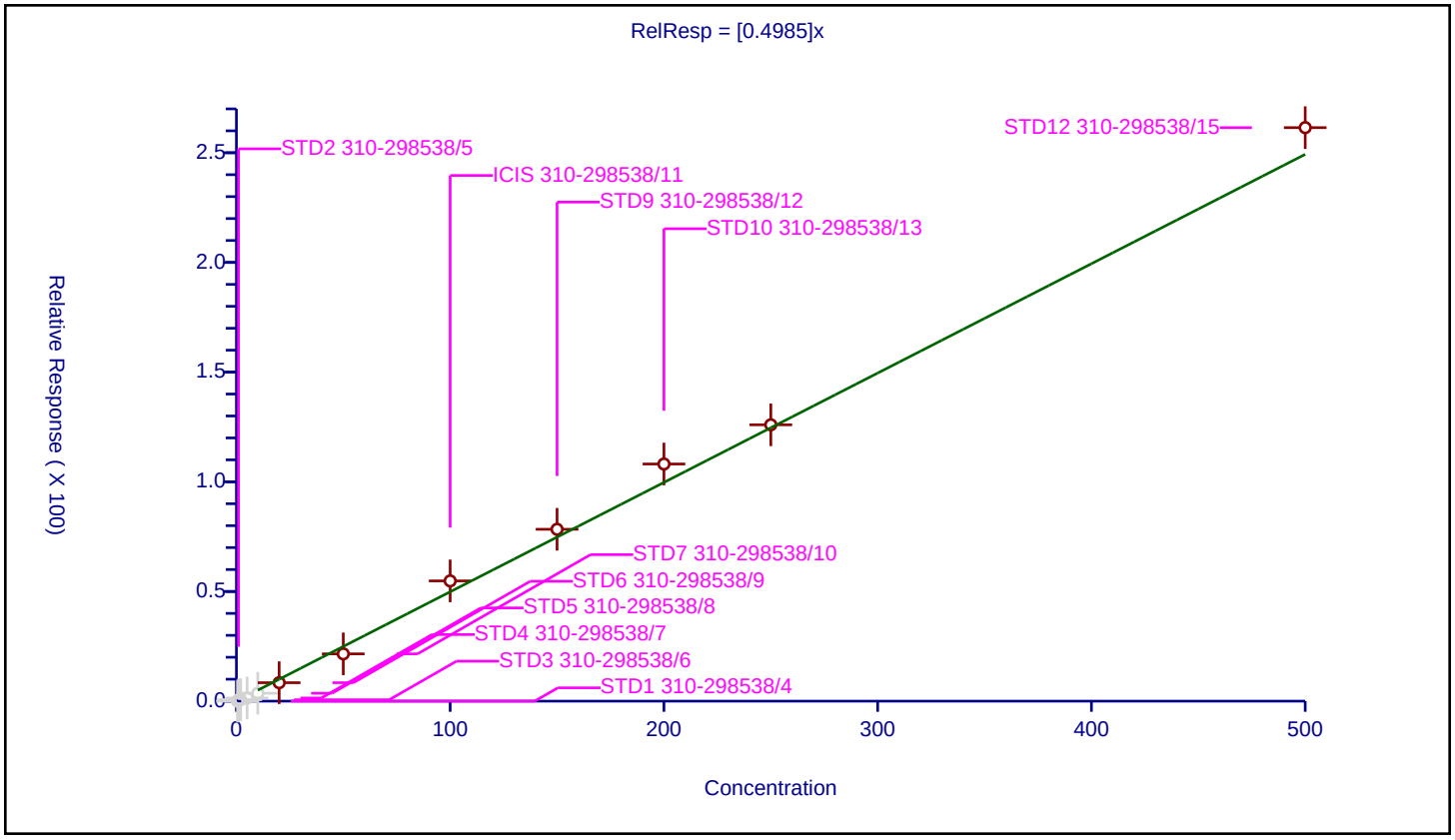
Curve Coefficients

Intercept:	0
Slope:	0.4985

Error Coefficients

Standard Error:	74300
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.0	50.0	36137.0	0.0	N
2	STD2 310-298538/5	1.0	0.538345	50.0	37058.0	0.538345	N
3	STD3 310-298538/6	2.0	0.640559	50.0	35750.0	0.32028	N
4	STD4 310-298538/7	5.0	1.437415	50.0	35376.0	0.287483	N
5	STD5 310-298538/8	10.0	3.599733	50.0	32933.0	0.359973	N
6	STD6 310-298538/9	20.0	8.413148	50.0	30696.0	0.420657	Y
7	STD7 310-298538/10	50.0	21.563651	50.0	30141.0	0.431273	Y
8	ICIS 310-298538/11	100.0	54.819837	50.0	29057.0	0.548198	Y
9	STD9 310-298538/12	150.0	78.345997	50.0	30006.0	0.522307	Y
10	STD10 310-298538/13	200.0	108.112512	50.0	27926.0	0.540563	Y
11	STD11 310-298538/14	250.0	125.982693	50.0	28544.0	0.503931	Y
12	STD12 310-298538/15	500.0	261.456605	50.0	27722.0	0.522913	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

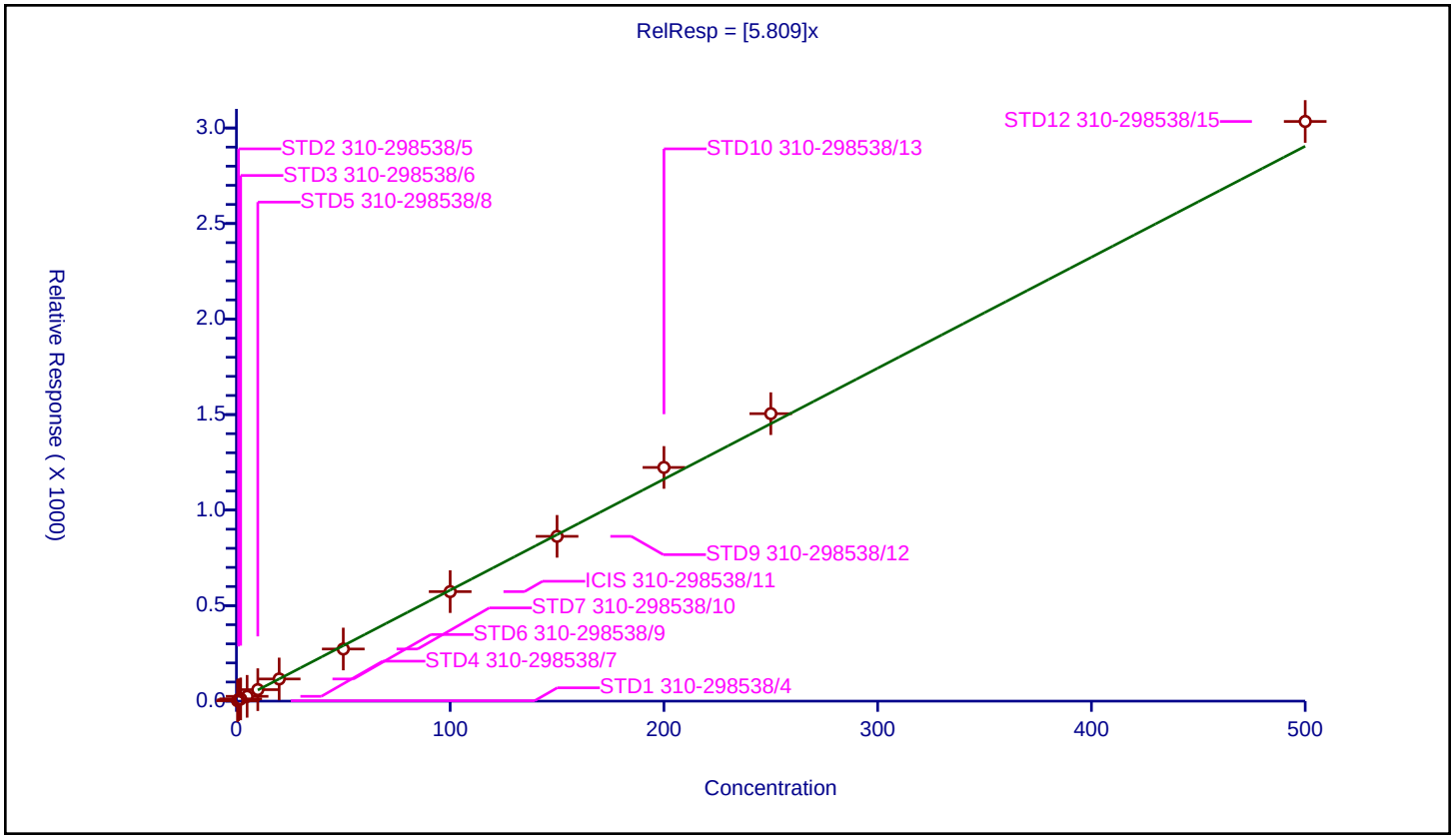
Curve Coefficients

Intercept:	0
Slope:	5.809

Error Coefficients

Standard Error:	635000
Relative Standard Error:	12.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	2.165371	50.0	36137.0	4.330741	Y
2	STD2 310-298538/5	1.0	7.495008	50.0	37058.0	7.495008	Y
3	STD3 310-298538/6	2.0	11.772028	50.0	35750.0	5.886014	Y
4	STD4 310-298538/7	5.0	25.223315	50.0	35376.0	5.044663	Y
5	STD5 310-298538/8	10.0	60.087147	50.0	32933.0	6.008715	Y
6	STD6 310-298538/9	20.0	116.093302	50.0	30696.0	5.804665	Y
7	STD7 310-298538/10	50.0	272.938854	50.0	30141.0	5.458777	Y
8	ICIS 310-298538/11	100.0	573.125237	50.0	29057.0	5.731252	Y
9	STD9 310-298538/12	150.0	862.532494	50.0	30006.0	5.750217	Y
10	STD10 310-298538/13	200.0	1223.243572	50.0	27926.0	6.116218	Y
11	STD11 310-298538/14	250.0	1504.775084	50.0	28544.0	6.0191	Y
12	STD12 310-298538/15	500.0	3034.236347	50.0	27722.0	6.068473	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

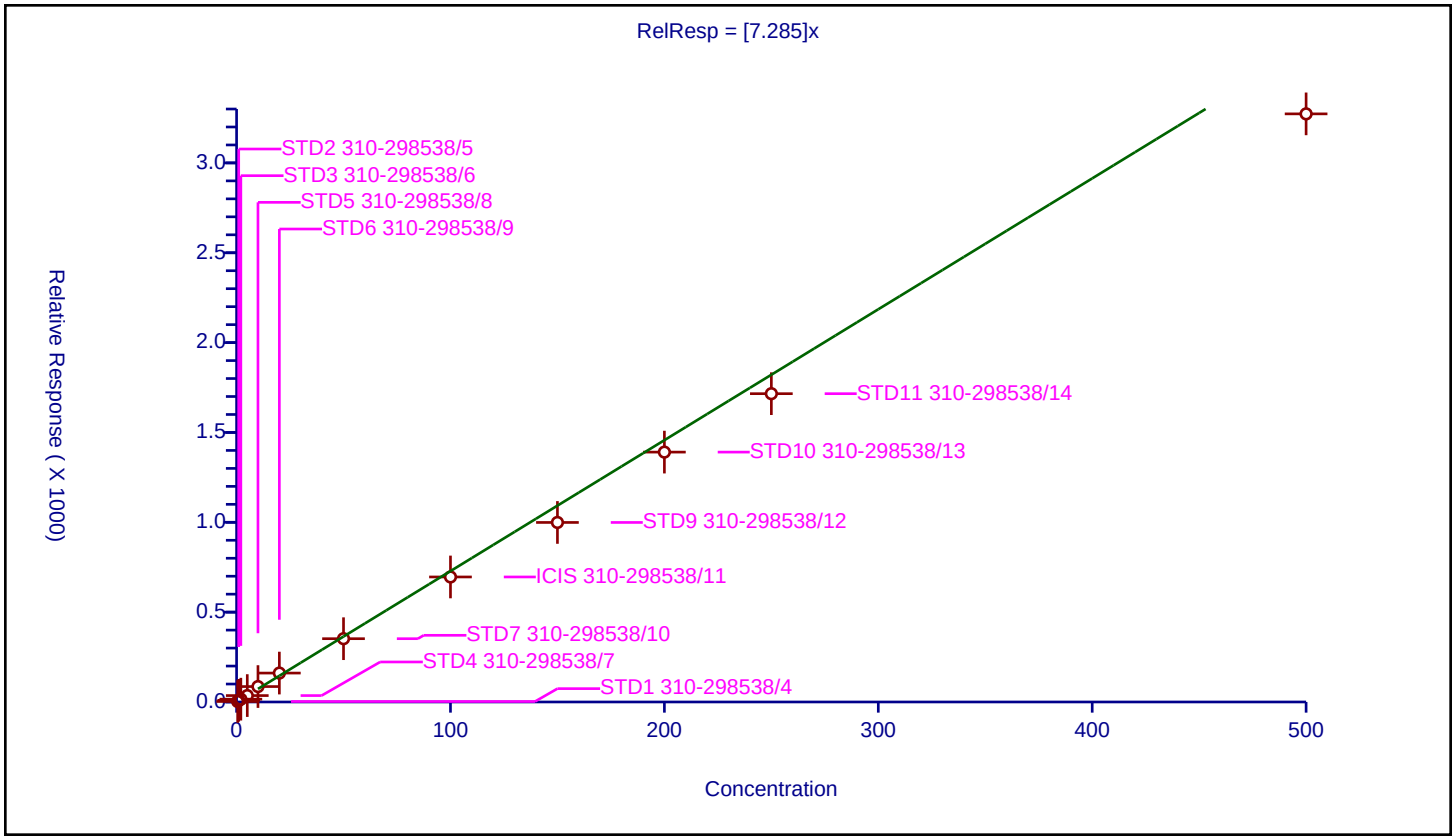
Curve Coefficients

Intercept:	0
Slope:	7.285

Error Coefficients

Standard Error:	702000
Relative Standard Error:	13.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	2.761712	50.0	36137.0	5.523425	Y
2	STD2 310-298538/5	1.0	9.236872	50.0	37058.0	9.236872	Y
3	STD3 310-298538/6	2.0	15.713287	50.0	35750.0	7.856643	Y
4	STD4 310-298538/7	5.0	35.67673	50.0	35376.0	7.135346	Y
5	STD5 310-298538/8	10.0	85.906234	50.0	32933.0	8.590623	Y
6	STD6 310-298538/9	20.0	160.937907	50.0	30696.0	8.046895	Y
7	STD7 310-298538/10	50.0	352.302512	50.0	30141.0	7.04605	Y
8	ICIS 310-298538/11	100.0	695.751454	50.0	29057.0	6.957515	Y
9	STD9 310-298538/12	150.0	999.163501	50.0	30006.0	6.66109	Y
10	STD10 310-298538/13	200.0	1390.603738	50.0	27926.0	6.953019	Y
11	STD11 310-298538/14	250.0	1715.810678	50.0	28544.0	6.863243	Y
12	STD12 310-298538/15	500.0	3273.014213	50.0	27722.0	6.546028	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

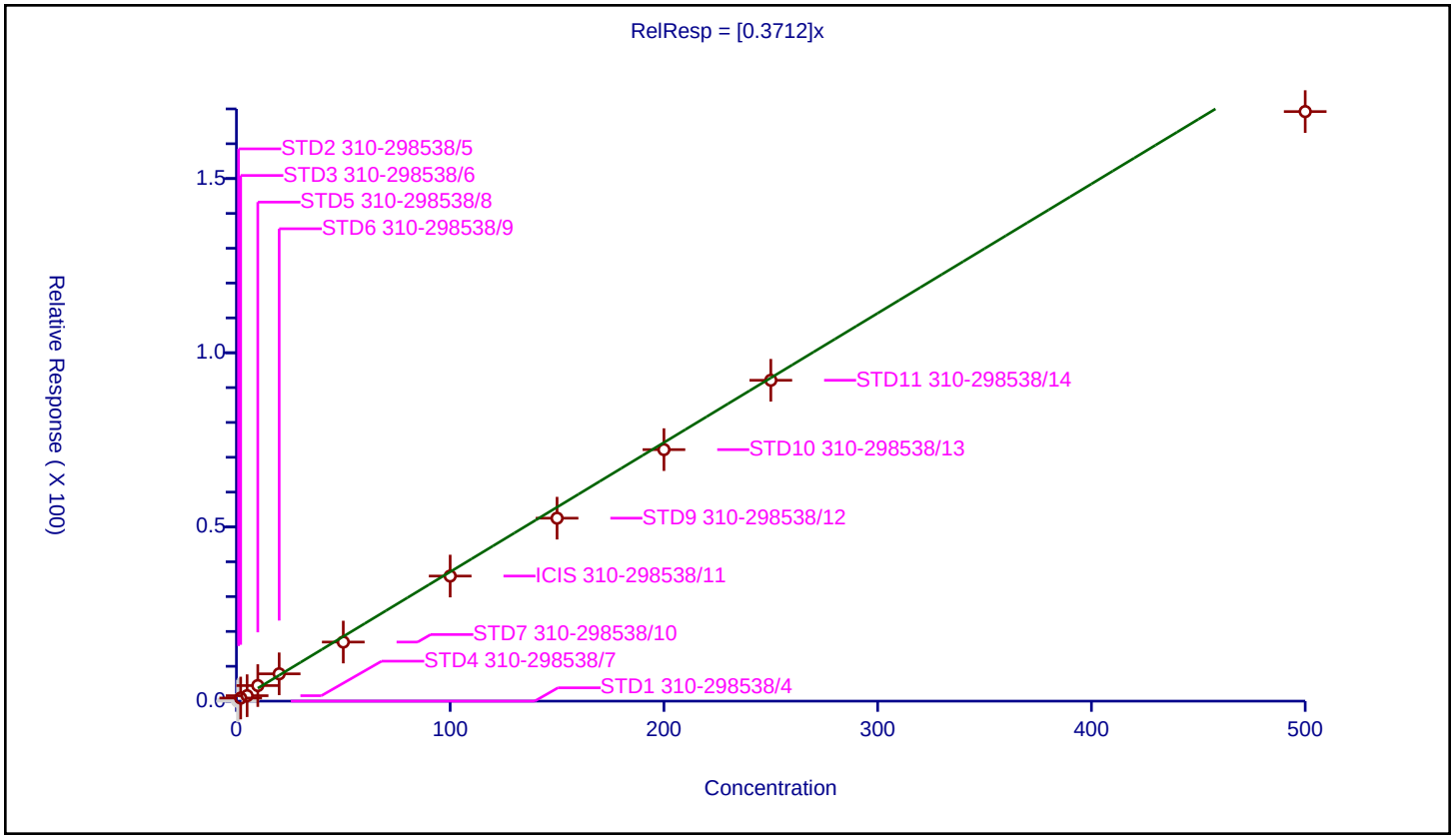
Curve Coefficients

Intercept:	0
Slope:	0.3712

Error Coefficients

Standard Error:	40400
Relative Standard Error:	11.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.0	50.0	36137.0	0.0	N
2	STD2 310-298538/5	1.0	0.534298	50.0	37058.0	0.534298	N
3	STD3 310-298538/6	2.0	0.888112	50.0	35750.0	0.444056	Y
4	STD4 310-298538/7	5.0	1.563207	50.0	35376.0	0.312641	Y
5	STD5 310-298538/8	10.0	4.466644	50.0	32933.0	0.446664	Y
6	STD6 310-298538/9	20.0	7.841413	50.0	30696.0	0.392071	Y
7	STD7 310-298538/10	50.0	16.960287	50.0	30141.0	0.339206	Y
8	ICIS 310-298538/11	100.0	35.90701	50.0	29057.0	0.35907	Y
9	STD9 310-298538/12	150.0	52.51783	50.0	30006.0	0.350119	Y
10	STD10 310-298538/13	200.0	72.196161	50.0	27926.0	0.360981	Y
11	STD11 310-298538/14	250.0	92.101668	50.0	28544.0	0.368407	Y
12	STD12 310-298538/15	500.0	169.230214	50.0	27722.0	0.33846	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

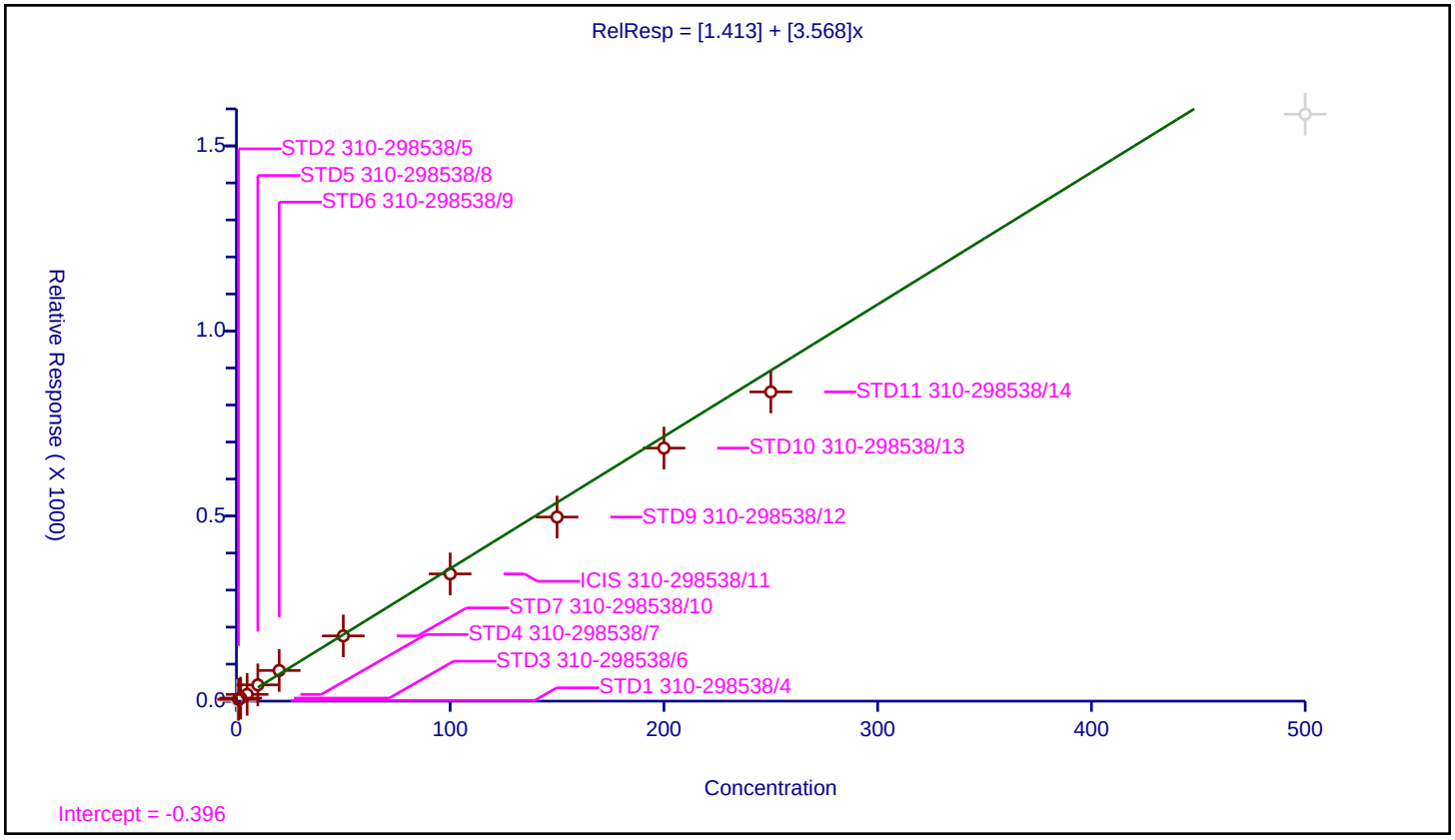
Curve Coefficients

Intercept:	1.413
Slope:	3.568

Error Coefficients

Standard Error:	254000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.85959	50.0	36137.0	3.71918	N
2	STD2 310-298538/5	1.0	5.009715	50.0	37058.0	5.009715	Y
3	STD3 310-298538/6	2.0	8.241958	50.0	35750.0	4.120979	Y
4	STD4 310-298538/7	5.0	18.255314	50.0	35376.0	3.651063	Y
5	STD5 310-298538/8	10.0	43.952874	50.0	32933.0	4.395287	Y
6	STD6 310-298538/9	20.0	82.823495	50.0	30696.0	4.141175	Y
7	STD7 310-298538/10	50.0	176.230052	50.0	30141.0	3.524601	Y
8	ICIS 310-298538/11	100.0	343.789792	50.0	29057.0	3.437898	Y
9	STD9 310-298538/12	150.0	497.315537	50.0	30006.0	3.315437	Y
10	STD10 310-298538/13	200.0	683.590561	50.0	27926.0	3.417953	Y
11	STD11 310-298538/14	250.0	835.394479	50.0	28544.0	3.341578	Y
12	STD12 310-298538/15	500.0	1585.61251	50.0	27722.0	3.171225	N



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

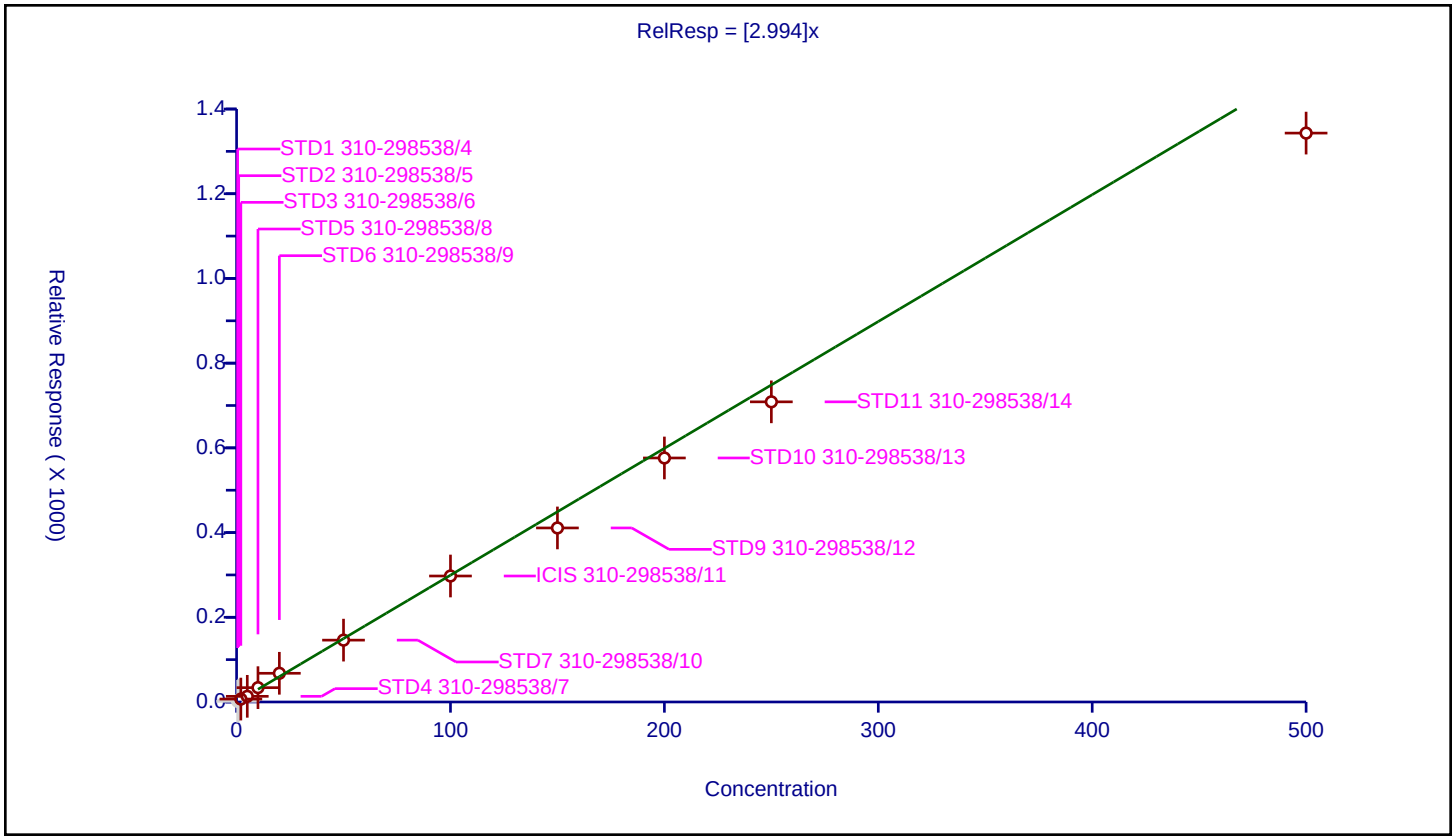
Curve Coefficients

Intercept:	0
Slope:	2.994

Error Coefficients

Standard Error:	320000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.510917	50.0	36137.0	3.021834	N
2	STD2 310-298538/5	1.0	4.358033	50.0	37058.0	4.358033	N
3	STD3 310-298538/6	2.0	6.916084	50.0	35750.0	3.458042	Y
4	STD4 310-298538/7	5.0	13.357926	50.0	35376.0	2.671585	Y
5	STD5 310-298538/8	10.0	33.858136	50.0	32933.0	3.385814	Y
6	STD6 310-298538/9	20.0	67.80688	50.0	30696.0	3.390344	Y
7	STD7 310-298538/10	50.0	146.048572	50.0	30141.0	2.920971	Y
8	ICIS 310-298538/11	100.0	297.482534	50.0	29057.0	2.974825	Y
9	STD9 310-298538/12	150.0	410.901153	50.0	30006.0	2.739341	Y
10	STD10 310-298538/13	200.0	576.095753	50.0	27926.0	2.880479	Y
11	STD11 310-298538/14	250.0	708.634039	50.0	28544.0	2.834536	Y
12	STD12 310-298538/15	500.0	1343.126398	50.0	27722.0	2.686253	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

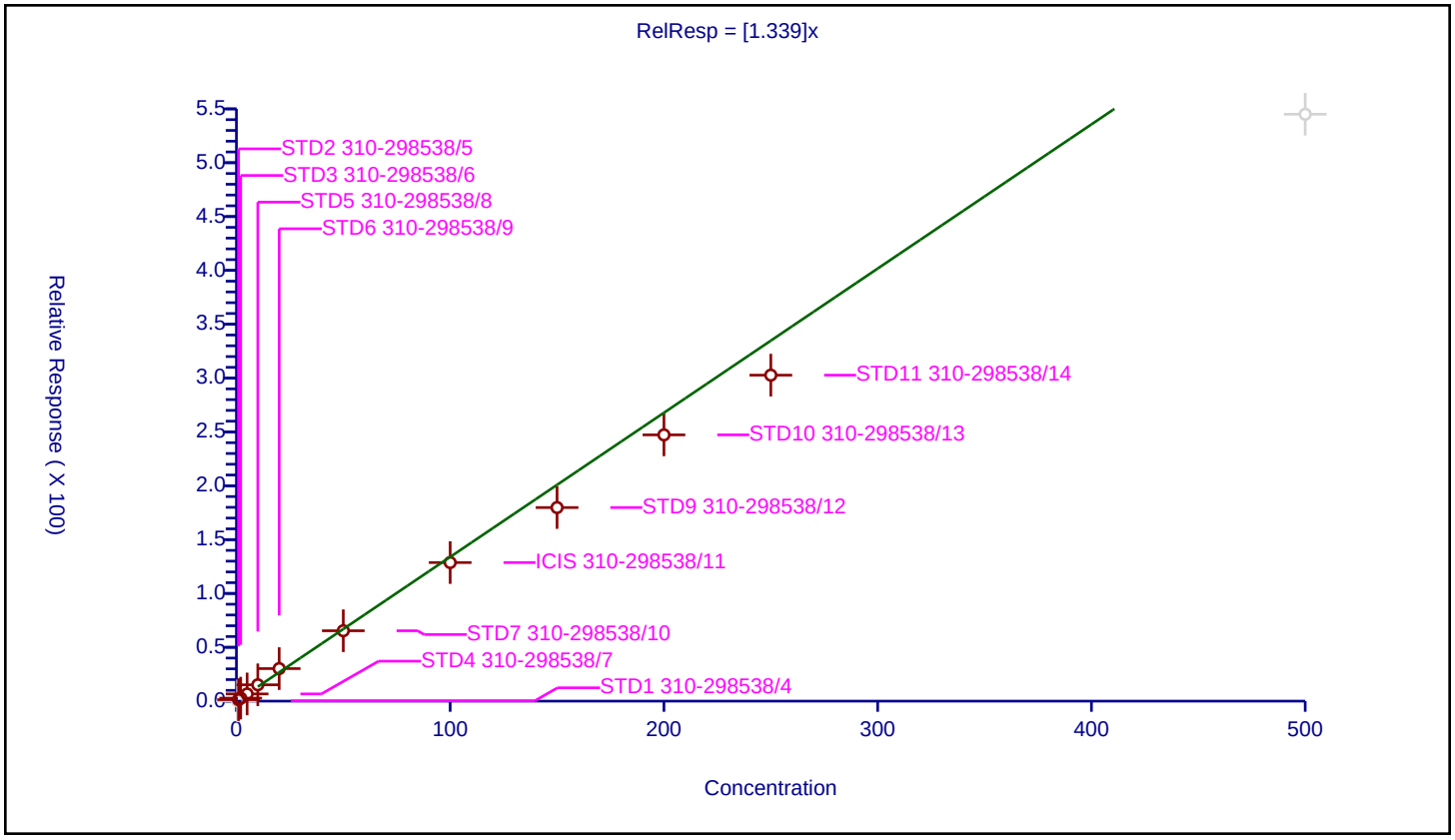
Curve Coefficients

Intercept:	0
Slope:	1.339

Error Coefficients

Standard Error:	86900
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	0.237983	50.0	36137.0	0.475966	N
2	STD2 310-298538/5	1.0	1.400507	50.0	37058.0	1.400507	Y
3	STD3 310-298538/6	2.0	2.772028	50.0	35750.0	1.386014	Y
4	STD4 310-298538/7	5.0	6.67967	50.0	35376.0	1.335934	Y
5	STD5 310-298538/8	10.0	15.17323	50.0	32933.0	1.517323	Y
6	STD6 310-298538/9	20.0	30.222179	50.0	30696.0	1.511109	Y
7	STD7 310-298538/10	50.0	65.359477	50.0	30141.0	1.30719	Y
8	ICIS 310-298538/11	100.0	128.705648	50.0	29057.0	1.287056	Y
9	STD9 310-298538/12	150.0	179.76738	50.0	30006.0	1.198449	Y
10	STD10 310-298538/13	200.0	247.285684	50.0	27926.0	1.236428	Y
11	STD11 310-298538/14	250.0	302.732623	50.0	28544.0	1.21093	Y
12	STD12 310-298538/15	500.0	545.05988	50.0	27722.0	1.09012	N



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

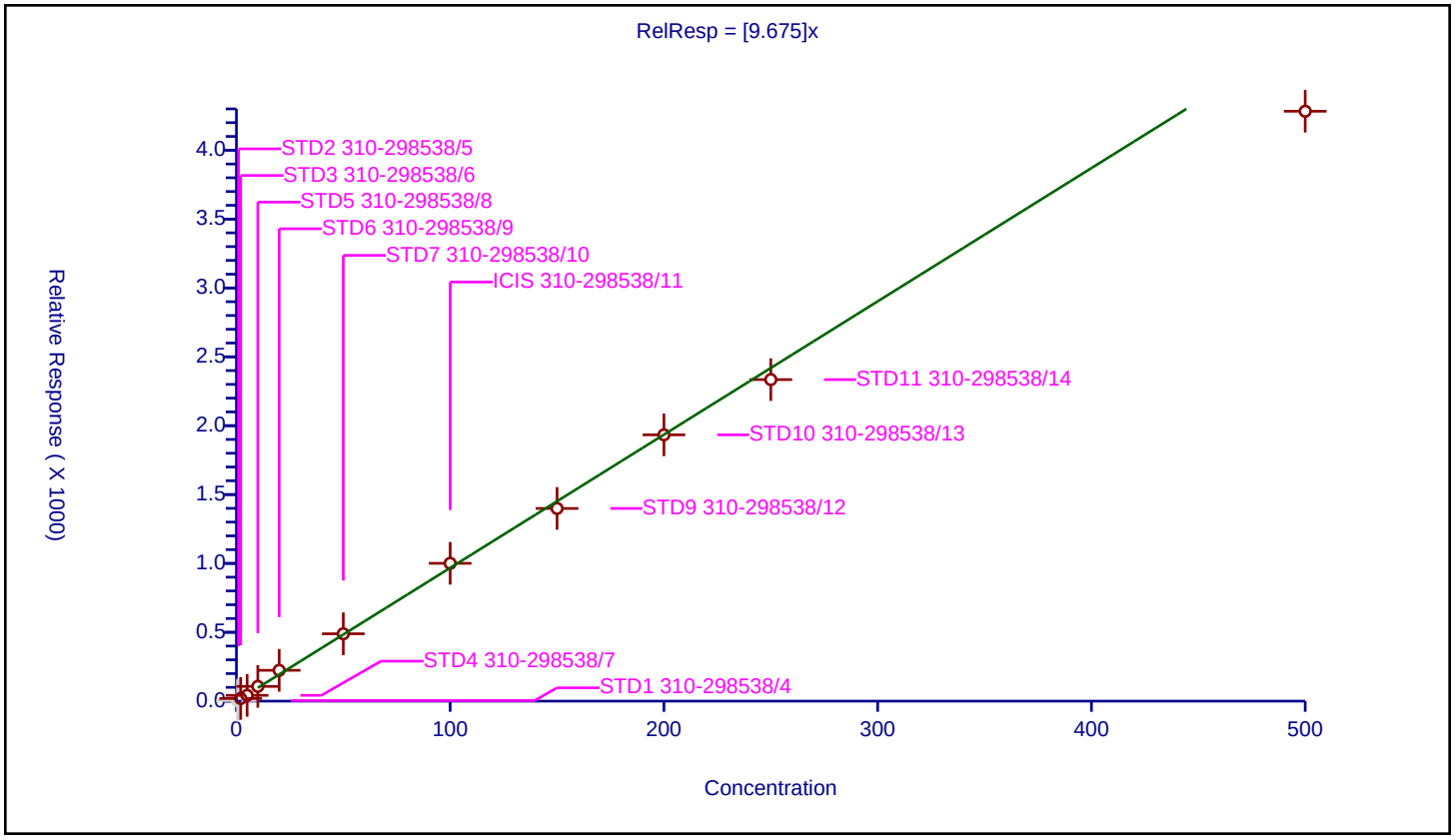
Curve Coefficients

Intercept:	0
Slope:	9.675

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	8.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	4.047099	50.0	36137.0	8.094197	N
2	STD2 310-298538/5	1.0	12.748934	50.0	37058.0	12.748934	N
3	STD3 310-298538/6	2.0	19.492308	50.0	35750.0	9.746154	Y
4	STD4 310-298538/7	5.0	42.123191	50.0	35376.0	8.424638	Y
5	STD5 310-298538/8	10.0	107.091671	50.0	32933.0	10.709167	Y
6	STD6 310-298538/9	20.0	223.757167	50.0	30696.0	11.187858	Y
7	STD7 310-298538/10	50.0	489.051458	50.0	30141.0	9.781029	Y
8	ICIS 310-298538/11	100.0	1000.715834	50.0	29057.0	10.007158	Y
9	STD9 310-298538/12	150.0	1398.95021	50.0	30006.0	9.326335	Y
10	STD10 310-298538/13	200.0	1933.524314	50.0	27926.0	9.667622	Y
11	STD11 310-298538/14	250.0	2334.607974	50.0	28544.0	9.338432	Y
12	STD12 310-298538/15	500.0	4283.033331	50.0	27722.0	8.566067	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

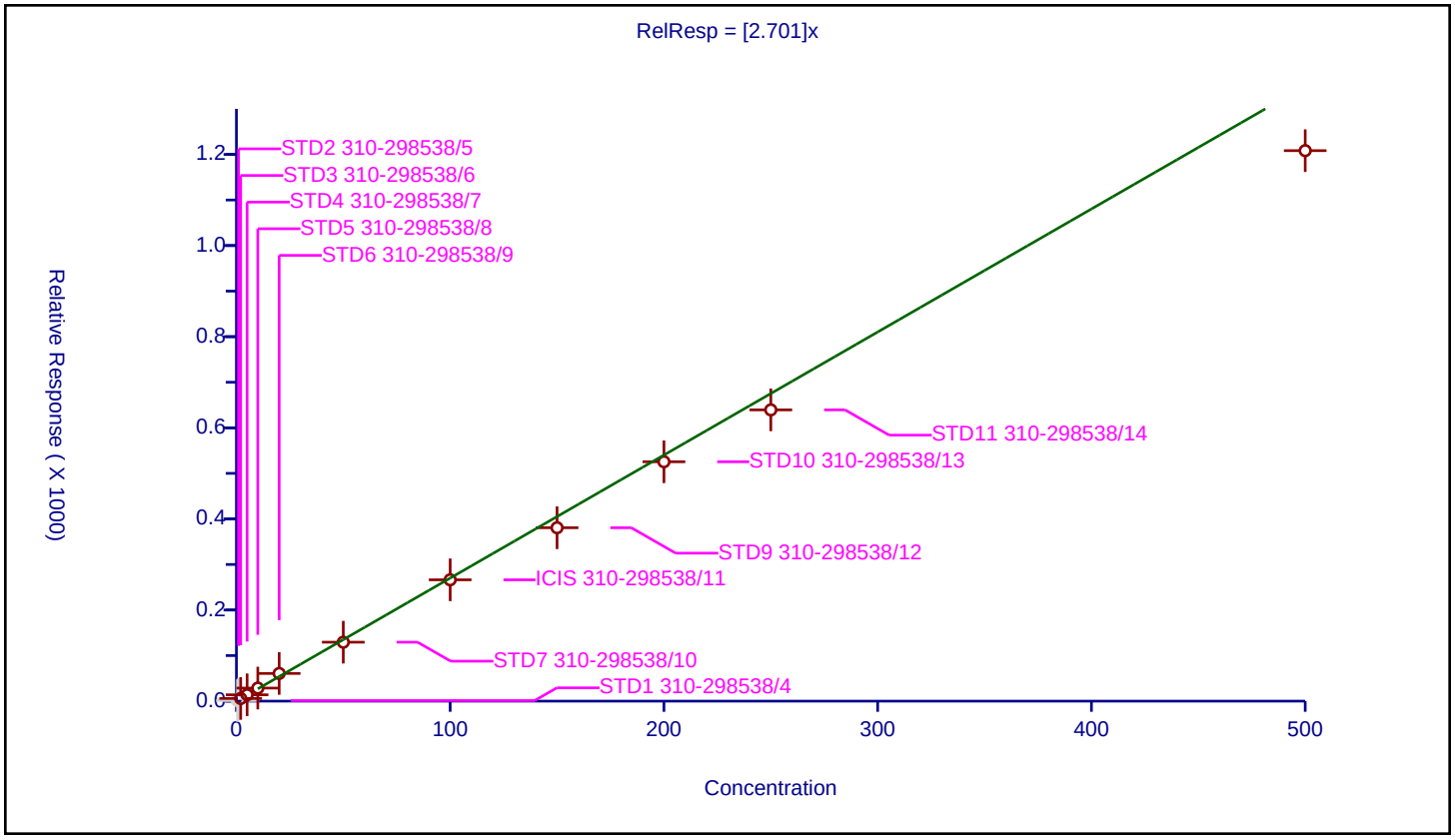
Curve Coefficients

Intercept:	0
Slope:	2.701

Error Coefficients

Standard Error:	289000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 310-298538/4	0.5	1.285386	50.0	36137.0	2.570772	N
2	STD2 310-298538/5	1.0	4.360732	50.0	37058.0	4.360732	N
3	STD3 310-298538/6	2.0	5.847552	50.0	35750.0	2.923776	Y
4	STD4 310-298538/7	5.0	13.941655	50.0	35376.0	2.788331	Y
5	STD5 310-298538/8	10.0	28.683995	50.0	32933.0	2.868399	Y
6	STD6 310-298538/9	20.0	60.763617	50.0	30696.0	3.038181	Y
7	STD7 310-298538/10	50.0	129.398494	50.0	30141.0	2.58797	Y
8	ICIS 310-298538/11	100.0	266.34718	50.0	29057.0	2.663472	Y
9	STD9 310-298538/12	150.0	380.602213	50.0	30006.0	2.537348	Y
10	STD10 310-298538/13	200.0	525.44224	50.0	27926.0	2.627211	Y
11	STD11 310-298538/14	250.0	639.307735	50.0	28544.0	2.557231	Y
12	STD12 310-298538/15	500.0	1208.347161	50.0	27722.0	2.416694	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	1.678		100	1000	-11.1	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:20:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	180856	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	7388	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	138316	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	57	64862	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	42094	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	177363	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	52605	NC	NC	
17 Ethanol	45	2.373	2.373	0.000	100	30761	2000.0	1955.8	
18 Ethyl ether	59	2.452	2.452	0.000	94	78444	50.0	51.3	
19 Acrolein	56	2.556	2.550	0.006	99	83439	395.0	358.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	111728	50.0	60.1	
21 112TCTFE	101	2.666	2.666	0.000	95	102860	50.0	55.7	
22 Acetone	43	2.708	2.708	0.000	100	42869	100.0	90.2	
24 Carbon disulfide	76	2.836	2.836	0.000	100	333584	50.0	60.6	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	97	35898	500.0	421.2	
118 Acetonitrile	40	2.958	2.971	-0.013	98	72932	500.0	417.5	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	76	65393	50.0	54.4	
26 Methyl acetate	43	3.032	3.031	0.001	99	117486	100.0	92.0	
27 Methylene Chloride	84	3.111	3.105	0.006	94	108741	50.0	49.4	
23 Iodomethane	142	2.776	3.153	-0.377	99	88338	50.0	51.9	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	53576	500.0	444.2	
30 Acrylonitrile	53	3.342	3.342	0.000	99	319592	500.0	489.3	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	116812	50.0	55.0	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	250997	50.0	51.0	
31 Hexane	57	3.653	3.641	0.012	94	161370	50.0	56.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	207793	50.0	52.2	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	93	194320	50.0	50.5	
36 Isopropyl ether	87	3.867	3.867	0.000	95	94134	50.0	48.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	298509	50.0	48.0	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	84	129474	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	155372	50.0	49.5	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	61286	100.0	80.9	
41 Propionitrile	54	4.391	4.391	0.000	99	114657	500.0	441.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	23381	100.0	78.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	354918	500.0	460.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	97	46196	50.0	45.5	
44 Tetrahydrofuran	71	4.598	4.598	0.000	90	15794	100.0	87.6	
45 Chloroform	83	4.629	4.635	-0.006	96	189202	50.0	45.5	
46 1,1,1-Trichloroethane	97	4.800	4.793	0.007	98	175538	50.0	51.4	
47 Cyclohexane	56	4.848	4.848	0.000	93	213359	50.0	52.4	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	147091	50.0	49.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	160447	50.0	50.2	
108 Isobutyl alcohol	43	5.117	5.117	0.001	93	68307	1250.0	1060.3	
50 Benzene	78	5.153	5.153	0.000	96	482270	50.0	51.6	
51 1,2-Dichloroethane	62	5.165	5.171	-0.006	97	139283	50.0	47.1	
116 n-Butanol	56	5.263	5.257	0.006	47	111647	1250.0	1229.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	262380	50.0	46.8	
53 n-Heptane	43	5.446	5.446	0.000	93	140405	50.0	48.3	
54 Trichloroethene	95	5.787	5.793	-0.006	97	117933	50.0	49.4	
117 Ethyl acrylate	55	5.921	5.927	-0.006	98	106513	50.0	47.2	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	195325	50.0	49.8	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	94	113298	50.0	49.6	
56 Dibromomethane	93	6.116	6.122	-0.006	96	59033	50.0	48.7	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	122262	100.0	94.1	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	12397	1000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	135266	50.0	49.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	38859	100.0	97.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	59880	50.0	47.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	168561	50.0	51.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	152251	100.0	87.3	
62 Toluene	92	7.098	7.098	0.000	98	312316	50.0	49.1	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	141349	50.0	44.1	
64 Ethyl methacrylate	69	7.458	7.458	0.000	90	113409	50.0	45.7	
65 1,1,2-Trichloroethane	83	7.525	7.531	-0.006	92	74069	50.0	48.8	
66 Tetrachloroethene	166	7.677	7.677	0.000	96	129353	50.0	49.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	154183	50.0	47.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	100409	100.0	88.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	97988	50.0	48.4	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	129334	50.0	43.3	
70 Ethylene Dibromide	107	8.055	8.049	0.006	98	89776	50.0	48.0	
71 Chlorobenzene	112	8.610	8.610	0.000	92	324527	50.0	46.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	105465	50.0	47.0	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	226666	50.0	48.0	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	586644	50.0	48.3	
75 o-Xylene	106	9.323	9.317	0.006	97	212624	50.0	47.3	
76 Styrene	104	9.341	9.341	0.000	95	352638	50.0	47.3	
77 Bromoform	173	9.530	9.530	0.000	95	53274	50.0	44.1	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	568310	50.0	48.6	
79 Bromobenzene	156	10.079	10.085	-0.006	94	128521	50.0	45.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	95	97590	50.0	44.7	
81 1,2,3-Trichloropropane	110	10.134	10.146	-0.012	88	30734	50.0	42.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	88	25518	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	99	644961	50.0	47.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	366834	50.0	46.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	427019	50.0	46.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	98	436190	50.0	46.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	379455	50.0	46.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	436127	50.0	45.4	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	552438	50.0	48.0	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.007	98	228976	50.0	45.3	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	96	456338	50.0	47.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	423432	50.0	46.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	234689	50.0	45.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	33806	50.0	40.5	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	98	210465	50.0	43.4	
94 n-Butylbenzene	91	11.762	11.761	0.001	98	392581	50.0	46.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	85	13481	50.0	43.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	132431	50.0	44.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	98	110980	50.0	44.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	57579	50.0	47.8	
98 Naphthalene	128	13.975	13.974	0.001	97	231986	50.0	43.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	87228	50.0	44.2	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	108.4	
S 102 1,3-Dichloropropene, Total	1				0		100.0	95.2	
S 100 Xylenes, Total	1				0		100.0	95.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

VV_I_ICVSOL_00052	Amount Added: 50.00	Units: uL	
VV_I_ACRO ICV_00030	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 13-Oct-2020 18:29:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D

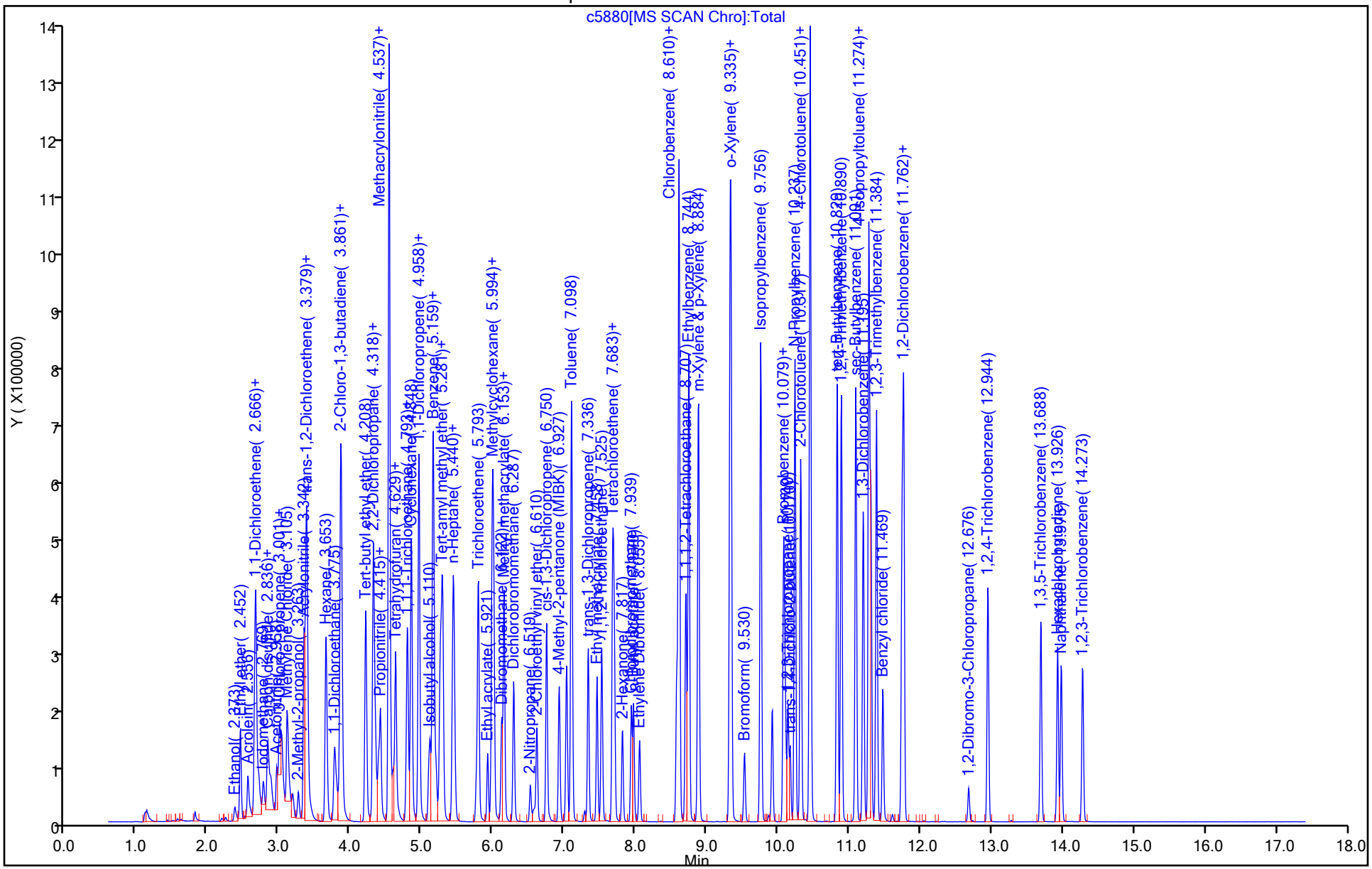
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: icv Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/02/2020 00:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2020 04:33

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2311	0.2327			50.0	0.7	30.0
Toluene-d8 (Surr)	Ave	1.235	1.282			50.0	3.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8116	0.8110			50.0	-0.0	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:20:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	180856	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	7388	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	138316	50.0	50.0	
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18 Ethyl ether	59	2.452	2.452	0.000	94	78444	50.0	51.3	
19 Acrolein	56	2.556	2.550	0.006	99	83439	395.0	358.7	
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21 112TCTFE	101	2.666	2.666	0.000	95	102860	50.0	55.7	
22 Acetone	43	2.708	2.708	0.000	100	42869	100.0	90.2	
24 Carbon disulfide	76	2.836	2.836	0.000	100	333584	50.0	60.6	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	97	35898	500.0	421.2	
118 Acetonitrile	40	2.958	2.971	-0.013	98	72932	500.0	417.5	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	76	65393	50.0	54.4	
26 Methyl acetate	43	3.032	3.031	0.001	99	117486	100.0	92.0	
27 Methylene Chloride	84	3.111	3.105	0.006	94	108741	50.0	49.4	
23 Iodomethane	142	2.776	3.153	-0.377	99	88338	50.0	51.9	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	53576	500.0	444.2	
30 Acrylonitrile	53	3.342	3.342	0.000	99	319592	500.0	489.3	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	116812	50.0	55.0	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	250997	50.0	51.0	
31 Hexane	57	3.653	3.641	0.012	94	161370	50.0	56.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	207793	50.0	52.2	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	93	194320	50.0	50.5	
36 Isopropyl ether	87	3.867	3.867	0.000	95	94134	50.0	48.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	298509	50.0	48.0	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	84	129474	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	155372	50.0	49.5	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	61286	100.0	80.9	
41 Propionitrile	54	4.391	4.391	0.000	99	114657	500.0	441.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	23381	100.0	78.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	354918	500.0	460.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	97	46196	50.0	45.5	
44 Tetrahydrofuran	71	4.598	4.598	0.000	90	15794	100.0	87.6	
45 Chloroform	83	4.629	4.635	-0.006	96	189202	50.0	45.5	
46 1,1,1-Trichloroethane	97	4.800	4.793	0.007	98	175538	50.0	51.4	
47 Cyclohexane	56	4.848	4.848	0.000	93	213359	50.0	52.4	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	147091	50.0	49.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	160447	50.0	50.2	
108 Isobutyl alcohol	43	5.117	5.117	0.001	93	68307	1250.0	1060.3	
50 Benzene	78	5.153	5.153	0.000	96	482270	50.0	51.6	
51 1,2-Dichloroethane	62	5.165	5.171	-0.006	97	139283	50.0	47.1	
116 n-Butanol	56	5.263	5.257	0.006	47	111647	1250.0	1229.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	262380	50.0	46.8	
53 n-Heptane	43	5.446	5.446	0.000	93	140405	50.0	48.3	
54 Trichloroethene	95	5.787	5.793	-0.006	97	117933	50.0	49.4	
117 Ethyl acrylate	55	5.921	5.927	-0.006	98	106513	50.0	47.2	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	195325	50.0	49.8	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	94	113298	50.0	49.6	
56 Dibromomethane	93	6.116	6.122	-0.006	96	59033	50.0	48.7	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	122262	100.0	94.1	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	12397	1000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	135266	50.0	49.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	38859	100.0	97.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	59880	50.0	47.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	168561	50.0	51.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	152251	100.0	87.3	
62 Toluene	92	7.098	7.098	0.000	98	312316	50.0	49.1	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	141349	50.0	44.1	
64 Ethyl methacrylate	69	7.458	7.458	0.000	90	113409	50.0	45.7	
65 1,1,2-Trichloroethane	83	7.525	7.531	-0.006	92	74069	50.0	48.8	
66 Tetrachloroethene	166	7.677	7.677	0.000	96	129353	50.0	49.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	154183	50.0	47.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	100409	100.0	88.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	97988	50.0	48.4	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	129334	50.0	43.3	
70 Ethylene Dibromide	107	8.055	8.049	0.006	98	89776	50.0	48.0	
71 Chlorobenzene	112	8.610	8.610	0.000	92	324527	50.0	46.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	105465	50.0	47.0	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	226666	50.0	48.0	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	586644	50.0	48.3	
75 o-Xylene	106	9.323	9.317	0.006	97	212624	50.0	47.3	
76 Styrene	104	9.341	9.341	0.000	95	352638	50.0	47.3	
77 Bromoform	173	9.530	9.530	0.000	95	53274	50.0	44.1	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	568310	50.0	48.6	
79 Bromobenzene	156	10.079	10.085	-0.006	94	128521	50.0	45.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	95	97590	50.0	44.7	
81 1,2,3-Trichloropropane	110	10.134	10.146	-0.012	88	30734	50.0	42.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	88	25518	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	99	644961	50.0	47.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	366834	50.0	46.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	427019	50.0	46.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	98	436190	50.0	46.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	379455	50.0	46.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	436127	50.0	45.4	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	552438	50.0	48.0	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.007	98	228976	50.0	45.3	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	96	456338	50.0	47.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	423432	50.0	46.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	234689	50.0	45.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	33806	50.0	40.5	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	98	210465	50.0	43.4	
94 n-Butylbenzene	91	11.762	11.761	0.001	98	392581	50.0	46.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	85	13481	50.0	43.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	132431	50.0	44.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	98	110980	50.0	44.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	57579	50.0	47.8	
98 Naphthalene	128	13.975	13.974	0.001	97	231986	50.0	43.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	87228	50.0	44.2	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	108.4	
S 102 1,3-Dichloropropene, Total	1				0		100.0	95.2	
S 100 Xylenes, Total	1				0		100.0	95.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

VV_I_ICVSOL_00052	Amount Added: 50.00	Units: uL	
VV_I_ACRO ICV_00030	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 13-Oct-2020 18:29:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D

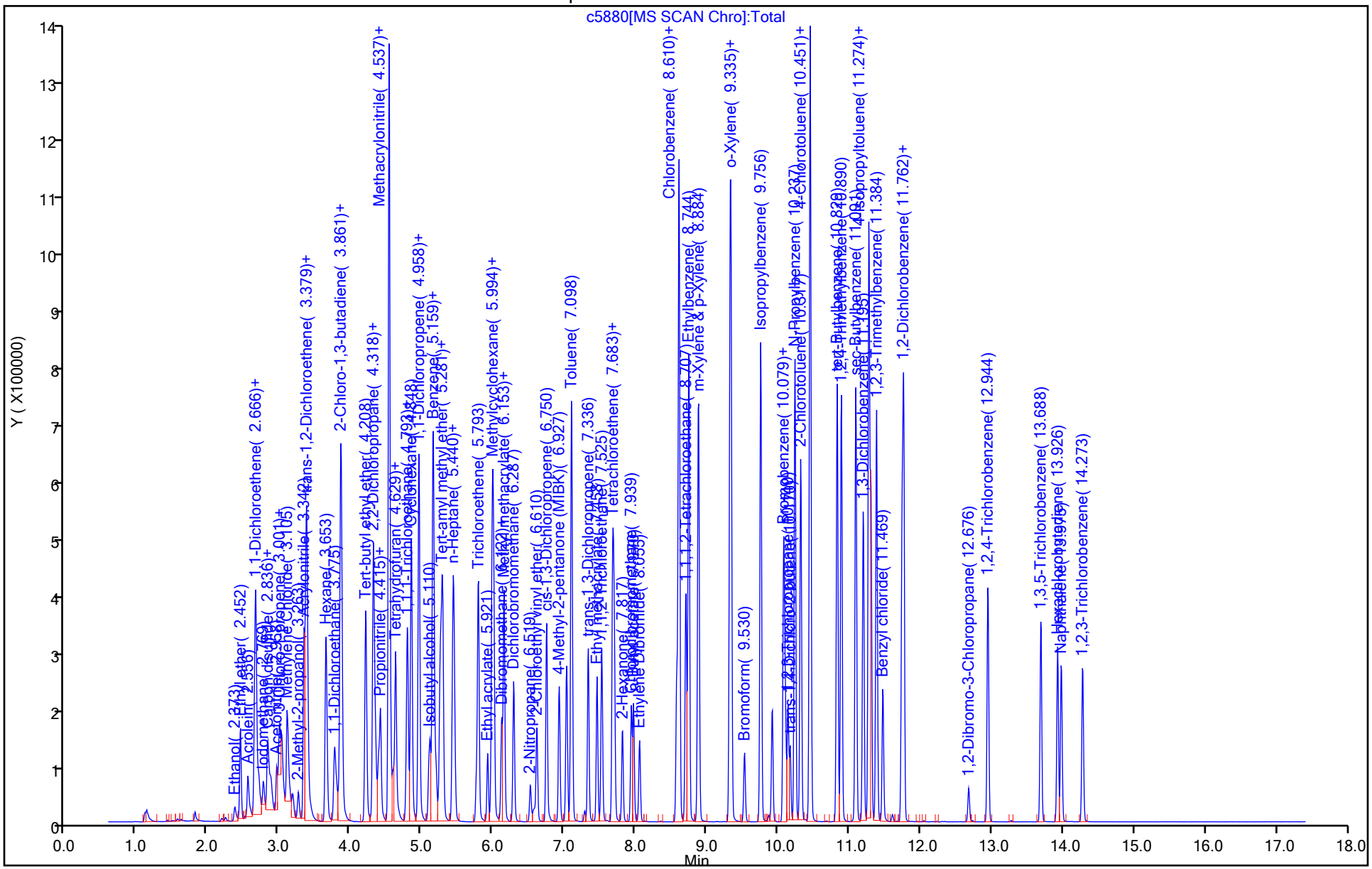
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: icv Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0043		1960	2000	-2.2	30.0
Diethyl ether	Ave	0.4227	0.4337		51.3	50.0	2.6	30.0
Acrolein	Ave	0.0643	0.0584		359	395	-9.2	30.0
1,1-Dichloroethene	Ave	0.5143	0.6178	0.1000	60.1	50.0	20.1	30.0
1,1,2-Trichlorotrifluoroethane	Ave	0.5105	0.5687	0.1000	55.7	50.0	11.4	30.0
Acetone	Lin1		0.1185	0.0500	90.2	100	-9.8	30.0
Iodomethane	Ave	0.4705	0.4884		51.9	50.0	3.8	30.0
Carbon disulfide	Ave	1.523	1.844	0.1000	60.6	50.0	21.1	30.0
Isopropyl alcohol	Ave	0.0236	0.0198		421	500	-15.8	30.0
Acetonitrile	Ave	0.0483	0.0403		417	500	-16.5	30.0
Allyl chloride	Ave	0.3323	0.3616		54.4	50.0	8.8	30.0
Methyl acetate	Ave	0.3531	0.3248	0.1000	92.0	100	-8.0	30.0
Methylene Chloride	Ave	0.6089	0.6013	0.1000	49.4	50.0	-1.3	30.0
tert-Butanol	Ave	0.0333	0.0296		444	500	-11.2	30.0
Acrylonitrile	Ave	0.1806	0.1767		489	500	-2.1	30.0
trans-1,2-Dichloroethene	Ave	0.5867	0.6459	0.1000	55.0	50.0	10.1	30.0
Methyl tert-butyl ether	Ave	1.361	1.388	0.1000	51.0	50.0	2.0	30.0
Hexane	Ave	0.7956	0.8923		56.1	50.0	12.2	30.0
1,1-Dichloroethane	Ave	1.100	1.149	0.2000	52.2	50.0	4.4	30.0
Chloroprene	Ave	1.064	1.074		50.5	50.0	1.0	30.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.5205		48.6	50.0	-2.9	30.0
tert-Butyl ethyl ether	Ave	1.720	1.651		48.0	50.0	-4.1	30.0
2,2-Dichloropropane	Ave	0.8681	0.8591		49.5	50.0	-1.0	30.0
cis-1,2-Dichloroethene	Ave	0.6713	0.7159	0.1000	53.3	50.0	6.6	30.0
2-Butanone (MEK)	Ave	0.2094	0.1694	0.0500	80.9	100	-19.1	30.0
Propionitrile	Ave	0.0718	0.0634		441	500	-11.7	30.0
Ethyl acetate	Ave	0.0822	0.0646		78.6	100	-21.4	30.0
Methacrylonitrile	Ave	0.2130	0.1962		461	500	-7.9	30.0
Bromochloromethane	Ave	0.2805	0.2554		45.5	50.0	-8.9	30.0
Tetrahydrofuran	Ave	0.0498	0.0437		87.6	100	-12.4	30.0
Chloroform	Ave	1.151	1.046	0.2000	45.5	50.0	-9.1	30.0
1,1,1-Trichloroethane	Ave	0.9433	0.9706	0.1000	51.4	50.0	2.9	30.0
Cyclohexane	Ave	1.125	1.180	0.1000	52.4	50.0	4.9	30.0
1,1-Dichloropropene	Ave	0.8831	0.8872		50.2	50.0	0.5	30.0
Carbon tetrachloride	Ave	0.8162	0.8133	0.1000	49.8	50.0	-0.4	30.0
Isobutyl alcohol	Ave	0.0178	0.0151		1060	1250	-15.2	30.0
Benzene	Ave	2.584	2.667	0.5000	51.6	50.0	3.2	30.0
1,2-Dichloroethane	Ave	0.8176	0.7701	0.1000	47.1	50.0	-5.8	30.0
n-Butanol	Ave	0.0251	0.0247		1230	1250	-1.7	30.0
tert-Amyl methyl ether	Ave	1.551	1.451		46.8	50.0	-6.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Ave	0.8031	0.7763		48.3	50.0	-3.3	30.0
Trichloroethene	Ave	0.6604	0.6521	0.2000	49.4	50.0	-1.3	30.0
Ethyl acrylate	Ave	0.6242	0.5889		47.2	50.0	-5.6	30.0
Methylcyclohexane	Ave	1.084	1.080	0.1000	49.8	50.0	-0.4	30.0
1,2-Dichloropropane	Ave	0.6310	0.6265	0.1000	49.6	50.0	-0.7	30.0
Dibromomethane	Ave	0.3352	0.3264		48.7	50.0	-2.6	30.0
Methyl methacrylate	Ave	0.3591	0.3380		94.1	100	-5.9	30.0
Dichlorobromomethane	Ave	0.7620	0.7479	0.2000	49.1	50.0	-1.8	30.0
2-Nitropropane	Ave	0.1107	0.1074		97.1	100	-2.9	30.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3311		47.3	50.0	-5.4	30.0
cis-1,3-Dichloropropene	Ave	0.9124	0.9320	0.2000	51.1	50.0	2.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.4209	0.1000	87.3	100	-12.7	30.0
Toluene	Ave	1.757	1.727	0.4000	49.1	50.0	-1.7	30.0
trans-1,3-Dichloropropene	Lin1		0.7816	0.1000	44.1	50.0	-11.8	30.0
Ethyl methacrylate	Ave	0.6863	0.6271		45.7	50.0	-8.6	30.0
1,1,2-Trichloroethane	Ave	0.4195	0.4095	0.1000	48.8	50.0	-2.4	30.0
Tetrachloroethene	Ave	0.7237	0.7152	0.2000	49.4	50.0	-1.2	30.0
1,3-Dichloropropane	Ave	0.8991	0.8525		47.4	50.0	-5.2	30.0
2-Hexanone	Ave	0.3151	0.2776	0.1000	88.1	100	-11.9	30.0
Chlorodibromomethane	Ave	0.5599	0.5418	0.1000	48.4	50.0	-3.2	30.0
n-Butyl acetate	Ave	0.8257	0.7151		43.3	50.0	-13.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.4964	0.1000	48.0	50.0	-4.0	30.0
Chlorobenzene	Ave	2.507	2.346	0.5000	46.8	50.0	-6.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7625		47.0	50.0	-5.9	30.0
Ethylbenzene	Ave	4.388	4.241	0.1000	48.3	50.0	-3.4	30.0
m,p-Xylene	Ave	1.708	1.639	0.1000	48.0	50.0	-4.1	30.0
o-Xylene	Ave	1.626	1.537	0.3000	47.3	50.0	-5.5	30.0
Styrene	Ave	2.693	2.550	0.3000	47.3	50.0	-5.3	30.0
Bromoform	Ave	0.4364	0.3852	0.1000	44.1	50.0	-11.7	30.0
Isopropylbenzene	Ave	4.230	4.109	0.1000	48.6	50.0	-2.9	30.0
Bromobenzene	Ave	1.026	0.9292		45.3	50.0	-9.4	30.0
1,1,2,2-Tetrachloroethane	Lin1		0.7056	0.2000	44.7	50.0	-10.6	30.0
1,2,3-Trichloropropane	Ave	0.2632	0.2222		42.2	50.0	-15.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.1845		42.1	50.0	-15.7	30.0
n-Propylbenzene	Ave	4.874	4.663		47.8	50.0	-4.3	30.0
2-Chlorotoluene	Ave	2.855	2.652		46.5	50.0	-7.1	30.0
1,3,5-Trimethylbenzene	Ave	3.375	3.154		46.7	50.0	-6.6	30.0
4-Chlorotoluene	Ave	3.359	3.087		46.0	50.0	-8.1	30.0
tert-Butylbenzene	Ave	2.925	2.743		46.9	50.0	-6.2	30.0
1,2,4-Trimethylbenzene	Ave	3.476	3.153		45.4	50.0	-9.3	30.0
sec-Butylbenzene	Ave	4.160	3.994		48.0	50.0	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichlorobenzene	Ave	1.828	1.655	0.6000	45.3	50.0	-9.4	30.0
p-Isopropyltoluene	Ave	7.443	7.036		47.3	50.0	-5.5	30.0
1,4-Dichlorobenzene	Ave	3.970	3.618	0.5000	45.6	50.0	-8.9	30.0
1,2,3-Trimethylbenzene	Ave	7.081	6.528		46.1	50.0	-7.8	30.0
Benzyl chloride	Ave	0.6441	0.5212		40.5	50.0	-19.1	30.0
1,2-Dichlorobenzene	Ave	3.736	3.245	0.4000	43.4	50.0	-13.2	30.0
n-Butylbenzene	Ave	6.554	6.053		46.2	50.0	-7.6	30.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2078	0.0500	43.7	50.0	-12.6	30.0
1,2,4-Trichlorobenzene	Ave	2.282	2.042	0.2000	44.7	50.0	-10.5	30.0
1,3,5-Trichlorobenzene	Ave	1.906	1.711		44.9	50.0	-10.2	30.0
Hexachlorobutadiene	Ave	0.9282	0.8877		47.8	50.0	-4.4	30.0
Naphthalene	Ave	4.156	3.577		43.0	50.0	-13.9	30.0
1,2,3-Trichlorobenzene	Ave	1.521	1.345		44.2	50.0	-11.6	30.0
1-Chlorohexane	None				1.00	50.0	-100.0*	30.0
Isooctane	None				1.00	50.0	-100.0*	30.0
tert-Amyl alcohol	None				50.0	500	-100.0*	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:20:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	180856	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	7388	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	138316	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	57	64862	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	42094	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	177363	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	52605	NC	NC	
17 Ethanol	45	2.373	2.373	0.000	100	30761	2000.0	1955.8	
18 Ethyl ether	59	2.452	2.452	0.000	94	78444	50.0	51.3	
19 Acrolein	56	2.556	2.550	0.006	99	83439	395.0	358.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	111728	50.0	60.1	
21 112TCTFE	101	2.666	2.666	0.000	95	102860	50.0	55.7	
22 Acetone	43	2.708	2.708	0.000	100	42869	100.0	90.2	
24 Carbon disulfide	76	2.836	2.836	0.000	100	333584	50.0	60.6	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	97	35898	500.0	421.2	
118 Acetonitrile	40	2.958	2.971	-0.013	98	72932	500.0	417.5	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	76	65393	50.0	54.4	
26 Methyl acetate	43	3.032	3.031	0.001	99	117486	100.0	92.0	
27 Methylene Chloride	84	3.111	3.105	0.006	94	108741	50.0	49.4	
23 Iodomethane	142	2.776	3.153	-0.377	99	88338	50.0	51.9	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	53576	500.0	444.2	
30 Acrylonitrile	53	3.342	3.342	0.000	99	319592	500.0	489.3	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	116812	50.0	55.0	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	250997	50.0	51.0	
31 Hexane	57	3.653	3.641	0.012	94	161370	50.0	56.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	207793	50.0	52.2	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	93	194320	50.0	50.5	
36 Isopropyl ether	87	3.867	3.867	0.000	95	94134	50.0	48.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	298509	50.0	48.0	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	84	129474	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	155372	50.0	49.5	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	61286	100.0	80.9	
41 Propionitrile	54	4.391	4.391	0.000	99	114657	500.0	441.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	23381	100.0	78.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	354918	500.0	460.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	97	46196	50.0	45.5	
44 Tetrahydrofuran	71	4.598	4.598	0.000	90	15794	100.0	87.6	
45 Chloroform	83	4.629	4.635	-0.006	96	189202	50.0	45.5	
46 1,1,1-Trichloroethane	97	4.800	4.793	0.007	98	175538	50.0	51.4	
47 Cyclohexane	56	4.848	4.848	0.000	93	213359	50.0	52.4	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	147091	50.0	49.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	160447	50.0	50.2	
108 Isobutyl alcohol	43	5.117	5.117	0.001	93	68307	1250.0	1060.3	
50 Benzene	78	5.153	5.153	0.000	96	482270	50.0	51.6	
51 1,2-Dichloroethane	62	5.165	5.171	-0.006	97	139283	50.0	47.1	
116 n-Butanol	56	5.263	5.257	0.006	47	111647	1250.0	1229.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	262380	50.0	46.8	
53 n-Heptane	43	5.446	5.446	0.000	93	140405	50.0	48.3	
54 Trichloroethene	95	5.787	5.793	-0.006	97	117933	50.0	49.4	
117 Ethyl acrylate	55	5.921	5.927	-0.006	98	106513	50.0	47.2	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	195325	50.0	49.8	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	94	113298	50.0	49.6	
56 Dibromomethane	93	6.116	6.122	-0.006	96	59033	50.0	48.7	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	122262	100.0	94.1	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	12397	1000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	135266	50.0	49.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	38859	100.0	97.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	59880	50.0	47.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	168561	50.0	51.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	152251	100.0	87.3	
62 Toluene	92	7.098	7.098	0.000	98	312316	50.0	49.1	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	141349	50.0	44.1	
64 Ethyl methacrylate	69	7.458	7.458	0.000	90	113409	50.0	45.7	
65 1,1,2-Trichloroethane	83	7.525	7.531	-0.006	92	74069	50.0	48.8	
66 Tetrachloroethene	166	7.677	7.677	0.000	96	129353	50.0	49.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	154183	50.0	47.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	100409	100.0	88.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	97988	50.0	48.4	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	129334	50.0	43.3	
70 Ethylene Dibromide	107	8.055	8.049	0.006	98	89776	50.0	48.0	
71 Chlorobenzene	112	8.610	8.610	0.000	92	324527	50.0	46.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	105465	50.0	47.0	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	226666	50.0	48.0	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	586644	50.0	48.3	
75 o-Xylene	106	9.323	9.317	0.006	97	212624	50.0	47.3	
76 Styrene	104	9.341	9.341	0.000	95	352638	50.0	47.3	
77 Bromoform	173	9.530	9.530	0.000	95	53274	50.0	44.1	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	568310	50.0	48.6	
79 Bromobenzene	156	10.079	10.085	-0.006	94	128521	50.0	45.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	95	97590	50.0	44.7	
81 1,2,3-Trichloropropane	110	10.134	10.146	-0.012	88	30734	50.0	42.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	88	25518	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	99	644961	50.0	47.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	366834	50.0	46.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	427019	50.0	46.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	98	436190	50.0	46.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	379455	50.0	46.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	436127	50.0	45.4	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	552438	50.0	48.0	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.007	98	228976	50.0	45.3	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	96	456338	50.0	47.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	423432	50.0	46.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	234689	50.0	45.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	33806	50.0	40.5	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	98	210465	50.0	43.4	
94 n-Butylbenzene	91	11.762	11.761	0.001	98	392581	50.0	46.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	85	13481	50.0	43.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	132431	50.0	44.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	98	110980	50.0	44.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	57579	50.0	47.8	
98 Naphthalene	128	13.975	13.974	0.001	97	231986	50.0	43.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	87228	50.0	44.2	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	108.4	
S 102 1,3-Dichloropropene, Total	1				0		100.0	95.2	
S 100 Xylenes, Total	1				0		100.0	95.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

VV_I_ICVSOL_00052	Amount Added: 50.00	Units: uL	
VV_I_ACRO ICV_00030	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 13-Oct-2020 18:29:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D

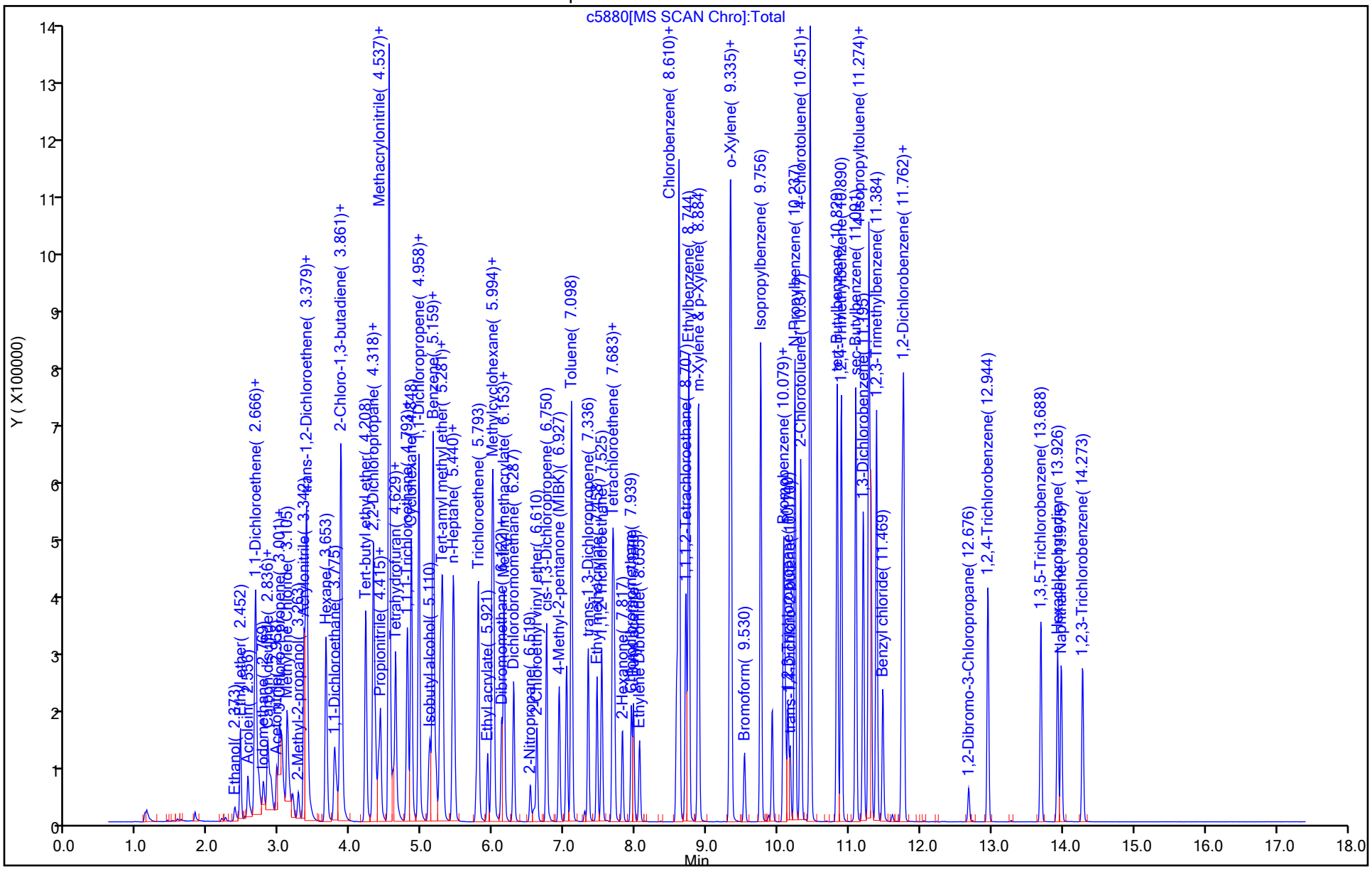
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: icv Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

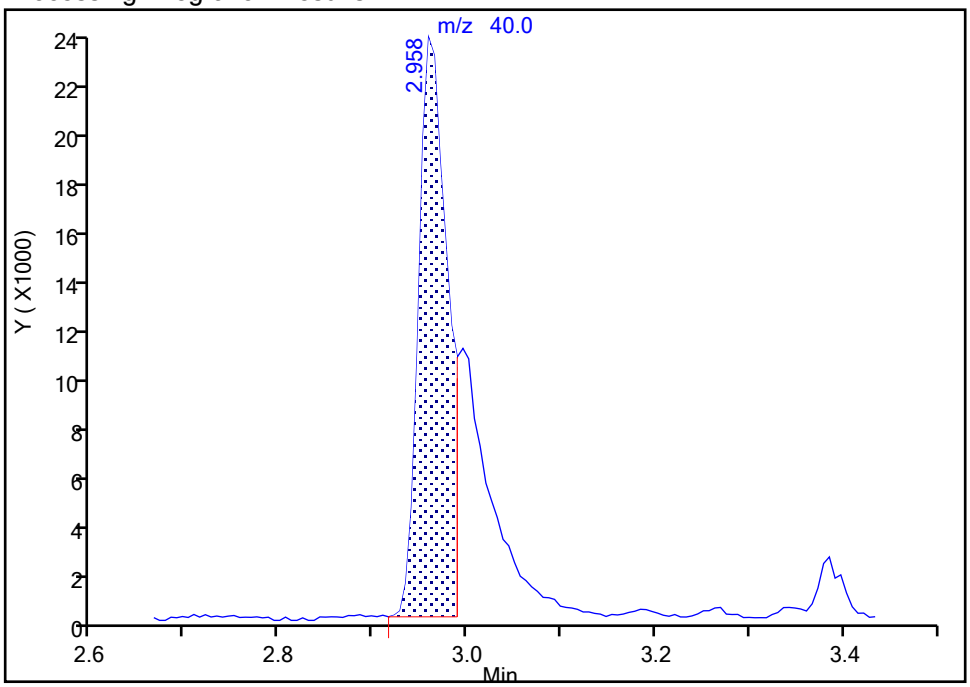
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

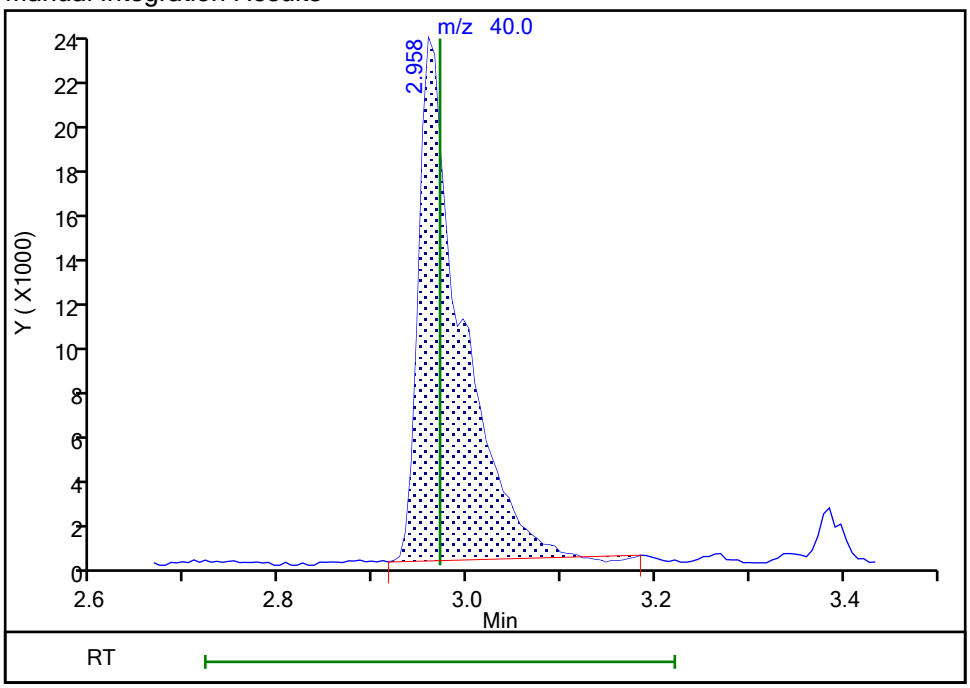
Processing Integration Results

RT: 2.96
Area: 50239
Amount: 287.5840
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 72932
Amount: 417.4859
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 18:09:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

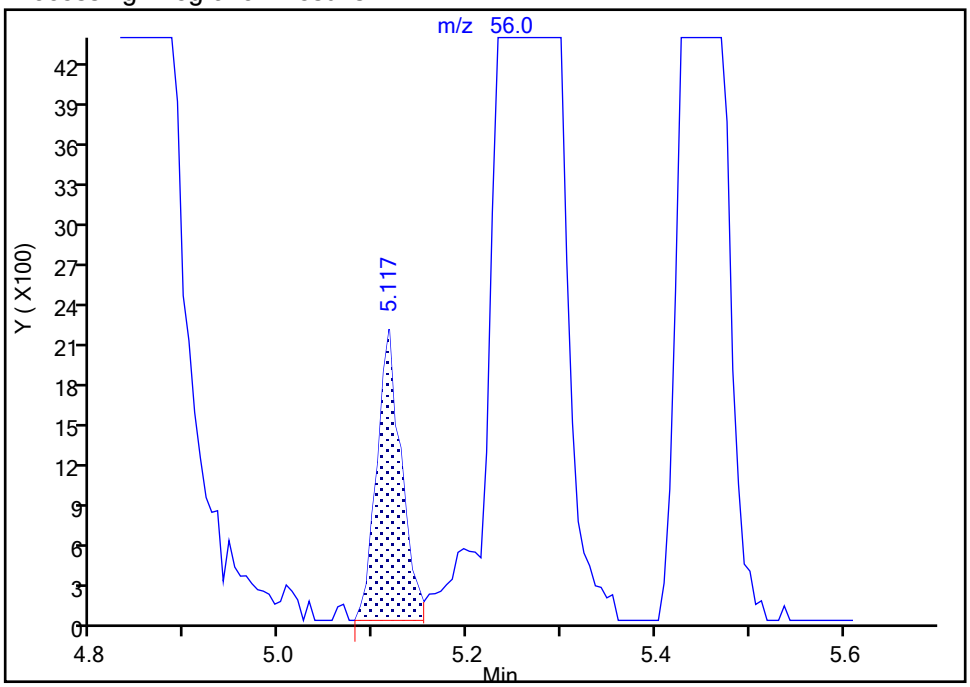
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

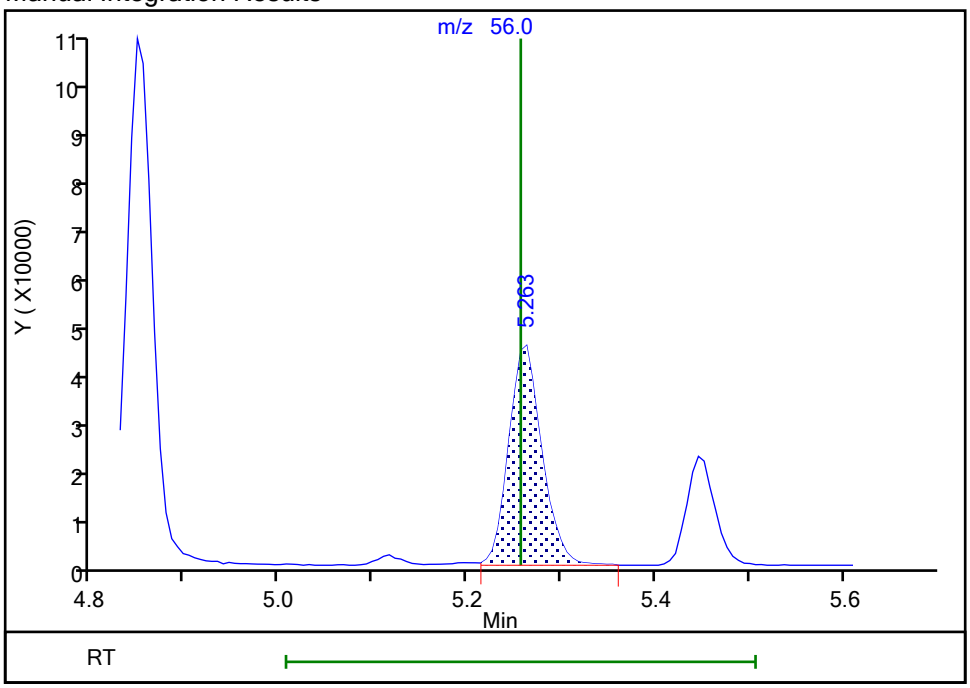
Processing Integration Results

RT: 5.12
Area: 3905
Amount: 42.986280
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 111647
Amount: 1229.0113
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 18:08:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/19 Calibration Date: 10/13/2020 14:44

Instrument ID: Calvin Calib Start Date: 10/02/2020 00:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2020 04:33

Lab File ID: c5881.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2311	0.2199			50.0	-4.9	30.0
Toluene-d8 (Surr)	Ave	1.235	1.266			50.0	2.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8116	0.7959			50.0	-1.9	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:44:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	163228	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	96	5747	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	122061	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	57175	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	93	35890	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	154474	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	88	45505	NC	NC	
33 Vinyl acetate	86	3.836	3.842	-0.006	97	32468	100.0	91.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

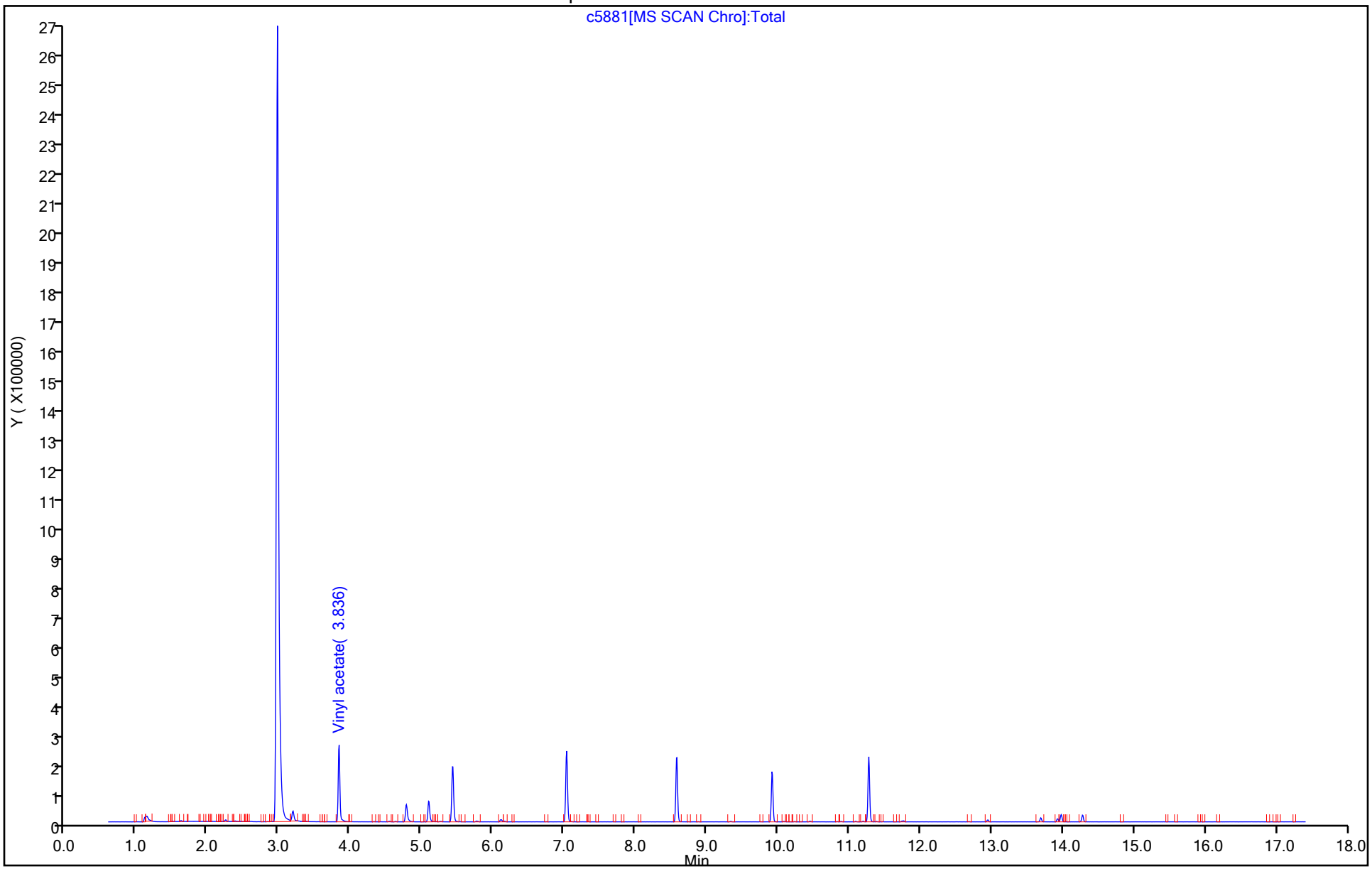
VV_I_VA ICV U_00013 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-Oct-2020 18:29:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D

Injection Date:	13-Oct-2020 14:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

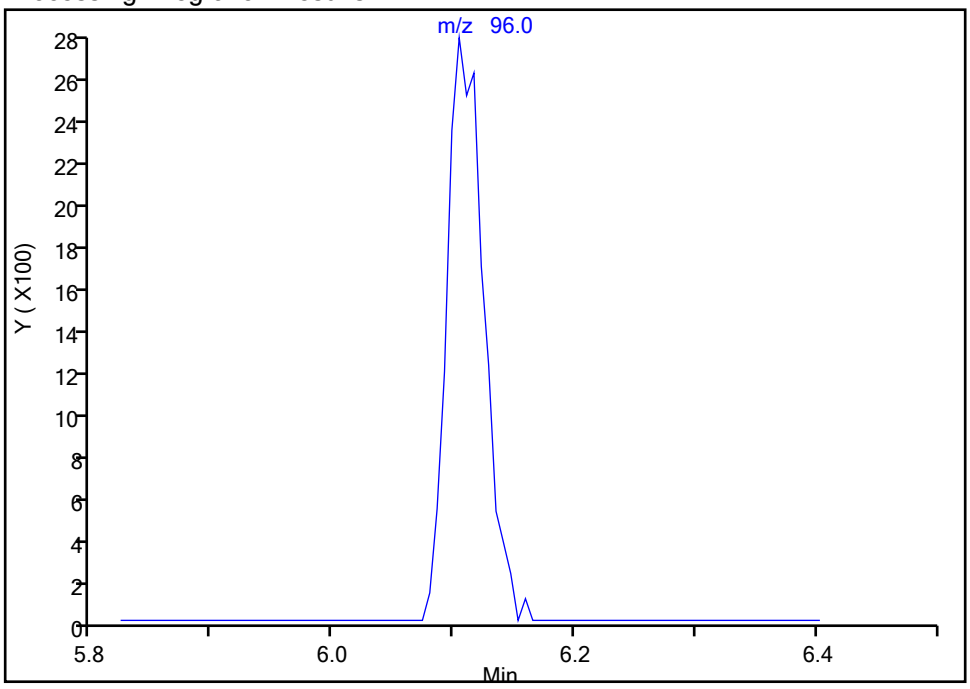
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Injection Date: 13-Oct-2020 14:44:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

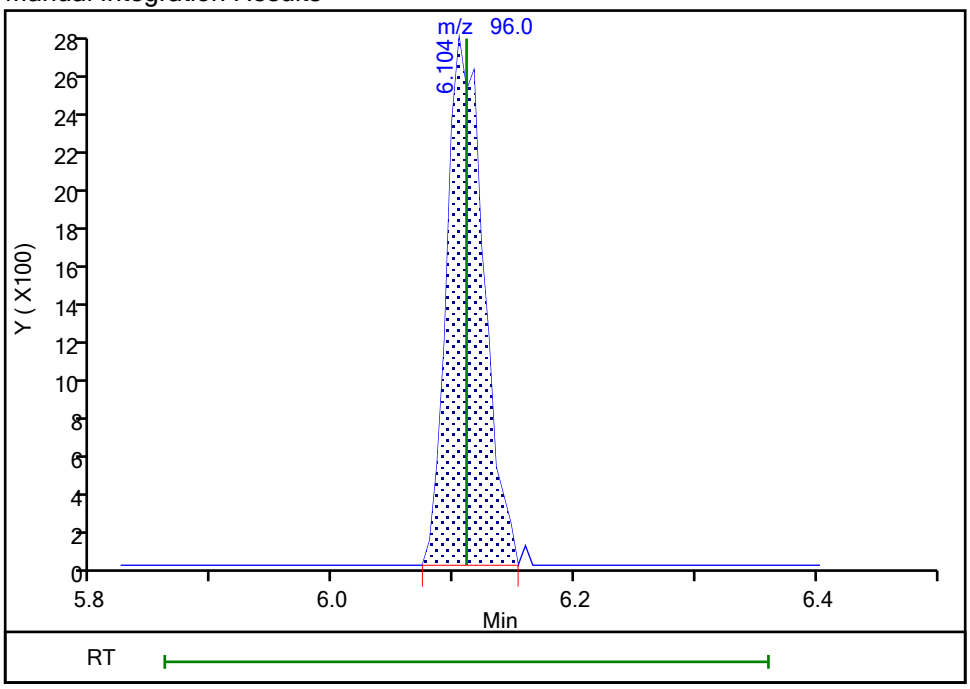
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5747
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 18:10:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/19 Calibration Date: 10/13/2020 14:44

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5881.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl acetate	Ave	0.1090	0.0995		91.3	100	-8.7	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:44:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	163228	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	96	5747	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	122061	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	57175	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	93	35890	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	154474	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	88	45505	NC	NC	
33 Vinyl acetate	86	3.836	3.842	-0.006	97	32468	100.0	91.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

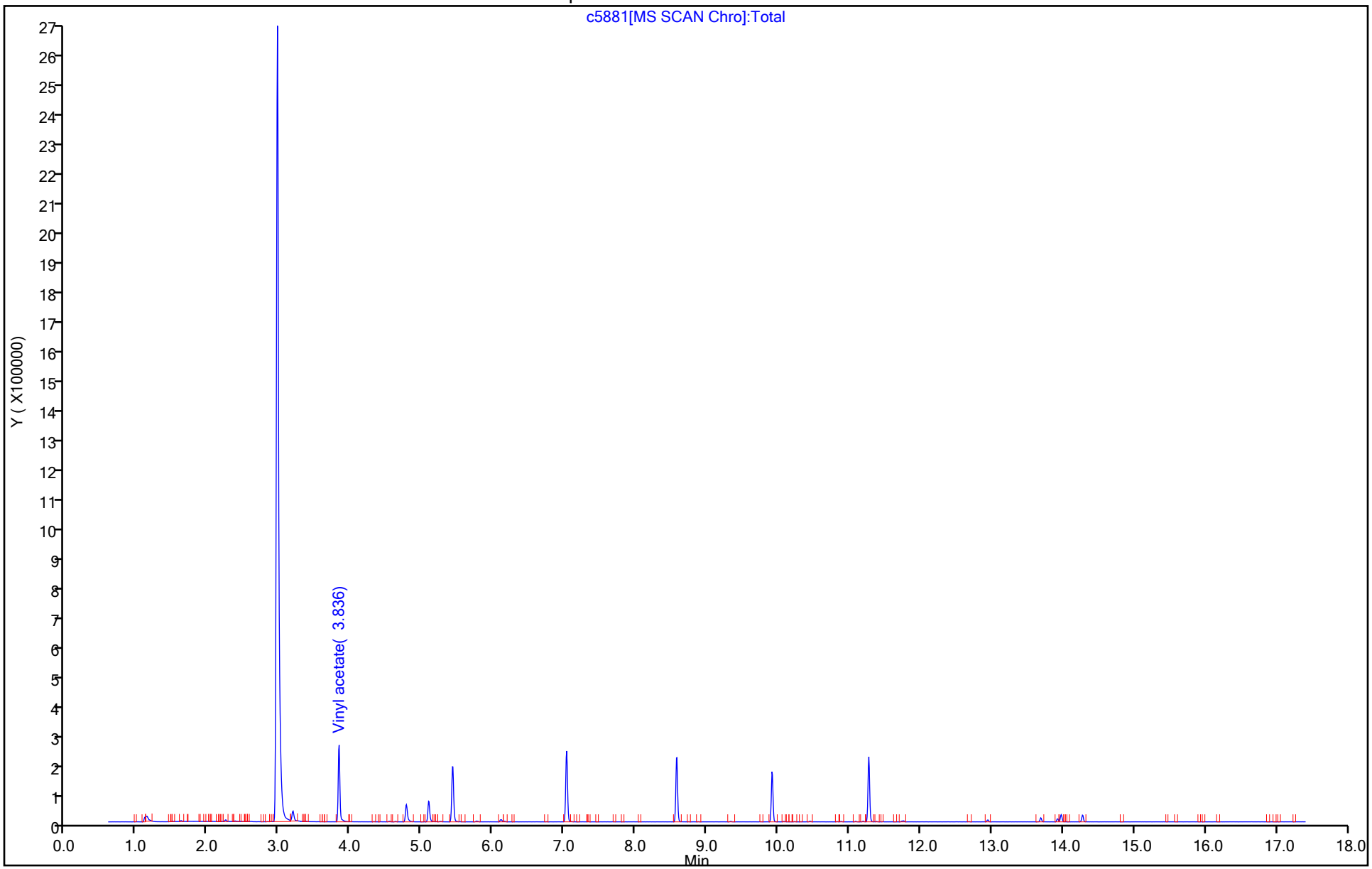
VV_I_VA ICV U_00013 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-Oct-2020 18:29:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D

Injection Date:	13-Oct-2020 14:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

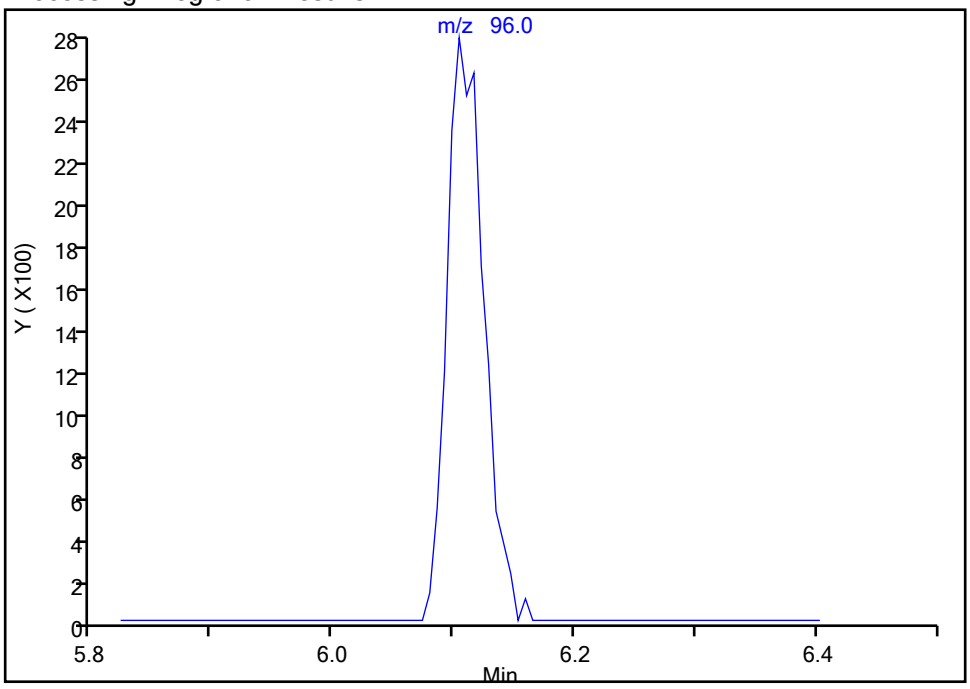
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Injection Date: 13-Oct-2020 14:44:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

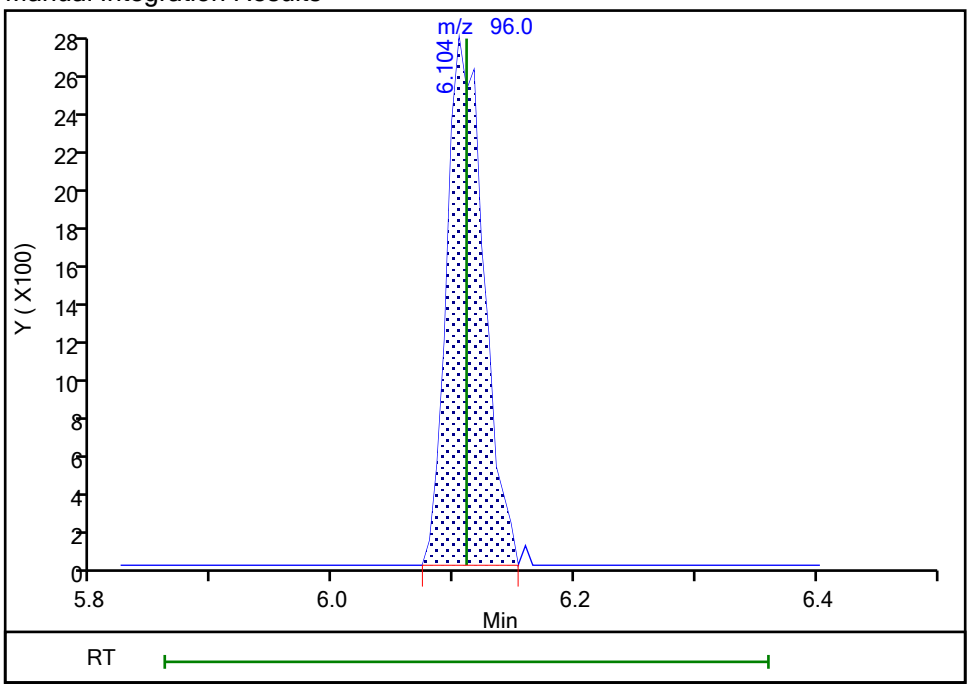
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.10
Area: 5747
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 13-Oct-2020 18:10:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/47 Calibration Date: 10/14/2020 07:09

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5909.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acrolein	Ave	0.0643	0.0942		579	395	46.5*	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Lims ID: icv acrolien
Client ID:
Sample Type: ICV
Inject. Date: 14-Oct-2020 07:09:30 ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:43:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	180006	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6103	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	135882	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	63774	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	39967	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	174755	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	51696	50.0	49.5	
19 Acrolein	56	2.556	2.556	0.000	99	134035	395.1	579.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

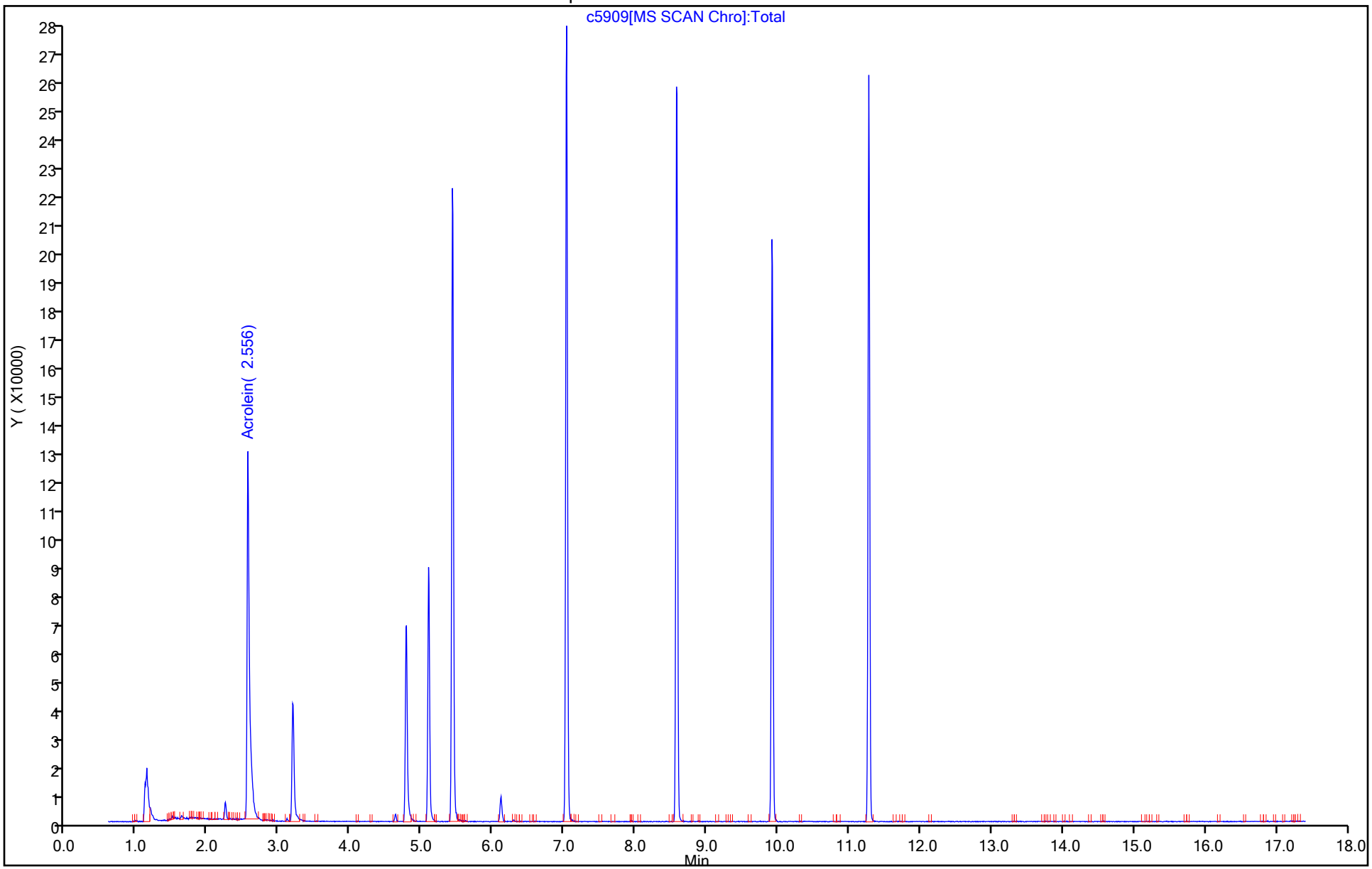
VV_I_ACRO ICV_00031 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D

Injection Date:	14-Oct-2020 07:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv acrolien			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

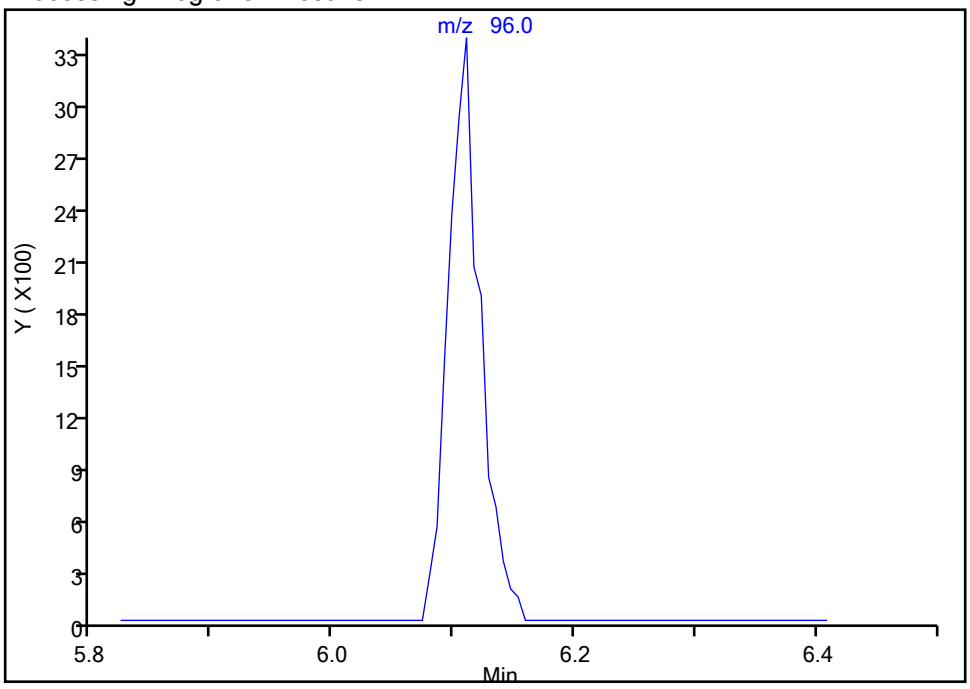
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Injection Date: 14-Oct-2020 07:09:30 Instrument ID: Calvin
Lims ID: icv acrolien
Client ID:
Operator ID: sjn ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

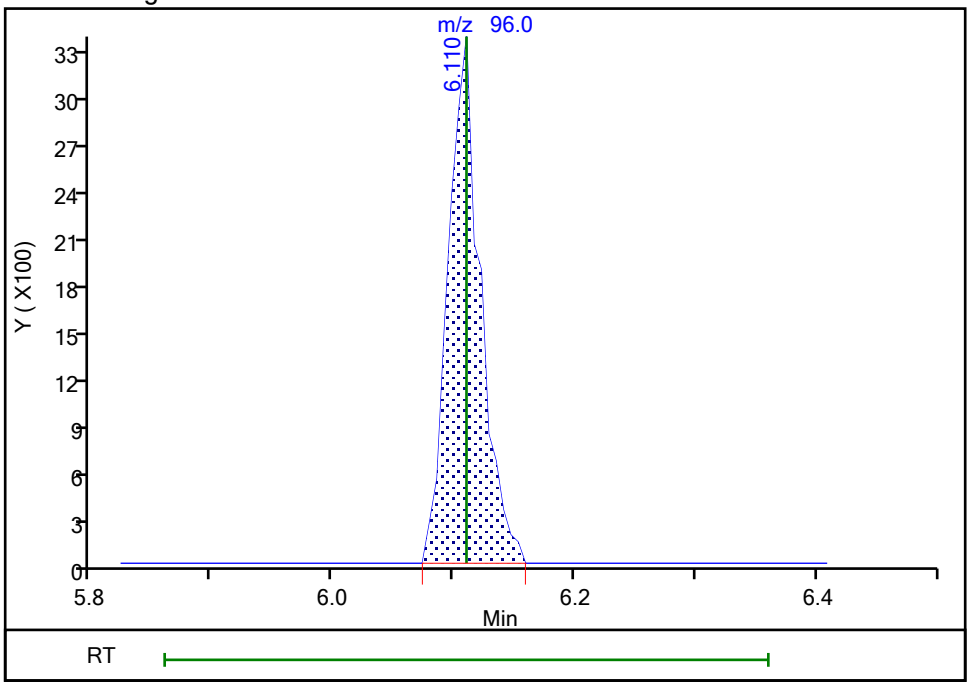
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6103
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:43:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/47 Calibration Date: 10/14/2020 07:09

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c5909.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2220		49.5	50.0	-0.9	30.0
Toluene-d8 (Surr)	Ave	1.282	1.286		50.2	50.0	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.8106		49.5	50.0	-0.9	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Lims ID: icv acrolien
Client ID:
Sample Type: ICV
Inject. Date: 14-Oct-2020 07:09:30 ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:43:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	180006	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6103	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	135882	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	63774	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	39967	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	174755	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	51696	50.0	49.5	
19 Acrolein	56	2.556	2.556	0.000	99	134035	395.1	579.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

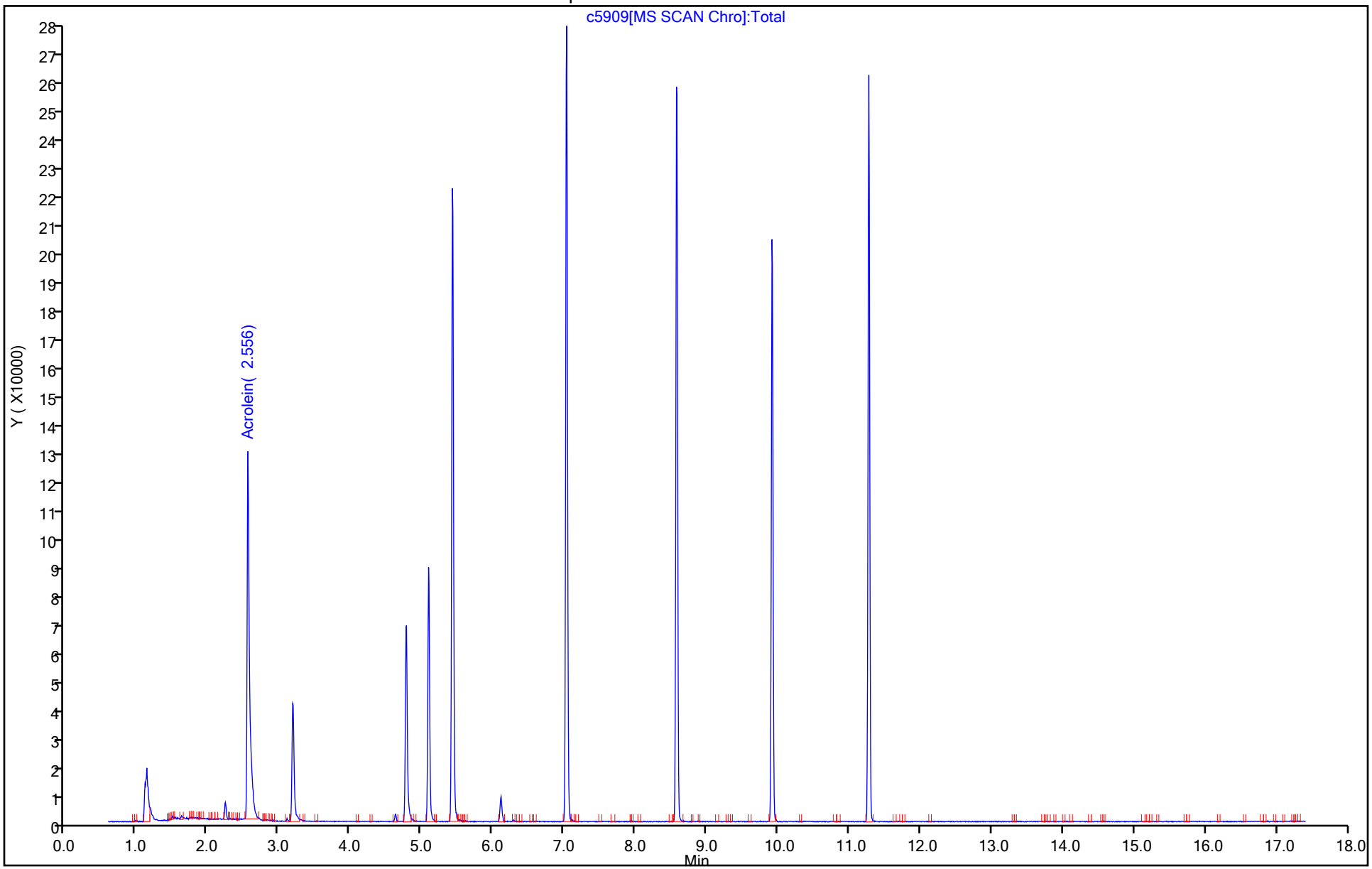
VV_I_ACRO ICV_00031 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D

Injection Date:	14-Oct-2020 07:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv acrolien			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

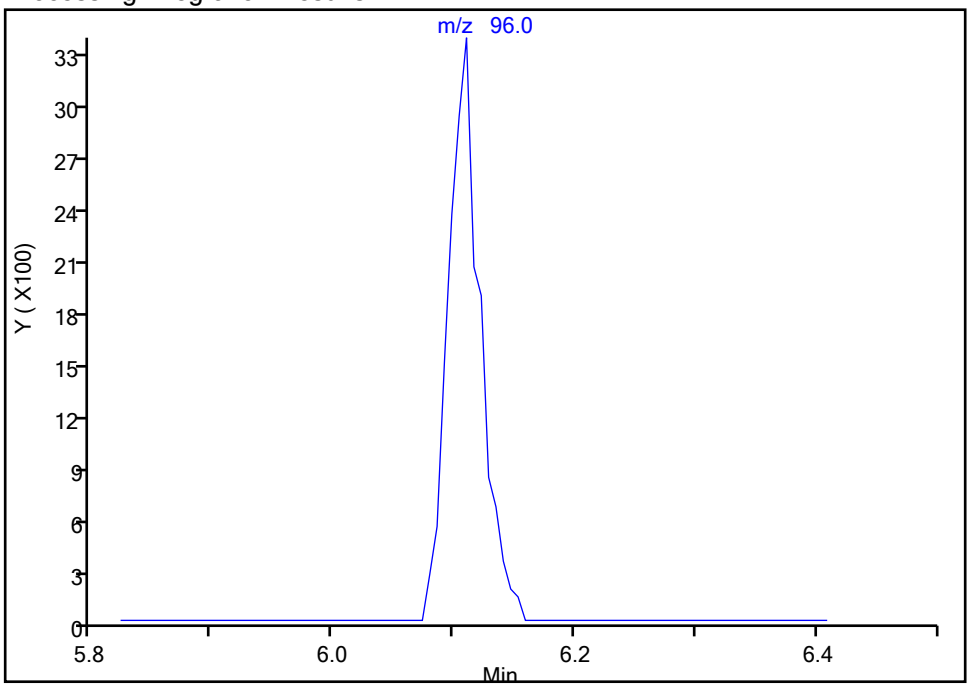
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Injection Date: 14-Oct-2020 07:09:30 Instrument ID: Calvin
Lims ID: icv acrolien
Client ID:
Operator ID: sjn ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

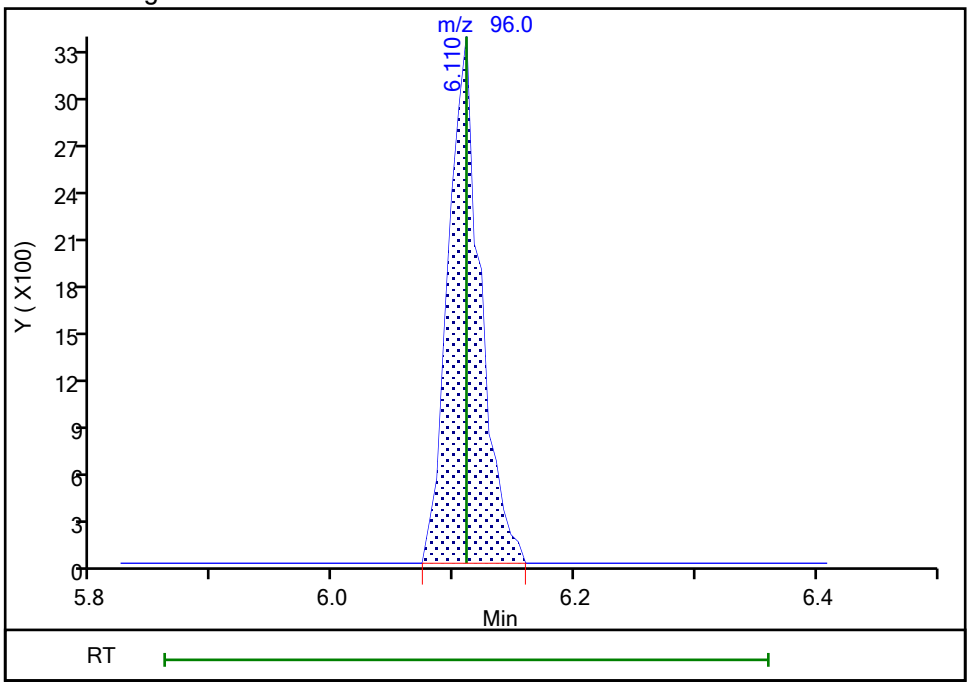
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6103
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:43:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-295162/38 Calibration Date: 10/14/2020 11:22

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c5919.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.023	0.9184	0.1000	44.9	50.0	-10.2	30.0
Chloromethane	Ave	0.7536	0.7799	0.1000	51.7	50.0	3.5	30.0
Vinyl chloride	Ave	0.9214	0.9944	0.1000	54.0	50.0	7.9	30.0
1,3-Butadiene	Ave	0.9321	0.9183		49.3	50.0	-1.5	30.0
Bromomethane	Lin2		0.4054	0.1000	77.3	50.0	54.7*	30.0
Chloroethane	Ave	0.5330	0.5696	0.1000	53.4	50.0	6.9	30.0
Dichlorofluoromethane	Ave	1.275	1.376		53.9	50.0	7.9	30.0
Trichlorofluoromethane	Ave	1.218	1.270	0.1000	52.1	50.0	4.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2241	0.2244		50.1	50.0	0.1	30.0
Toluene-d8 (Surr)	Ave	1.282	1.278		49.9	50.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.8109		49.6	50.0	-0.9	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5919.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 14-Oct-2020 11:22:30 ALS Bottle#: 59 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 15-Oct-2020 01:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	164096	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	96	5353	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	124141	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58588	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	36816	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	158698	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	47511	50.0	49.6	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	150703	50.0	44.9	
10 Chloromethane	50	1.526	1.526	0.000	98	127977	50.0	51.7	
11 Vinyl chloride	62	1.538	1.532	0.006	98	163172	50.0	54.0	
12 Butadiene	54	1.574	1.568	0.006	96	150688	50.0	49.3	
13 Bromomethane	94	1.830	1.837	-0.007	92	66531	50.0	77.3	E
14 Chloroethane	64	1.916	1.916	0.000	98	93474	50.0	53.4	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	225791	50.0	53.9	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	208363	50.0	52.1	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
a - User Assigned ID

Reagents:

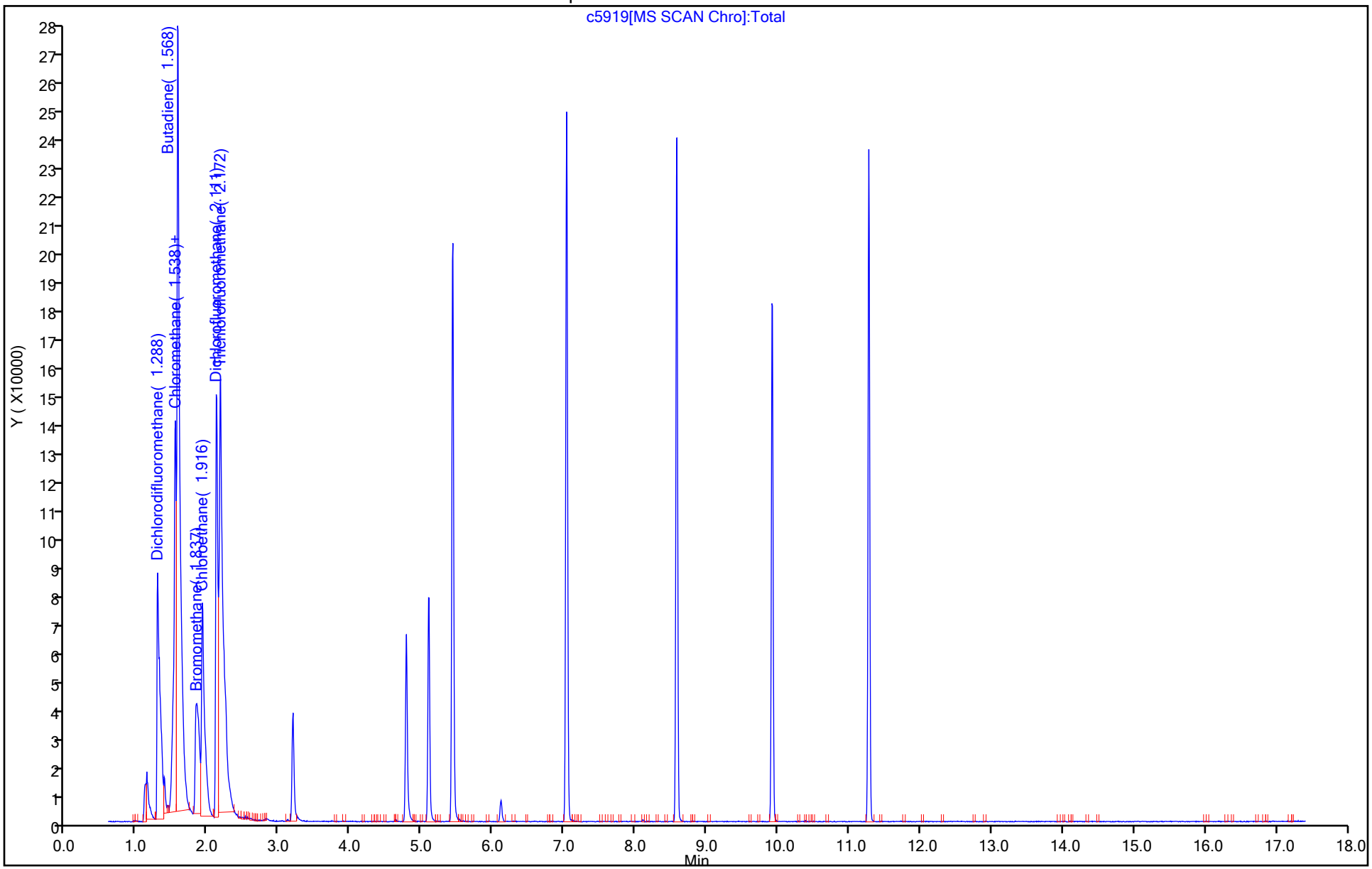
VV_I_ICVGAS_00275 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5919.D

Injection Date:	14-Oct-2020 11:22:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	38
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	59
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

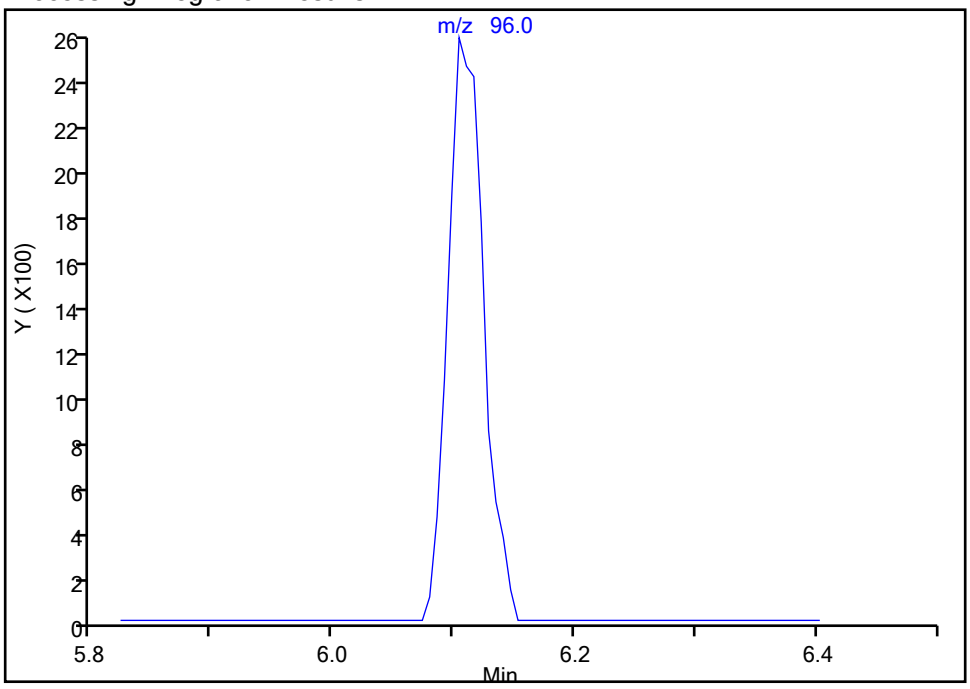
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5919.D
Injection Date: 14-Oct-2020 11:22:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 59 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

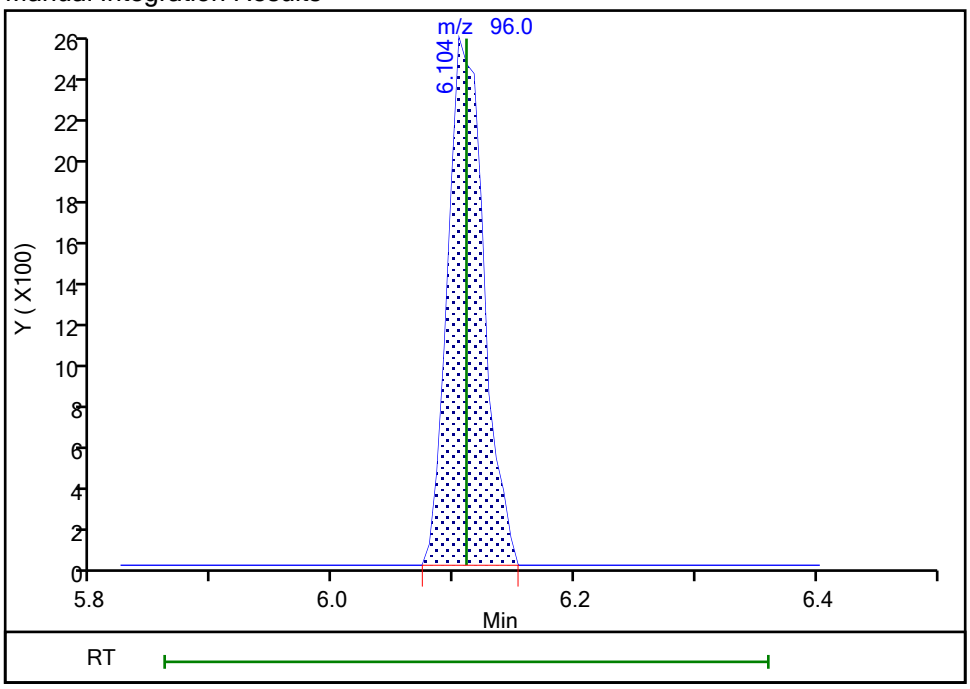
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.10
Area: 5353
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 15-Oct-2020 01:17:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299509/5 Calibration Date: 11/18/2020 05:07

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8227.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.023	0.8469	0.1000	16.6	20.0	-17.2	50.0
Chloromethane	Ave	0.7536	0.6829	0.1000	18.1	20.0	-9.4	50.0
Vinyl chloride	Ave	0.9214	0.7708	0.1000	16.7	20.0	-16.3	20.0
1,3-Butadiene	Ave	0.9321	0.7635		16.4	20.0	-18.1	20.0
Bromomethane	Lin2		0.1596	0.1000	12.6	20.0	-37.2	50.0
Chloroethane	Ave	0.5330	0.4357	0.1000	16.3	20.0	-18.3	20.0
Dichlorofluoromethane	Ave	1.275	1.058		16.6	20.0	-17.1	20.0
Trichlorofluoromethane	Ave	1.218	1.070	0.1000	17.6	20.0	-12.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2241	0.2314		51.6	50.0	3.2	20.0
Toluene-d8 (Surr)	Ave	1.282	1.303		50.8	50.0	1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.8159		49.9	50.0	-0.3	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8227.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 05:07:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub24

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:53:33 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 05:51:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.373	3.385	-0.012	0	224	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	181097	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	94	5872	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	131424	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	57790	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	41898	50.0	51.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	171278	50.0	50.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	47152	50.0	49.9	
$ 8 BFB	95	9.920	9.920	0.000	82	64430	NR	NR	8
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	61351	20.0	16.6	
10 Chloromethane	50	1.520	1.526	-0.006	93	49471	20.0	18.1	M
11 Vinyl chloride	62	1.538	1.532	0.006	100	55834	20.0	16.7	
12 Butadiene	54	1.574	1.568	0.006	96	55306	20.0	16.4	
13 Bromomethane	94	1.837	1.837	0.000	92	11560	20.0	12.6	M
14 Chloroethane	64	1.916	1.916	0.000	98	31561	20.0	16.3	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	99	76623	20.0	16.6	
16 Trichlorofluoromethane	101	2.178	2.166	0.012	97	77493	20.0	17.6	M

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

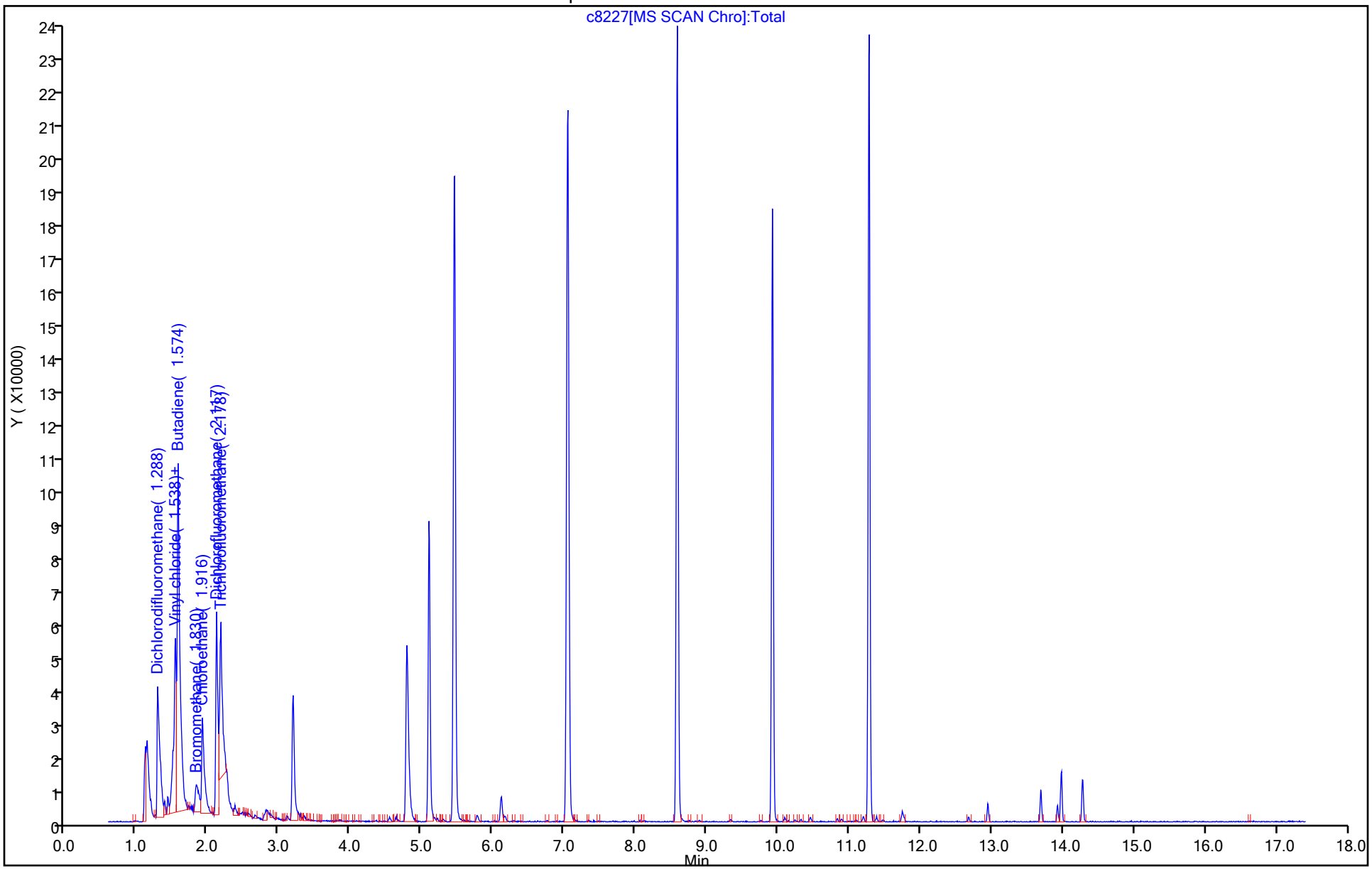
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_GASES_00414	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:53:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8227.D

Injection Date:	18-Nov-2020 05:07:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

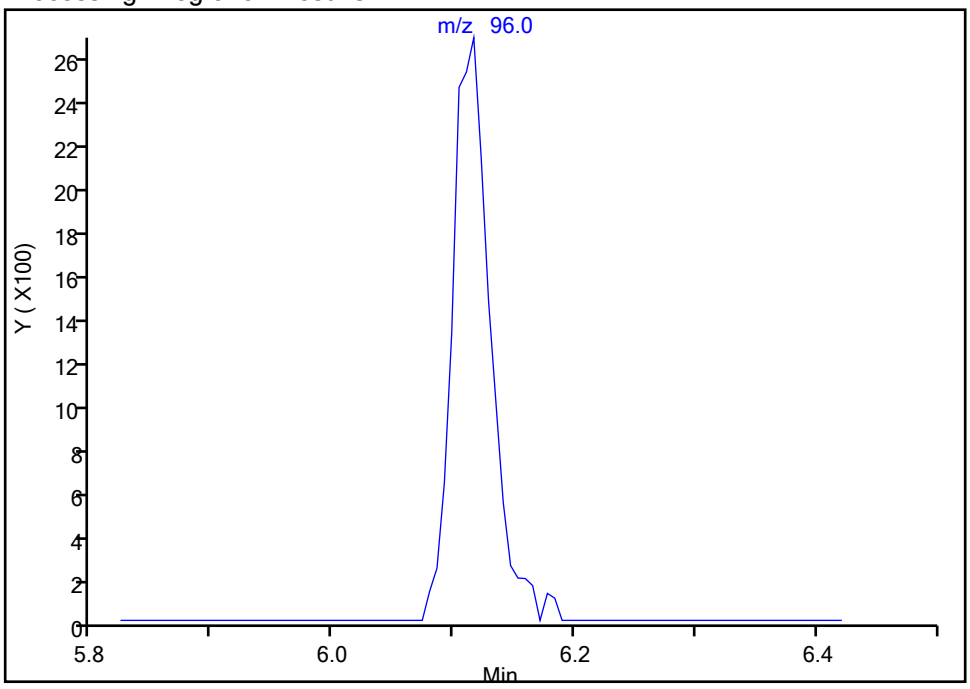
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8227.D
Injection Date: 18-Nov-2020 05:07:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

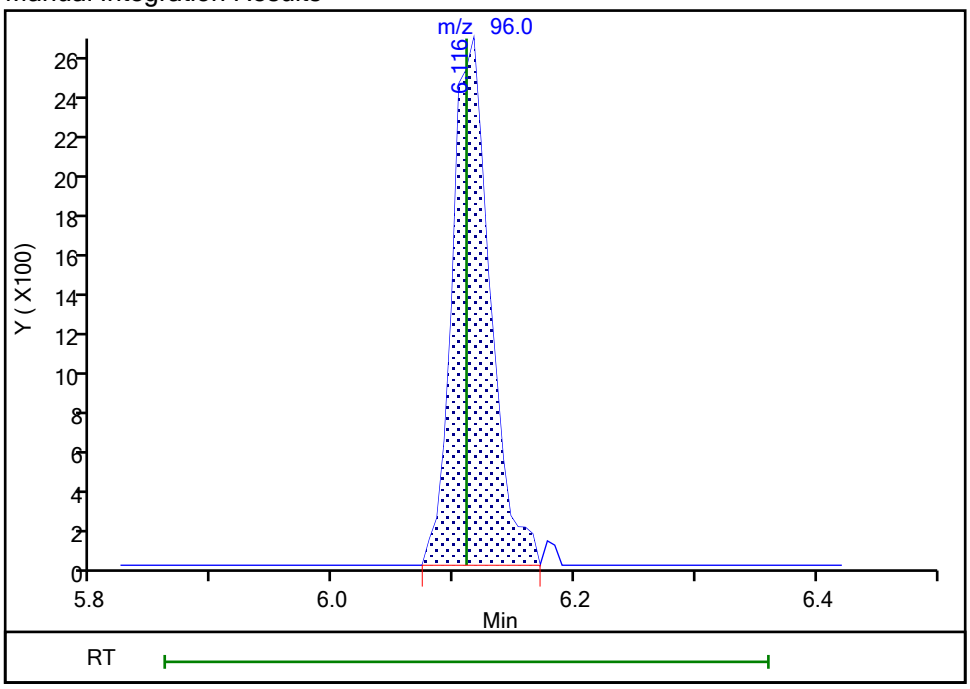
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5872
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:28:44
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

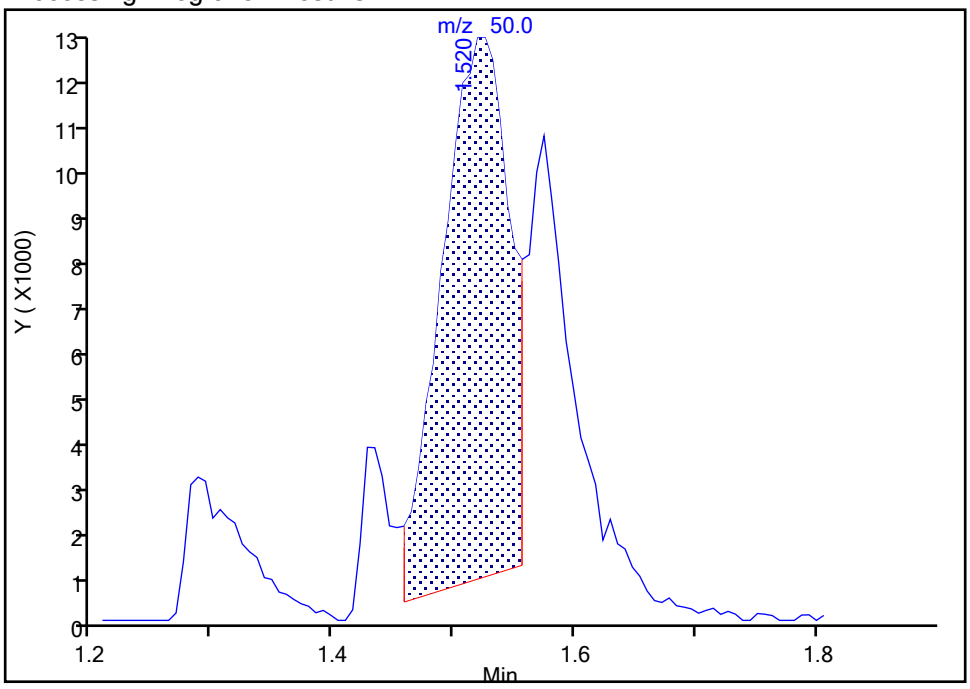
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8227.D
Injection Date: 18-Nov-2020 05:07:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

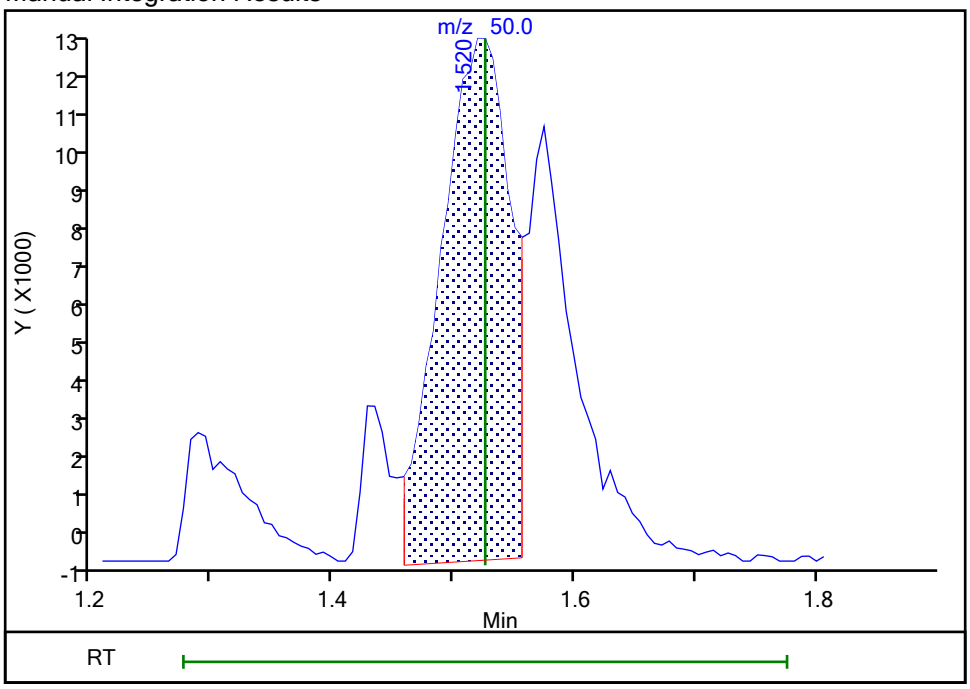
Processing Integration Results

RT: 1.52
Area: 44676
Amount: 16.366867
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 49471
Amount: 18.123495
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:28:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

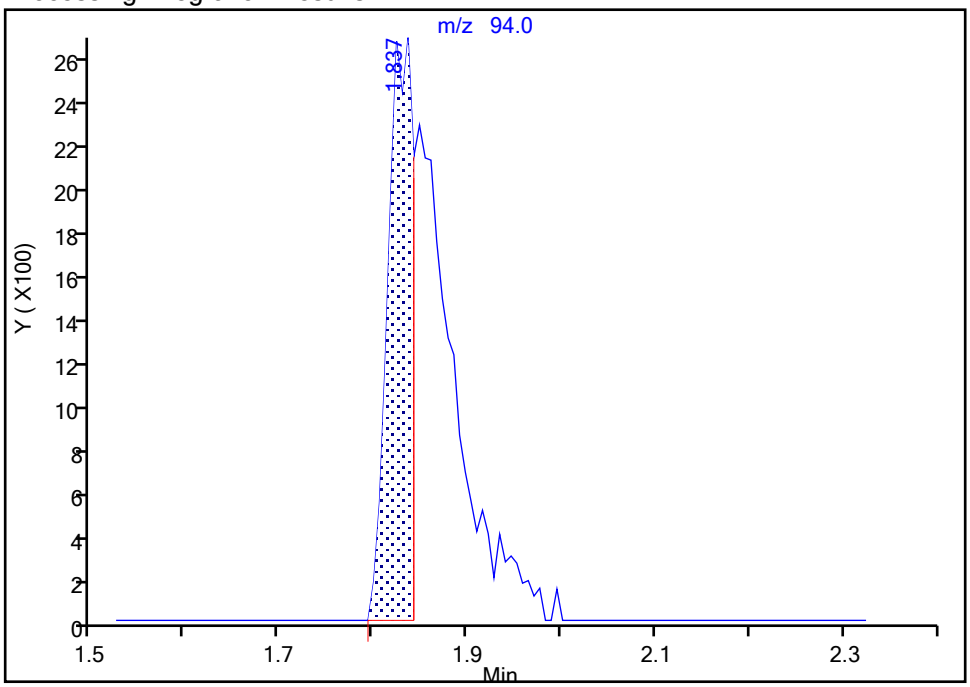
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8227.D
Injection Date: 18-Nov-2020 05:07:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

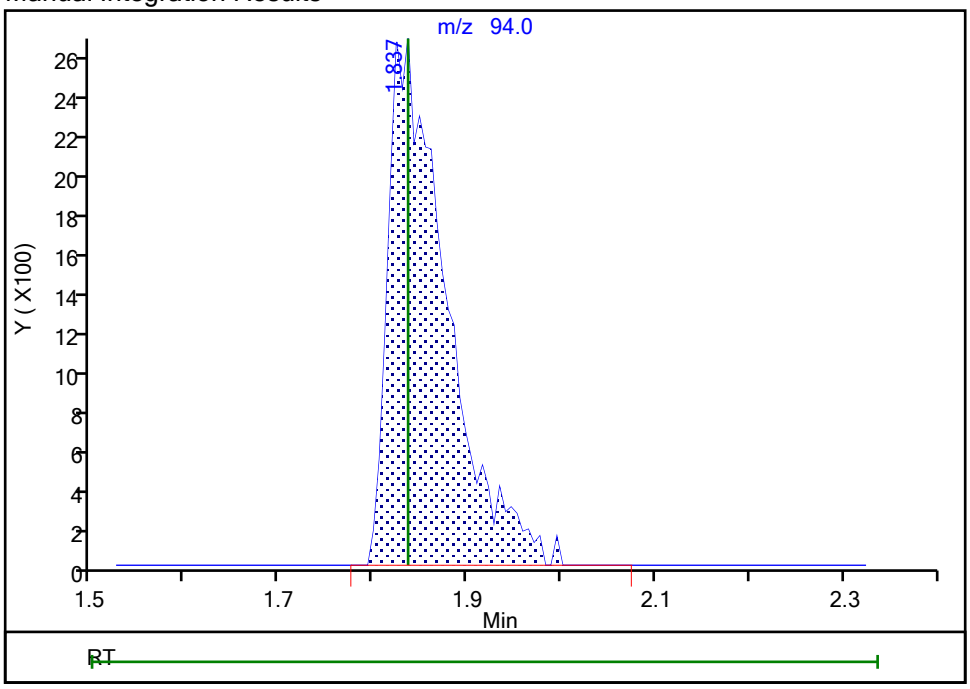
Processing Integration Results

RT: 1.84
Area: 5035
Amount: 5.726128
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 11560
Amount: 12.557882
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 05:28:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

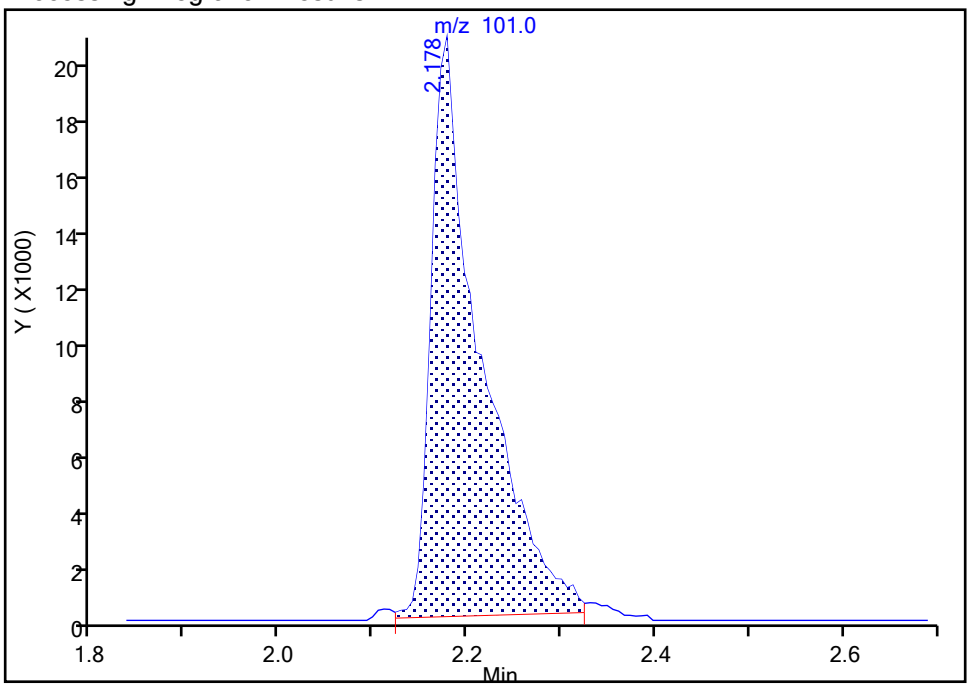
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8227.D
Injection Date: 18-Nov-2020 05:07:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

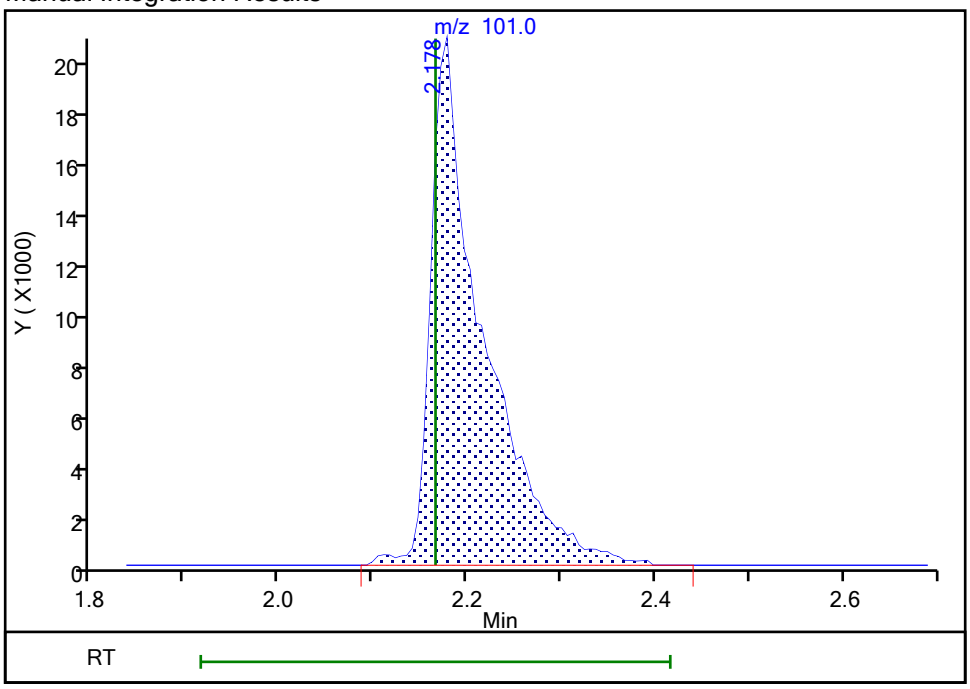
Processing Integration Results

RT: 2.18
Area: 73492
Amount: 16.652590
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 77493
Amount: 17.559178
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:09:19
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299509/31 Calibration Date: 11/18/2020 06:30

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c8230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	2.021		100	1000	7.0	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 06:30:30 ALS Bottle#: 8 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub43

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 06:50:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.385	0.024	0	322	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	96	185874	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	90	6706	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	135632	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.280	-0.006	57	64256	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	44570	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	180613	50.0	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	49752	50.0	47.3	
17 Ethanol	45	2.367	2.373	-0.006	99	31045	2000.0	1920.6	
18 Ethyl ether	59	2.464	2.465	-0.001	96	87798	50.0	55.9	
19 Acrolein	56	2.562	2.556	0.006	97	70966	238.2	296.9	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	93	106357	50.0	55.6	
21 112TCTFE	101	2.684	2.678	0.006	96	124294	50.0	65.5	
22 Acetone	43	2.714	2.715	0.000	98	57515	100.0	118.8	
23 Iodomethane	142	2.775	2.775	0.000	98	70016	50.0	40.0	
24 Carbon disulfide	76	2.842	2.843	-0.001	99	354751	50.0	62.7	
105 Isopropyl alcohol	45	2.885	2.885	0.000	95	38400	500.0	438.4	
118 Acetonitrile	40	2.958	2.964	-0.006	97	91930	500.0	512.0	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	66770	50.0	54.0	
26 Methyl acetate	43	3.038	3.038	0.000	99	146209	100.0	111.4	
27 Methylene Chloride	84	3.111	3.111	0.000	97	111930	50.0	49.4	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	94	49110	500.0	396.2	
30 Acrylonitrile	53	3.348	3.349	-0.001	98	365312	500.0	544.2	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	92	121355	50.0	55.6	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	99	279104	50.0	55.2	
31 Hexane	57	3.702	3.702	0.000	94	213616	50.0	72.2	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	235094	50.0	57.5	
33 Vinyl acetate	86	3.848	3.848	0.000	97	43866	100.0	108.3	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	96	275774	50.0	69.7	
36 Isopropyl ether	87	3.909	3.909	0.000	96	104669	50.0	52.6	
37 Tert-butyl ethyl ether	59	4.239	4.239	0.000	97	352624	50.0	55.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.330	4.324	0.006	84	178410	50.0	55.3	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	161166	50.0	64.6	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	85524	100.0	109.8	
41 Propionitrile	54	4.391	4.391	0.000	99	132857	500.0	497.7	
104 Ethyl acetate	61	4.428	4.428	0.000	99	29631	100.0	97.0	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	402387	500.0	508.2	
42 Chlorobromomethane	128	4.549	4.550	-0.001	93	49137	50.0	47.1	
44 Tetrahydrofuran	71	4.604	4.604	0.000	83	17604	100.0	95.0	
45 Chloroform	83	4.641	4.641	0.000	96	222464	50.0	52.0	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	97	209027	50.0	59.6	
47 Cyclohexane	56	4.866	4.867	-0.001	96	273241	50.0	65.3	
48 Carbon tetrachloride	117	4.970	4.970	0.000	97	175704	50.0	57.9	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	191730	50.0	58.4	
108 Isobutyl alcohol	43	5.116	5.116	0.000	94	68099	1250.0	1028.6	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	62	191445	50.0	63.0	
50 Benzene	78	5.177	5.177	0.000	97	514012	50.0	53.5	
116 n-Butanol	56	5.299	5.299	0.000	59	150529	1250.0	1612.3	
52 Tert-amyl methyl ether	73	5.311	5.312	-0.001	93	272853	50.0	47.3	
53 n-Heptane	43	5.476	5.476	0.000	96	199893	50.0	67.0	
54 Trichloroethene	95	5.805	5.805	0.000	96	134511	50.0	54.8	
117 Ethyl acrylate	55	5.933	5.939	-0.006	99	125303	50.0	54.0	
114 Methylcyclohexane	83	6.013	6.013	0.000	97	226320	50.0	56.1	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	127503	50.0	54.4	
56 Dibromomethane	93	6.122	6.122	0.000	95	61345	50.0	49.2	
115 1,4-Dioxane	58	6.165	6.159	0.006	31	13551	1000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	135146	100.0	101.2	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	153192	50.0	54.1	
106 2-Nitropropane	43	6.525	6.525	0.000	100	39100	100.0	95.0	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	93	67408	50.0	51.8	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	181312	50.0	53.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.933	0.006	99	190674	100.0	106.4	
62 Toluene	92	7.116	7.116	0.000	97	324701	50.0	49.7	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	156645	50.0	47.5	
64 Ethyl methacrylate	69	7.463	7.464	-0.001	92	121837	50.0	47.8	
65 1,1,2-Trichloroethane	83	7.531	7.531	0.000	95	75779	50.0	48.6	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	132253	50.0	49.2	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	167339	50.0	50.1	
68 2-Hexanone	43	7.817	7.823	-0.006	98	123874	100.0	105.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	98726	50.0	47.4	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	154396	50.0	50.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	90941	50.0	47.3	
71 Chlorobenzene	112	8.616	8.616	0.000	88	329245	50.0	48.4	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	92	105596	50.0	48.0	
73 Ethylbenzene	91	8.750	8.750	0.000	99	624836	50.0	52.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	230988	50.0	49.8	
75 o-Xylene	106	9.329	9.329	0.000	97	214733	50.0	48.7	
76 Styrene	104	9.347	9.347	0.000	91	346823	50.0	47.5	
77 Bromoform	173	9.530	9.530	0.000	93	49159	50.0	41.5	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	586332	50.0	51.1	
79 Bromobenzene	156	10.085	10.085	0.000	99	125260	50.0	45.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	94	102948	50.0	48.1	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	90	33189	50.0	46.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	76	32058	50.0	54.0	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	682919	50.0	51.7	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	398801	50.0	51.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	465739	50.0	51.1	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	460347	50.0	50.3	
87 tert-Butylbenzene	119	10.829	10.835	-0.006	93	387753	50.0	48.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	449887	50.0	47.7	
89 sec-Butylbenzene	105	11.091	11.097	-0.006	95	569978	50.0	50.5	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	230563	50.0	46.5	
91 4-Isopropyltoluene	119	11.274	11.280	-0.006	96	474250	50.0	49.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	232214	50.0	45.5	
110 1,2,3-Trimethylbenzene	105	11.383	11.384	-0.001	100	428139	50.0	47.0	
113 Benzyl chloride	126	11.475	11.475	0.000	99	28791	50.0	34.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	214426	50.0	44.7	
94 n-Butylbenzene	91	11.761	11.768	-0.007	98	420622	50.0	49.9	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	73	14390	50.0	47.1	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	119933	50.0	40.9	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	95	87913	50.0	35.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	57063	50.0	47.8	
98 Naphthalene	128	13.974	13.975	0.000	98	172996	50.0	32.4	
99 1,2,3-Trichlorobenzene	180	14.273	14.273	0.000	94	64283	50.0	32.9	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	120.2	
S 100 Xylenes, Total	1				0		100.0	98.5	
S 102 1,3-Dichloropropene, Total	1				0		100.0	101.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

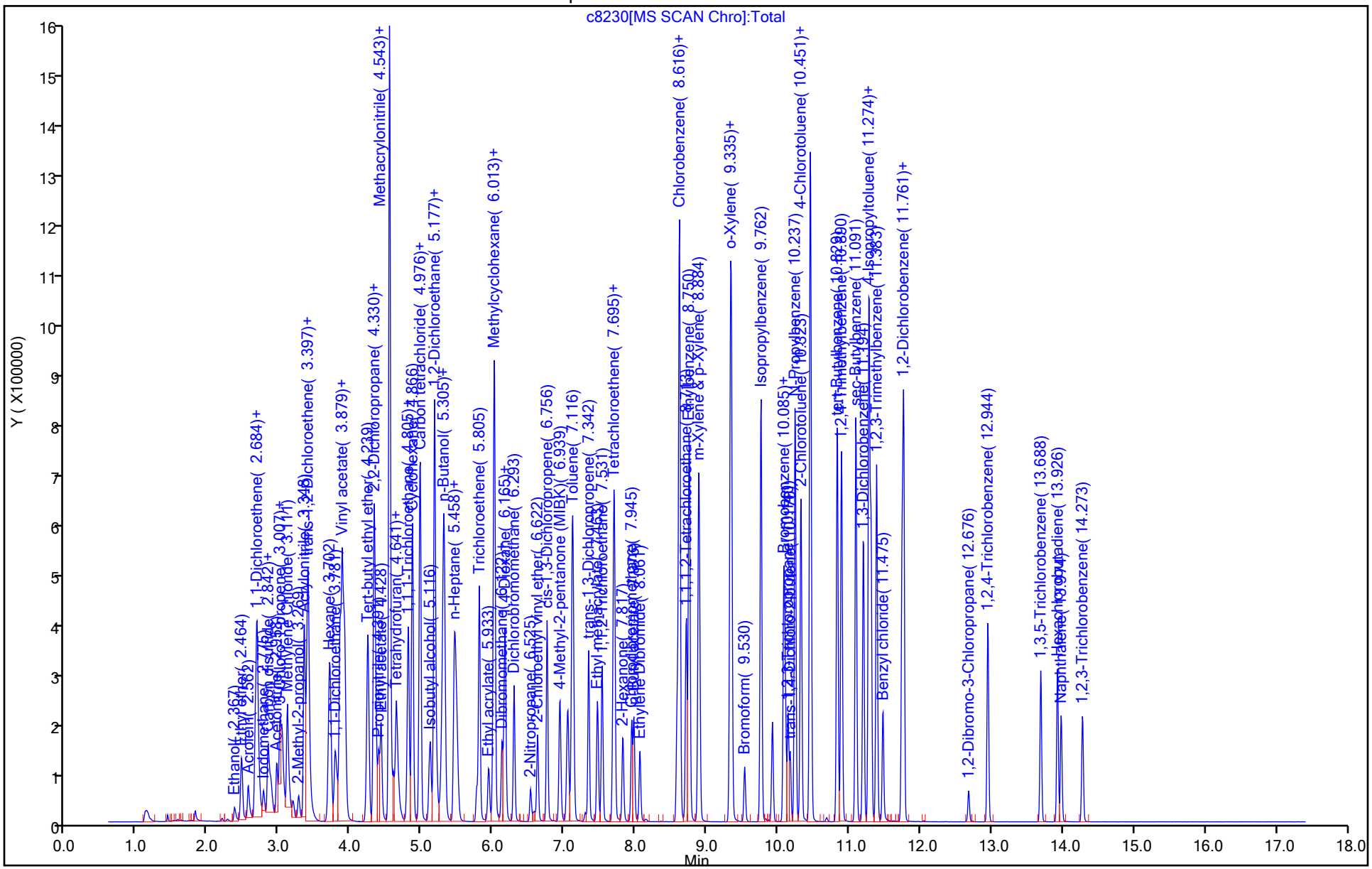
Reagents:

VV_I_MOSOL_00220	Amount Added: 10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D				
Injection Date:	18-Nov-2020 06:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	ccv			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299509/31 Calibration Date: 11/18/2020 06:30

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0042		1920	2000	-4.0	50.0
Diethyl ether	Ave	0.4227	0.4724		55.9	50.0	11.8	20.0
Acrolein	Ave	0.0643	0.0801		297	238	24.6	50.0
1,1-Dichloroethene	Ave	0.5143	0.5722	0.1000	55.6	50.0	11.3	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.5105	0.6687	0.1000	65.5	50.0	31.0*	20.0
Acetone	Lin1		0.1547	0.0500	119	100	18.8	50.0
Iodomethane	Ave	0.4705	0.3767		40.0	50.0	-19.9	50.0
Carbon disulfide	Ave	1.523	1.909	0.1000	62.7	50.0	25.3*	20.0
Isopropyl alcohol	Ave	0.0236	0.0207		438	500	-12.3	20.0
Acetonitrile	Ave	0.0483	0.0495		512	500	2.4	20.0
Allyl chloride	Ave	0.3323	0.3592		54.0	50.0	8.1	50.0
Methyl acetate	Ave	0.3531	0.3933	0.1000	111	100	11.4	20.0
Methylene Chloride	Ave	0.6089	0.6022	0.1000	49.4	50.0	-1.1	50.0
tert-Butanol	Ave	0.0333	0.0264		396	500	-20.8*	20.0
Acrylonitrile	Ave	0.1806	0.1965		544	500	8.8	50.0
trans-1,2-Dichloroethene	Ave	0.5867	0.6529	0.1000	55.6	50.0	11.3	20.0
Methyl tert-butyl ether	Ave	1.361	1.502	0.1000	55.2	50.0	10.3	20.0
Hexane	Ave	0.7956	1.149		72.2	50.0	44.5	50.0
1,1-Dichloroethane	Ave	1.100	1.265	0.2000	57.5	50.0	14.9	20.0
Vinyl acetate	Ave	0.1090	0.1180		108	100	8.3	50.0
Chloroprene	Ave	1.064	1.484		69.7	50.0	39.4*	20.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.5631		52.6	50.0	5.1	20.0
tert-Butyl ethyl ether	Ave	1.720	1.897		55.1	50.0	10.3	20.0
2,2-Dichloropropane	Ave	0.8681	0.9598		55.3	50.0	10.6	50.0
cis-1,2-Dichloroethene	Ave	0.6713	0.8671	0.1000	64.6	50.0	29.2*	20.0
2-Butanone (MEK)	Ave	0.2094	0.2301	0.0500	110	100	9.8	50.0
Propionitrile	Ave	0.0718	0.0715		498	500	-0.5	20.0
Ethyl acetate	Ave	0.0822	0.0797		97.0	100	-3.0	20.0
Methacrylonitrile	Ave	0.2130	0.2165		508	500	1.6	20.0
Bromochloromethane	Ave	0.2805	0.2644		47.1	50.0	-5.8	20.0
Tetrahydrofuran	Ave	0.0498	0.0474		95.0	100	-5.0	20.0
Chloroform	Ave	1.151	1.197	0.2000	52.0	50.0	4.0	20.0
1,1,1-Trichloroethane	Ave	0.9433	1.125	0.1000	59.6	50.0	19.2	20.0
Cyclohexane	Ave	1.125	1.470	0.1000	65.3	50.0	30.7*	20.0
Carbon tetrachloride	Ave	0.8162	0.9453	0.1000	57.9	50.0	15.8	20.0
1,1-Dichloropropene	Ave	0.8831	1.032		58.4	50.0	16.8	20.0
Isobutyl alcohol	Ave	0.0178	0.0147		1030	1250	-17.7	20.0
1,2-Dichloroethane	Ave	0.8176	1.030	0.1000	63.0	50.0	26.0*	20.0
Benzene	Ave	2.584	2.765	0.5000	53.5	50.0	7.0	20.0
n-Butanol	Ave	0.0251	0.0324		1610	1250	29.0*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299509/31 Calibration Date: 11/18/2020 06:30

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Amyl methyl ether	Ave	1.551	1.468		47.3	50.0	-5.3	20.0
Heptane	Ave	0.8031	1.075		67.0	50.0	33.9*	20.0
Trichloroethene	Ave	0.6604	0.7237	0.2000	54.8	50.0	9.6	20.0
Ethyl acrylate	Ave	0.6242	0.6741		54.0	50.0	8.0	20.0
Methylcyclohexane	Ave	1.084	1.218	0.1000	56.1	50.0	12.3	20.0
1,2-Dichloropropane	Ave	0.6310	0.6860	0.1000	54.4	50.0	8.7	20.0
Dibromomethane	Ave	0.3352	0.3300		49.2	50.0	-1.6	20.0
Methyl methacrylate	Ave	0.3591	0.3635		101	100	1.2	20.0
Dichlorobromomethane	Ave	0.7620	0.8242	0.2000	54.1	50.0	8.2	20.0
2-Nitropropane	Ave	0.1107	0.1052		95.0	100	-5.0	20.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3627		51.8	50.0	3.6	50.0
cis-1,3-Dichloropropene	Ave	0.9124	0.9755	0.2000	53.5	50.0	6.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.5129	0.1000	106	100	6.4	20.0
Toluene	Ave	1.757	1.747	0.4000	49.7	50.0	-0.6	20.0
trans-1,3-Dichloropropene	Lin1		0.8427	0.1000	47.5	50.0	-5.0	20.0
Ethyl methacrylate	Ave	0.6863	0.6555		47.8	50.0	-4.5	20.0
1,1,2-Trichloroethane	Ave	0.4195	0.4077	0.1000	48.6	50.0	-2.8	20.0
Tetrachloroethene	Ave	0.7237	0.7115	0.2000	49.2	50.0	-1.7	20.0
1,3-Dichloropropane	Ave	0.8991	0.9003		50.1	50.0	0.1	20.0
2-Hexanone	Ave	0.3151	0.3332	0.1000	106	100	5.8	20.0
Chlorodibromomethane	Ave	0.5599	0.5311	0.1000	47.4	50.0	-5.1	20.0
n-Butyl acetate	Ave	0.8257	0.8306		50.3	50.0	0.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.4893	0.1000	47.3	50.0	-5.4	20.0
Chlorobenzene	Ave	2.507	2.427	0.5000	48.4	50.0	-3.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7785		48.0	50.0	-4.0	20.0
Ethylbenzene	Ave	4.388	4.607	0.1000	52.5	50.0	5.0	20.0
m,p-Xylene	Ave	1.708	1.703	0.1000	49.8	50.0	-0.3	20.0
o-Xylene	Ave	1.626	1.583	0.3000	48.7	50.0	-2.6	20.0
Styrene	Ave	2.693	2.557	0.3000	47.5	50.0	-5.1	20.0
Bromoform	Ave	0.4364	0.3624	0.1000	41.5	50.0	-16.9	20.0
Isopropylbenzene	Ave	4.230	4.323	0.1000	51.1	50.0	2.2	20.0
Bromobenzene	Ave	1.026	0.9235		45.0	50.0	-10.0	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.7590	0.2000	48.1	50.0	-3.9	20.0
1,2,3-Trichloropropane	Ave	0.2632	0.2447		46.5	50.0	-7.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.2364		54.0	50.0	7.9	50.0
n-Propylbenzene	Ave	4.874	5.035		51.7	50.0	3.3	20.0
2-Chlorotoluene	Ave	2.855	2.940		51.5	50.0	3.0	20.0
4-Chlorotoluene	Ave	3.359	3.434		51.1	50.0	2.2	20.0
1,3,5-Trimethylbenzene	Ave	3.375	3.394		50.3	50.0	0.6	20.0
tert-Butylbenzene	Ave	2.925	2.859		48.9	50.0	-2.3	20.0
1,2,4-Trimethylbenzene	Ave	3.476	3.317		47.7	50.0	-4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299509/31 Calibration Date: 11/18/2020 06:30

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
sec-Butylbenzene	Ave	4.160	4.202		50.5	50.0	1.0	20.0
1,3-Dichlorobenzene	Ave	1.828	1.700	0.6000	46.5	50.0	-7.0	20.0
p-Isopropyltoluene	Ave	7.443	7.381		49.6	50.0	-0.8	20.0
1,4-Dichlorobenzene	Ave	3.970	3.614	0.5000	45.5	50.0	-9.0	20.0
1,2,3-Trimethylbenzene	Ave	7.081	6.663		47.0	50.0	-5.9	20.0
Benzyl chloride	Ave	0.6441	0.4481		34.8	50.0	-30.4*	20.0
1,2-Dichlorobenzene	Ave	3.736	3.337	0.4000	44.7	50.0	-10.7	20.0
n-Butylbenzene	Ave	6.554	6.546		49.9	50.0	-0.1	20.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2239	0.0500	47.1	50.0	-5.8	50.0
1,2,4-Trichlorobenzene	Ave	2.282	1.866	0.2000	40.9	50.0	-18.2	20.0
1,3,5-Trichlorobenzene	Ave	1.906	1.368		35.9	50.0	-28.2*	20.0
Hexachlorobutadiene	Ave	0.9282	0.8881		47.8	50.0	-4.3	50.0
Naphthalene	Ave	4.156	2.692		32.4	50.0	-35.2	50.0
1,2,3-Trichlorobenzene	Ave	1.521	1.000		32.9	50.0	-34.2	50.0

Report Date: 19-Nov-2020 06:54:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 06:30:30 ALS Bottle#: 8 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub43

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 06:50:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.385	0.024	0	322	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	96	185874	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	90	6706	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	135632	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.280	-0.006	57	64256	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	44570	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	180613	50.0	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	49752	50.0	47.3	
17 Ethanol	45	2.367	2.373	-0.006	99	31045	2000.0	1920.6	
18 Ethyl ether	59	2.464	2.465	-0.001	96	87798	50.0	55.9	
19 Acrolein	56	2.562	2.556	0.006	97	70966	238.2	296.9	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	93	106357	50.0	55.6	
21 112TCTFE	101	2.684	2.678	0.006	96	124294	50.0	65.5	
22 Acetone	43	2.714	2.715	0.000	98	57515	100.0	118.8	
23 Iodomethane	142	2.775	2.775	0.000	98	70016	50.0	40.0	
24 Carbon disulfide	76	2.842	2.843	-0.001	99	354751	50.0	62.7	
105 Isopropyl alcohol	45	2.885	2.885	0.000	95	38400	500.0	438.4	
118 Acetonitrile	40	2.958	2.964	-0.006	97	91930	500.0	512.0	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	66770	50.0	54.0	
26 Methyl acetate	43	3.038	3.038	0.000	99	146209	100.0	111.4	
27 Methylene Chloride	84	3.111	3.111	0.000	97	111930	50.0	49.4	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	94	49110	500.0	396.2	
30 Acrylonitrile	53	3.348	3.349	-0.001	98	365312	500.0	544.2	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	92	121355	50.0	55.6	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	99	279104	50.0	55.2	
31 Hexane	57	3.702	3.702	0.000	94	213616	50.0	72.2	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	235094	50.0	57.5	
33 Vinyl acetate	86	3.848	3.848	0.000	97	43866	100.0	108.3	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	96	275774	50.0	69.7	
36 Isopropyl ether	87	3.909	3.909	0.000	96	104669	50.0	52.6	
37 Tert-butyl ethyl ether	59	4.239	4.239	0.000	97	352624	50.0	55.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.330	4.324	0.006	84	178410	50.0	55.3	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	161166	50.0	64.6	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	85524	100.0	109.8	
41 Propionitrile	54	4.391	4.391	0.000	99	132857	500.0	497.7	
104 Ethyl acetate	61	4.428	4.428	0.000	99	29631	100.0	97.0	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	402387	500.0	508.2	
42 Chlorobromomethane	128	4.549	4.550	-0.001	93	49137	50.0	47.1	
44 Tetrahydrofuran	71	4.604	4.604	0.000	83	17604	100.0	95.0	
45 Chloroform	83	4.641	4.641	0.000	96	222464	50.0	52.0	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	97	209027	50.0	59.6	
47 Cyclohexane	56	4.866	4.867	-0.001	96	273241	50.0	65.3	
48 Carbon tetrachloride	117	4.970	4.970	0.000	97	175704	50.0	57.9	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	191730	50.0	58.4	
108 Isobutyl alcohol	43	5.116	5.116	0.000	94	68099	1250.0	1028.6	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	62	191445	50.0	63.0	
50 Benzene	78	5.177	5.177	0.000	97	514012	50.0	53.5	
116 n-Butanol	56	5.299	5.299	0.000	59	150529	1250.0	1612.3	
52 Tert-amyl methyl ether	73	5.311	5.312	-0.001	93	272853	50.0	47.3	
53 n-Heptane	43	5.476	5.476	0.000	96	199893	50.0	67.0	
54 Trichloroethene	95	5.805	5.805	0.000	96	134511	50.0	54.8	
117 Ethyl acrylate	55	5.933	5.939	-0.006	99	125303	50.0	54.0	
114 Methylcyclohexane	83	6.013	6.013	0.000	97	226320	50.0	56.1	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	127503	50.0	54.4	
56 Dibromomethane	93	6.122	6.122	0.000	95	61345	50.0	49.2	
115 1,4-Dioxane	58	6.165	6.159	0.006	31	13551	1000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	135146	100.0	101.2	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	153192	50.0	54.1	
106 2-Nitropropane	43	6.525	6.525	0.000	100	39100	100.0	95.0	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	93	67408	50.0	51.8	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	181312	50.0	53.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.933	0.006	99	190674	100.0	106.4	
62 Toluene	92	7.116	7.116	0.000	97	324701	50.0	49.7	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	156645	50.0	47.5	
64 Ethyl methacrylate	69	7.463	7.464	-0.001	92	121837	50.0	47.8	
65 1,1,2-Trichloroethane	83	7.531	7.531	0.000	95	75779	50.0	48.6	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	132253	50.0	49.2	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	167339	50.0	50.1	
68 2-Hexanone	43	7.817	7.823	-0.006	98	123874	100.0	105.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	98726	50.0	47.4	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	154396	50.0	50.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	90941	50.0	47.3	
71 Chlorobenzene	112	8.616	8.616	0.000	88	329245	50.0	48.4	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	92	105596	50.0	48.0	
73 Ethylbenzene	91	8.750	8.750	0.000	99	624836	50.0	52.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	230988	50.0	49.8	
75 o-Xylene	106	9.329	9.329	0.000	97	214733	50.0	48.7	
76 Styrene	104	9.347	9.347	0.000	91	346823	50.0	47.5	
77 Bromoform	173	9.530	9.530	0.000	93	49159	50.0	41.5	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	586332	50.0	51.1	
79 Bromobenzene	156	10.085	10.085	0.000	99	125260	50.0	45.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	94	102948	50.0	48.1	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	90	33189	50.0	46.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	76	32058	50.0	54.0	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	682919	50.0	51.7	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	398801	50.0	51.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	465739	50.0	51.1	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	460347	50.0	50.3	
87 tert-Butylbenzene	119	10.829	10.835	-0.006	93	387753	50.0	48.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	449887	50.0	47.7	
89 sec-Butylbenzene	105	11.091	11.097	-0.006	95	569978	50.0	50.5	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	230563	50.0	46.5	
91 4-Isopropyltoluene	119	11.274	11.280	-0.006	96	474250	50.0	49.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	232214	50.0	45.5	
110 1,2,3-Trimethylbenzene	105	11.383	11.384	-0.001	100	428139	50.0	47.0	
113 Benzyl chloride	126	11.475	11.475	0.000	99	28791	50.0	34.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	214426	50.0	44.7	
94 n-Butylbenzene	91	11.761	11.768	-0.007	98	420622	50.0	49.9	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	73	14390	50.0	47.1	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	119933	50.0	40.9	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	95	87913	50.0	35.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	57063	50.0	47.8	
98 Naphthalene	128	13.974	13.975	0.000	98	172996	50.0	32.4	
99 1,2,3-Trichlorobenzene	180	14.273	14.273	0.000	94	64283	50.0	32.9	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	120.2	
S 100 Xylenes, Total	1				0		100.0	98.5	
S 102 1,3-Dichloropropene, Total	1				0		100.0	101.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

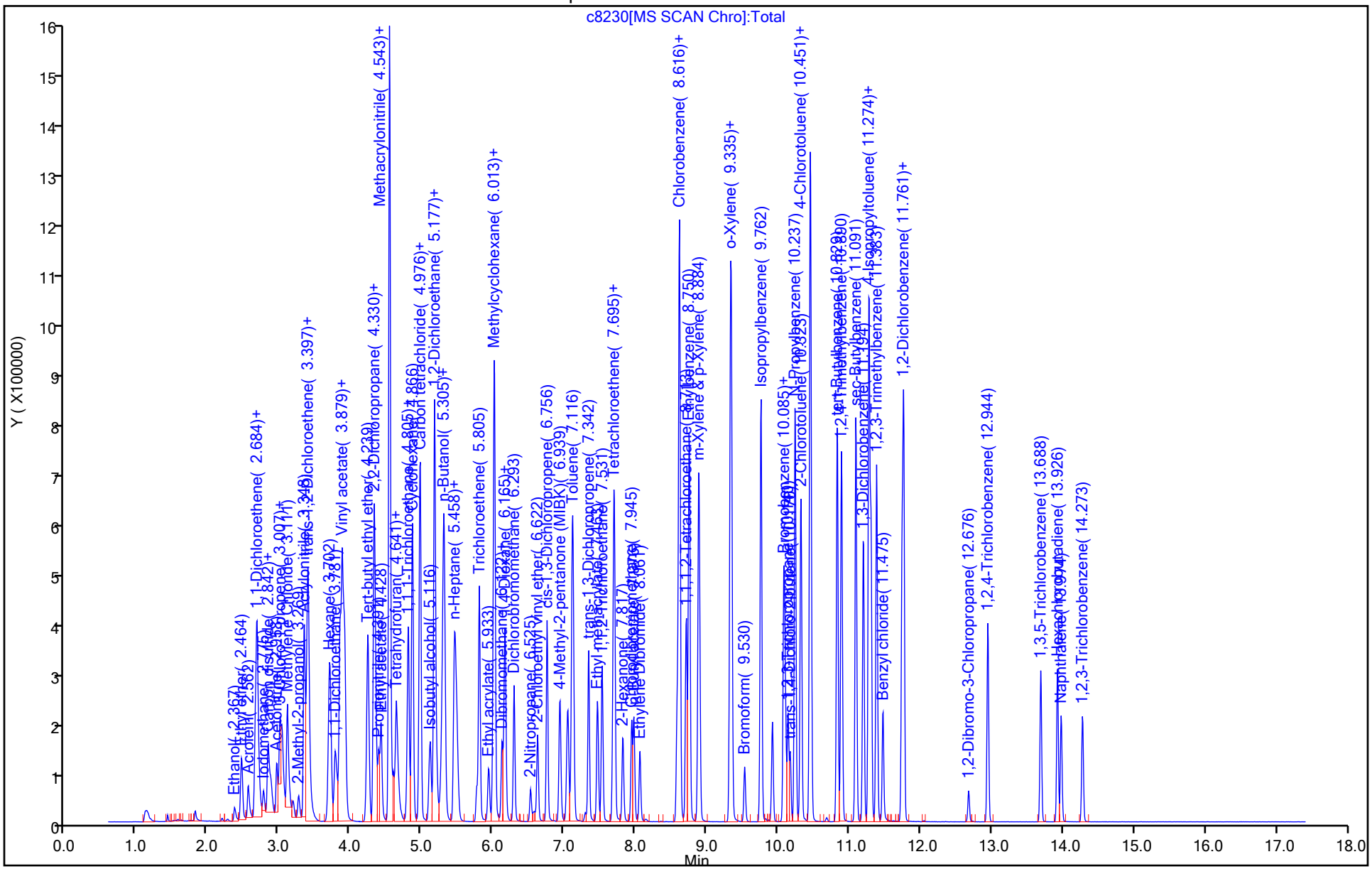
VV_I_MOSOL_00220	Amount Added: 10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D

Injection Date:	18-Nov-2020 06:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	ccv			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

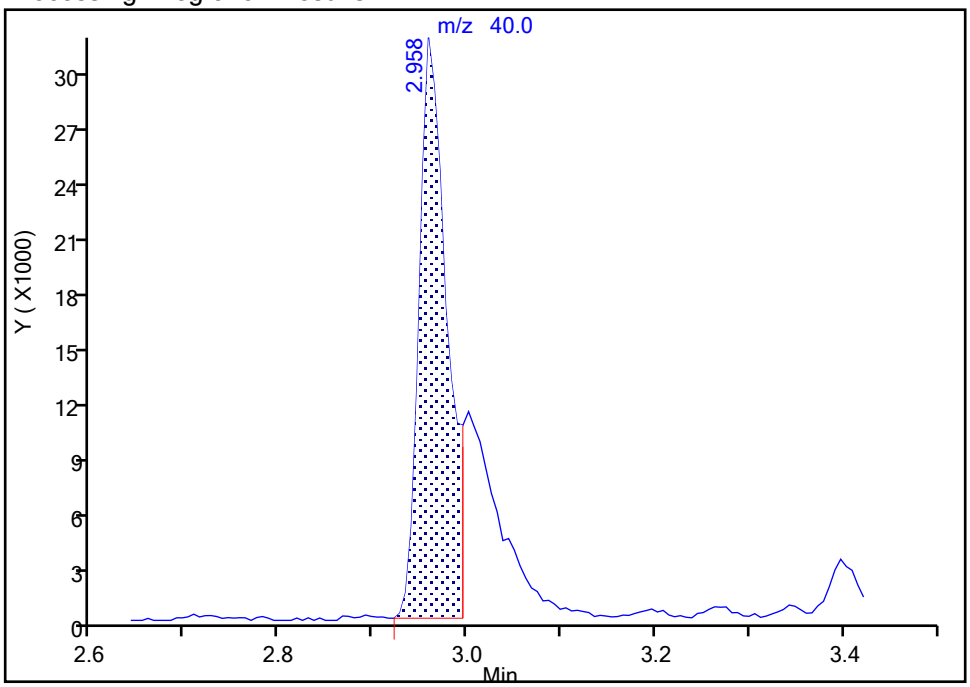
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D
Injection Date: 18-Nov-2020 06:30:30 Instrument ID: Calvin
Lims ID: ccv
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

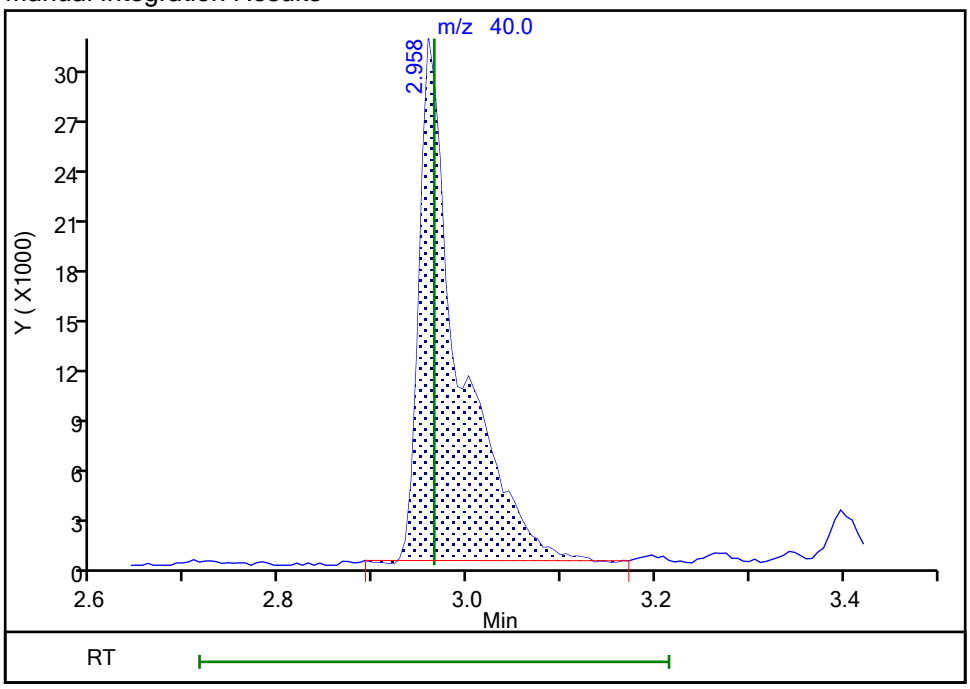
Processing Integration Results

RT: 2.96
Area: 65845
Amount: 366.7421
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 91930
Amount: 512.0298
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 06:50:15
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299509/31 Calibration Date: 11/18/2020 06:30

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2398		53.5	50.0	7.0	20.0
Toluene-d8 (Surr)	Ave	1.282	1.332		51.9	50.0	3.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7743		47.3	50.0	-5.3	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 06:30:30 ALS Bottle#: 8 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub43

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 06:50:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.385	0.024	0	322	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	96	185874	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	90	6706	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	135632	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.280	-0.006	57	64256	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	44570	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	180613	50.0	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	49752	50.0	47.3	
17 Ethanol	45	2.367	2.373	-0.006	99	31045	2000.0	1920.6	
18 Ethyl ether	59	2.464	2.465	-0.001	96	87798	50.0	55.9	
19 Acrolein	56	2.562	2.556	0.006	97	70966	238.2	296.9	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	93	106357	50.0	55.6	
21 112TCTFE	101	2.684	2.678	0.006	96	124294	50.0	65.5	
22 Acetone	43	2.714	2.715	0.000	98	57515	100.0	118.8	
23 Iodomethane	142	2.775	2.775	0.000	98	70016	50.0	40.0	
24 Carbon disulfide	76	2.842	2.843	-0.001	99	354751	50.0	62.7	
105 Isopropyl alcohol	45	2.885	2.885	0.000	95	38400	500.0	438.4	
118 Acetonitrile	40	2.958	2.964	-0.006	97	91930	500.0	512.0	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	66770	50.0	54.0	
26 Methyl acetate	43	3.038	3.038	0.000	99	146209	100.0	111.4	
27 Methylene Chloride	84	3.111	3.111	0.000	97	111930	50.0	49.4	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	94	49110	500.0	396.2	
30 Acrylonitrile	53	3.348	3.349	-0.001	98	365312	500.0	544.2	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	92	121355	50.0	55.6	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	99	279104	50.0	55.2	
31 Hexane	57	3.702	3.702	0.000	94	213616	50.0	72.2	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	235094	50.0	57.5	
33 Vinyl acetate	86	3.848	3.848	0.000	97	43866	100.0	108.3	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	96	275774	50.0	69.7	
36 Isopropyl ether	87	3.909	3.909	0.000	96	104669	50.0	52.6	
37 Tert-butyl ethyl ether	59	4.239	4.239	0.000	97	352624	50.0	55.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.330	4.324	0.006	84	178410	50.0	55.3	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	161166	50.0	64.6	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	85524	100.0	109.8	
41 Propionitrile	54	4.391	4.391	0.000	99	132857	500.0	497.7	
104 Ethyl acetate	61	4.428	4.428	0.000	99	29631	100.0	97.0	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	402387	500.0	508.2	
42 Chlorobromomethane	128	4.549	4.550	-0.001	93	49137	50.0	47.1	
44 Tetrahydrofuran	71	4.604	4.604	0.000	83	17604	100.0	95.0	
45 Chloroform	83	4.641	4.641	0.000	96	222464	50.0	52.0	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	97	209027	50.0	59.6	
47 Cyclohexane	56	4.866	4.867	-0.001	96	273241	50.0	65.3	
48 Carbon tetrachloride	117	4.970	4.970	0.000	97	175704	50.0	57.9	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	191730	50.0	58.4	
108 Isobutyl alcohol	43	5.116	5.116	0.000	94	68099	1250.0	1028.6	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	62	191445	50.0	63.0	
50 Benzene	78	5.177	5.177	0.000	97	514012	50.0	53.5	
116 n-Butanol	56	5.299	5.299	0.000	59	150529	1250.0	1612.3	
52 Tert-amyl methyl ether	73	5.311	5.312	-0.001	93	272853	50.0	47.3	
53 n-Heptane	43	5.476	5.476	0.000	96	199893	50.0	67.0	
54 Trichloroethene	95	5.805	5.805	0.000	96	134511	50.0	54.8	
117 Ethyl acrylate	55	5.933	5.939	-0.006	99	125303	50.0	54.0	
114 Methylcyclohexane	83	6.013	6.013	0.000	97	226320	50.0	56.1	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	127503	50.0	54.4	
56 Dibromomethane	93	6.122	6.122	0.000	95	61345	50.0	49.2	
115 1,4-Dioxane	58	6.165	6.159	0.006	31	13551	1000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	135146	100.0	101.2	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	153192	50.0	54.1	
106 2-Nitropropane	43	6.525	6.525	0.000	100	39100	100.0	95.0	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	93	67408	50.0	51.8	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	181312	50.0	53.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.933	0.006	99	190674	100.0	106.4	
62 Toluene	92	7.116	7.116	0.000	97	324701	50.0	49.7	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	156645	50.0	47.5	
64 Ethyl methacrylate	69	7.463	7.464	-0.001	92	121837	50.0	47.8	
65 1,1,2-Trichloroethane	83	7.531	7.531	0.000	95	75779	50.0	48.6	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	132253	50.0	49.2	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	167339	50.0	50.1	
68 2-Hexanone	43	7.817	7.823	-0.006	98	123874	100.0	105.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	98726	50.0	47.4	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	154396	50.0	50.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	90941	50.0	47.3	
71 Chlorobenzene	112	8.616	8.616	0.000	88	329245	50.0	48.4	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	92	105596	50.0	48.0	
73 Ethylbenzene	91	8.750	8.750	0.000	99	624836	50.0	52.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	230988	50.0	49.8	
75 o-Xylene	106	9.329	9.329	0.000	97	214733	50.0	48.7	
76 Styrene	104	9.347	9.347	0.000	91	346823	50.0	47.5	
77 Bromoform	173	9.530	9.530	0.000	93	49159	50.0	41.5	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	586332	50.0	51.1	
79 Bromobenzene	156	10.085	10.085	0.000	99	125260	50.0	45.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	94	102948	50.0	48.1	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	90	33189	50.0	46.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	76	32058	50.0	54.0	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	682919	50.0	51.7	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	398801	50.0	51.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	465739	50.0	51.1	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	460347	50.0	50.3	
87 tert-Butylbenzene	119	10.829	10.835	-0.006	93	387753	50.0	48.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	449887	50.0	47.7	
89 sec-Butylbenzene	105	11.091	11.097	-0.006	95	569978	50.0	50.5	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	230563	50.0	46.5	
91 4-Isopropyltoluene	119	11.274	11.280	-0.006	96	474250	50.0	49.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	232214	50.0	45.5	
110 1,2,3-Trimethylbenzene	105	11.383	11.384	-0.001	100	428139	50.0	47.0	
113 Benzyl chloride	126	11.475	11.475	0.000	99	28791	50.0	34.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	214426	50.0	44.7	
94 n-Butylbenzene	91	11.761	11.768	-0.007	98	420622	50.0	49.9	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	73	14390	50.0	47.1	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	119933	50.0	40.9	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	95	87913	50.0	35.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	57063	50.0	47.8	
98 Naphthalene	128	13.974	13.975	0.000	98	172996	50.0	32.4	
99 1,2,3-Trichlorobenzene	180	14.273	14.273	0.000	94	64283	50.0	32.9	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	120.2	
S 100 Xylenes, Total	1				0		100.0	98.5	
S 102 1,3-Dichloropropene, Total	1				0		100.0	101.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

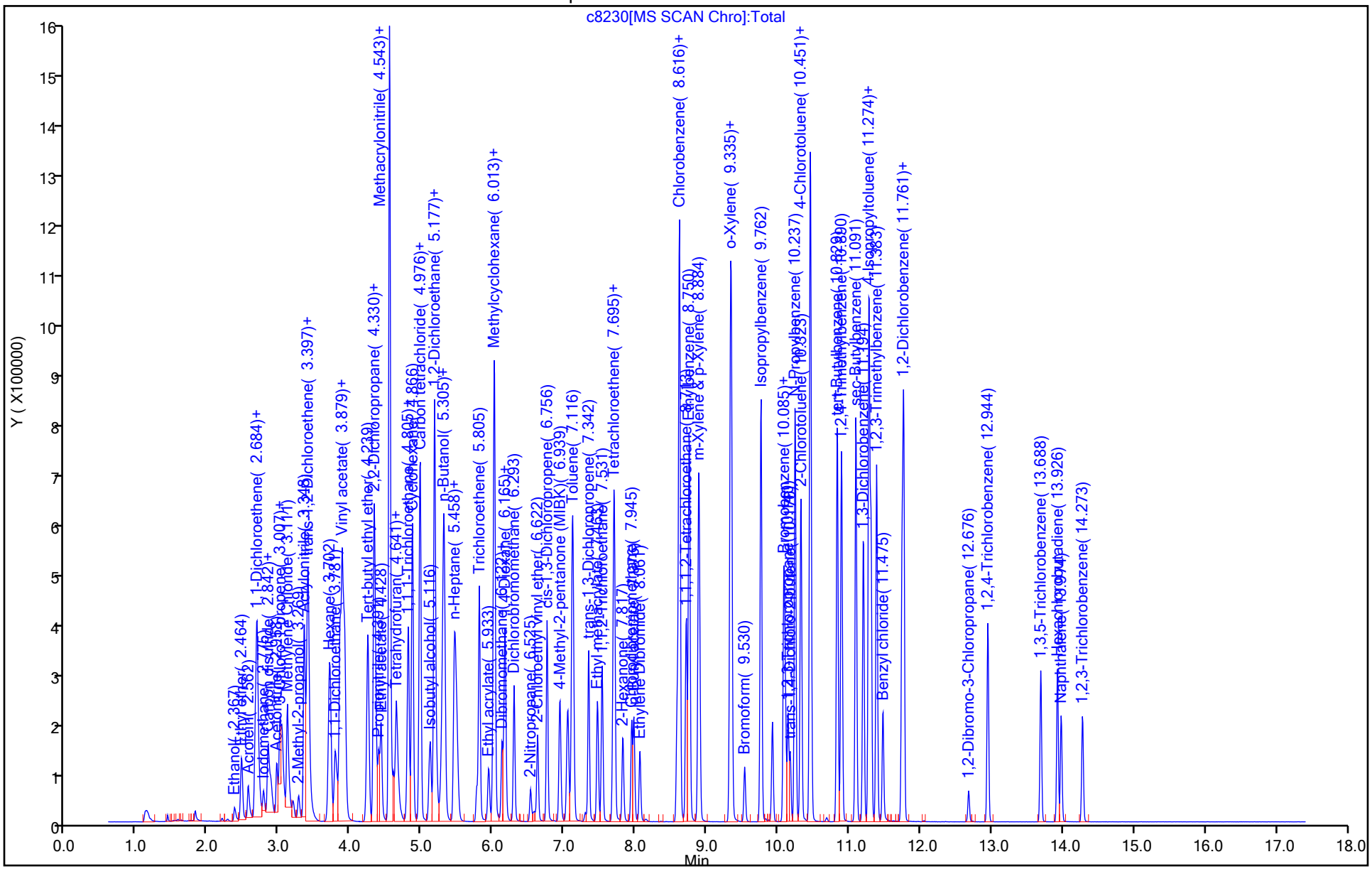
Reagents:

VV_I_MOSOL_00220	Amount Added: 10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8230.D				
Injection Date:	18-Nov-2020 06:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	ccv			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299697/4 Calibration Date: 11/18/2020 17:55

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c8258.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	2.136		100	1000	13.2	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 17:55:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-004
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:30 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:35:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.409	0.000	0	114	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	97	176716	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	28	6445	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	126245	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	58	61458	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	91	42941	50.0	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	170852	50.0	52.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	47479	50.0	47.2	
$ 8 BFB	95	9.920	9.920	0.000	81	65020	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	98	31449	2000.0	2046.4	
18 Ethyl ether	59	2.458	2.458	0.000	96	80461	50.0	53.9	
19 Acrolein	56	2.562	2.562	0.000	97	53397	238.2	235.0	
20 1,1-Dichloroethene	96	2.653	2.653	0.000	92	95173	50.0	52.4	
21 112TCTFE	101	2.672	2.672	0.000	98	108413	50.0	60.1	
22 Acetone	43	2.714	2.714	0.000	98	55518	100.0	120.6	
23 Iodomethane	142	2.775	2.775	0.000	98	60990	50.0	36.7	
24 Carbon disulfide	76	2.836	2.836	0.000	99	306685	50.0	57.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	40665	500.0	488.4	M
118 Acetonitrile	40	2.958	2.958	0.000	99	92300	500.0	540.7	
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	58384	50.0	49.7	
26 Methyl acetate	43	3.037	3.037	0.000	99	138333	100.0	110.8	
27 Methylene Chloride	84	3.111	3.111	0.000	97	103209	50.0	48.0	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	50358	500.0	427.3	
30 Acrylonitrile	53	3.348	3.348	0.000	99	366939	500.0	574.9	
28 trans-1,2-Dichloroethene	96	3.385	3.385	0.000	94	111666	50.0	53.9	
29 Methyl tert-butyl ether	73	3.397	3.397	0.000	98	268158	50.0	55.8	
31 Hexane	57	3.702	3.702	0.000	95	171037	50.0	60.8	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	98	214285	50.0	55.1	
33 Vinyl acetate	86	3.848	3.848	0.000	97	39704	100.0	103.1	
34 2-Chloro-1,3-butadiene	53	3.873	3.873	0.000	94	244848	50.0	65.1	
36 Isopropyl ether	87	3.909	3.909	0.000	97	99239	50.0	52.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	98	336085	50.0	55.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	82	135330	50.0	44.1	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	151637	50.0	63.9	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	85881	100.0	116.0	
41 Propionitrile	54	4.391	4.391	0.000	99	134830	500.0	531.3	
104 Ethyl acetate	61	4.421	4.421	0.000	99	29886	100.0	102.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	401173	500.0	532.9	
42 Chlorobromomethane	128	4.549	4.549	0.000	95	48300	50.0	48.7	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	17726	100.0	100.6	
45 Chloroform	83	4.641	4.641	0.000	96	207010	50.0	50.9	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	183510	50.0	55.0	
47 Cyclohexane	56	4.860	4.860	0.000	96	237527	50.0	59.7	
48 Carbon tetrachloride	117	4.964	4.964	0.000	86	154502	50.0	53.6	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	89	170147	50.0	54.5	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	72328	1250.0	1149.0	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	63	181684	50.0	62.9	
50 Benzene	78	5.177	5.177	0.000	97	474984	50.0	52.0	
116 n-Butanol	56	5.293	5.293	0.000	57	122642	1250.0	1381.7	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	92	260692	50.0	47.6	
53 n-Heptane	43	5.482	5.482	0.000	96	157684	50.0	55.6	
54 Trichloroethene	95	5.805	5.805	0.000	96	123994	50.0	53.1	
117 Ethyl acrylate	55	5.933	5.933	0.000	99	125020	50.0	56.7	
114 Methylcyclohexane	83	6.012	6.012	0.000	97	194869	50.0	50.8	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	87	118706	50.0	53.2	
56 Dibromomethane	93	6.122	6.122	0.000	95	59863	50.0	50.5	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	132232	100.0	104.2	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	13769	1000.0	0	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	145376	50.0	54.0	
106 2-Nitropropane	43	6.525	6.525	0.000	100	39536	100.0	101.1	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	66180	50.0	53.5	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	166203	50.0	51.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	194232	100.0	114.0	
62 Toluene	92	7.116	7.116	0.000	97	299261	50.0	48.2	
63 trans-1,3-Dichloropropene	75	7.341	7.341	0.000	99	143671	50.0	45.8	
64 Ethyl methacrylate	69	7.463	7.463	0.000	92	118097	50.0	48.7	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	94	75520	50.0	50.9	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	118990	50.0	46.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	164775	50.0	51.9	
68 2-Hexanone	43	7.823	7.823	0.000	98	125543	100.0	112.7	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	94510	50.0	47.8	
109 n-Butyl acetate	43	7.975	7.975	0.000	97	156094	50.0	53.5	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	88768	50.0	48.6	
71 Chlorobenzene	112	8.616	8.616	0.000	89	305220	50.0	48.2	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	92	100064	50.0	48.9	
73 Ethylbenzene	91	8.756	8.756	0.000	99	570788	50.0	51.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	209335	50.0	48.5	
75 o-Xylene	106	9.335	9.335	0.000	97	198547	50.0	48.4	
76 Styrene	104	9.347	9.347	0.000	92	321126	50.0	47.2	
77 Bromoform	173	9.530	9.530	0.000	93	48197	50.0	43.7	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	531073	50.0	49.7	
79 Bromobenzene	156	10.085	10.085	0.000	99	117833	50.0	45.5	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	100939	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	90	33331	50.0	50.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	78	28514	50.0	51.6	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	625352	50.0	50.8	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	368238	50.0	51.1	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	431766	50.0	50.9	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	419520	50.0	49.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	357251	50.0	48.4	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	416040	50.0	47.4	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	517422	50.0	49.3	
90 1,3-Dichlorobenzene	146	11.200	11.200	0.000	96	215844	50.0	46.8	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	430963	50.0	47.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	216975	50.0	44.5	
110 1,2,3-Trimethylbenzene	105	11.389	11.389	0.000	100	403826	50.0	46.4	
113 Benzyl chloride	126	11.475	11.475	0.000	99	20785	50.0	26.3	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	201826	50.0	43.9	
94 n-Butylbenzene	91	11.767	11.767	0.000	99	374121	50.0	46.4	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	82	15220	50.0	52.1	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	109430	50.0	39.0	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	83119	50.0	35.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	49533	50.0	43.4	
98 Naphthalene	128	13.980	13.980	0.000	98	175925	50.0	34.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	63567	50.0	34.0	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	117.8	
S 100 Xylenes, Total	1				0		100.0	96.9	
S 102 1,3-Dichloropropene, Total	1				0		100.0	97.4	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

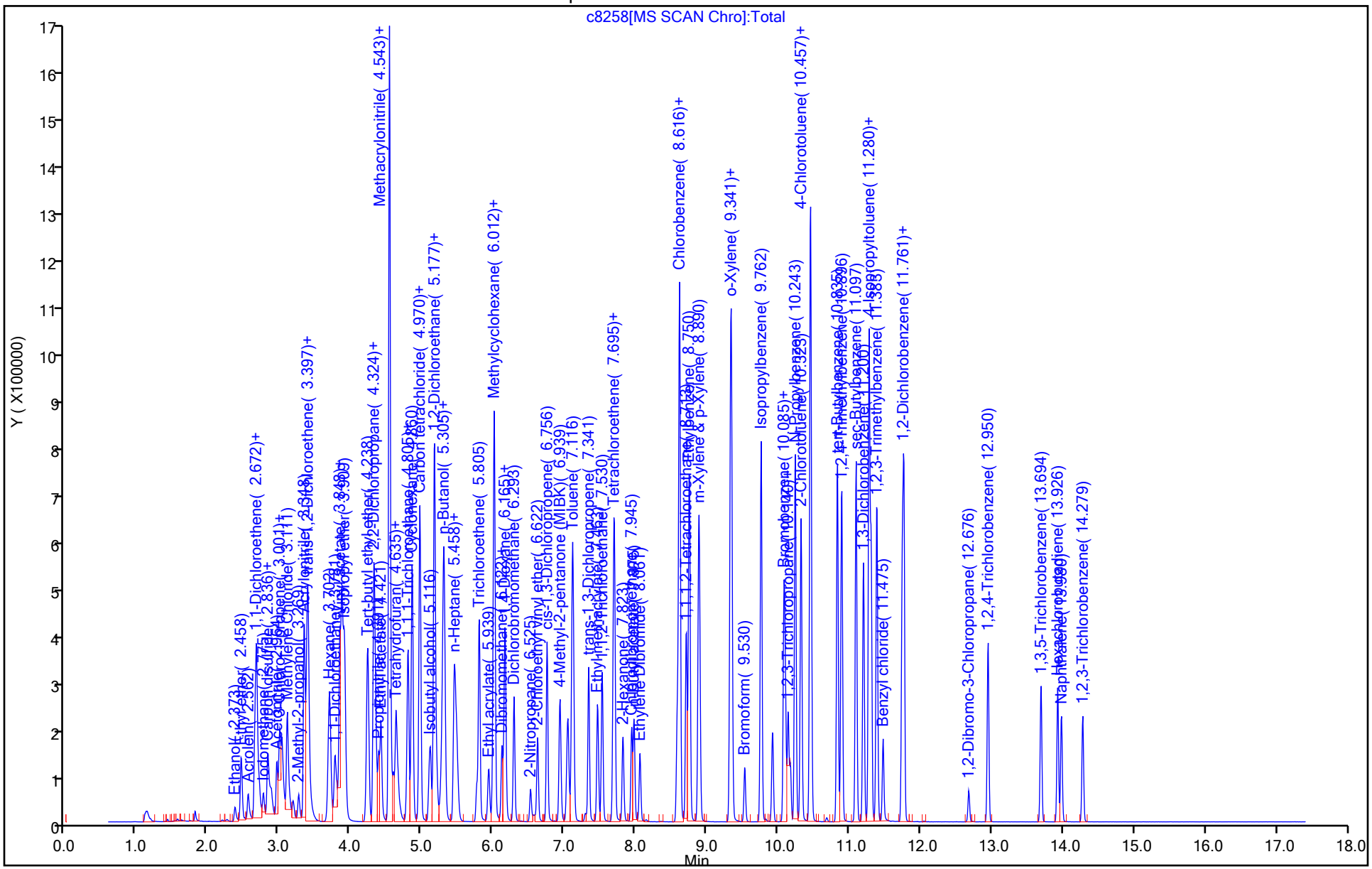
Reagents:

VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:15:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D				
Injection Date:	18-Nov-2020 17:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299697/4 Calibration Date: 11/18/2020 17:55

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8258.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0044		2050	2000	2.3	50.0
Diethyl ether	Ave	0.4227	0.4553		53.9	50.0	7.7	20.0
Acrolein	Ave	0.0643	0.0634		235	238	-1.4	50.0
1,1-Dichloroethene	Ave	0.5143	0.5386	0.1000	52.4	50.0	4.7	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.5105	0.6135	0.1000	60.1	50.0	20.2*	20.0
Acetone	Lin1		0.1571	0.0500	121	100	20.6	50.0
Iodomethane	Ave	0.4705	0.3451		36.7	50.0	-26.6	50.0
Carbon disulfide	Ave	1.523	1.735	0.1000	57.0	50.0	14.0	20.0
Isopropyl alcohol	Ave	0.0236	0.0230		488	500	-2.3	20.0
Acetonitrile	Ave	0.0483	0.0522		541	500	8.1	20.0
Allyl chloride	Ave	0.3323	0.3304		49.7	50.0	-0.6	50.0
Methyl acetate	Ave	0.3531	0.3914	0.1000	111	100	10.8	20.0
Methylene Chloride	Ave	0.6089	0.5840	0.1000	48.0	50.0	-4.1	50.0
tert-Butanol	Ave	0.0333	0.0285		427	500	-14.5	20.0
Acrylonitrile	Ave	0.1806	0.2076		575	500	15.0	50.0
trans-1,2-Dichloroethene	Ave	0.5867	0.6319	0.1000	53.9	50.0	7.7	20.0
Methyl tert-butyl ether	Ave	1.361	1.517	0.1000	55.8	50.0	11.5	20.0
Hexane	Ave	0.7956	0.9679		60.8	50.0	21.7	50.0
1,1-Dichloroethane	Ave	1.100	1.213	0.2000	55.1	50.0	10.2	20.0
Vinyl acetate	Ave	0.1090	0.1123		103	100	3.1	50.0
Chloroprene	Ave	1.064	1.386		65.1	50.0	30.2*	20.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.5616		52.4	50.0	4.8	20.0
tert-Butyl ethyl ether	Ave	1.720	1.902		55.3	50.0	10.6	20.0
2,2-Dichloropropane	Ave	0.8681	0.7658		44.1	50.0	-11.8	50.0
2-Butanone (MEK)	Ave	0.2094	0.2430	0.0500	116	100	16.0	50.0
Propionitrile	Ave	0.0718	0.0763		531	500	6.3	20.0
Ethyl acetate	Ave	0.0822	0.0846		103	100	2.9	20.0
Methacrylonitrile	Ave	0.2130	0.2270		533	500	6.6	20.0
Bromochloromethane	Ave	0.2805	0.2733		48.7	50.0	-2.6	20.0
Tetrahydrofuran	Ave	0.0498	0.0502		101	100	0.6	20.0
Chloroform	Ave	1.151	1.171	0.2000	50.9	50.0	1.8	20.0
1,1,1-Trichloroethane	Ave	0.9433	1.038	0.1000	55.0	50.0	10.1	20.0
Cyclohexane	Ave	1.125	1.344	0.1000	59.7	50.0	19.5	20.0
Carbon tetrachloride	Ave	0.8162	0.8743	0.1000	53.6	50.0	7.1	20.0
1,1-Dichloropropene	Ave	0.8831	0.9628		54.5	50.0	9.0	20.0
Isobutyl alcohol	Ave	0.0178	0.0164		1150	1250	-8.1	20.0
1,2-Dichloroethane	Ave	0.8176	1.028	0.1000	62.9	50.0	25.7*	20.0
Benzene	Ave	2.584	2.688	0.5000	52.0	50.0	4.0	20.0
n-Butanol	Ave	0.0251	0.0278		1380	1250	10.5	20.0
tert-Amyl methyl ether	Ave	1.551	1.475		47.6	50.0	-4.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299697/4 Calibration Date: 11/18/2020 17:55

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8258.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Ave	0.8031	0.8923		55.6	50.0	11.1	20.0
Trichloroethene	Ave	0.6604	0.7017	0.2000	53.1	50.0	6.2	20.0
Ethyl acrylate	Ave	0.6242	0.7075		56.7	50.0	13.3	20.0
Methylcyclohexane	Ave	1.084	1.103	0.1000	50.8	50.0	1.7	20.0
1,2-Dichloropropane	Ave	0.6310	0.6717	0.1000	53.2	50.0	6.5	20.0
Dibromomethane	Ave	0.3352	0.3388		50.5	50.0	1.0	20.0
Methyl methacrylate	Ave	0.3591	0.3741		104	100	4.2	20.0
Dichlorobromomethane	Ave	0.7620	0.8227	0.2000	54.0	50.0	8.0	20.0
2-Nitropropane	Ave	0.1107	0.1119		101	100	1.1	20.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3745		53.5	50.0	7.0	50.0
cis-1,3-Dichloropropene	Ave	0.9124	0.9405	0.2000	51.5	50.0	3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.5496	0.1000	114	100	14.0	20.0
Toluene	Ave	1.757	1.693	0.4000	48.2	50.0	-3.6	20.0
trans-1,3-Dichloropropene	Lin1		0.8130	0.1000	45.8	50.0	-8.3	20.0
Ethyl methacrylate	Ave	0.6863	0.6683		48.7	50.0	-2.6	20.0
1,1,2-Trichloroethane	Ave	0.4195	0.4274	0.1000	50.9	50.0	1.9	20.0
Tetrachloroethene	Ave	0.7237	0.6733	0.2000	46.5	50.0	-7.0	20.0
1,3-Dichloropropane	Ave	0.8991	0.9324		51.9	50.0	3.7	20.0
2-Hexanone	Ave	0.3151	0.3552	0.1000	113	100	12.7	20.0
Chlorodibromomethane	Ave	0.5599	0.5348	0.1000	47.8	50.0	-4.5	20.0
n-Butyl acetate	Ave	0.8257	0.8833		53.5	50.0	7.0	20.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.5023	0.1000	48.6	50.0	-2.9	20.0
Chlorobenzene	Ave	2.507	2.418	0.5000	48.2	50.0	-3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7926		48.9	50.0	-2.2	20.0
Ethylbenzene	Ave	4.388	4.521	0.1000	51.5	50.0	3.0	20.0
m,p-Xylene	Ave	1.708	1.658	0.1000	48.5	50.0	-2.9	20.0
o-Xylene	Ave	1.626	1.573	0.3000	48.4	50.0	-3.3	20.0
Styrene	Ave	2.693	2.544	0.3000	47.2	50.0	-5.6	20.0
Bromoform	Ave	0.4364	0.3818	0.1000	43.7	50.0	-12.5	20.0
Isopropylbenzene	Ave	4.230	4.207	0.1000	49.7	50.0	-0.5	20.0
Bromobenzene	Ave	1.026	0.9334		45.5	50.0	-9.0	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.7995	0.2000	50.6	50.0	1.2	20.0
1,2,3-Trichloropropane	Ave	0.2632	0.2640		50.2	50.0	0.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.2259		51.6	50.0	3.2	50.0
n-Propylbenzene	Ave	4.874	4.953		50.8	50.0	1.6	20.0
2-Chlorotoluene	Ave	2.855	2.917		51.1	50.0	2.2	20.0
4-Chlorotoluene	Ave	3.359	3.420		50.9	50.0	1.8	20.0
1,3,5-Trimethylbenzene	Ave	3.375	3.323		49.2	50.0	-1.5	20.0
tert-Butylbenzene	Ave	2.925	2.830		48.4	50.0	-3.3	20.0
1,2,4-Trimethylbenzene	Ave	3.476	3.295		47.4	50.0	-5.2	20.0
sec-Butylbenzene	Ave	4.160	4.099		49.3	50.0	-1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299697/4 Calibration Date: 11/18/2020 17:55

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8258.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichlorobenzene	Ave	1.828	1.710	0.6000	46.8	50.0	-6.5	20.0
p-Isopropyltoluene	Ave	7.443	7.012		47.1	50.0	-5.8	20.0
1,4-Dichlorobenzene	Ave	3.970	3.530	0.5000	44.5	50.0	-11.1	20.0
1,2,3-Trimethylbenzene	Ave	7.081	6.571		46.4	50.0	-7.2	20.0
Benzyl chloride	Ave	0.6441	0.3382		26.3	50.0	-47.5*	20.0
1,2-Dichlorobenzene	Ave	3.736	3.284	0.4000	43.9	50.0	-12.1	20.0
n-Butylbenzene	Ave	6.554	6.087		46.4	50.0	-7.1	20.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2476	0.0500	52.1	50.0	4.1	50.0
1,2,4-Trichlorobenzene	Ave	2.282	1.781	0.2000	39.0	50.0	-22.0*	20.0
1,3,5-Trichlorobenzene	Ave	1.906	1.352		35.5	50.0	-29.0*	20.0
Hexachlorobutadiene	Ave	0.9282	0.8060		43.4	50.0	-13.2	50.0
Naphthalene	Ave	4.156	2.863		34.4	50.0	-31.1	50.0
1,2,3-Trichlorobenzene	Ave	1.521	1.034		34.0	50.0	-32.0	50.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 17:55:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-004
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:30 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:35:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.409	0.000	0	114	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	97	176716	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	28	6445	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	126245	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	58	61458	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	91	42941	50.0	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	170852	50.0	52.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	47479	50.0	47.2	
$ 8 BFB	95	9.920	9.920	0.000	81	65020	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	98	31449	2000.0	2046.4	
18 Ethyl ether	59	2.458	2.458	0.000	96	80461	50.0	53.9	
19 Acrolein	56	2.562	2.562	0.000	97	53397	238.2	235.0	
20 1,1-Dichloroethene	96	2.653	2.653	0.000	92	95173	50.0	52.4	
21 112TCTFE	101	2.672	2.672	0.000	98	108413	50.0	60.1	
22 Acetone	43	2.714	2.714	0.000	98	55518	100.0	120.6	
23 Iodomethane	142	2.775	2.775	0.000	98	60990	50.0	36.7	
24 Carbon disulfide	76	2.836	2.836	0.000	99	306685	50.0	57.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	40665	500.0	488.4	M
118 Acetonitrile	40	2.958	2.958	0.000	99	92300	500.0	540.7	
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	58384	50.0	49.7	
26 Methyl acetate	43	3.037	3.037	0.000	99	138333	100.0	110.8	
27 Methylene Chloride	84	3.111	3.111	0.000	97	103209	50.0	48.0	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	50358	500.0	427.3	
30 Acrylonitrile	53	3.348	3.348	0.000	99	366939	500.0	574.9	
28 trans-1,2-Dichloroethene	96	3.385	3.385	0.000	94	111666	50.0	53.9	
29 Methyl tert-butyl ether	73	3.397	3.397	0.000	98	268158	50.0	55.8	
31 Hexane	57	3.702	3.702	0.000	95	171037	50.0	60.8	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	98	214285	50.0	55.1	
33 Vinyl acetate	86	3.848	3.848	0.000	97	39704	100.0	103.1	
34 2-Chloro-1,3-butadiene	53	3.873	3.873	0.000	94	244848	50.0	65.1	
36 Isopropyl ether	87	3.909	3.909	0.000	97	99239	50.0	52.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	98	336085	50.0	55.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	82	135330	50.0	44.1	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	151637	50.0	63.9	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	85881	100.0	116.0	
41 Propionitrile	54	4.391	4.391	0.000	99	134830	500.0	531.3	
104 Ethyl acetate	61	4.421	4.421	0.000	99	29886	100.0	102.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	401173	500.0	532.9	
42 Chlorobromomethane	128	4.549	4.549	0.000	95	48300	50.0	48.7	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	17726	100.0	100.6	
45 Chloroform	83	4.641	4.641	0.000	96	207010	50.0	50.9	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	183510	50.0	55.0	
47 Cyclohexane	56	4.860	4.860	0.000	96	237527	50.0	59.7	
48 Carbon tetrachloride	117	4.964	4.964	0.000	86	154502	50.0	53.6	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	89	170147	50.0	54.5	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	72328	1250.0	1149.0	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	63	181684	50.0	62.9	
50 Benzene	78	5.177	5.177	0.000	97	474984	50.0	52.0	
116 n-Butanol	56	5.293	5.293	0.000	57	122642	1250.0	1381.7	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	92	260692	50.0	47.6	
53 n-Heptane	43	5.482	5.482	0.000	96	157684	50.0	55.6	
54 Trichloroethene	95	5.805	5.805	0.000	96	123994	50.0	53.1	
117 Ethyl acrylate	55	5.933	5.933	0.000	99	125020	50.0	56.7	
114 Methylcyclohexane	83	6.012	6.012	0.000	97	194869	50.0	50.8	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	87	118706	50.0	53.2	
56 Dibromomethane	93	6.122	6.122	0.000	95	59863	50.0	50.5	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	132232	100.0	104.2	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	13769	1000.0	0	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	145376	50.0	54.0	
106 2-Nitropropane	43	6.525	6.525	0.000	100	39536	100.0	101.1	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	66180	50.0	53.5	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	166203	50.0	51.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	194232	100.0	114.0	
62 Toluene	92	7.116	7.116	0.000	97	299261	50.0	48.2	
63 trans-1,3-Dichloropropene	75	7.341	7.341	0.000	99	143671	50.0	45.8	
64 Ethyl methacrylate	69	7.463	7.463	0.000	92	118097	50.0	48.7	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	94	75520	50.0	50.9	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	118990	50.0	46.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	164775	50.0	51.9	
68 2-Hexanone	43	7.823	7.823	0.000	98	125543	100.0	112.7	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	94510	50.0	47.8	
109 n-Butyl acetate	43	7.975	7.975	0.000	97	156094	50.0	53.5	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	88768	50.0	48.6	
71 Chlorobenzene	112	8.616	8.616	0.000	89	305220	50.0	48.2	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	92	100064	50.0	48.9	
73 Ethylbenzene	91	8.756	8.756	0.000	99	570788	50.0	51.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	209335	50.0	48.5	
75 o-Xylene	106	9.335	9.335	0.000	97	198547	50.0	48.4	
76 Styrene	104	9.347	9.347	0.000	92	321126	50.0	47.2	
77 Bromoform	173	9.530	9.530	0.000	93	48197	50.0	43.7	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	531073	50.0	49.7	
79 Bromobenzene	156	10.085	10.085	0.000	99	117833	50.0	45.5	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	100939	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	90	33331	50.0	50.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	78	28514	50.0	51.6	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	625352	50.0	50.8	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	368238	50.0	51.1	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	431766	50.0	50.9	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	419520	50.0	49.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	357251	50.0	48.4	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	416040	50.0	47.4	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	517422	50.0	49.3	
90 1,3-Dichlorobenzene	146	11.200	11.200	0.000	96	215844	50.0	46.8	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	430963	50.0	47.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	216975	50.0	44.5	
110 1,2,3-Trimethylbenzene	105	11.389	11.389	0.000	100	403826	50.0	46.4	
113 Benzyl chloride	126	11.475	11.475	0.000	99	20785	50.0	26.3	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	201826	50.0	43.9	
94 n-Butylbenzene	91	11.767	11.767	0.000	99	374121	50.0	46.4	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	82	15220	50.0	52.1	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	109430	50.0	39.0	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	83119	50.0	35.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	49533	50.0	43.4	
98 Naphthalene	128	13.980	13.980	0.000	98	175925	50.0	34.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	63567	50.0	34.0	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	117.8	
S 100 Xylenes, Total	1				0		100.0	96.9	
S 102 1,3-Dichloropropene, Total	1				0		100.0	97.4	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

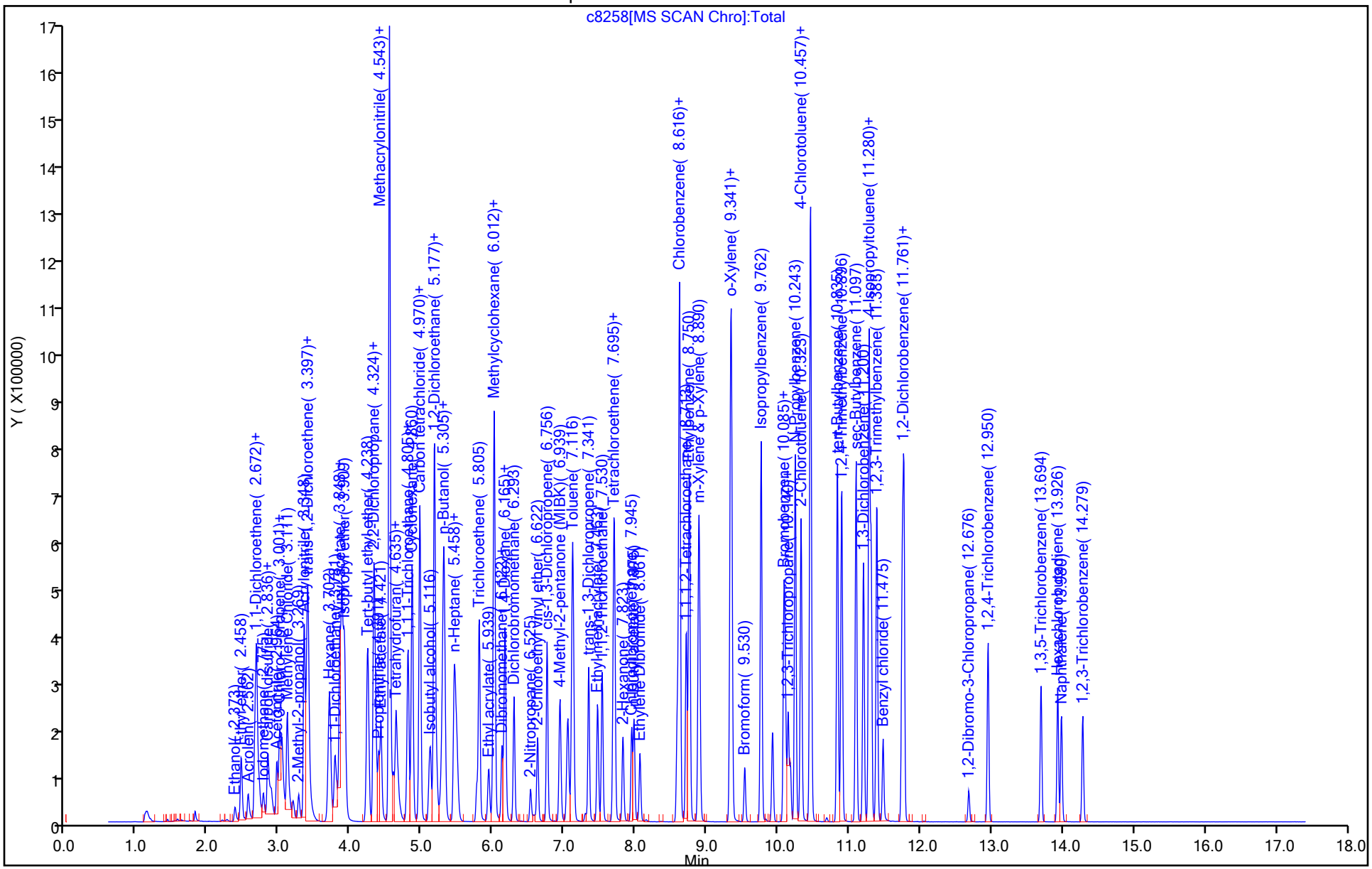
Reagents:

VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:15:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D				
Injection Date:	18-Nov-2020 17:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

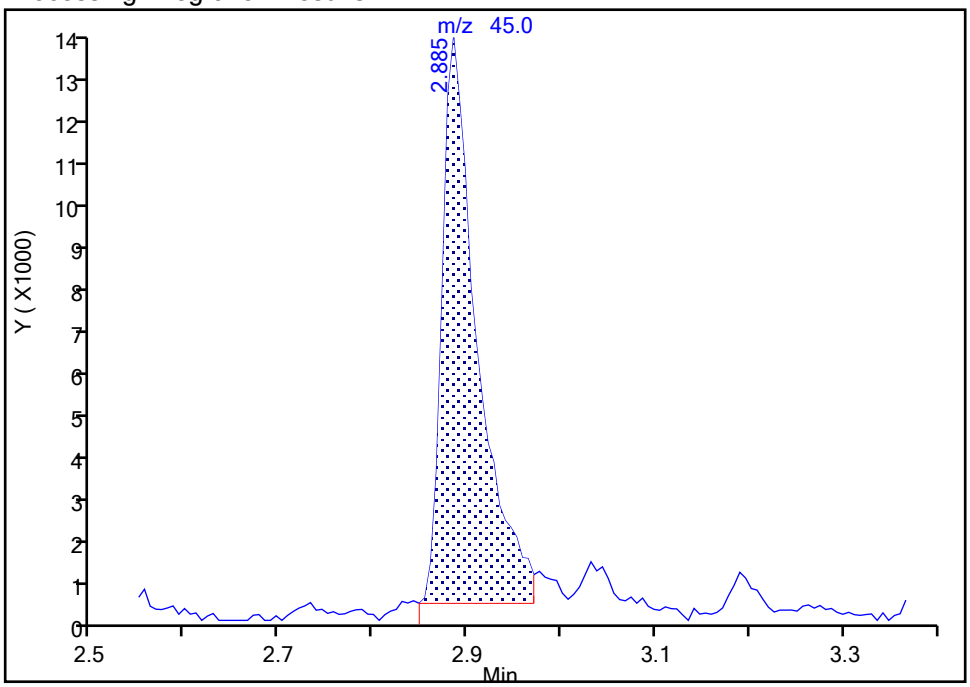
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D
Injection Date: 18-Nov-2020 17:55:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

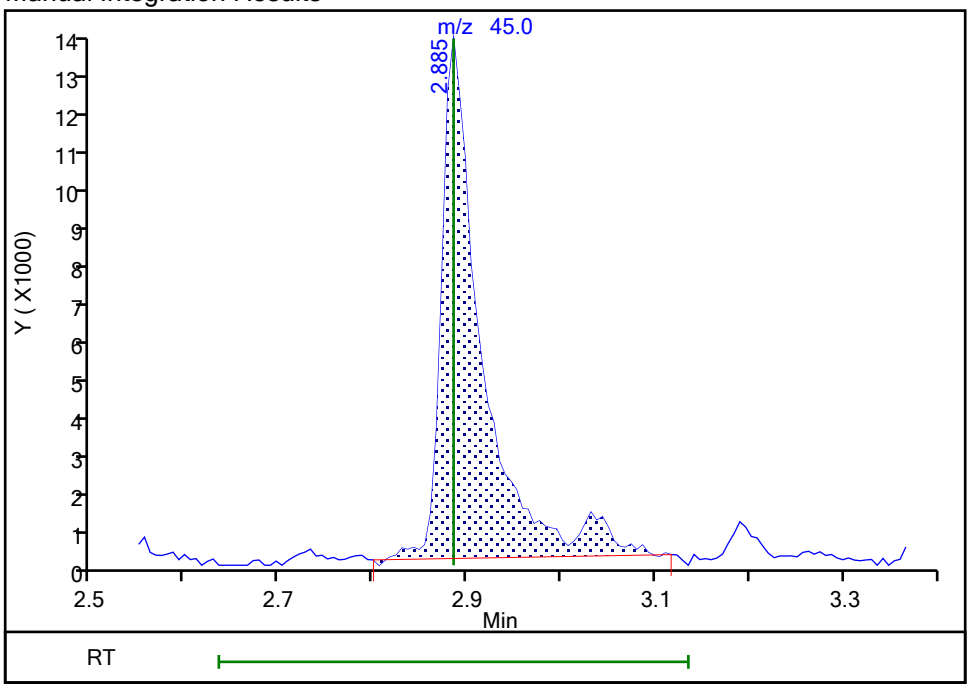
Processing Integration Results

RT: 2.89
Area: 34640
Amount: 415.9961
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 40665
Amount: 488.3511
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:29:15
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299697/4 Calibration Date: 11/18/2020 17:55

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8258.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2430		54.2	50.0	8.4	20.0
Toluene-d8 (Surr)	Ave	1.282	1.353		52.8	50.0	5.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7725		47.2	50.0	-5.6	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 17:55:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-004
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:30 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:35:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.409	0.000	0	114	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	97	176716	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	28	6445	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	126245	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	58	61458	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	91	42941	50.0	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	170852	50.0	52.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	47479	50.0	47.2	
$ 8 BFB	95	9.920	9.920	0.000	81	65020	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	98	31449	2000.0	2046.4	
18 Ethyl ether	59	2.458	2.458	0.000	96	80461	50.0	53.9	
19 Acrolein	56	2.562	2.562	0.000	97	53397	238.2	235.0	
20 1,1-Dichloroethene	96	2.653	2.653	0.000	92	95173	50.0	52.4	
21 112TCTFE	101	2.672	2.672	0.000	98	108413	50.0	60.1	
22 Acetone	43	2.714	2.714	0.000	98	55518	100.0	120.6	
23 Iodomethane	142	2.775	2.775	0.000	98	60990	50.0	36.7	
24 Carbon disulfide	76	2.836	2.836	0.000	99	306685	50.0	57.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	40665	500.0	488.4	M
118 Acetonitrile	40	2.958	2.958	0.000	99	92300	500.0	540.7	
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	58384	50.0	49.7	
26 Methyl acetate	43	3.037	3.037	0.000	99	138333	100.0	110.8	
27 Methylene Chloride	84	3.111	3.111	0.000	97	103209	50.0	48.0	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	50358	500.0	427.3	
30 Acrylonitrile	53	3.348	3.348	0.000	99	366939	500.0	574.9	
28 trans-1,2-Dichloroethene	96	3.385	3.385	0.000	94	111666	50.0	53.9	
29 Methyl tert-butyl ether	73	3.397	3.397	0.000	98	268158	50.0	55.8	
31 Hexane	57	3.702	3.702	0.000	95	171037	50.0	60.8	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	98	214285	50.0	55.1	
33 Vinyl acetate	86	3.848	3.848	0.000	97	39704	100.0	103.1	
34 2-Chloro-1,3-butadiene	53	3.873	3.873	0.000	94	244848	50.0	65.1	
36 Isopropyl ether	87	3.909	3.909	0.000	97	99239	50.0	52.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	98	336085	50.0	55.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	82	135330	50.0	44.1	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	151637	50.0	63.9	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	85881	100.0	116.0	
41 Propionitrile	54	4.391	4.391	0.000	99	134830	500.0	531.3	
104 Ethyl acetate	61	4.421	4.421	0.000	99	29886	100.0	102.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	401173	500.0	532.9	
42 Chlorobromomethane	128	4.549	4.549	0.000	95	48300	50.0	48.7	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	17726	100.0	100.6	
45 Chloroform	83	4.641	4.641	0.000	96	207010	50.0	50.9	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	183510	50.0	55.0	
47 Cyclohexane	56	4.860	4.860	0.000	96	237527	50.0	59.7	
48 Carbon tetrachloride	117	4.964	4.964	0.000	86	154502	50.0	53.6	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	89	170147	50.0	54.5	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	72328	1250.0	1149.0	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	63	181684	50.0	62.9	
50 Benzene	78	5.177	5.177	0.000	97	474984	50.0	52.0	
116 n-Butanol	56	5.293	5.293	0.000	57	122642	1250.0	1381.7	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	92	260692	50.0	47.6	
53 n-Heptane	43	5.482	5.482	0.000	96	157684	50.0	55.6	
54 Trichloroethene	95	5.805	5.805	0.000	96	123994	50.0	53.1	
117 Ethyl acrylate	55	5.933	5.933	0.000	99	125020	50.0	56.7	
114 Methylcyclohexane	83	6.012	6.012	0.000	97	194869	50.0	50.8	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	87	118706	50.0	53.2	
56 Dibromomethane	93	6.122	6.122	0.000	95	59863	50.0	50.5	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	132232	100.0	104.2	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	13769	1000.0	0	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	145376	50.0	54.0	
106 2-Nitropropane	43	6.525	6.525	0.000	100	39536	100.0	101.1	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	66180	50.0	53.5	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	166203	50.0	51.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	194232	100.0	114.0	
62 Toluene	92	7.116	7.116	0.000	97	299261	50.0	48.2	
63 trans-1,3-Dichloropropene	75	7.341	7.341	0.000	99	143671	50.0	45.8	
64 Ethyl methacrylate	69	7.463	7.463	0.000	92	118097	50.0	48.7	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	94	75520	50.0	50.9	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	118990	50.0	46.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	164775	50.0	51.9	
68 2-Hexanone	43	7.823	7.823	0.000	98	125543	100.0	112.7	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	94510	50.0	47.8	
109 n-Butyl acetate	43	7.975	7.975	0.000	97	156094	50.0	53.5	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	88768	50.0	48.6	
71 Chlorobenzene	112	8.616	8.616	0.000	89	305220	50.0	48.2	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	92	100064	50.0	48.9	
73 Ethylbenzene	91	8.756	8.756	0.000	99	570788	50.0	51.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	209335	50.0	48.5	
75 o-Xylene	106	9.335	9.335	0.000	97	198547	50.0	48.4	
76 Styrene	104	9.347	9.347	0.000	92	321126	50.0	47.2	
77 Bromoform	173	9.530	9.530	0.000	93	48197	50.0	43.7	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	531073	50.0	49.7	
79 Bromobenzene	156	10.085	10.085	0.000	99	117833	50.0	45.5	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	100939	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	90	33331	50.0	50.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	78	28514	50.0	51.6	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	625352	50.0	50.8	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	368238	50.0	51.1	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	431766	50.0	50.9	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	419520	50.0	49.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	357251	50.0	48.4	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	416040	50.0	47.4	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	517422	50.0	49.3	
90 1,3-Dichlorobenzene	146	11.200	11.200	0.000	96	215844	50.0	46.8	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	430963	50.0	47.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	216975	50.0	44.5	
110 1,2,3-Trimethylbenzene	105	11.389	11.389	0.000	100	403826	50.0	46.4	
113 Benzyl chloride	126	11.475	11.475	0.000	99	20785	50.0	26.3	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	201826	50.0	43.9	
94 n-Butylbenzene	91	11.767	11.767	0.000	99	374121	50.0	46.4	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	82	15220	50.0	52.1	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	109430	50.0	39.0	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	83119	50.0	35.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	49533	50.0	43.4	
98 Naphthalene	128	13.980	13.980	0.000	98	175925	50.0	34.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	63567	50.0	34.0	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	117.8	
S 100 Xylenes, Total	1				0		100.0	96.9	
S 102 1,3-Dichloropropene, Total	1				0		100.0	97.4	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated

Reagents:

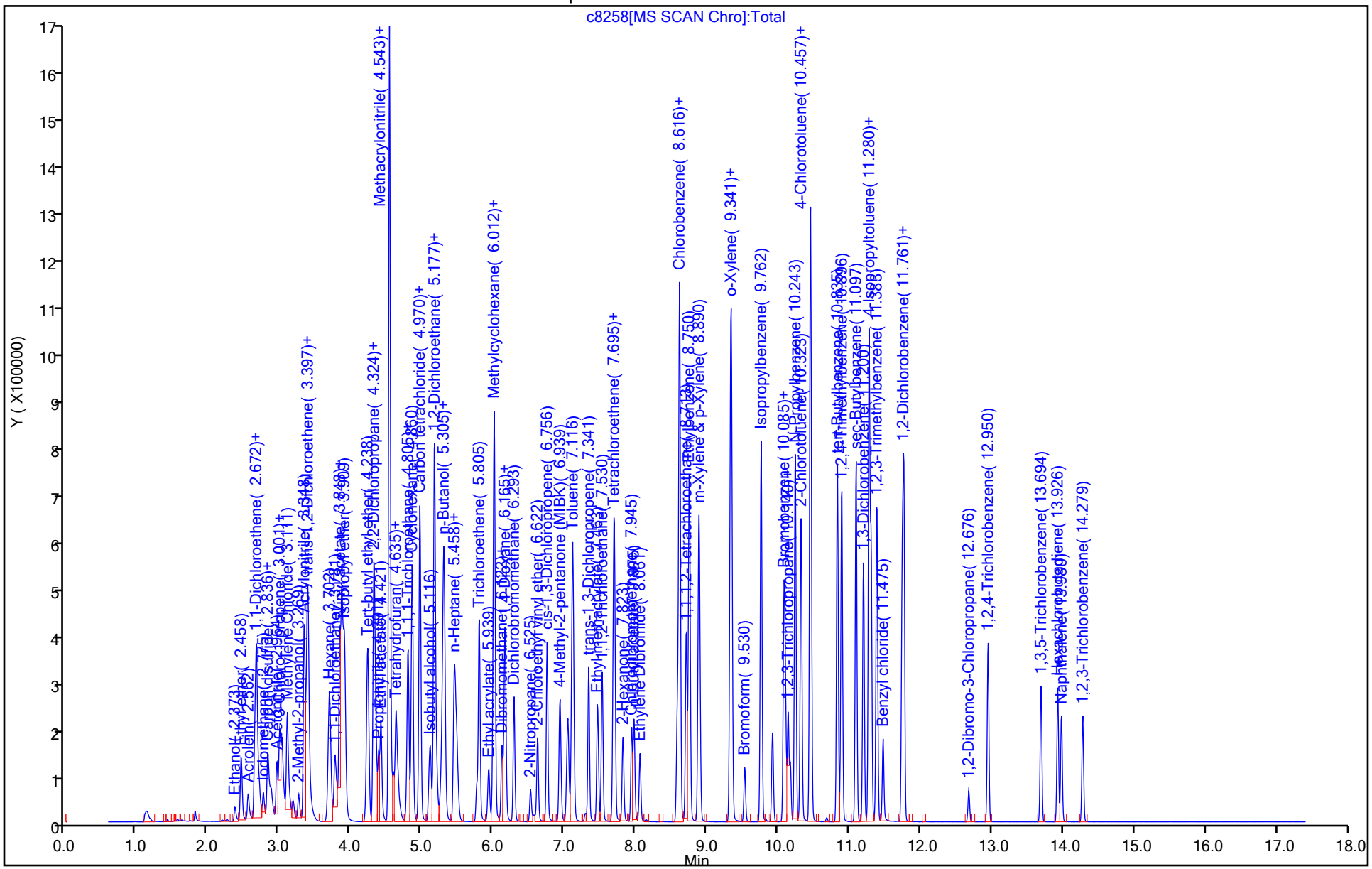
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:15:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8258.D

Injection Date:	18-Nov-2020 17:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299697/5 Calibration Date: 11/18/2020 18:20

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8259.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.023	0.7027	0.1000	13.7	20.0	-31.3	50.0
Chloromethane	Ave	0.7536	0.6091	0.1000	16.2	20.0	-19.2	50.0
Vinyl chloride	Ave	0.9214	0.6800	0.1000	14.8	20.0	-26.2*	20.0
1,3-Butadiene	Ave	0.9321	0.6545		14.0	20.0	-29.8*	20.0
Bromomethane	Lin2		0.1287	0.1000	10.2	20.0	-48.9	50.0
Chloroethane	Ave	0.5330	0.3991	0.1000	15.0	20.0	-25.1*	20.0
Dichlorofluoromethane	Ave	1.275	0.9403		14.7	20.0	-26.3*	20.0
Trichlorofluoromethane	Ave	1.218	0.9494	0.1000	15.6	20.0	-22.1*	20.0
Dibromofluoromethane (Surr)	Ave	0.2241	0.2337		52.1	50.0	4.3	20.0
Toluene-d8 (Surr)	Ave	1.282	1.316		51.3	50.0	2.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.8124		49.7	50.0	-0.7	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Nov-2020 18:20:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-005
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub24

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:36:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.397	3.409	-0.012	0	183	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.452	0.006	98	174948	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5624	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	93	123273	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54123	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	92	40880	50.0	52.1	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	162276	50.0	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	84	43971	50.0	49.7	
$ 8 BFB	95	9.920	9.920	0.000	82	60468	NR	NR	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	49174	20.0	13.7	
10 Chloromethane	50	1.520	1.526	-0.006	99	42626	20.0	16.2	
11 Vinyl chloride	62	1.532	1.532	0.000	98	47587	20.0	14.8	M
12 Butadiene	54	1.574	1.568	0.006	95	45801	20.0	14.0	M
13 Bromomethane	94	1.830	1.837	-0.007	91	9009	20.0	10.2	M
14 Chloroethane	64	1.916	1.916	0.000	98	27927	20.0	15.0	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	65799	20.0	14.7	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	99	66438	20.0	15.6	M

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

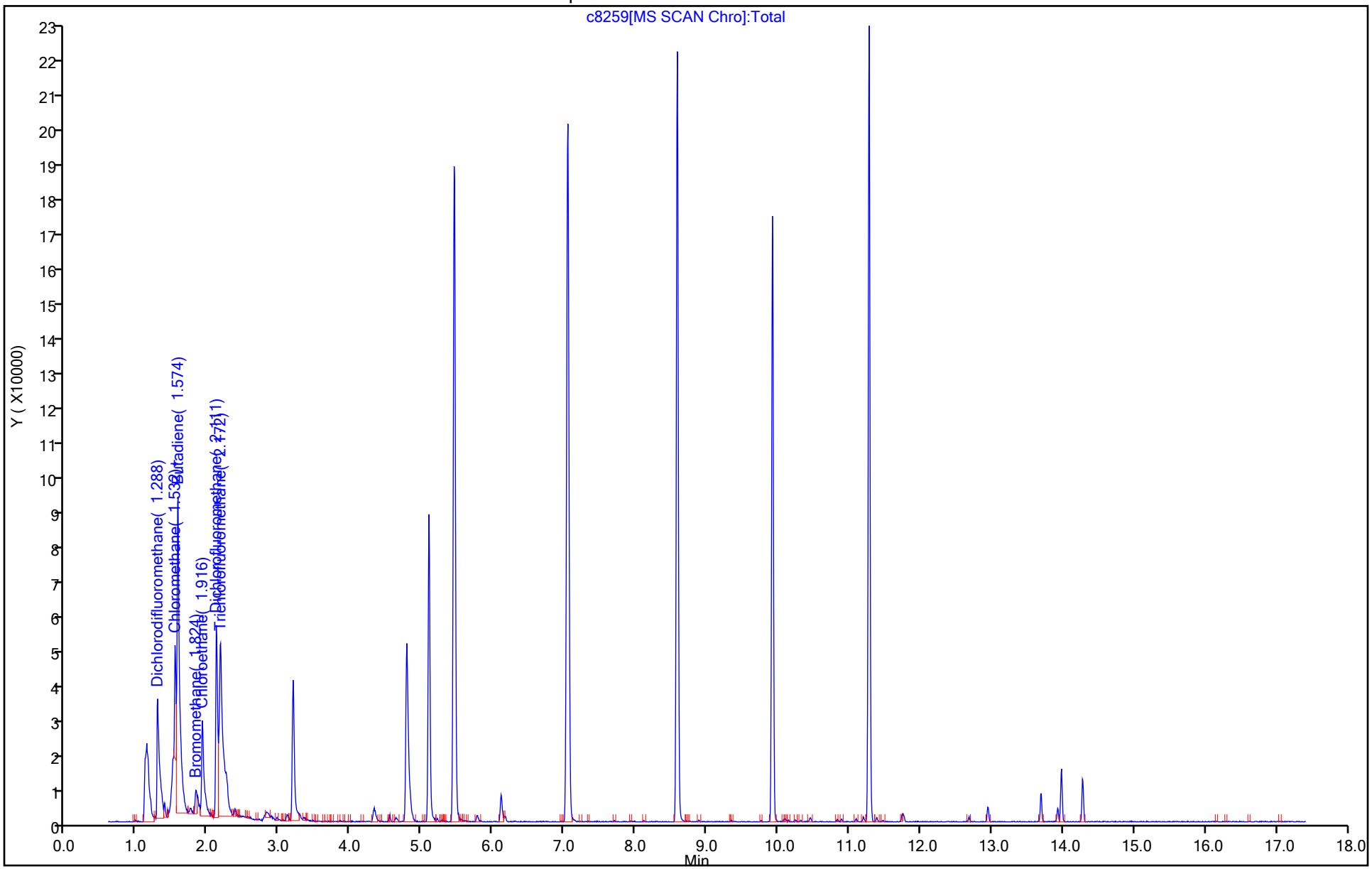
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_GASES_00414	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:15:44 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D

Injection Date:	18-Nov-2020 18:20:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

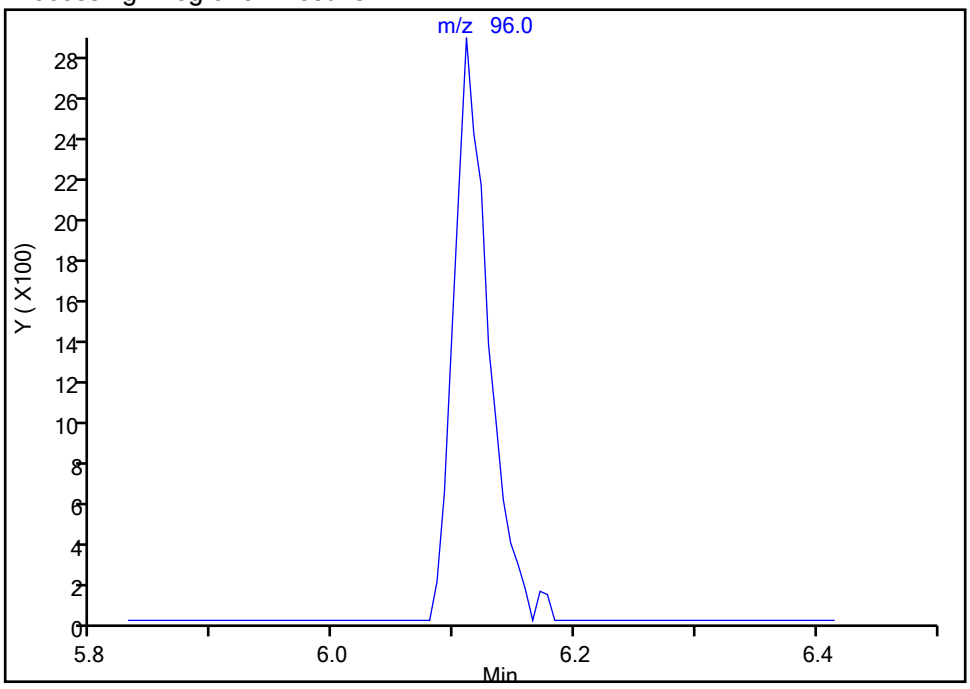
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D
Injection Date: 18-Nov-2020 18:20:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

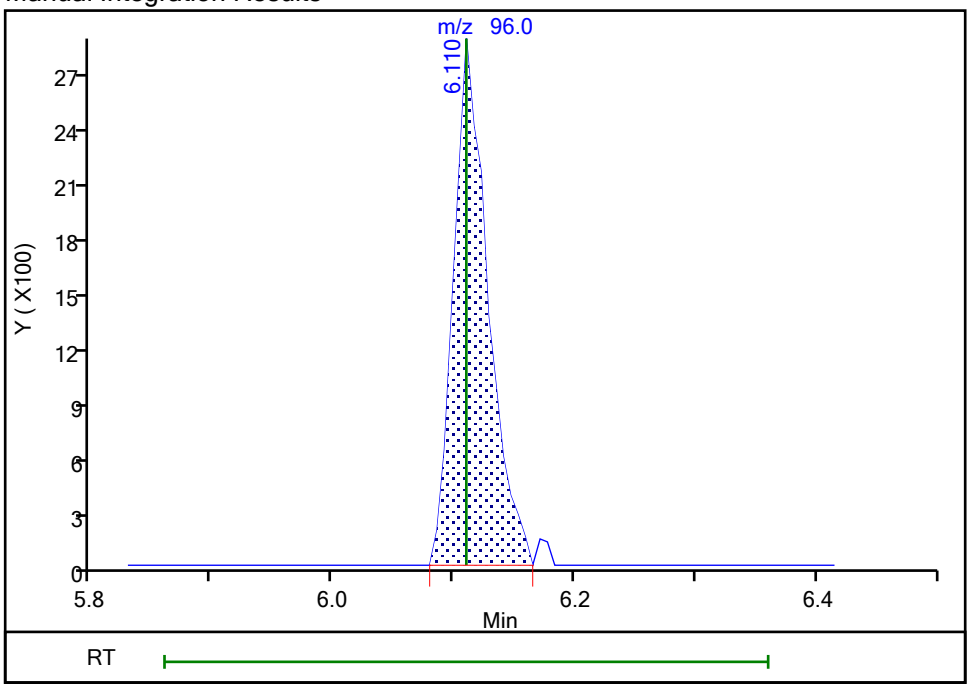
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5624
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:29:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

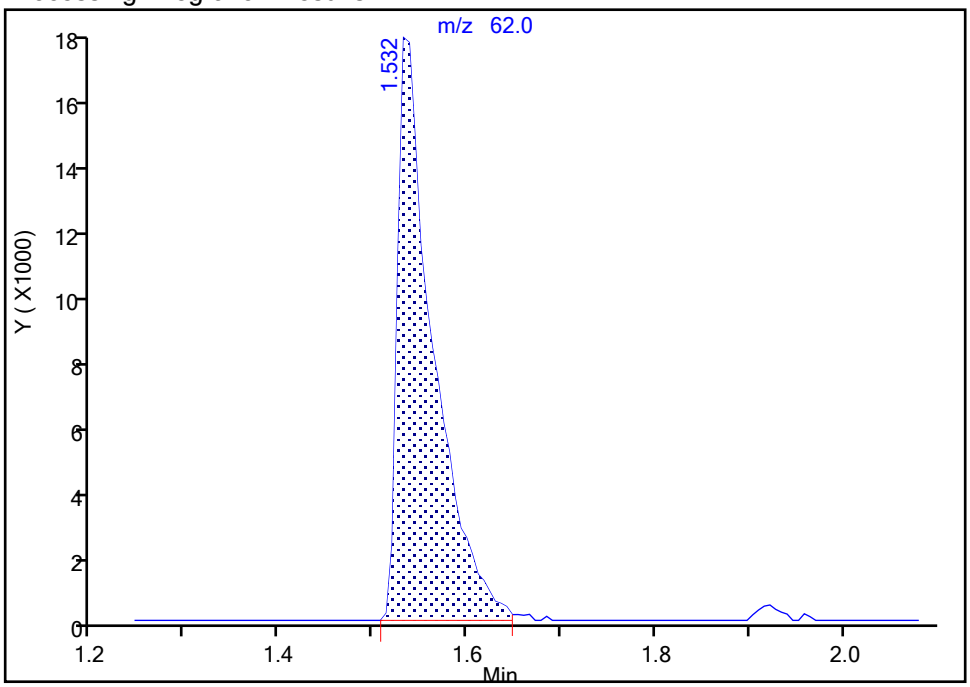
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D
Injection Date: 18-Nov-2020 18:20:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

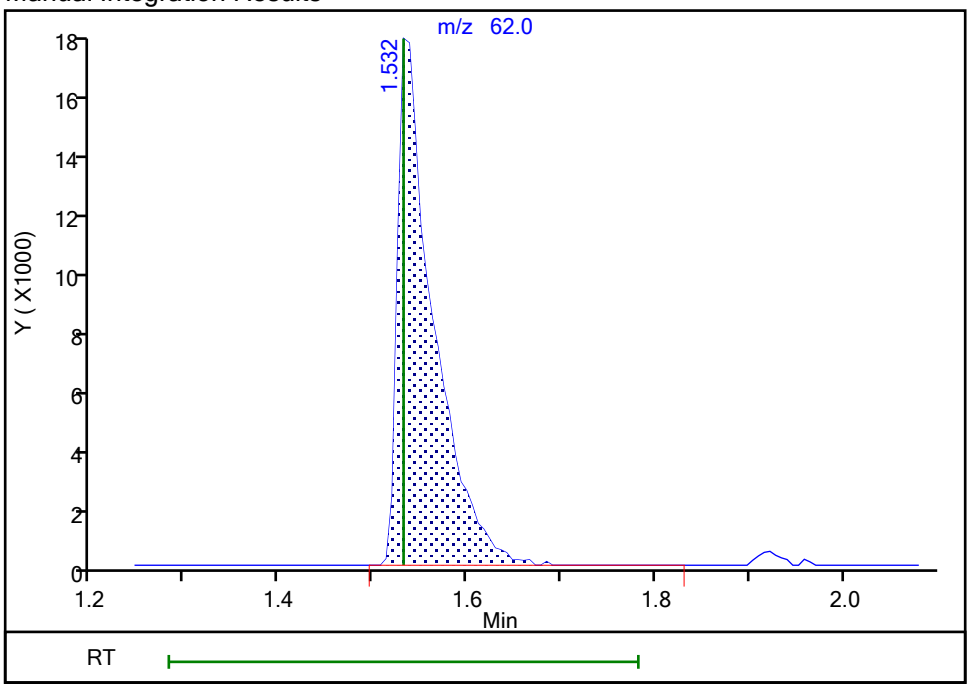
Processing Integration Results

RT: 1.53
Area: 47351
Amount: 14.687760
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 47587
Amount: 14.760965
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:30:25
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

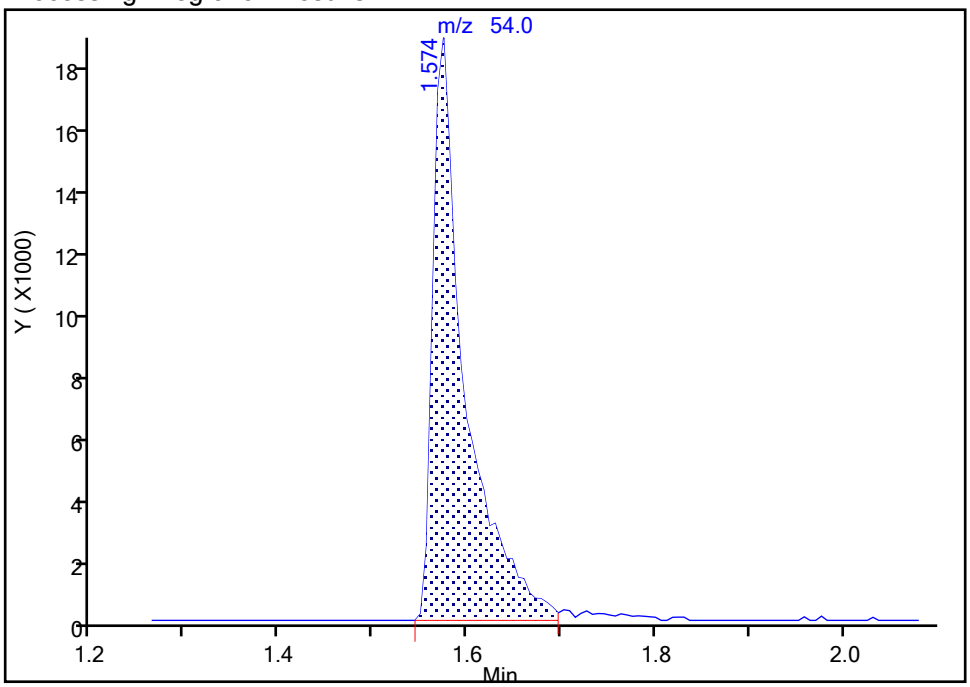
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D
Injection Date: 18-Nov-2020 18:20:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

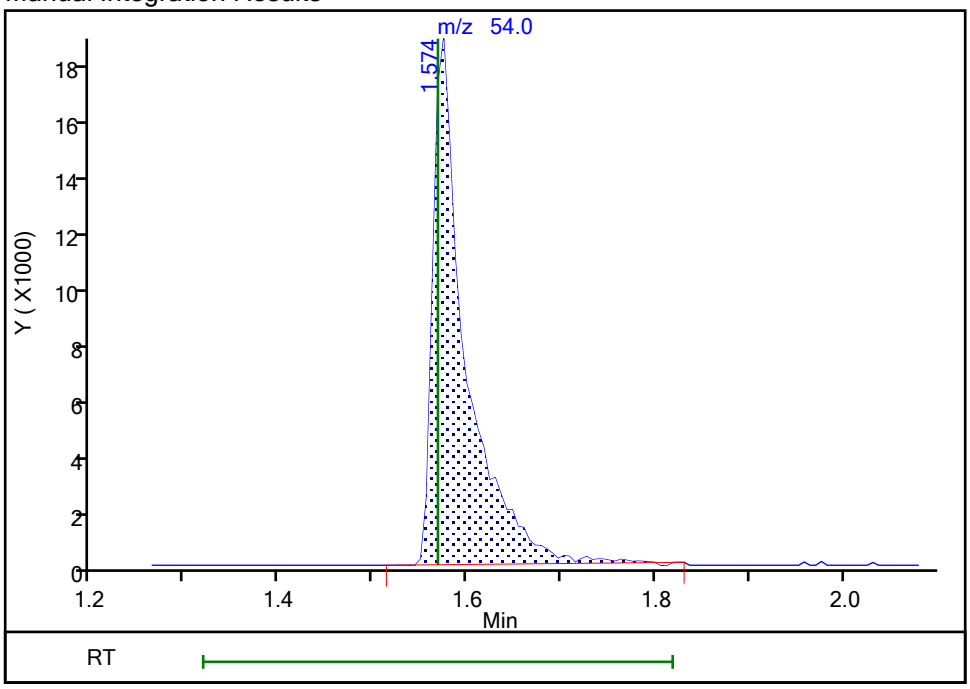
Processing Integration Results

RT: 1.57
Area: 45506
Amount: 13.952530
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 45801
Amount: 14.042980
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:30:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

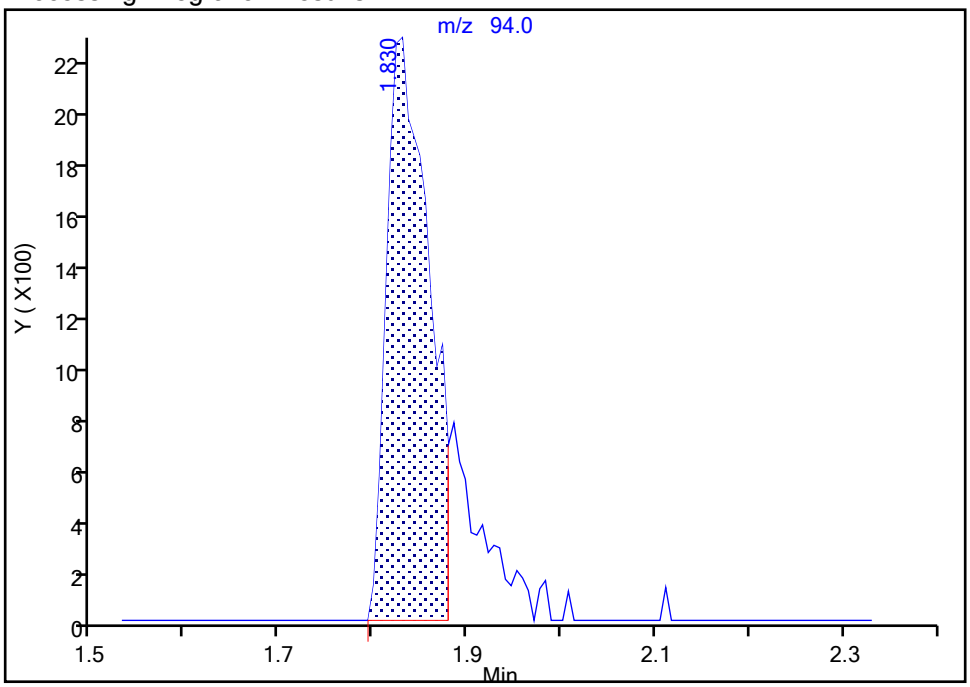
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D
Injection Date: 18-Nov-2020 18:20:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

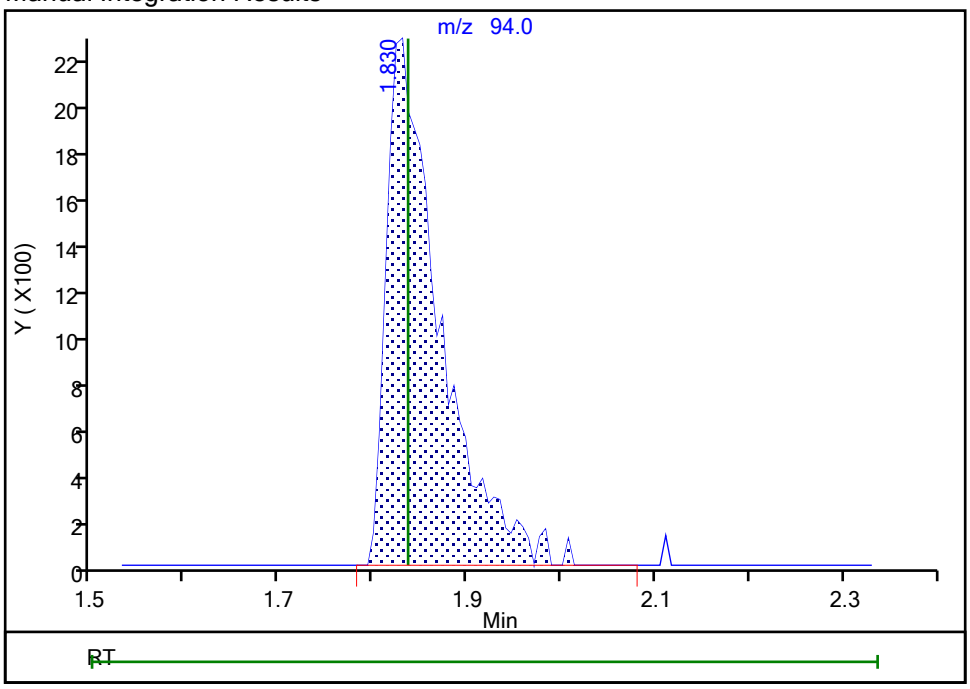
Processing Integration Results

RT: 1.83
Area: 7175
Amount: 8.230773
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 9009
Amount: 10.218485
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:30:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

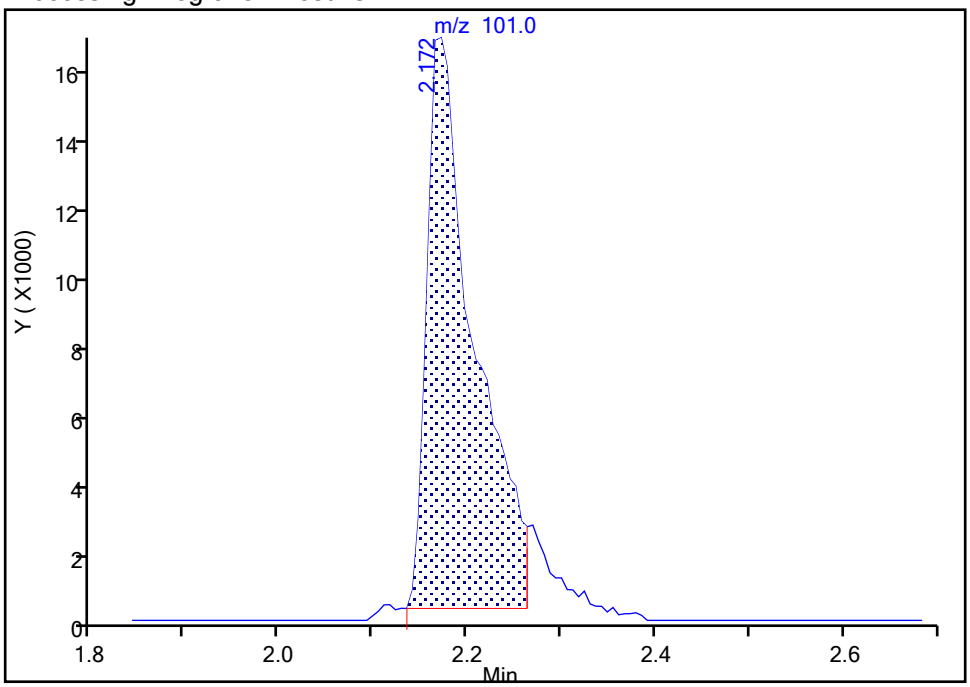
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8259.D
Injection Date: 18-Nov-2020 18:20:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

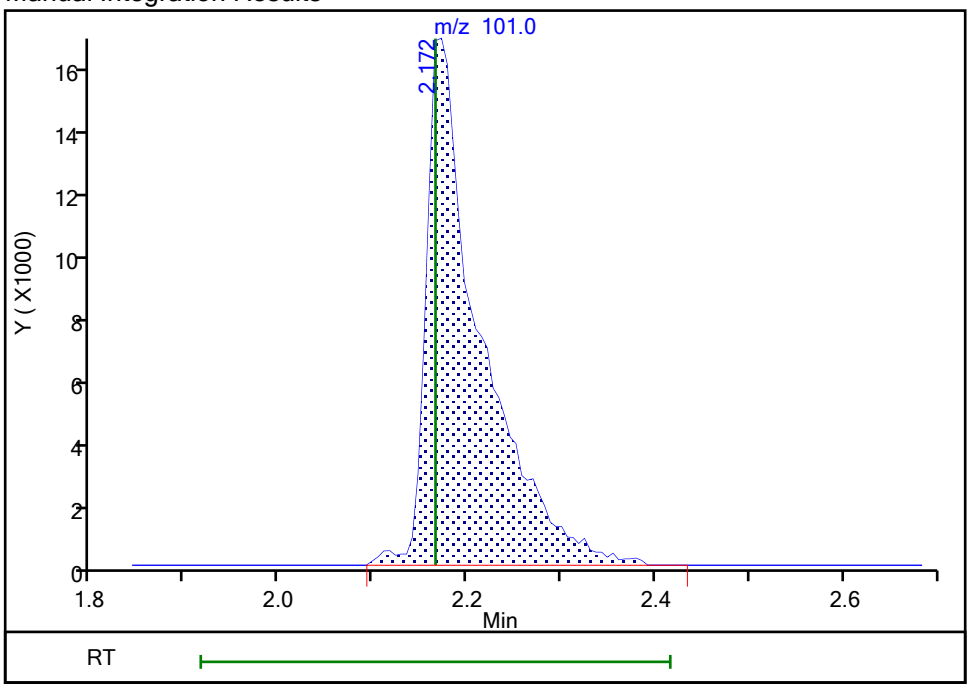
Processing Integration Results

RT: 2.17
Area: 56946
Amount: 13.356947
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 66438
Amount: 15.583340
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:30:37
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299701/4 Calibration Date: 11/19/2020 05:24

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c8289.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	1.797		100	1000	-4.8	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 05:24:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:01 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:31:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	559	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	191276	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	26	6983	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	139235	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	72	65919	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	57	45671	50.0	53.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	185765	50.0	52.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	52418	50.0	48.6	
$ 8 BFB	95	9.920	9.920	0.000	82	70514	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	99	28175	2000.0	1693.8	
18 Ethyl ether	59	2.471	2.471	0.000	95	78789	50.0	48.7	
19 Acrolein	56	2.562	2.562	0.000	98	65513	238.2	266.3	
20 1,1-Dichloroethene	96	2.659	2.659	0.000	93	98286	50.0	50.0	
21 112TCTFE	101	2.684	2.684	0.000	95	112247	50.0	57.5	
22 Acetone	43	2.714	2.714	0.000	98	59950	100.0	120.3	
23 Iodomethane	142	2.775	2.775	0.000	98	64772	50.0	36.0	
24 Carbon disulfide	76	2.842	2.842	0.000	99	321597	50.0	55.2	
105 Isopropyl alcohol	45	2.885	2.885	0.000	95	35381	500.0	392.6	M
118 Acetonitrile	40	2.964	2.964	0.000	99	87192	500.0	471.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	80	61066	50.0	48.0	
26 Methyl acetate	43	3.037	3.037	0.000	99	135672	100.0	100.4	
27 Methylene Chloride	84	3.111	3.111	0.000	98	103036	50.0	44.2	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	47095	500.0	369.2	
30 Acrylonitrile	53	3.348	3.348	0.000	98	349605	500.0	506.1	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	112170	50.0	50.0	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	260537	50.0	50.0	
31 Hexane	57	3.702	3.702	0.000	95	183515	50.0	60.3	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	216385	50.0	51.4	
33 Vinyl acetate	86	3.848	3.848	0.000	97	39768	100.0	95.4	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	248977	50.0	61.2	
36 Isopropyl ether	87	3.909	3.909	0.000	96	97996	50.0	47.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	98	324220	50.0	49.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	84	155582	50.0	46.8	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	91	121168	50.0	47.2	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	83037	100.0	103.6	
41 Propionitrile	54	4.397	4.397	0.000	99	127494	500.0	464.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	29153	100.0	92.7	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	387277	500.0	475.3	
42 Chlorobromomethane	128	4.549	4.549	0.000	93	47543	50.0	44.3	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	17196	100.0	90.2	
45 Chloroform	83	4.641	4.641	0.000	96	204492	50.0	46.4	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	187790	50.0	52.0	
47 Cyclohexane	56	4.866	4.866	0.000	96	242284	50.0	56.3	
48 Carbon tetrachloride	117	4.970	4.970	0.000	96	155263	50.0	49.7	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	174817	50.0	51.7	
108 Isobutyl alcohol	43	5.122	5.122	0.000	93	64788	1250.0	950.9	
50 Benzene	78	5.177	5.177	0.000	98	475757	50.0	48.1	
51 1,2-Dichloroethane	62	5.177	5.177	0.000	95	179897	50.0	57.5	
116 n-Butanol	56	5.299	5.299	0.000	60	130480	1250.0	1358.1	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	251657	50.0	42.4	
53 n-Heptane	43	5.482	5.482	0.000	96	175294	50.0	57.1	
54 Trichloroethene	95	5.805	5.805	0.000	96	124676	50.0	49.3	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	120619	50.0	50.5	
114 Methylcyclohexane	83	6.013	6.013	0.000	96	196350	50.0	47.3	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	115861	50.0	48.0	
56 Dibromomethane	93	6.122	6.122	0.000	94	59332	50.0	46.3	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	12546	1000.0	0	
57 Methyl methacrylate	69	6.171	6.171	0.000	92	127124	100.0	92.5	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	141281	50.0	48.5	
106 2-Nitropropane	43	6.525	6.525	0.000	98	38372	100.0	90.6	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	64534	50.0	48.2	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	166627	50.0	47.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	184291	100.0	99.9	
62 Toluene	92	7.116	7.116	0.000	97	296902	50.0	44.2	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	143390	50.0	42.3	
64 Ethyl methacrylate	69	7.463	7.463	0.000	92	114402	50.0	43.6	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	72919	50.0	45.4	
66 Tetrachloroethene	166	7.695	7.695	0.000	92	120798	50.0	43.6	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	158579	50.0	46.1	
68 2-Hexanone	43	7.823	7.823	0.000	97	122173	100.0	101.4	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	91577	50.0	42.8	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	149372	50.0	47.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	86731	50.0	43.8	
71 Chlorobenzene	112	8.616	8.616	0.000	89	306288	50.0	43.9	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	92	97958	50.0	43.4	
73 Ethylbenzene	91	8.756	8.756	0.000	99	570410	50.0	46.7	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	213216	50.0	44.8	
75 o-Xylene	106	9.329	9.335	-0.006	96	198882	50.0	43.9	
76 Styrene	104	9.347	9.347	0.000	92	323793	50.0	43.2	
77 Bromoform	173	9.530	9.530	0.000	93	46682	50.0	38.4	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	537312	50.0	45.6	
79 Bromobenzene	156	10.085	10.085	0.000	98	117511	50.0	41.1	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	97848	50.0	44.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	32244	50.0	44.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	76	28788	50.0	47.2	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	637354	50.0	47.0	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	367783	50.0	46.3	
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	434131	50.0	46.4	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	426441	50.0	45.4	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	360020	50.0	44.2	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	417777	50.0	43.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	520184	50.0	44.9	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	215548	50.0	42.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	436389	50.0	44.5	
92 1,4-Dichlorobenzene	146	11.310	11.310	0.000	93	220621	50.0	42.2	
110 1,2,3-Trimethylbenzene	105	11.390	11.390	0.000	100	406378	50.0	43.5	
113 Benzyl chloride	126	11.475	11.475	0.000	99	25345	50.0	29.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	204446	50.0	41.5	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	385158	50.0	44.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	74	14831	50.0	47.3	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	112761	50.0	37.5	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	84015	50.0	33.4	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	49620	50.0	40.5	
98 Naphthalene	128	13.980	13.980	0.000	98	170332	50.0	31.1	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	62551	50.0	31.2	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	97.2	
S 100 Xylenes, Total	1				0		100.0	88.7	
S 102 1,3-Dichloropropene, Total	1				0		100.0	90.0	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 12:14:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D

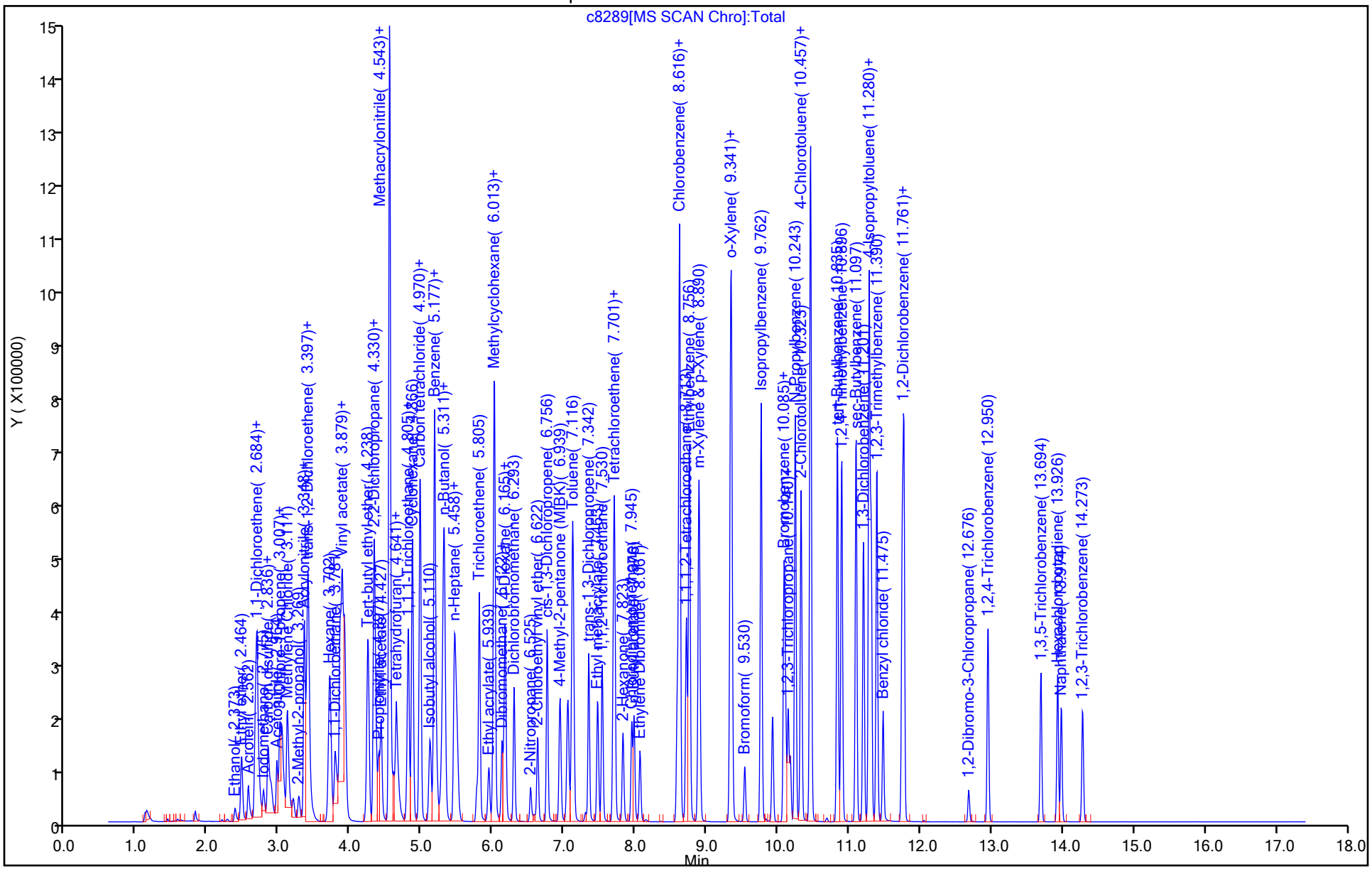
Injection Date: 19-Nov-2020 05:24:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: CCV Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299701/4 Calibration Date: 11/19/2020 05:24

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8289.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0037		1690	2000	-15.3	50.0
Diethyl ether	Ave	0.4227	0.4119		48.7	50.0	-2.5	20.0
Acrolein	Ave	0.0643	0.0719		266	238	11.8	50.0
1,1-Dichloroethene	Ave	0.5143	0.5138	0.1000	50.0	50.0	-0.0	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.5105	0.5868	0.1000	57.5	50.0	15.0	20.0
Acetone	Lin1		0.1567	0.0500	120	100	20.3	50.0
Iodomethane	Ave	0.4705	0.3386		36.0	50.0	-28.0	50.0
Carbon disulfide	Ave	1.523	1.681	0.1000	55.2	50.0	10.4	20.0
Isopropyl alcohol	Ave	0.0236	0.0185		393	500	-21.5*	20.0
Acetonitrile	Ave	0.0483	0.0456		472	500	-5.6	20.0
Allyl chloride	Ave	0.3323	0.3193		48.0	50.0	-3.9	50.0
Methyl acetate	Ave	0.3531	0.3546	0.1000	100	100	0.4	20.0
Methylene Chloride	Ave	0.6089	0.5387	0.1000	44.2	50.0	-11.5	50.0
tert-Butanol	Ave	0.0333	0.0246		369	500	-26.2*	20.0
Acrylonitrile	Ave	0.1806	0.1828		506	500	1.2	50.0
trans-1,2-Dichloroethene	Ave	0.5867	0.5864	0.1000	50.0	50.0	-0.0	20.0
Methyl tert-butyl ether	Ave	1.361	1.362	0.1000	50.0	50.0	0.0	20.0
Hexane	Ave	0.7956	0.9594		60.3	50.0	20.6	50.0
1,1-Dichloroethane	Ave	1.100	1.131	0.2000	51.4	50.0	2.8	20.0
Vinyl acetate	Ave	0.1090	0.1040		95.4	100	-4.6	50.0
Chloroprene	Ave	1.064	1.302		61.2	50.0	22.3*	20.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.5123		47.8	50.0	-4.4	20.0
tert-Butyl ethyl ether	Ave	1.720	1.695		49.3	50.0	-1.5	20.0
2,2-Dichloropropane	Ave	0.8681	0.8134		46.8	50.0	-6.3	50.0
cis-1,2-Dichloroethene	Ave	0.6713	0.6335	0.1000	47.2	50.0	-5.6	20.0
2-Butanone (MEK)	Ave	0.2094	0.2171	0.0500	104	100	3.6	50.0
Propionitrile	Ave	0.0718	0.0667		464	500	-7.2	20.0
Ethyl acetate	Ave	0.0822	0.0762		92.7	100	-7.3	20.0
Methacrylonitrile	Ave	0.2130	0.2025		475	500	-4.9	20.0
Bromochloromethane	Ave	0.2805	0.2486		44.3	50.0	-11.4	20.0
Tetrahydrofuran	Ave	0.0498	0.0450		90.2	100	-9.8	20.0
Chloroform	Ave	1.151	1.069	0.2000	46.4	50.0	-7.1	20.0
1,1,1-Trichloroethane	Ave	0.9433	0.9818	0.1000	52.0	50.0	4.1	20.0
Cyclohexane	Ave	1.125	1.267	0.1000	56.3	50.0	12.6	20.0
Carbon tetrachloride	Ave	0.8162	0.8117	0.1000	49.7	50.0	-0.5	20.0
1,1-Dichloropropene	Ave	0.8831	0.9140		51.7	50.0	3.5	20.0
Isobutyl alcohol	Ave	0.0178	0.0135		951	1250	-23.9*	20.0
1,2-Dichloroethane	Ave	0.8176	0.9405	0.1000	57.5	50.0	15.0	20.0
Benzene	Ave	2.584	2.487	0.5000	48.1	50.0	-3.7	20.0
n-Butanol	Ave	0.0251	0.0273		1360	1250	8.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299701/4 Calibration Date: 11/19/2020 05:24

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8289.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Amyl methyl ether	Ave	1.551	1.316		42.4	50.0	-15.2	20.0
Heptane	Ave	0.8031	0.9164		57.1	50.0	14.1	20.0
Trichloroethene	Ave	0.6604	0.6518	0.2000	49.3	50.0	-1.3	20.0
Ethyl acrylate	Ave	0.6242	0.6306		50.5	50.0	1.0	20.0
Methylcyclohexane	Ave	1.084	1.027	0.1000	47.3	50.0	-5.3	20.0
1,2-Dichloropropane	Ave	0.6310	0.6057	0.1000	48.0	50.0	-4.0	20.0
Dibromomethane	Ave	0.3352	0.3102		46.3	50.0	-7.5	20.0
Methyl methacrylate	Ave	0.3591	0.3323		92.5	100	-7.5	20.0
Dichlorobromomethane	Ave	0.7620	0.7386	0.2000	48.5	50.0	-3.1	20.0
2-Nitropropane	Ave	0.1107	0.1003		90.6	100	-9.4	20.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3374		48.2	50.0	-3.6	50.0
cis-1,3-Dichloropropene	Ave	0.9124	0.8711	0.2000	47.7	50.0	-4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.4817	0.1000	99.9	100	-0.1	20.0
Toluene	Ave	1.757	1.552	0.4000	44.2	50.0	-11.7	20.0
trans-1,3-Dichloropropene	Lin1		0.7496	0.1000	42.3	50.0	-15.4	20.0
Ethyl methacrylate	Ave	0.6863	0.5981		43.6	50.0	-12.9	20.0
1,1,2-Trichloroethane	Ave	0.4195	0.3812	0.1000	45.4	50.0	-9.1	20.0
Tetrachloroethene	Ave	0.7237	0.6315	0.2000	43.6	50.0	-12.7	20.0
1,3-Dichloropropane	Ave	0.8991	0.8291		46.1	50.0	-7.8	20.0
2-Hexanone	Ave	0.3151	0.3194	0.1000	101	100	1.4	20.0
Chlorodibromomethane	Ave	0.5599	0.4788	0.1000	42.8	50.0	-14.5	20.0
n-Butyl acetate	Ave	0.8257	0.7809		47.3	50.0	-5.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.4534	0.1000	43.8	50.0	-12.3	20.0
Chlorobenzene	Ave	2.507	2.200	0.5000	43.9	50.0	-12.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7035		43.4	50.0	-13.2	20.0
Ethylbenzene	Ave	4.388	4.097	0.1000	46.7	50.0	-6.6	20.0
m,p-Xylene	Ave	1.708	1.531	0.1000	44.8	50.0	-10.4	20.0
o-Xylene	Ave	1.626	1.428	0.3000	43.9	50.0	-12.2	20.0
Styrene	Ave	2.693	2.326	0.3000	43.2	50.0	-13.7	20.0
Bromoform	Ave	0.4364	0.3353	0.1000	38.4	50.0	-23.2*	20.0
Isopropylbenzene	Ave	4.230	3.859	0.1000	45.6	50.0	-8.8	20.0
Bromobenzene	Ave	1.026	0.8440		41.1	50.0	-17.7	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.7028	0.2000	44.5	50.0	-11.0	20.0
1,2,3-Trichloropropane	Ave	0.2632	0.2316		44.0	50.0	-12.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.2068		47.2	50.0	-5.6	50.0
n-Propylbenzene	Ave	4.874	4.578		47.0	50.0	-6.1	20.0
2-Chlorotoluene	Ave	2.855	2.641		46.3	50.0	-7.5	20.0
4-Chlorotoluene	Ave	3.359	3.118		46.4	50.0	-7.2	20.0
1,3,5-Trimethylbenzene	Ave	3.375	3.063		45.4	50.0	-9.3	20.0
tert-Butylbenzene	Ave	2.925	2.586		44.2	50.0	-11.6	20.0
1,2,4-Trimethylbenzene	Ave	3.476	3.001		43.2	50.0	-13.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299701/4 Calibration Date: 11/19/2020 05:24

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8289.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
sec-Butylbenzene	Ave	4.160	3.736		44.9	50.0	-10.2	20.0
1,3-Dichlorobenzene	Ave	1.828	1.548	0.6000	42.4	50.0	-15.3	20.0
p-Isopropyltoluene	Ave	7.443	6.620		44.5	50.0	-11.1	20.0
1,4-Dichlorobenzene	Ave	3.970	3.347	0.5000	42.2	50.0	-15.7	20.0
1,2,3-Trimethylbenzene	Ave	7.081	6.165		43.5	50.0	-12.9	20.0
Benzyl chloride	Ave	0.6441	0.3845		29.8	50.0	-40.3*	20.0
1,2-Dichlorobenzene	Ave	3.736	3.101	0.4000	41.5	50.0	-17.0	20.0
n-Butylbenzene	Ave	6.554	5.843		44.6	50.0	-10.8	20.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2250	0.0500	47.3	50.0	-5.4	50.0
1,2,4-Trichlorobenzene	Ave	2.282	1.711	0.2000	37.5	50.0	-25.0*	20.0
1,3,5-Trichlorobenzene	Ave	1.906	1.275		33.4	50.0	-33.1*	20.0
Hexachlorobutadiene	Ave	0.9282	0.7527		40.5	50.0	-18.9	50.0
Naphthalene	Ave	4.156	2.584		31.1	50.0	-37.8	50.0
1,2,3-Trichlorobenzene	Ave	1.521	0.9489		31.2	50.0	-37.6	50.0

Report Date: 20-Nov-2020 12:14:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 05:24:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:01 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:31:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	559	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	191276	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	26	6983	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	139235	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	72	65919	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	57	45671	50.0	53.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	185765	50.0	52.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	52418	50.0	48.6	
$ 8 BFB	95	9.920	9.920	0.000	82	70514	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	99	28175	2000.0	1693.8	
18 Ethyl ether	59	2.471	2.471	0.000	95	78789	50.0	48.7	
19 Acrolein	56	2.562	2.562	0.000	98	65513	238.2	266.3	
20 1,1-Dichloroethene	96	2.659	2.659	0.000	93	98286	50.0	50.0	
21 112TCTFE	101	2.684	2.684	0.000	95	112247	50.0	57.5	
22 Acetone	43	2.714	2.714	0.000	98	59950	100.0	120.3	
23 Iodomethane	142	2.775	2.775	0.000	98	64772	50.0	36.0	
24 Carbon disulfide	76	2.842	2.842	0.000	99	321597	50.0	55.2	
105 Isopropyl alcohol	45	2.885	2.885	0.000	95	35381	500.0	392.6	M
118 Acetonitrile	40	2.964	2.964	0.000	99	87192	500.0	471.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	80	61066	50.0	48.0	
26 Methyl acetate	43	3.037	3.037	0.000	99	135672	100.0	100.4	
27 Methylene Chloride	84	3.111	3.111	0.000	98	103036	50.0	44.2	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	47095	500.0	369.2	
30 Acrylonitrile	53	3.348	3.348	0.000	98	349605	500.0	506.1	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	112170	50.0	50.0	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	260537	50.0	50.0	
31 Hexane	57	3.702	3.702	0.000	95	183515	50.0	60.3	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	216385	50.0	51.4	
33 Vinyl acetate	86	3.848	3.848	0.000	97	39768	100.0	95.4	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	248977	50.0	61.2	
36 Isopropyl ether	87	3.909	3.909	0.000	96	97996	50.0	47.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	98	324220	50.0	49.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	84	155582	50.0	46.8	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	91	121168	50.0	47.2	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	83037	100.0	103.6	
41 Propionitrile	54	4.397	4.397	0.000	99	127494	500.0	464.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	29153	100.0	92.7	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	387277	500.0	475.3	
42 Chlorobromomethane	128	4.549	4.549	0.000	93	47543	50.0	44.3	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	17196	100.0	90.2	
45 Chloroform	83	4.641	4.641	0.000	96	204492	50.0	46.4	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	187790	50.0	52.0	
47 Cyclohexane	56	4.866	4.866	0.000	96	242284	50.0	56.3	
48 Carbon tetrachloride	117	4.970	4.970	0.000	96	155263	50.0	49.7	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	174817	50.0	51.7	
108 Isobutyl alcohol	43	5.122	5.122	0.000	93	64788	1250.0	950.9	
50 Benzene	78	5.177	5.177	0.000	98	475757	50.0	48.1	
51 1,2-Dichloroethane	62	5.177	5.177	0.000	95	179897	50.0	57.5	
116 n-Butanol	56	5.299	5.299	0.000	60	130480	1250.0	1358.1	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	251657	50.0	42.4	
53 n-Heptane	43	5.482	5.482	0.000	96	175294	50.0	57.1	
54 Trichloroethene	95	5.805	5.805	0.000	96	124676	50.0	49.3	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	120619	50.0	50.5	
114 Methylcyclohexane	83	6.013	6.013	0.000	96	196350	50.0	47.3	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	115861	50.0	48.0	
56 Dibromomethane	93	6.122	6.122	0.000	94	59332	50.0	46.3	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	12546	1000.0	0	
57 Methyl methacrylate	69	6.171	6.171	0.000	92	127124	100.0	92.5	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	141281	50.0	48.5	
106 2-Nitropropane	43	6.525	6.525	0.000	98	38372	100.0	90.6	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	64534	50.0	48.2	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	166627	50.0	47.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	184291	100.0	99.9	
62 Toluene	92	7.116	7.116	0.000	97	296902	50.0	44.2	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	143390	50.0	42.3	
64 Ethyl methacrylate	69	7.463	7.463	0.000	92	114402	50.0	43.6	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	72919	50.0	45.4	
66 Tetrachloroethene	166	7.695	7.695	0.000	92	120798	50.0	43.6	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	158579	50.0	46.1	
68 2-Hexanone	43	7.823	7.823	0.000	97	122173	100.0	101.4	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	91577	50.0	42.8	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	149372	50.0	47.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	86731	50.0	43.8	
71 Chlorobenzene	112	8.616	8.616	0.000	89	306288	50.0	43.9	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	92	97958	50.0	43.4	
73 Ethylbenzene	91	8.756	8.756	0.000	99	570410	50.0	46.7	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	213216	50.0	44.8	
75 o-Xylene	106	9.329	9.335	-0.006	96	198882	50.0	43.9	
76 Styrene	104	9.347	9.347	0.000	92	323793	50.0	43.2	
77 Bromoform	173	9.530	9.530	0.000	93	46682	50.0	38.4	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	537312	50.0	45.6	
79 Bromobenzene	156	10.085	10.085	0.000	98	117511	50.0	41.1	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	97848	50.0	44.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	32244	50.0	44.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	76	28788	50.0	47.2	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	637354	50.0	47.0	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	367783	50.0	46.3	
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	434131	50.0	46.4	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	426441	50.0	45.4	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	360020	50.0	44.2	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	417777	50.0	43.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	520184	50.0	44.9	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	215548	50.0	42.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	436389	50.0	44.5	
92 1,4-Dichlorobenzene	146	11.310	11.310	0.000	93	220621	50.0	42.2	
110 1,2,3-Trimethylbenzene	105	11.390	11.390	0.000	100	406378	50.0	43.5	
113 Benzyl chloride	126	11.475	11.475	0.000	99	25345	50.0	29.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	204446	50.0	41.5	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	385158	50.0	44.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	74	14831	50.0	47.3	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	112761	50.0	37.5	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	84015	50.0	33.4	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	49620	50.0	40.5	
98 Naphthalene	128	13.980	13.980	0.000	98	170332	50.0	31.1	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	62551	50.0	31.2	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	97.2	
S 100 Xylenes, Total	1				0		100.0	88.7	
S 102 1,3-Dichloropropene, Total	1				0		100.0	90.0	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 12:14:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D

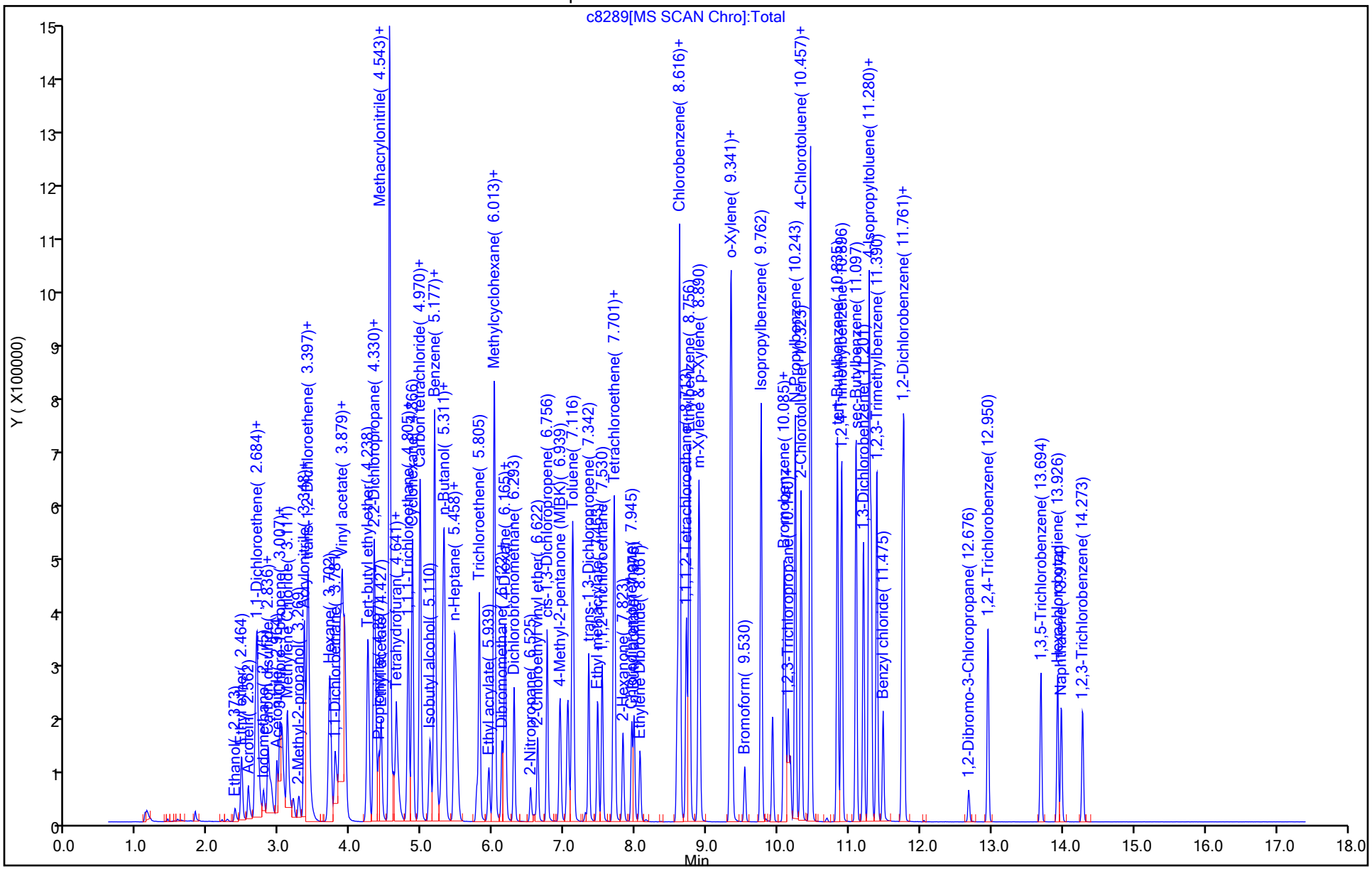
Injection Date: 19-Nov-2020 05:24:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: CCV Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

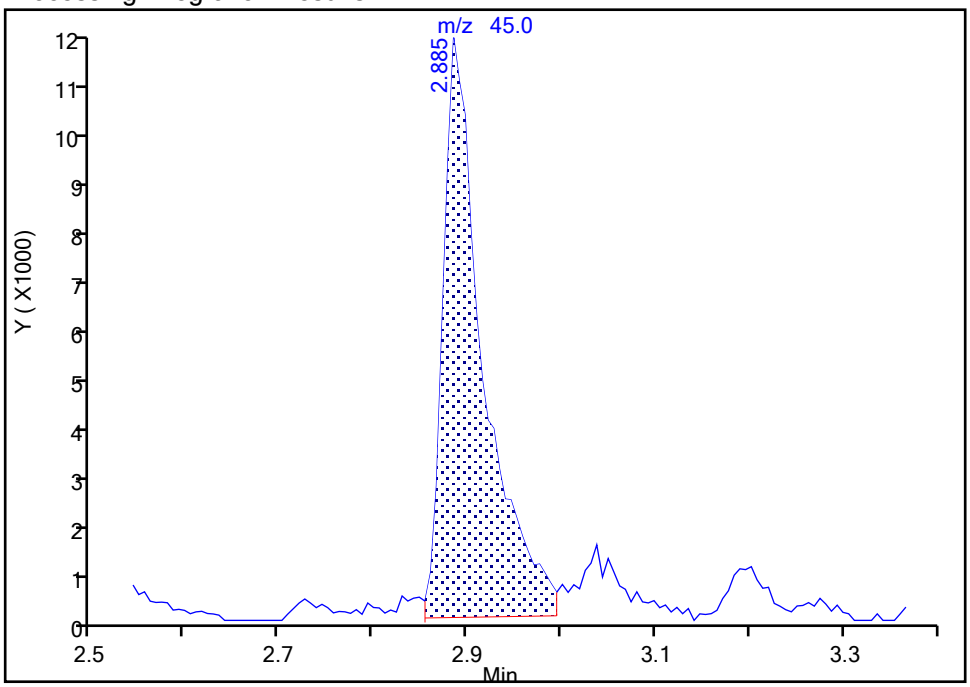
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D
Injection Date: 19-Nov-2020 05:24:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

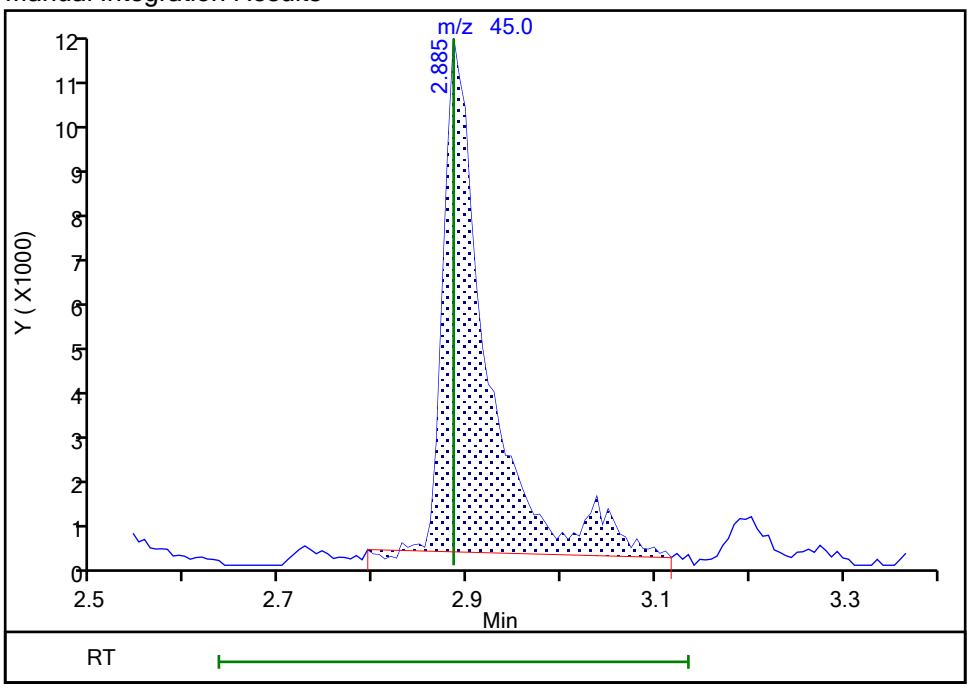
Processing Integration Results

RT: 2.89
Area: 33816
Amount: 375.1881
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 35381
Amount: 392.5517
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 05:51:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

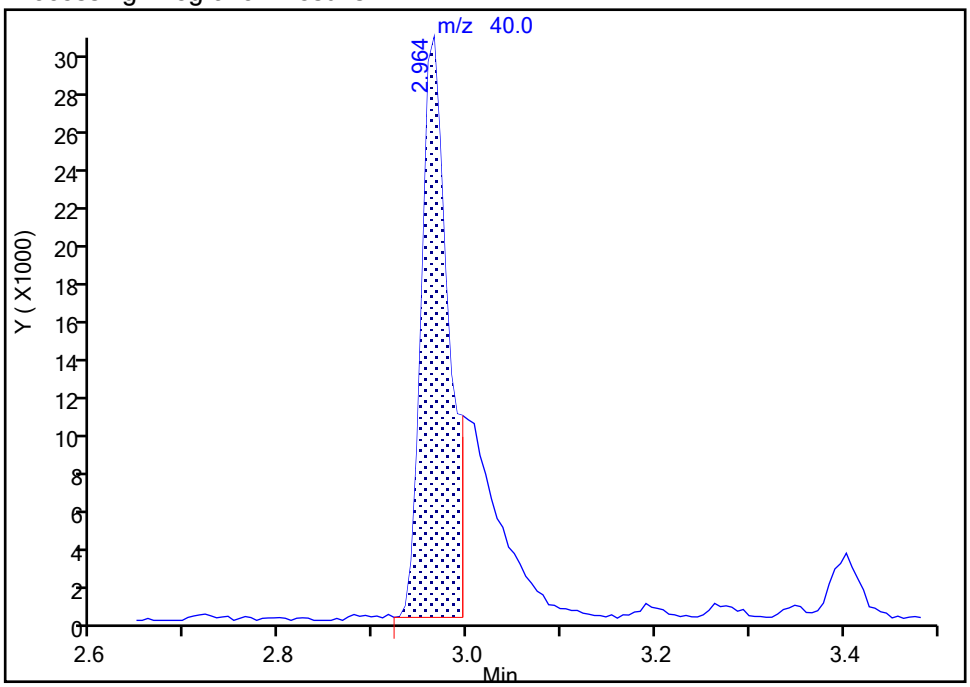
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D
Injection Date: 19-Nov-2020 05:24:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

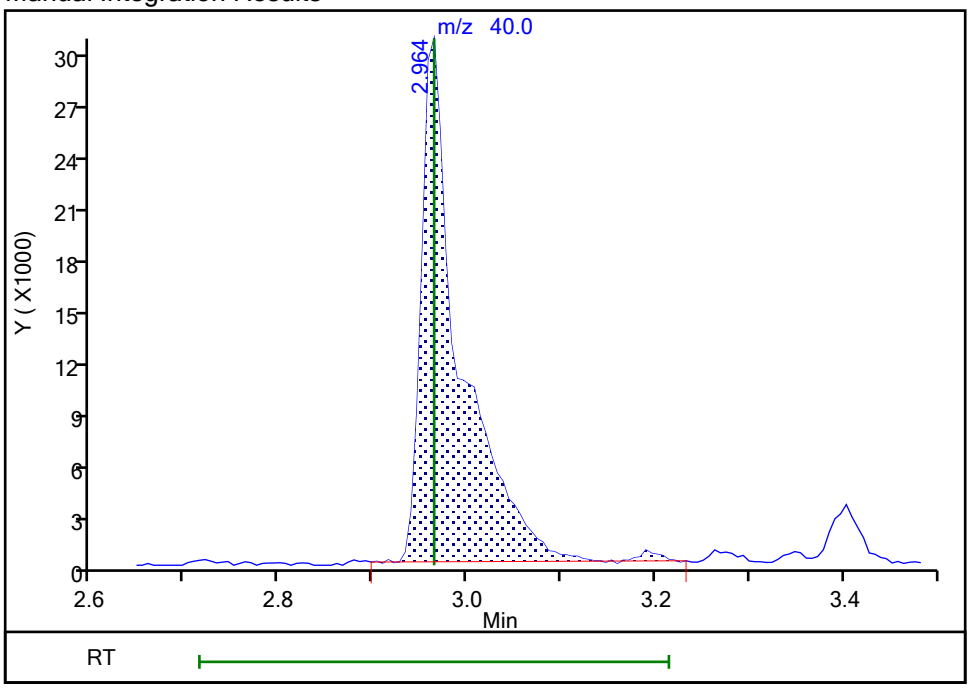
Processing Integration Results

RT: 2.96
Area: 60855
Amount: 329.3764
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 87192
Amount: 471.9248
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 05:51:48
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299701/4 Calibration Date: 11/19/2020 05:24

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8289.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2388		53.3	50.0	6.6	20.0
Toluene-d8 (Surr)	Ave	1.282	1.334		52.0	50.0	4.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7952		48.6	50.0	-2.8	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 05:24:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:01 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:31:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	559	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	191276	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	26	6983	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	139235	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	72	65919	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	57	45671	50.0	53.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	185765	50.0	52.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	52418	50.0	48.6	
$ 8 BFB	95	9.920	9.920	0.000	82	70514	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	99	28175	2000.0	1693.8	
18 Ethyl ether	59	2.471	2.471	0.000	95	78789	50.0	48.7	
19 Acrolein	56	2.562	2.562	0.000	98	65513	238.2	266.3	
20 1,1-Dichloroethene	96	2.659	2.659	0.000	93	98286	50.0	50.0	
21 112TCTFE	101	2.684	2.684	0.000	95	112247	50.0	57.5	
22 Acetone	43	2.714	2.714	0.000	98	59950	100.0	120.3	
23 Iodomethane	142	2.775	2.775	0.000	98	64772	50.0	36.0	
24 Carbon disulfide	76	2.842	2.842	0.000	99	321597	50.0	55.2	
105 Isopropyl alcohol	45	2.885	2.885	0.000	95	35381	500.0	392.6	M
118 Acetonitrile	40	2.964	2.964	0.000	99	87192	500.0	471.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	80	61066	50.0	48.0	
26 Methyl acetate	43	3.037	3.037	0.000	99	135672	100.0	100.4	
27 Methylene Chloride	84	3.111	3.111	0.000	98	103036	50.0	44.2	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	47095	500.0	369.2	
30 Acrylonitrile	53	3.348	3.348	0.000	98	349605	500.0	506.1	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	112170	50.0	50.0	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	260537	50.0	50.0	
31 Hexane	57	3.702	3.702	0.000	95	183515	50.0	60.3	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	216385	50.0	51.4	
33 Vinyl acetate	86	3.848	3.848	0.000	97	39768	100.0	95.4	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	248977	50.0	61.2	
36 Isopropyl ether	87	3.909	3.909	0.000	96	97996	50.0	47.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	98	324220	50.0	49.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	84	155582	50.0	46.8	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	91	121168	50.0	47.2	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	83037	100.0	103.6	
41 Propionitrile	54	4.397	4.397	0.000	99	127494	500.0	464.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	29153	100.0	92.7	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	387277	500.0	475.3	
42 Chlorobromomethane	128	4.549	4.549	0.000	93	47543	50.0	44.3	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	17196	100.0	90.2	
45 Chloroform	83	4.641	4.641	0.000	96	204492	50.0	46.4	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	187790	50.0	52.0	
47 Cyclohexane	56	4.866	4.866	0.000	96	242284	50.0	56.3	
48 Carbon tetrachloride	117	4.970	4.970	0.000	96	155263	50.0	49.7	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	174817	50.0	51.7	
108 Isobutyl alcohol	43	5.122	5.122	0.000	93	64788	1250.0	950.9	
50 Benzene	78	5.177	5.177	0.000	98	475757	50.0	48.1	
51 1,2-Dichloroethane	62	5.177	5.177	0.000	95	179897	50.0	57.5	
116 n-Butanol	56	5.299	5.299	0.000	60	130480	1250.0	1358.1	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	251657	50.0	42.4	
53 n-Heptane	43	5.482	5.482	0.000	96	175294	50.0	57.1	
54 Trichloroethene	95	5.805	5.805	0.000	96	124676	50.0	49.3	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	120619	50.0	50.5	
114 Methylcyclohexane	83	6.013	6.013	0.000	96	196350	50.0	47.3	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	115861	50.0	48.0	
56 Dibromomethane	93	6.122	6.122	0.000	94	59332	50.0	46.3	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	12546	1000.0	0	
57 Methyl methacrylate	69	6.171	6.171	0.000	92	127124	100.0	92.5	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	141281	50.0	48.5	
106 2-Nitropropane	43	6.525	6.525	0.000	98	38372	100.0	90.6	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	64534	50.0	48.2	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	166627	50.0	47.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	184291	100.0	99.9	
62 Toluene	92	7.116	7.116	0.000	97	296902	50.0	44.2	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	143390	50.0	42.3	
64 Ethyl methacrylate	69	7.463	7.463	0.000	92	114402	50.0	43.6	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	72919	50.0	45.4	
66 Tetrachloroethene	166	7.695	7.695	0.000	92	120798	50.0	43.6	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	158579	50.0	46.1	
68 2-Hexanone	43	7.823	7.823	0.000	97	122173	100.0	101.4	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	91577	50.0	42.8	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	149372	50.0	47.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	86731	50.0	43.8	
71 Chlorobenzene	112	8.616	8.616	0.000	89	306288	50.0	43.9	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	92	97958	50.0	43.4	
73 Ethylbenzene	91	8.756	8.756	0.000	99	570410	50.0	46.7	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	213216	50.0	44.8	
75 o-Xylene	106	9.329	9.335	-0.006	96	198882	50.0	43.9	
76 Styrene	104	9.347	9.347	0.000	92	323793	50.0	43.2	
77 Bromoform	173	9.530	9.530	0.000	93	46682	50.0	38.4	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	537312	50.0	45.6	
79 Bromobenzene	156	10.085	10.085	0.000	98	117511	50.0	41.1	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	97848	50.0	44.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	32244	50.0	44.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	76	28788	50.0	47.2	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	637354	50.0	47.0	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	367783	50.0	46.3	
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	434131	50.0	46.4	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	426441	50.0	45.4	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	360020	50.0	44.2	
88 1,2,4-Trimethylbenzene	105	10.896	10.896	0.000	98	417777	50.0	43.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	520184	50.0	44.9	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	215548	50.0	42.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	436389	50.0	44.5	
92 1,4-Dichlorobenzene	146	11.310	11.310	0.000	93	220621	50.0	42.2	
110 1,2,3-Trimethylbenzene	105	11.390	11.390	0.000	100	406378	50.0	43.5	
113 Benzyl chloride	126	11.475	11.475	0.000	99	25345	50.0	29.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	204446	50.0	41.5	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	385158	50.0	44.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	74	14831	50.0	47.3	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	112761	50.0	37.5	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	84015	50.0	33.4	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	49620	50.0	40.5	
98 Naphthalene	128	13.980	13.980	0.000	98	170332	50.0	31.1	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	62551	50.0	31.2	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	97.2	
S 100 Xylenes, Total	1				0		100.0	88.7	
S 102 1,3-Dichloropropene, Total	1				0		100.0	90.0	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 12:14:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8289.D

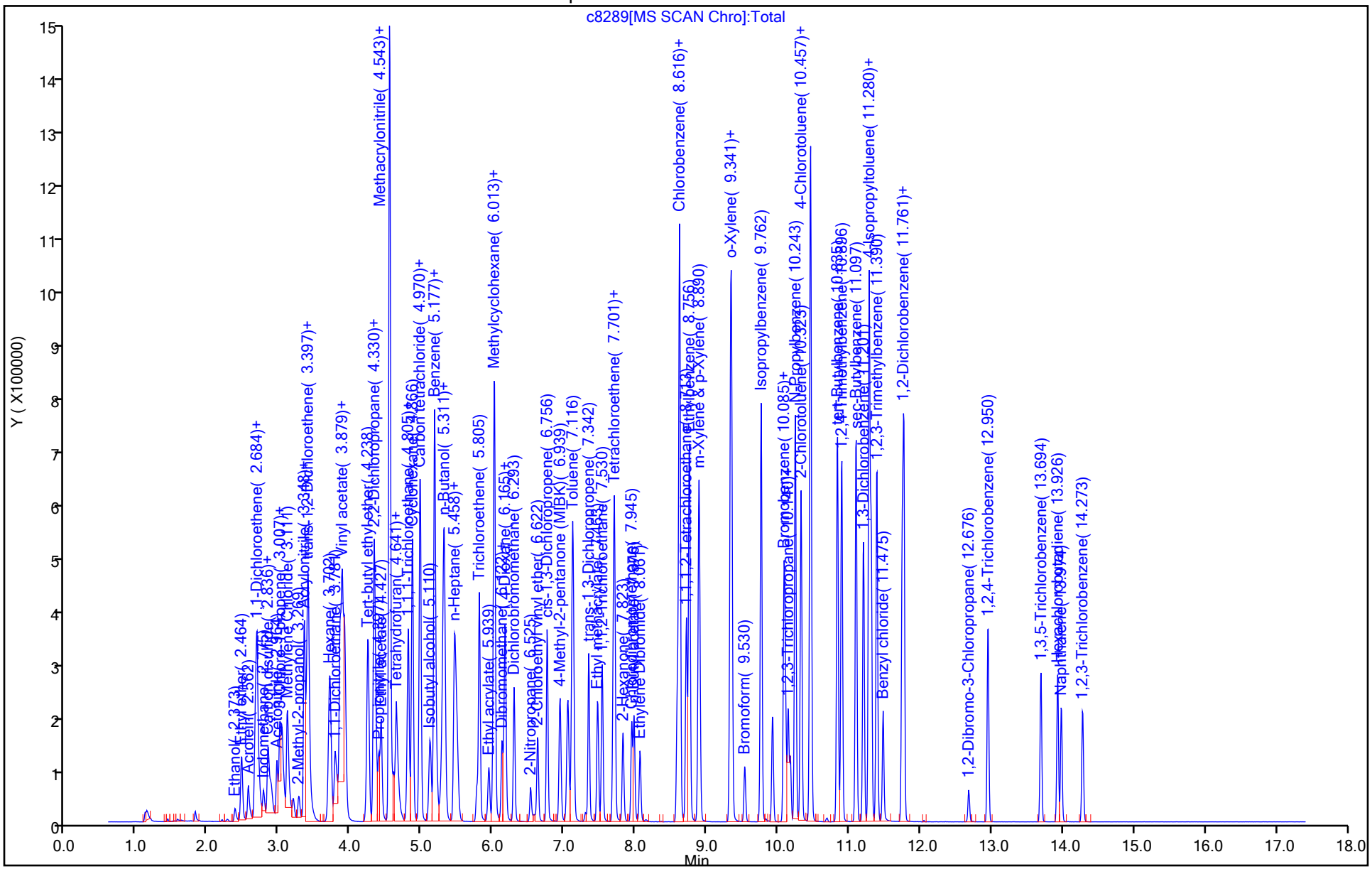
Injection Date: 19-Nov-2020 05:24:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: CCV Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299826/4 Calibration Date: 11/19/2020 17:42

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c8319.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	1.851		100	1000	-1.9	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 17:42:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-004
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:38 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 02:59:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.391	3.391	0.000	0	238	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	177479	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	31	6494	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	88	125754	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	57	59183	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	91	42700	50.0	53.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168969	50.0	52.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	47311	50.0	48.9	
$ 8 BFB	95	9.920	9.920	0.000	80	63968	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	98	27253	2000.0	1765.8	
18 Ethyl ether	59	2.464	2.464	0.000	95	78073	50.0	52.0	
19 Acrolein	56	2.562	2.562	0.000	98	56465	238.2	247.4	
20 1,1-Dichloroethene	96	2.659	2.659	0.000	94	91058	50.0	49.9	
21 112TCTFE	101	2.684	2.684	0.000	96	89864	50.0	49.6	
22 Acetone	43	2.714	2.714	0.000	97	55051	100.0	119.1	
23 Iodomethane	142	2.775	2.775	0.000	99	60737	50.0	36.4	M
24 Carbon disulfide	76	2.842	2.842	0.000	99	298124	50.0	55.2	
105 Isopropyl alcohol	45	2.885	2.885	0.000	96	35463	500.0	424.0	M
118 Acetonitrile	40	2.964	2.964	0.000	98	81193	500.0	473.6	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	82	55625	50.0	47.2	
26 Methyl acetate	43	3.037	3.037	0.000	99	129060	100.0	103.0	
27 Methylene Chloride	84	3.111	3.111	0.000	97	99903	50.0	46.2	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	42994	500.0	363.3	
30 Acrylonitrile	53	3.348	3.348	0.000	98	340094	500.0	530.6	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	106251	50.0	51.0	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	251811	50.0	52.1	
31 Hexane	57	3.708	3.708	0.000	95	134239	50.0	47.5	
32 1,1-Dichloroethane	63	3.787	3.787	0.000	97	206906	50.0	53.0	
33 Vinyl acetate	86	3.848	3.848	0.000	97	36269	100.0	93.8	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	233533	50.0	61.8	
36 Isopropyl ether	87	3.909	3.909	0.000	96	94383	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	97	313425	50.0	51.3	
38 2,2-Dichloropropane	77	4.330	4.330	0.000	77	122880	50.0	39.9	
39 cis-1,2-Dichloroethene	96	4.336	4.336	0.000	88	115292	50.0	48.4	
40 2-Butanone (MEK)	43	4.354	4.354	0.000	98	78098	100.0	105.0	
41 Propionitrile	54	4.397	4.397	0.000	99	122608	500.0	481.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	27298	100.0	93.5	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	372573	500.0	492.8	
42 Chlorobromomethane	128	4.549	4.549	0.000	94	46994	50.0	47.2	
44 Tetrahydrofuran	71	4.604	4.604	0.000	83	16299	100.0	92.1	
45 Chloroform	83	4.641	4.641	0.000	96	197055	50.0	48.2	
46 1,1,1-Trichloroethane	97	4.812	4.812	0.000	97	177721	50.0	53.1	
47 Cyclohexane	56	4.866	4.866	0.000	96	199808	50.0	50.0	
48 Carbon tetrachloride	117	4.970	4.970	0.000	98	145284	50.0	50.1	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	91	160661	50.0	51.3	
108 Isobutyl alcohol	43	5.122	5.122	0.000	93	61049	1250.0	965.7	
51 1,2-Dichloroethane	62	5.177	5.177	0.000	96	175745	50.0	60.6	
50 Benzene	78	5.177	5.177	0.000	98	453976	50.0	49.5	
53 n-Heptane	43	5.311	5.311	0.000	81	161751	50.0	56.7	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	242320	50.0	44.0	
116 n-Butanol	56	5.482	5.482	0.000	62	42480	1250.0	476.5	a
54 Trichloroethene	95	5.805	5.805	0.000	96	119267	50.0	50.9	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	114023	50.0	51.5	
114 Methylcyclohexane	83	6.013	6.013	0.000	96	157853	50.0	41.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	87	111035	50.0	49.6	
56 Dibromomethane	93	6.122	6.122	0.000	94	58104	50.0	48.8	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	12023	1000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	122802	100.0	96.3	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	138242	50.0	51.1	
106 2-Nitropropane	43	6.525	6.525	0.000	99	37327	100.0	95.0	
59 2-Chloroethyl vinyl ether	63	6.628	6.628	0.000	94	61439	50.0	49.4	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	156979	50.0	48.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	171463	100.0	100.2	
62 Toluene	92	7.116	7.116	0.000	97	285145	50.0	45.7	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	134964	50.0	42.9	
64 Ethyl methacrylate	69	7.470	7.470	0.000	92	107570	50.0	44.2	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	71096	50.0	47.7	
66 Tetrachloroethene	166	7.689	7.695	-0.006	91	109164	50.0	42.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	153121	50.0	48.0	
68 2-Hexanone	43	7.823	7.823	0.000	98	111571	100.0	99.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	88734	50.0	44.7	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	141659	50.0	48.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	83392	50.0	45.4	
71 Chlorobenzene	112	8.616	8.616	0.000	88	290586	50.0	46.1	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	94996	50.0	46.6	
73 Ethylbenzene	91	8.756	8.756	0.000	99	536575	50.0	48.6	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	201522	50.0	46.9	
75 o-Xylene	106	9.335	9.335	0.000	99	189340	50.0	46.3	
76 Styrene	104	9.347	9.347	0.000	95	308135	50.0	45.5	
77 Bromoform	173	9.536	9.536	0.000	94	45934	50.0	41.9	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	502937	50.0	47.3	
79 Bromobenzene	156	10.085	10.085	0.000	98	115322	50.0	44.7	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	92656	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	91	30712	50.0	46.4	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	75	25245	50.0	45.8	
83 N-Propylbenzene	91	10.243	10.243	0.000	100	592433	50.0	48.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	348909	50.0	48.6	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	410828	50.0	48.6	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	403137	50.0	47.5	
87 tert-Butylbenzene	119	10.835	10.835	0.000	94	342583	50.0	46.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	392563	50.0	44.9	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	481578	50.0	46.0	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	208826	50.0	45.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	404580	50.0	45.9	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	208622	50.0	44.4	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	384165	50.0	45.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	16892	50.0	22.2	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	193548	50.0	43.8	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	347238	50.0	44.8	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	74	13739	50.0	48.8	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	102318	50.0	37.9	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	78725	50.0	34.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	45851	50.0	41.7	
98 Naphthalene	128	13.980	13.980	0.000	98	163009	50.0	33.1	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	58359	50.0	32.4	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	99.4	
S 100 Xylenes, Total	1				0		100.0	93.2	
S 102 1,3-Dichloropropene, Total	1				0		100.0	91.4	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

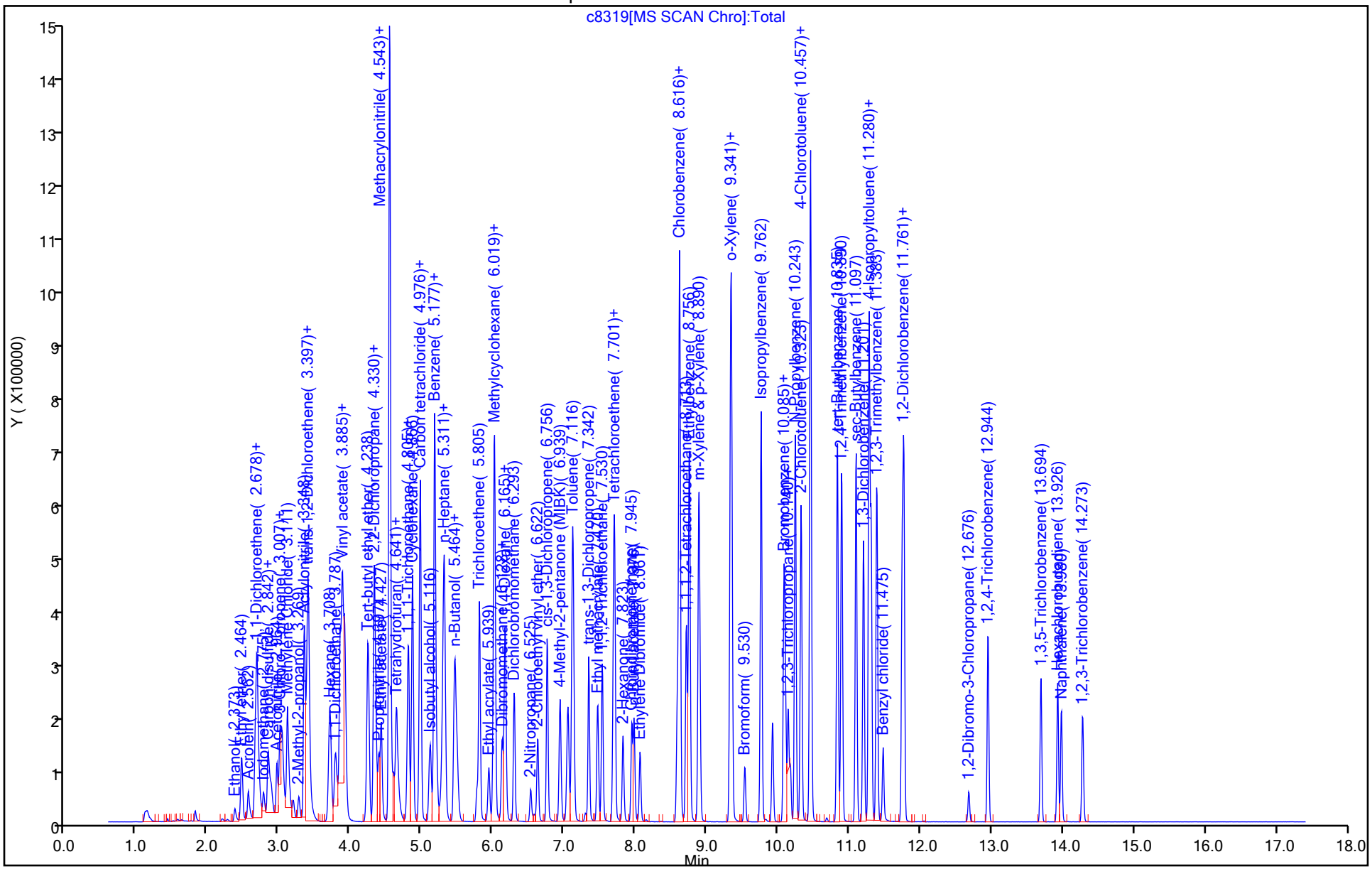
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:09:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D

Injection Date:	19-Nov-2020 17:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299826/4 Calibration Date: 11/19/2020 17:42

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8319.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0038		1770	2000	-11.7	50.0
Diethyl ether	Ave	0.4227	0.4399		52.0	50.0	4.1	20.0
Acrolein	Ave	0.0643	0.0668		247	238	3.9	50.0
1,1-Dichloroethene	Ave	0.5143	0.5131	0.1000	49.9	50.0	-0.2	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.5105	0.5063	0.1000	49.6	50.0	-0.8	20.0
Acetone	Lin1		0.1551	0.0500	119	100	19.1	50.0
Iodomethane	Ave	0.4705	0.3422		36.4	50.0	-27.3	50.0
Carbon disulfide	Ave	1.523	1.680	0.1000	55.2	50.0	10.3	20.0
Isopropyl alcohol	Ave	0.0236	0.0200		424	500	-15.2	20.0
Acetonitrile	Ave	0.0483	0.0457		474	500	-5.3	20.0
Allyl chloride	Ave	0.3323	0.3134		47.2	50.0	-5.7	50.0
Methyl acetate	Ave	0.3531	0.3636	0.1000	103	100	3.0	20.0
Methylene Chloride	Ave	0.6089	0.5629	0.1000	46.2	50.0	-7.6	50.0
tert-Butanol	Ave	0.0333	0.0242		363	500	-27.3*	20.0
Acrylonitrile	Ave	0.1806	0.1916		531	500	6.1	50.0
trans-1,2-Dichloroethene	Ave	0.5867	0.5987	0.1000	51.0	50.0	2.0	20.0
Methyl tert-butyl ether	Ave	1.361	1.419	0.1000	52.1	50.0	4.3	20.0
Hexane	Ave	0.7956	0.7564		47.5	50.0	-4.9	50.0
1,1-Dichloroethane	Ave	1.100	1.166	0.2000	53.0	50.0	5.9	20.0
Vinyl acetate	Ave	0.1090	0.1022		93.8	100	-6.2	50.0
Chloroprene	Ave	1.064	1.316		61.8	50.0	23.7*	20.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.5318		49.6	50.0	-0.7	20.0
tert-Butyl ethyl ether	Ave	1.720	1.766		51.3	50.0	2.7	20.0
2,2-Dichloropropane	Ave	0.8681	0.6924		39.9	50.0	-20.2	50.0
cis-1,2-Dichloroethene	Ave	0.6713	0.6496	0.1000	48.4	50.0	-3.2	20.0
2-Butanone (MEK)	Ave	0.2094	0.2200	0.0500	105	100	5.0	50.0
Propionitrile	Ave	0.0718	0.0691		481	500	-3.8	20.0
Ethyl acetate	Ave	0.0822	0.0769		93.5	100	-6.5	20.0
Methacrylonitrile	Ave	0.2130	0.2099		493	500	-1.4	20.0
Bromochloromethane	Ave	0.2805	0.2648		47.2	50.0	-5.6	20.0
Tetrahydrofuran	Ave	0.0498	0.0459		92.1	100	-7.9	20.0
Chloroform	Ave	1.151	1.110	0.2000	48.2	50.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	0.9433	1.001	0.1000	53.1	50.0	6.2	20.0
Cyclohexane	Ave	1.125	1.126	0.1000	50.0	50.0	0.0	20.0
Carbon tetrachloride	Ave	0.8162	0.8186	0.1000	50.1	50.0	0.3	20.0
1,1-Dichloropropene	Ave	0.8831	0.9052		51.3	50.0	2.5	20.0
Isobutyl alcohol	Ave	0.0178	0.0138		966	1250	-22.7*	20.0
1,2-Dichloroethane	Ave	0.8176	0.9902	0.1000	60.6	50.0	21.1*	20.0
Benzene	Ave	2.584	2.558	0.5000	49.5	50.0	-1.0	20.0
Heptane	Ave	0.8031	0.9114		56.7	50.0	13.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299826/4 Calibration Date: 11/19/2020 17:42

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8319.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Amyl methyl ether	Ave	1.551	1.365		44.0	50.0	-12.0	20.0
n-Butanol	Ave	0.0251	0.0096		477	1250	-61.9*	20.0
Trichloroethene	Ave	0.6604	0.6720	0.2000	50.9	50.0	1.8	20.0
Ethyl acrylate	Ave	0.6242	0.6425		51.5	50.0	2.9	20.0
Methylcyclohexane	Ave	1.084	0.8894	0.1000	41.0	50.0	-18.0	20.0
1,2-Dichloropropane	Ave	0.6310	0.6256	0.1000	49.6	50.0	-0.8	20.0
Dibromomethane	Ave	0.3352	0.3274		48.8	50.0	-2.3	20.0
Methyl methacrylate	Ave	0.3591	0.3460		96.3	100	-3.7	20.0
Dichlorobromomethane	Ave	0.7620	0.7789	0.2000	51.1	50.0	2.2	20.0
2-Nitropropane	Ave	0.1107	0.1052		95.0	100	-5.0	20.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3462		49.4	50.0	-1.1	50.0
cis-1,3-Dichloropropene	Ave	0.9124	0.8845	0.2000	48.5	50.0	-3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.4831	0.1000	100	100	0.2	20.0
Toluene	Ave	1.757	1.607	0.4000	45.7	50.0	-8.6	20.0
trans-1,3-Dichloropropene	Lin1		0.7605	0.1000	42.9	50.0	-14.2	20.0
Ethyl methacrylate	Ave	0.6863	0.6061		44.2	50.0	-11.7	20.0
1,1,2-Trichloroethane	Ave	0.4195	0.4006	0.1000	47.7	50.0	-4.5	20.0
Tetrachloroethene	Ave	0.7237	0.6151	0.2000	42.5	50.0	-15.0	20.0
1,3-Dichloropropane	Ave	0.8991	0.8628		48.0	50.0	-4.0	20.0
2-Hexanone	Ave	0.3151	0.3143	0.1000	99.8	100	-0.2	20.0
Chlorodibromomethane	Ave	0.5599	0.5000	0.1000	44.7	50.0	-10.7	20.0
n-Butyl acetate	Ave	0.8257	0.7982		48.3	50.0	-3.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.4699	0.1000	45.4	50.0	-9.2	20.0
Chlorobenzene	Ave	2.507	2.311	0.5000	46.1	50.0	-7.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7554		46.6	50.0	-6.8	20.0
Ethylbenzene	Ave	4.388	4.267	0.1000	48.6	50.0	-2.8	20.0
m,p-Xylene	Ave	1.708	1.603	0.1000	46.9	50.0	-6.2	20.0
o-Xylene	Ave	1.626	1.506	0.3000	46.3	50.0	-7.4	20.0
Styrene	Ave	2.693	2.450	0.3000	45.5	50.0	-9.0	20.0
Bromoform	Ave	0.4364	0.3653	0.1000	41.9	50.0	-16.3	20.0
Isopropylbenzene	Ave	4.230	3.999	0.1000	47.3	50.0	-5.4	20.0
Bromobenzene	Ave	1.026	0.9170		44.7	50.0	-10.6	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.7368	0.2000	46.7	50.0	-6.7	20.0
1,2,3-Trichloropropane	Ave	0.2632	0.2442		46.4	50.0	-7.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.2007		45.8	50.0	-8.3	50.0
n-Propylbenzene	Ave	4.874	4.711		48.3	50.0	-3.3	20.0
2-Chlorotoluene	Ave	2.855	2.775		48.6	50.0	-2.8	20.0
4-Chlorotoluene	Ave	3.359	3.267		48.6	50.0	-2.8	20.0
1,3,5-Trimethylbenzene	Ave	3.375	3.206		47.5	50.0	-5.0	20.0
tert-Butylbenzene	Ave	2.925	2.724		46.6	50.0	-6.9	20.0
1,2,4-Trimethylbenzene	Ave	3.476	3.122		44.9	50.0	-10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299826/4 Calibration Date: 11/19/2020 17:42

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8319.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
sec-Butylbenzene	Ave	4.160	3.830		46.0	50.0	-7.9	20.0
1,3-Dichlorobenzene	Ave	1.828	1.661	0.6000	45.4	50.0	-9.1	20.0
p-Isopropyltoluene	Ave	7.443	6.836		45.9	50.0	-8.2	20.0
1,4-Dichlorobenzene	Ave	3.970	3.525	0.5000	44.4	50.0	-11.2	20.0
1,2,3-Trimethylbenzene	Ave	7.081	6.491		45.8	50.0	-8.3	20.0
Benzyl chloride	Ave	0.6441	0.2854		22.2	50.0	-55.7*	20.0
1,2-Dichlorobenzene	Ave	3.736	3.270	0.4000	43.8	50.0	-12.5	20.0
n-Butylbenzene	Ave	6.554	5.867		44.8	50.0	-10.5	20.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2321	0.0500	48.8	50.0	-2.4	50.0
1,2,4-Trichlorobenzene	Ave	2.282	1.729	0.2000	37.9	50.0	-24.2*	20.0
1,3,5-Trichlorobenzene	Ave	1.906	1.330		34.9	50.0	-30.2*	20.0
Hexachlorobutadiene	Ave	0.9282	0.7747		41.7	50.0	-16.5	50.0
Naphthalene	Ave	4.156	2.754		33.1	50.0	-33.7	50.0
1,2,3-Trichlorobenzene	Ave	1.521	0.9861		32.4	50.0	-35.2	50.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 17:42:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-004
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:38 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 02:59:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.391	3.391	0.000	0	238	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	177479	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	31	6494	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	88	125754	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	57	59183	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	91	42700	50.0	53.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168969	50.0	52.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	47311	50.0	48.9	
$ 8 BFB	95	9.920	9.920	0.000	80	63968	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	98	27253	2000.0	1765.8	
18 Ethyl ether	59	2.464	2.464	0.000	95	78073	50.0	52.0	
19 Acrolein	56	2.562	2.562	0.000	98	56465	238.2	247.4	
20 1,1-Dichloroethene	96	2.659	2.659	0.000	94	91058	50.0	49.9	
21 112TCTFE	101	2.684	2.684	0.000	96	89864	50.0	49.6	
22 Acetone	43	2.714	2.714	0.000	97	55051	100.0	119.1	
23 Iodomethane	142	2.775	2.775	0.000	99	60737	50.0	36.4	M
24 Carbon disulfide	76	2.842	2.842	0.000	99	298124	50.0	55.2	
105 Isopropyl alcohol	45	2.885	2.885	0.000	96	35463	500.0	424.0	M
118 Acetonitrile	40	2.964	2.964	0.000	98	81193	500.0	473.6	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	82	55625	50.0	47.2	
26 Methyl acetate	43	3.037	3.037	0.000	99	129060	100.0	103.0	
27 Methylene Chloride	84	3.111	3.111	0.000	97	99903	50.0	46.2	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	42994	500.0	363.3	
30 Acrylonitrile	53	3.348	3.348	0.000	98	340094	500.0	530.6	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	106251	50.0	51.0	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	251811	50.0	52.1	
31 Hexane	57	3.708	3.708	0.000	95	134239	50.0	47.5	
32 1,1-Dichloroethane	63	3.787	3.787	0.000	97	206906	50.0	53.0	
33 Vinyl acetate	86	3.848	3.848	0.000	97	36269	100.0	93.8	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	233533	50.0	61.8	
36 Isopropyl ether	87	3.909	3.909	0.000	96	94383	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	97	313425	50.0	51.3	
38 2,2-Dichloropropane	77	4.330	4.330	0.000	77	122880	50.0	39.9	
39 cis-1,2-Dichloroethene	96	4.336	4.336	0.000	88	115292	50.0	48.4	
40 2-Butanone (MEK)	43	4.354	4.354	0.000	98	78098	100.0	105.0	
41 Propionitrile	54	4.397	4.397	0.000	99	122608	500.0	481.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	27298	100.0	93.5	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	372573	500.0	492.8	
42 Chlorobromomethane	128	4.549	4.549	0.000	94	46994	50.0	47.2	
44 Tetrahydrofuran	71	4.604	4.604	0.000	83	16299	100.0	92.1	
45 Chloroform	83	4.641	4.641	0.000	96	197055	50.0	48.2	
46 1,1,1-Trichloroethane	97	4.812	4.812	0.000	97	177721	50.0	53.1	
47 Cyclohexane	56	4.866	4.866	0.000	96	199808	50.0	50.0	
48 Carbon tetrachloride	117	4.970	4.970	0.000	98	145284	50.0	50.1	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	91	160661	50.0	51.3	
108 Isobutyl alcohol	43	5.122	5.122	0.000	93	61049	1250.0	965.7	
51 1,2-Dichloroethane	62	5.177	5.177	0.000	96	175745	50.0	60.6	
50 Benzene	78	5.177	5.177	0.000	98	453976	50.0	49.5	
53 n-Heptane	43	5.311	5.311	0.000	81	161751	50.0	56.7	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	242320	50.0	44.0	
116 n-Butanol	56	5.482	5.482	0.000	62	42480	1250.0	476.5	a
54 Trichloroethene	95	5.805	5.805	0.000	96	119267	50.0	50.9	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	114023	50.0	51.5	
114 Methylcyclohexane	83	6.013	6.013	0.000	96	157853	50.0	41.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	87	111035	50.0	49.6	
56 Dibromomethane	93	6.122	6.122	0.000	94	58104	50.0	48.8	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	12023	1000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	122802	100.0	96.3	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	138242	50.0	51.1	
106 2-Nitropropane	43	6.525	6.525	0.000	99	37327	100.0	95.0	
59 2-Chloroethyl vinyl ether	63	6.628	6.628	0.000	94	61439	50.0	49.4	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	156979	50.0	48.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	171463	100.0	100.2	
62 Toluene	92	7.116	7.116	0.000	97	285145	50.0	45.7	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	134964	50.0	42.9	
64 Ethyl methacrylate	69	7.470	7.470	0.000	92	107570	50.0	44.2	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	71096	50.0	47.7	
66 Tetrachloroethene	166	7.689	7.695	-0.006	91	109164	50.0	42.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	153121	50.0	48.0	
68 2-Hexanone	43	7.823	7.823	0.000	98	111571	100.0	99.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	88734	50.0	44.7	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	141659	50.0	48.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	83392	50.0	45.4	
71 Chlorobenzene	112	8.616	8.616	0.000	88	290586	50.0	46.1	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	94996	50.0	46.6	
73 Ethylbenzene	91	8.756	8.756	0.000	99	536575	50.0	48.6	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	201522	50.0	46.9	
75 o-Xylene	106	9.335	9.335	0.000	99	189340	50.0	46.3	
76 Styrene	104	9.347	9.347	0.000	95	308135	50.0	45.5	
77 Bromoform	173	9.536	9.536	0.000	94	45934	50.0	41.9	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	502937	50.0	47.3	
79 Bromobenzene	156	10.085	10.085	0.000	98	115322	50.0	44.7	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	92656	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	91	30712	50.0	46.4	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	75	25245	50.0	45.8	
83 N-Propylbenzene	91	10.243	10.243	0.000	100	592433	50.0	48.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	348909	50.0	48.6	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	410828	50.0	48.6	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	403137	50.0	47.5	
87 tert-Butylbenzene	119	10.835	10.835	0.000	94	342583	50.0	46.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	392563	50.0	44.9	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	481578	50.0	46.0	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	208826	50.0	45.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	404580	50.0	45.9	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	208622	50.0	44.4	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	384165	50.0	45.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	16892	50.0	22.2	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	193548	50.0	43.8	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	347238	50.0	44.8	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	74	13739	50.0	48.8	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	102318	50.0	37.9	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	78725	50.0	34.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	45851	50.0	41.7	
98 Naphthalene	128	13.980	13.980	0.000	98	163009	50.0	33.1	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	58359	50.0	32.4	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	99.4	
S 100 Xylenes, Total	1				0		100.0	93.2	
S 102 1,3-Dichloropropene, Total	1				0		100.0	91.4	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

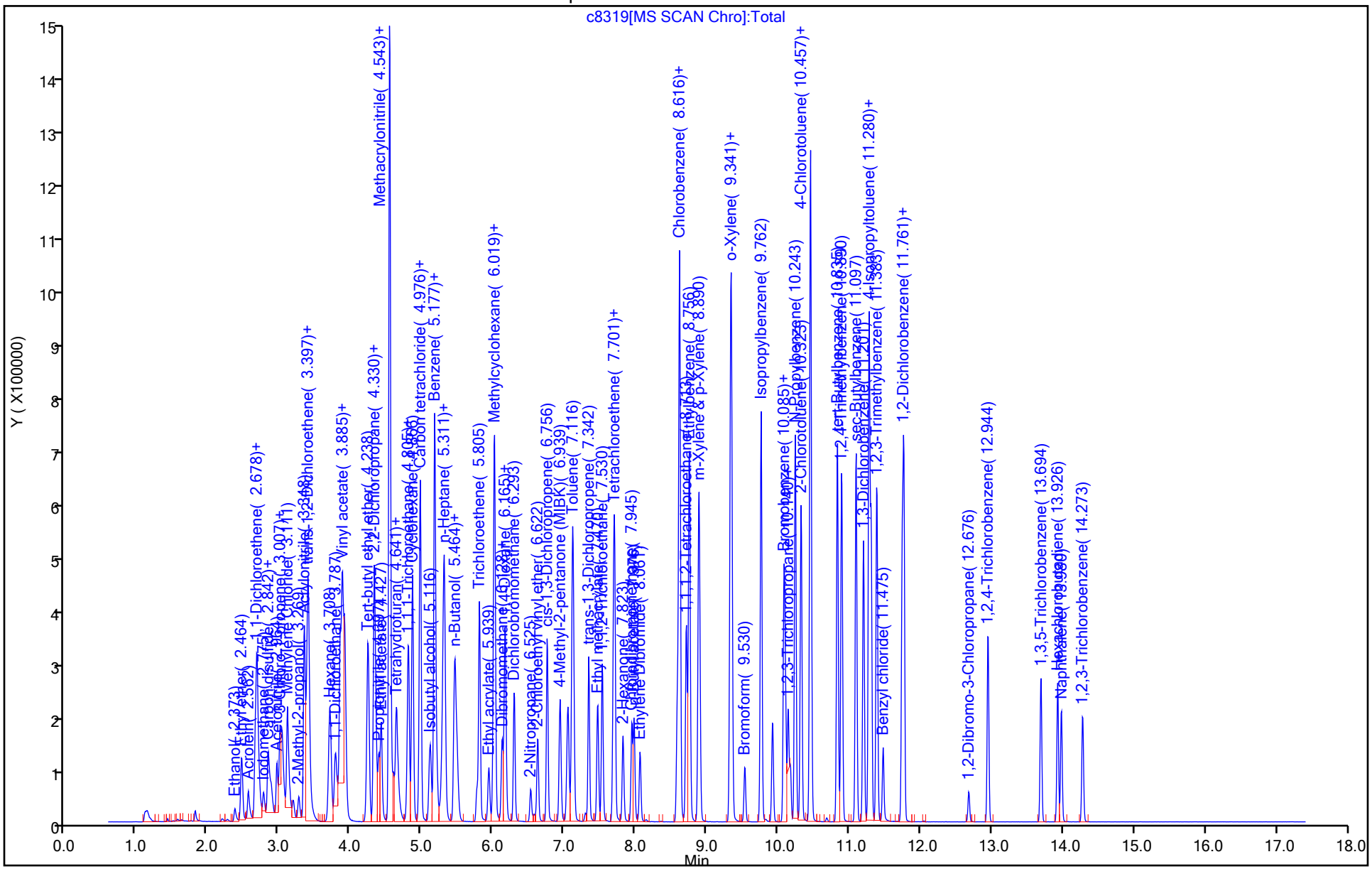
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:09:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D

Injection Date:	19-Nov-2020 17:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

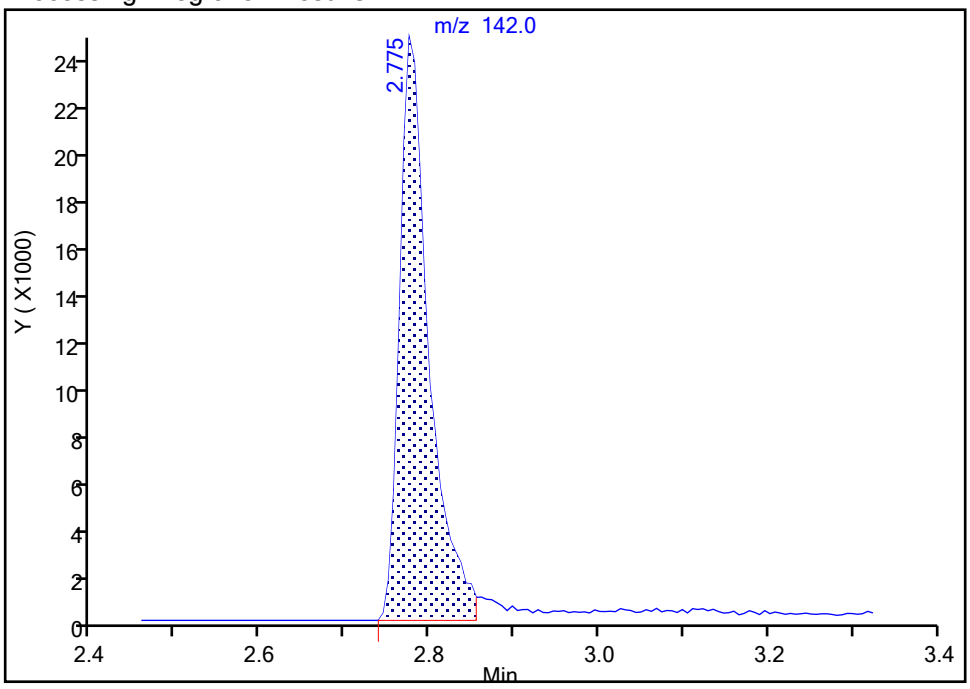
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Injection Date: 19-Nov-2020 17:42:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

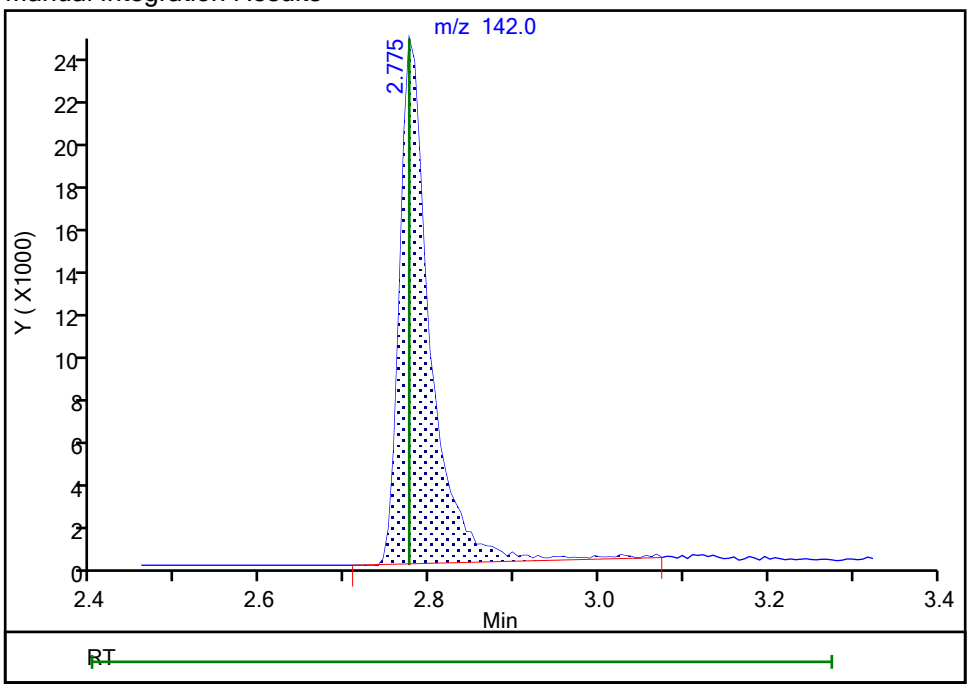
Processing Integration Results

RT: 2.78
Area: 58744
Amount: 35.175746
Amount Units: ug/l



Manual Integration Results

RT: 2.78
Area: 60737
Amount: 36.369149
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:57:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

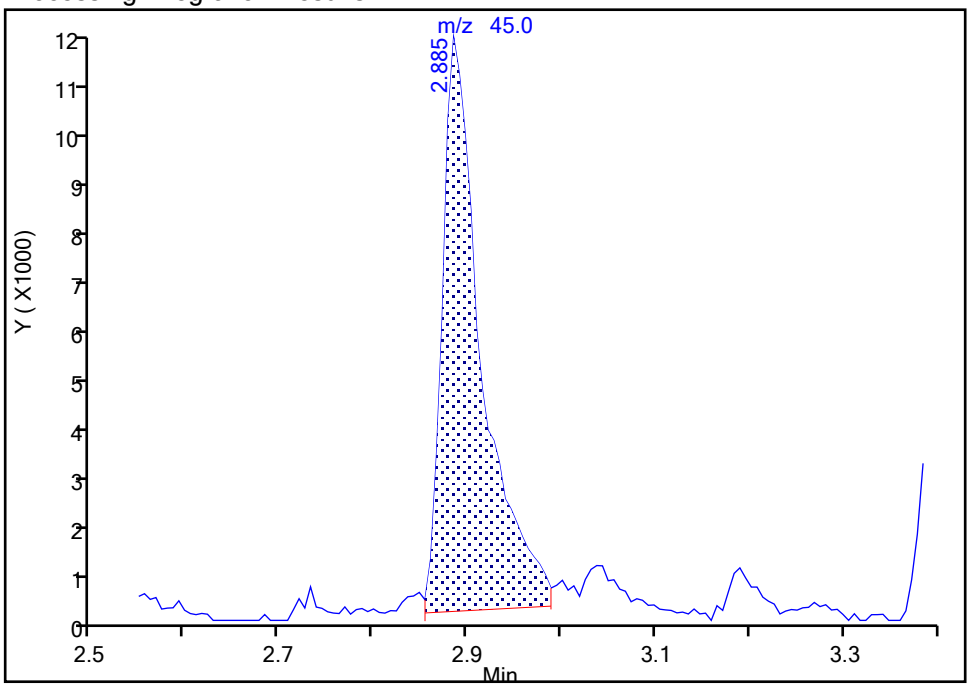
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Injection Date: 19-Nov-2020 17:42:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

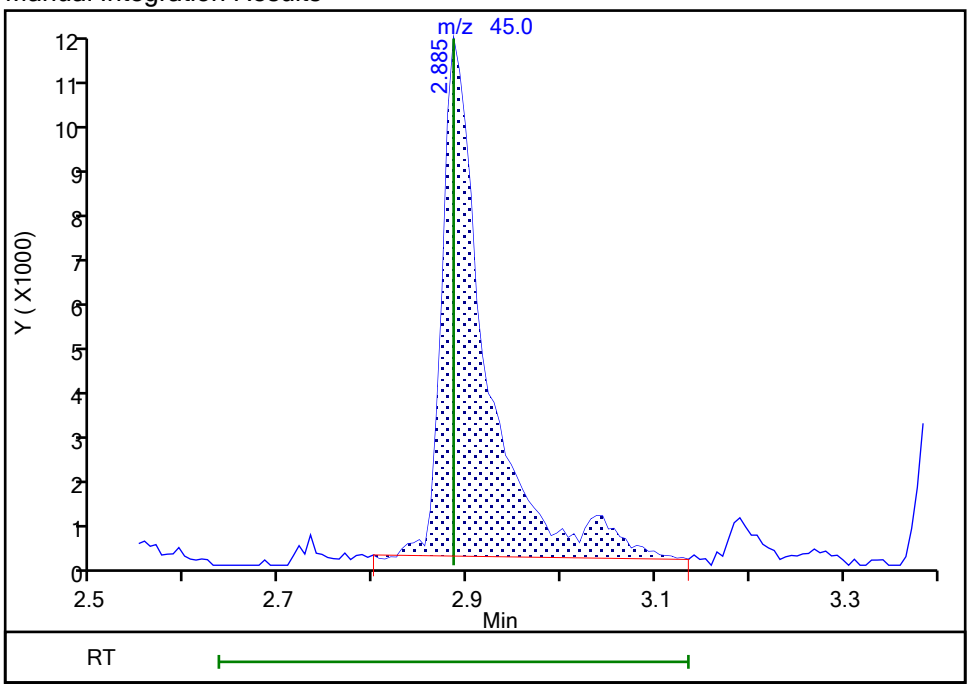
Processing Integration Results

RT: 2.89
Area: 31709
Amount: 379.1603
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 35463
Amount: 424.0487
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:57:37
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

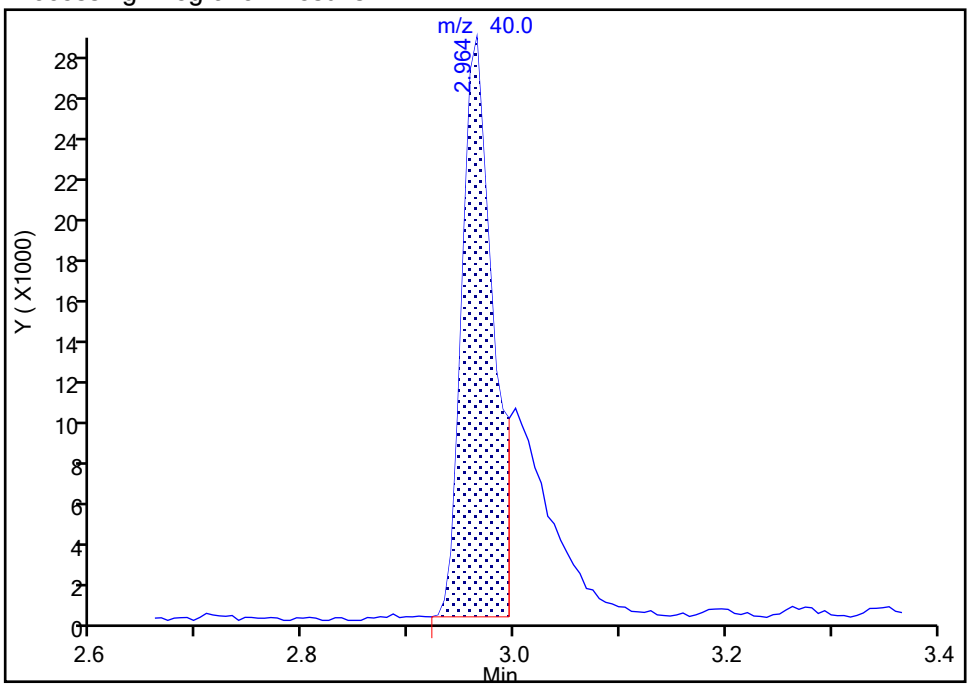
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Injection Date: 19-Nov-2020 17:42:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

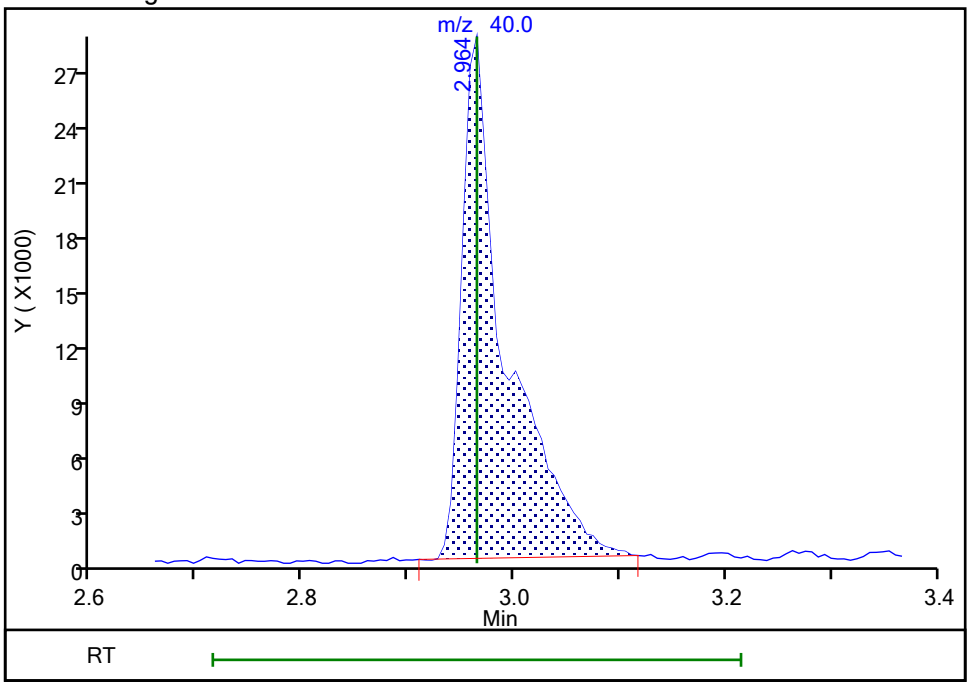
Processing Integration Results

RT: 2.96
Area: 57837
Amount: 337.3770
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 81193
Amount: 473.6181
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:57:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

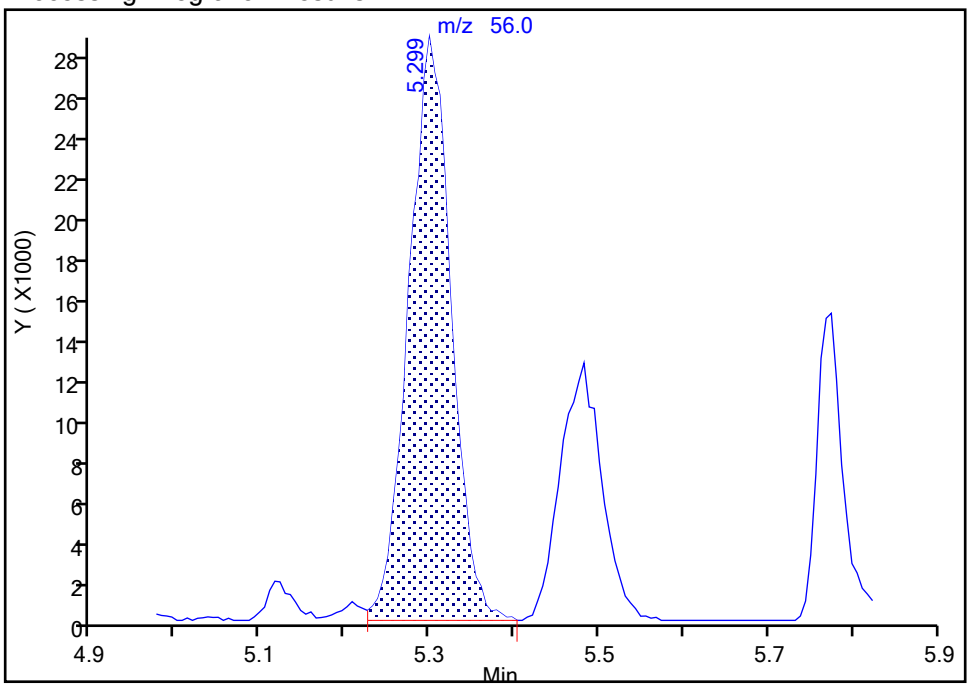
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Injection Date: 19-Nov-2020 17:42:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

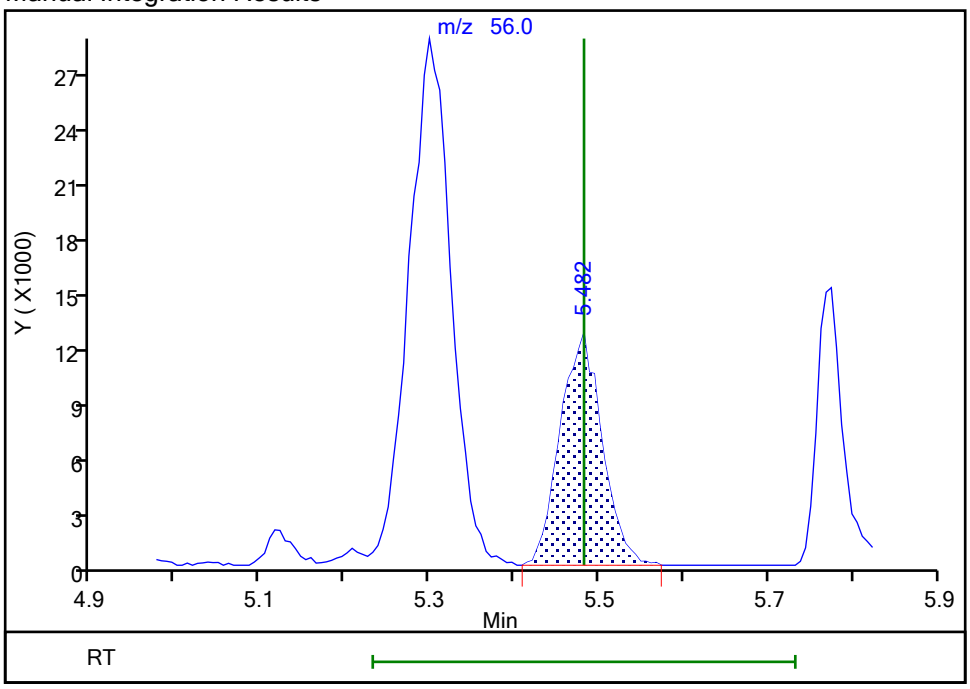
Processing Integration Results

RT: 5.30
Area: 98005
Amount: 1099.3678
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 42480
Amount: 476.5180
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:57:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299826/4 Calibration Date: 11/19/2020 17:42

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8319.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2406		53.7	50.0	7.4	20.0
Toluene-d8 (Surr)	Ave	1.282	1.344		52.4	50.0	4.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7994		48.9	50.0	-2.3	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 17:42:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-004
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:38 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 02:59:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.391	3.391	0.000	0	238	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	177479	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	31	6494	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	88	125754	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	57	59183	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	91	42700	50.0	53.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168969	50.0	52.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	47311	50.0	48.9	
$ 8 BFB	95	9.920	9.920	0.000	80	63968	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	98	27253	2000.0	1765.8	
18 Ethyl ether	59	2.464	2.464	0.000	95	78073	50.0	52.0	
19 Acrolein	56	2.562	2.562	0.000	98	56465	238.2	247.4	
20 1,1-Dichloroethene	96	2.659	2.659	0.000	94	91058	50.0	49.9	
21 112TCTFE	101	2.684	2.684	0.000	96	89864	50.0	49.6	
22 Acetone	43	2.714	2.714	0.000	97	55051	100.0	119.1	
23 Iodomethane	142	2.775	2.775	0.000	99	60737	50.0	36.4	M
24 Carbon disulfide	76	2.842	2.842	0.000	99	298124	50.0	55.2	
105 Isopropyl alcohol	45	2.885	2.885	0.000	96	35463	500.0	424.0	M
118 Acetonitrile	40	2.964	2.964	0.000	98	81193	500.0	473.6	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	82	55625	50.0	47.2	
26 Methyl acetate	43	3.037	3.037	0.000	99	129060	100.0	103.0	
27 Methylene Chloride	84	3.111	3.111	0.000	97	99903	50.0	46.2	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	42994	500.0	363.3	
30 Acrylonitrile	53	3.348	3.348	0.000	98	340094	500.0	530.6	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	93	106251	50.0	51.0	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	251811	50.0	52.1	
31 Hexane	57	3.708	3.708	0.000	95	134239	50.0	47.5	
32 1,1-Dichloroethane	63	3.787	3.787	0.000	97	206906	50.0	53.0	
33 Vinyl acetate	86	3.848	3.848	0.000	97	36269	100.0	93.8	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	233533	50.0	61.8	
36 Isopropyl ether	87	3.909	3.909	0.000	96	94383	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	97	313425	50.0	51.3	
38 2,2-Dichloropropane	77	4.330	4.330	0.000	77	122880	50.0	39.9	
39 cis-1,2-Dichloroethene	96	4.336	4.336	0.000	88	115292	50.0	48.4	
40 2-Butanone (MEK)	43	4.354	4.354	0.000	98	78098	100.0	105.0	
41 Propionitrile	54	4.397	4.397	0.000	99	122608	500.0	481.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	27298	100.0	93.5	
43 Methacrylonitrile	67	4.543	4.543	0.000	96	372573	500.0	492.8	
42 Chlorobromomethane	128	4.549	4.549	0.000	94	46994	50.0	47.2	
44 Tetrahydrofuran	71	4.604	4.604	0.000	83	16299	100.0	92.1	
45 Chloroform	83	4.641	4.641	0.000	96	197055	50.0	48.2	
46 1,1,1-Trichloroethane	97	4.812	4.812	0.000	97	177721	50.0	53.1	
47 Cyclohexane	56	4.866	4.866	0.000	96	199808	50.0	50.0	
48 Carbon tetrachloride	117	4.970	4.970	0.000	98	145284	50.0	50.1	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	91	160661	50.0	51.3	
108 Isobutyl alcohol	43	5.122	5.122	0.000	93	61049	1250.0	965.7	
51 1,2-Dichloroethane	62	5.177	5.177	0.000	96	175745	50.0	60.6	
50 Benzene	78	5.177	5.177	0.000	98	453976	50.0	49.5	
53 n-Heptane	43	5.311	5.311	0.000	81	161751	50.0	56.7	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	242320	50.0	44.0	
116 n-Butanol	56	5.482	5.482	0.000	62	42480	1250.0	476.5	a
54 Trichloroethene	95	5.805	5.805	0.000	96	119267	50.0	50.9	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	114023	50.0	51.5	
114 Methylcyclohexane	83	6.013	6.013	0.000	96	157853	50.0	41.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	87	111035	50.0	49.6	
56 Dibromomethane	93	6.122	6.122	0.000	94	58104	50.0	48.8	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	12023	1000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	122802	100.0	96.3	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	138242	50.0	51.1	
106 2-Nitropropane	43	6.525	6.525	0.000	99	37327	100.0	95.0	
59 2-Chloroethyl vinyl ether	63	6.628	6.628	0.000	94	61439	50.0	49.4	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	156979	50.0	48.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	171463	100.0	100.2	
62 Toluene	92	7.116	7.116	0.000	97	285145	50.0	45.7	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	134964	50.0	42.9	
64 Ethyl methacrylate	69	7.470	7.470	0.000	92	107570	50.0	44.2	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	71096	50.0	47.7	
66 Tetrachloroethene	166	7.689	7.695	-0.006	91	109164	50.0	42.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	153121	50.0	48.0	
68 2-Hexanone	43	7.823	7.823	0.000	98	111571	100.0	99.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	88734	50.0	44.7	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	141659	50.0	48.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	83392	50.0	45.4	
71 Chlorobenzene	112	8.616	8.616	0.000	88	290586	50.0	46.1	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	94996	50.0	46.6	
73 Ethylbenzene	91	8.756	8.756	0.000	99	536575	50.0	48.6	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	201522	50.0	46.9	
75 o-Xylene	106	9.335	9.335	0.000	99	189340	50.0	46.3	
76 Styrene	104	9.347	9.347	0.000	95	308135	50.0	45.5	
77 Bromoform	173	9.536	9.536	0.000	94	45934	50.0	41.9	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	502937	50.0	47.3	
79 Bromobenzene	156	10.085	10.085	0.000	98	115322	50.0	44.7	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	92656	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	91	30712	50.0	46.4	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	75	25245	50.0	45.8	
83 N-Propylbenzene	91	10.243	10.243	0.000	100	592433	50.0	48.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	348909	50.0	48.6	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	410828	50.0	48.6	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	403137	50.0	47.5	
87 tert-Butylbenzene	119	10.835	10.835	0.000	94	342583	50.0	46.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	392563	50.0	44.9	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	481578	50.0	46.0	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	208826	50.0	45.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	404580	50.0	45.9	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	208622	50.0	44.4	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	384165	50.0	45.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	16892	50.0	22.2	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	193548	50.0	43.8	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	347238	50.0	44.8	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	74	13739	50.0	48.8	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	102318	50.0	37.9	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	78725	50.0	34.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	45851	50.0	41.7	
98 Naphthalene	128	13.980	13.980	0.000	98	163009	50.0	33.1	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	58359	50.0	32.4	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	99.4	
S 100 Xylenes, Total	1				0		100.0	93.2	
S 102 1,3-Dichloropropene, Total	1				0		100.0	91.4	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

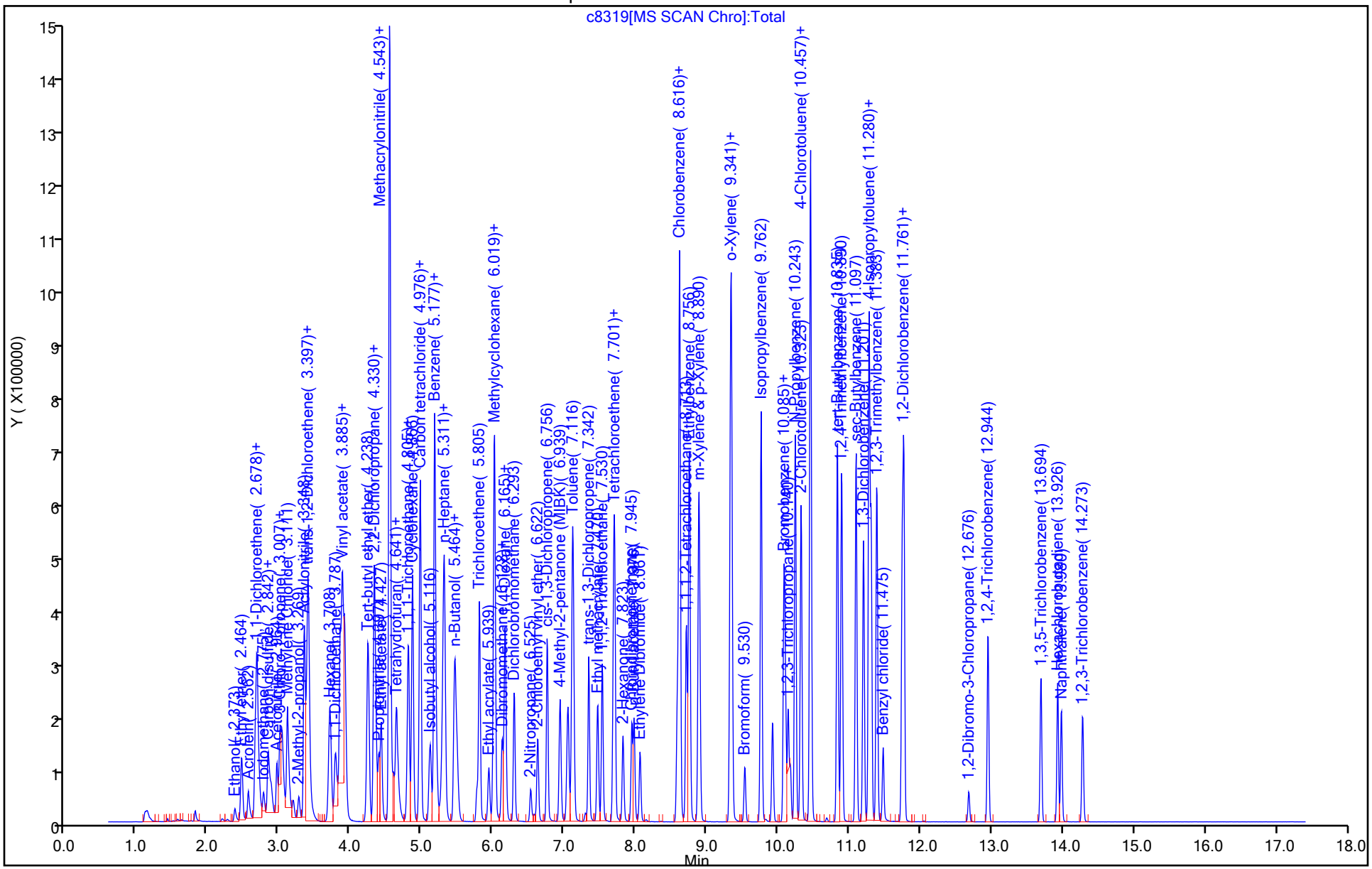
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:09:41 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8319.D

Injection Date:	19-Nov-2020 17:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299826/5 Calibration Date: 11/19/2020 18:06

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8320.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.023	0.7176	0.1000	14.0	20.0	-29.8	50.0
Chloromethane	Ave	0.7536	0.6692	0.1000	17.8	20.0	-11.2	50.0
Vinyl chloride	Ave	0.9214	0.8755	0.1000	19.0	20.0	-5.0	20.0
1,3-Butadiene	Ave	0.9321	0.8368		18.0	20.0	-10.2	20.0
Bromomethane	Lin2		0.1685	0.1000	13.2	20.0	-33.8	50.0
Chloroethane	Ave	0.5330	0.5167	0.1000	19.4	20.0	-3.1	20.0
Dichlorofluoromethane	Ave	1.275	1.280		20.1	20.0	0.4	20.0
Trichlorofluoromethane	Ave	1.218	1.245	0.1000	20.4	20.0	2.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2241	0.2354		52.5	50.0	5.0	20.0
Toluene-d8 (Surr)	Ave	1.282	1.312		51.2	50.0	2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7852		48.0	50.0	-4.0	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8320.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 18:06:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-005
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub24

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 03:00:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.379	3.391	-0.012	0	135	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	170570	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	96	5462	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	121479	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	55537	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	40145	50.0	52.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	159336	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.001	91	43607	50.0	48.0	
$ 8 BFB	95	9.920	9.920	0.000	82	58152	NR	NR	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	48959	20.0	14.0	
10 Chloromethane	50	1.526	1.526	0.000	99	45656	20.0	17.8	M
11 Vinyl chloride	62	1.538	1.532	0.006	100	59737	20.0	19.0	
12 Butadiene	54	1.575	1.568	0.007	96	57090	20.0	18.0	
13 Bromomethane	94	1.843	1.837	0.006	93	11497	20.0	13.2	M
14 Chloroethane	64	1.922	1.916	0.006	98	35256	20.0	19.4	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	99	87336	20.0	20.1	
16 Trichlorofluoromethane	101	2.178	2.166	0.012	99	84973	20.0	20.4	M

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

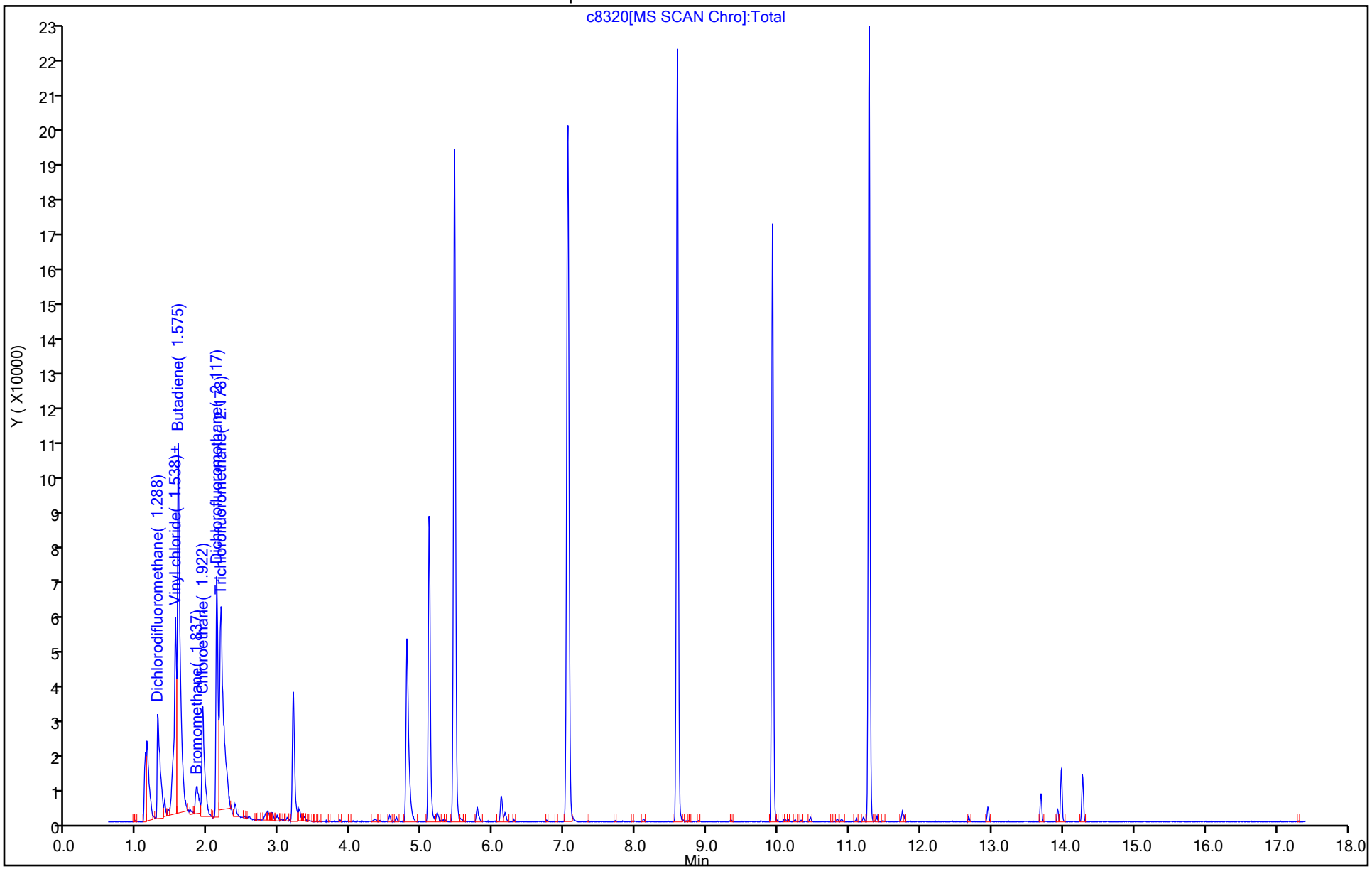
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_GASES_00414	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:09:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8320.D

Injection Date:	19-Nov-2020 18:06:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

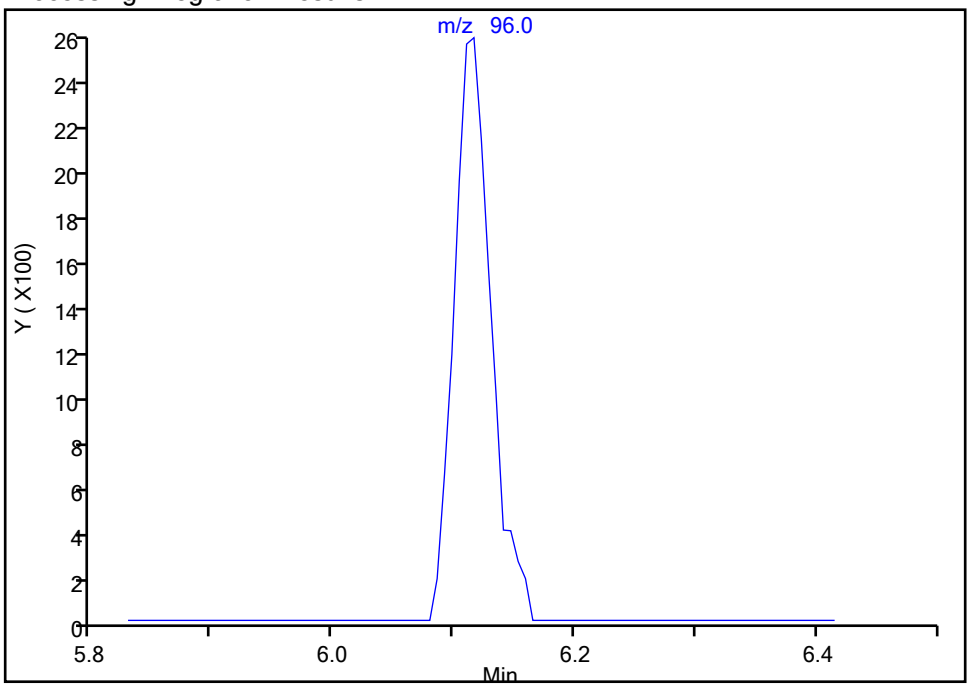
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8320.D
Injection Date: 19-Nov-2020 18:06:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

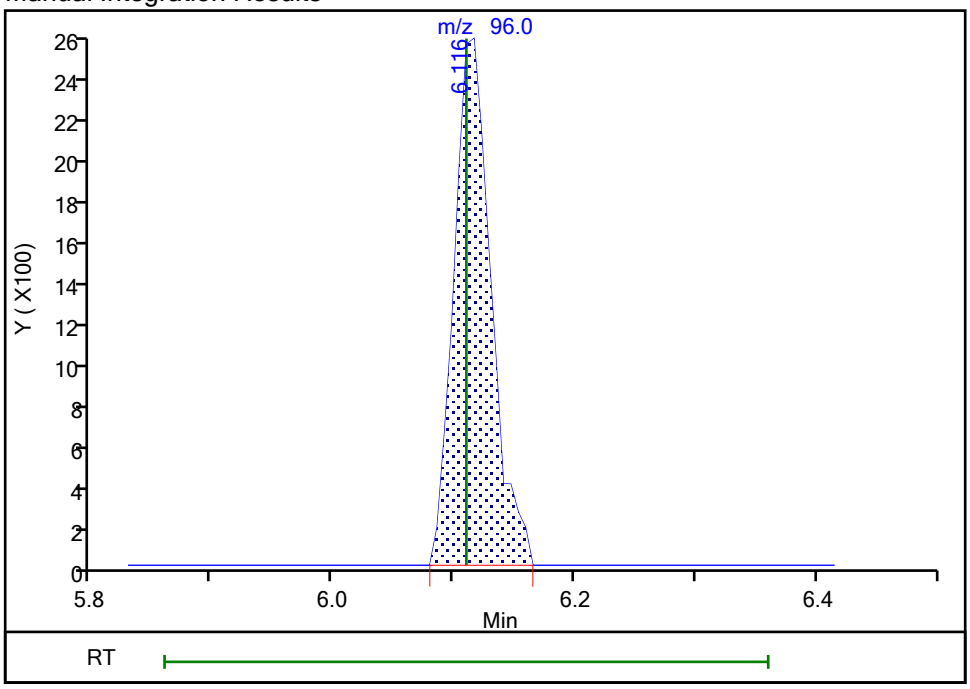
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.12
Area: 5462
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 20-Nov-2020 06:58:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

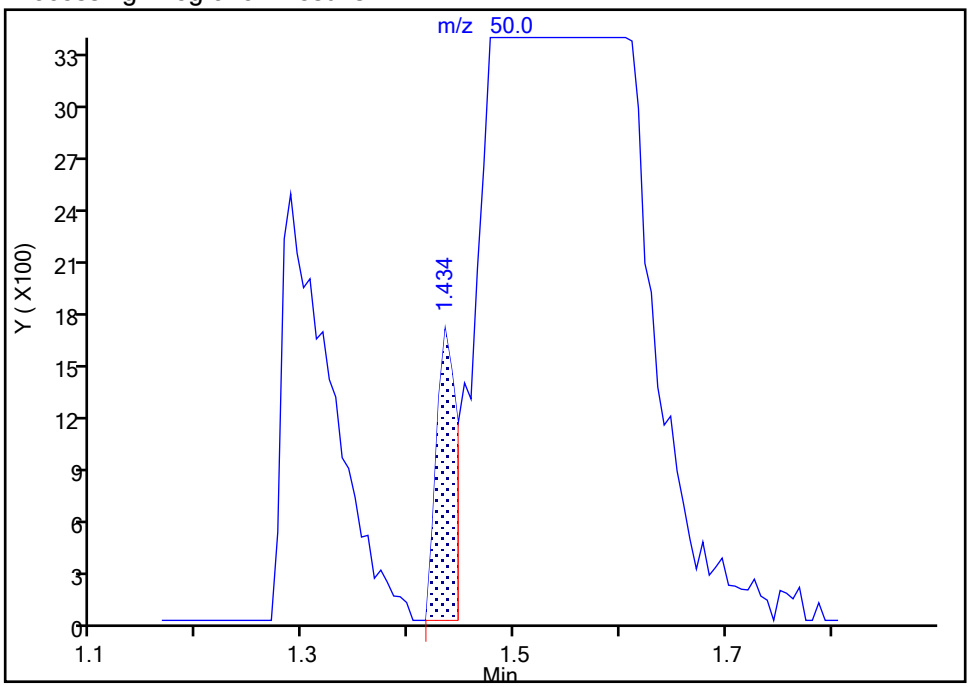
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8320.D
Injection Date: 19-Nov-2020 18:06:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

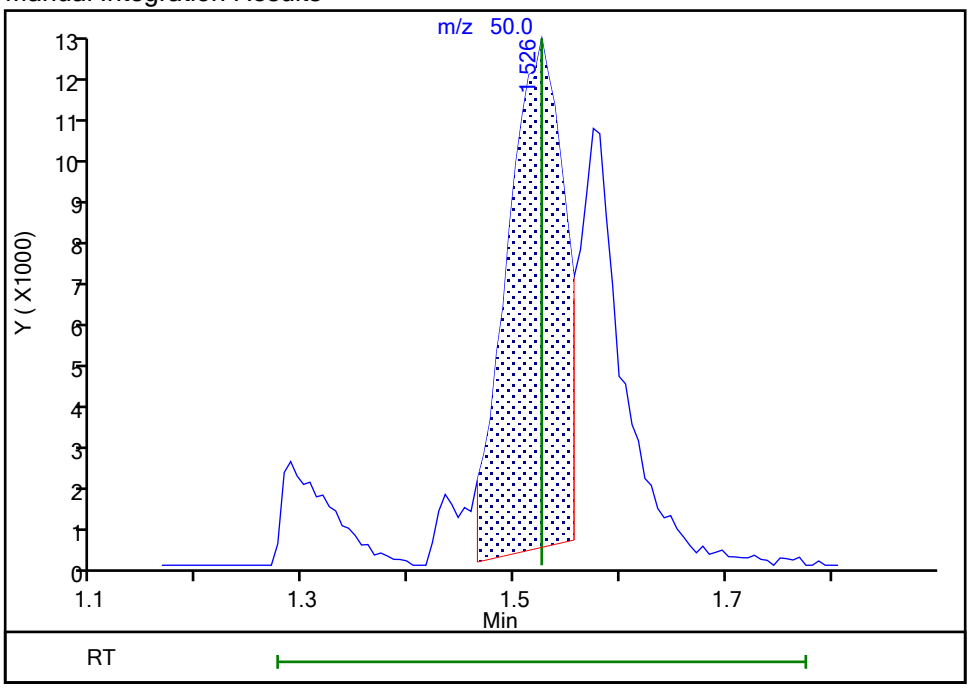
Processing Integration Results

RT: 1.43
Area: 2218
Amount: 0.862703
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 45656
Amount: 17.758151
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:58:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

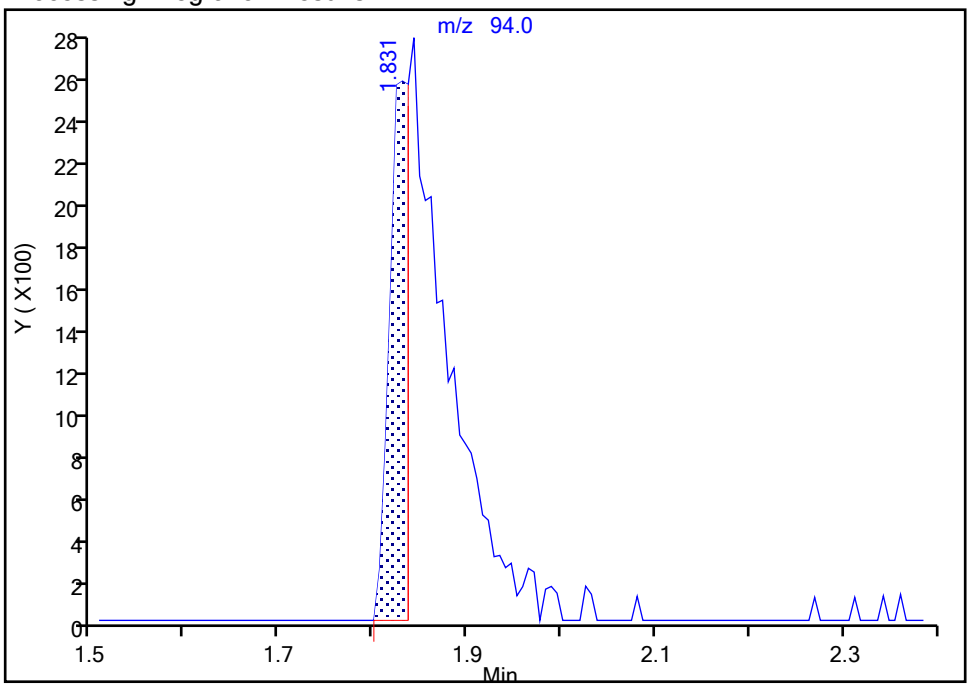
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8320.D
Injection Date: 19-Nov-2020 18:06:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

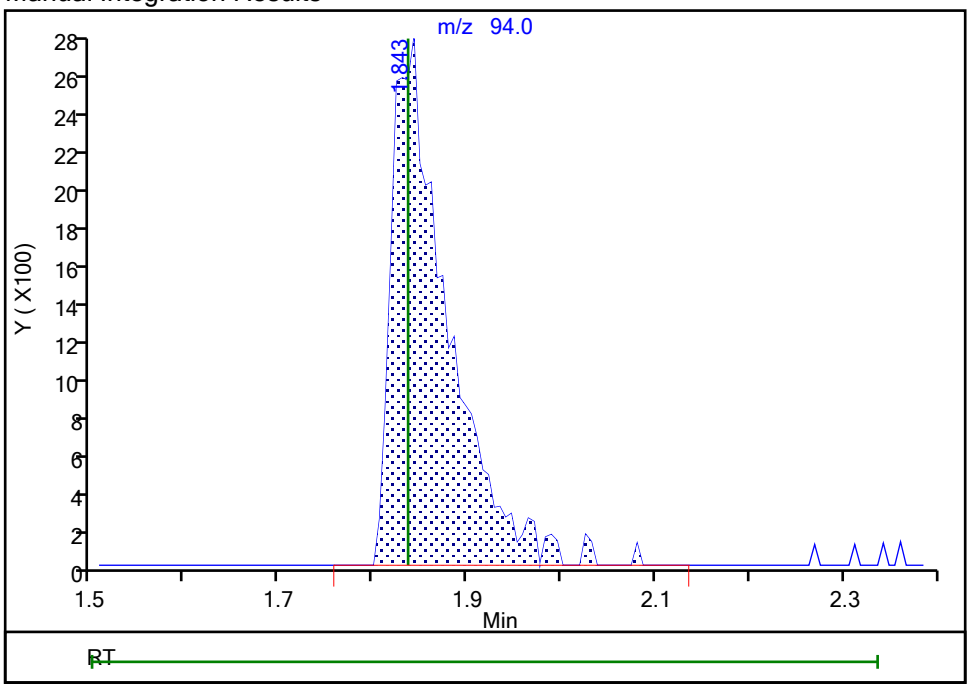
Processing Integration Results

RT: 1.83
Area: 3778
Amount: 4.654160
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 11497
Amount: 13.234833
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 03:00:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

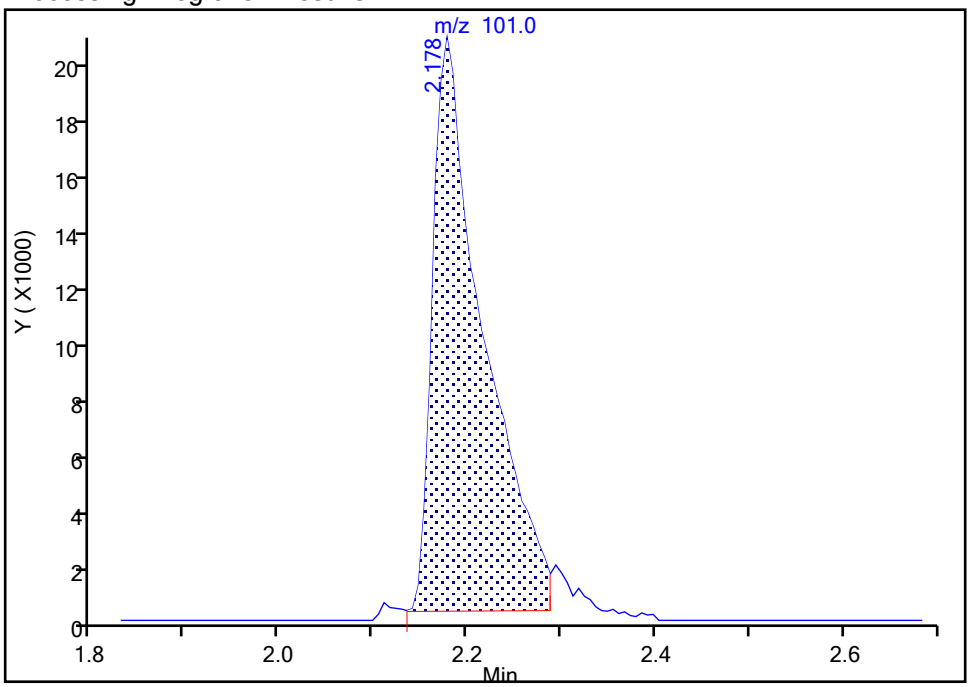
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8320.D
Injection Date: 19-Nov-2020 18:06:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

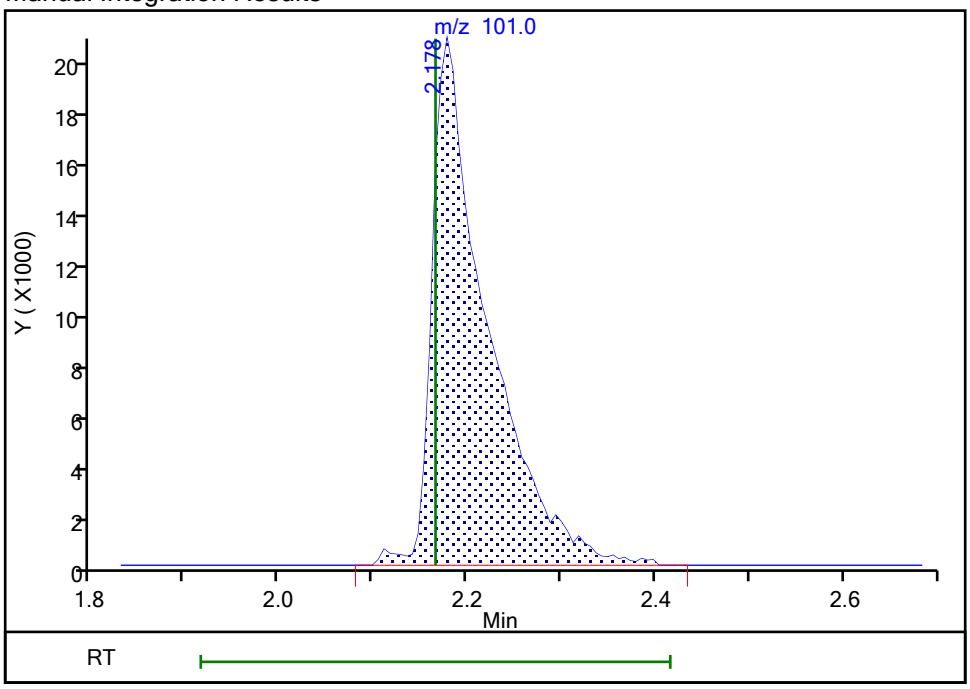
Processing Integration Results

RT: 2.18
Area: 76721
Amount: 18.457147
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 84973
Amount: 20.442371
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:58:39
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/19 Calibration Date: 11/09/2020 09:04

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3741.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0468	0.0431		1840	2000	-7.9	30.0
Diethyl ether	Ave	1.297	1.491		57.5	50.0	14.9	30.0
Acrolein	Ave	0.5290	0.5624		252	237	6.3	30.0
1,1-Dichloroethene	Lin2		1.323	0.1000	57.1	50.0	14.2	30.0
1,1,2-Trichlorotrifluoroethane	Ave	0.9117	0.9905	0.1000	54.3	50.0	8.6	30.0
Acetone	Ave	1.146	1.093	0.0500	95.3	100	-4.7	30.0
Iodomethane	Lin2		1.057		69.0	50.0	37.9*	30.0
Carbon disulfide	Ave	3.103	3.466	0.1000	55.9	50.0	11.7	30.0
Isopropyl alcohol	Ave	0.1992	0.1925		483	500	-3.4	30.0
Acetonitrile	Ave	0.3365	0.3288		489	500	-2.3	30.0
Allyl chloride	Ave	0.4907	0.4286		43.7	50.0	-12.7	30.0
Methyl acetate	Ave	2.472	2.531	0.1000	102	100	2.4	30.0
Methylene chloride	Ave	1.256	1.190	0.1000	47.4	50.0	-5.2	30.0
tert-Butanol	Ave	0.1744	0.1776		509	500	1.8	30.0
Acrylonitrile	Lin2		1.399		488	500	-2.4	30.0
trans-1,2-Dichloroethene	Ave	1.278	1.344	0.1000	52.6	50.0	5.2	30.0
Methyl tert-butyl ether	Ave	2.698	2.690	0.1000	49.9	50.0	-0.3	30.0
Hexane	Ave	1.394	1.460		52.4	50.0	4.7	30.0
1,1-Dichloroethane	Ave	2.887	2.861	0.2000	49.6	50.0	-0.9	30.0
Chloroprene	Ave	3.041	3.146		51.7	50.0	3.5	30.0
Di-isopropyl ether (DIPE)	Ave	0.5669	0.6513		57.4	50.0	14.9	30.0
tert-Butyl ethyl ether	Ave	5.016	4.851		48.4	50.0	-3.3	30.0
2,2-Dichloropropane	Ave	1.622	1.573		48.5	50.0	-3.1	30.0
cis-1,2-Dichloroethene	Ave	1.558	1.671	0.1000	53.6	50.0	7.3	30.0
2-Butanone (MEK)	Ave	1.233	1.286	0.0500	104	100	4.3	30.0
Propionitrile	Ave	0.5638	0.5706		506	500	1.2	30.0
Ethyl acetate	Ave	3.018	3.274		108	100	8.5	30.0
Bromochloromethane	Ave	0.6721	0.6563		48.8	50.0	-2.4	30.0
Methacrylonitrile	Ave	0.7109	0.7634		537	500	7.4	30.0
Tetrahydrofuran	Ave	0.1725	0.1714		99.4	100	-0.6	30.0
Chloroform	Ave	2.279	2.283	0.2000	50.1	50.0	0.2	30.0
1,1,1-Trichloroethane	Ave	1.988	2.060	0.1000	51.8	50.0	3.6	30.0
Cyclohexane	Ave	3.762	3.835	0.1000	51.0	50.0	1.9	30.0
Carbon tetrachloride	Ave	1.290	1.271	0.1000	49.3	50.0	-1.4	30.0
1,1-Dichloropropene	Ave	1.740	1.833		52.7	50.0	5.4	30.0
Benzene	Ave	5.183	5.575	0.5000	53.8	50.0	7.6	30.0
Isobutyl alcohol	Ave	0.1161	0.1138		1230	1250	-2.0	30.0
1,2-Dichloroethane	Ave	2.035	2.366	0.1000	58.1	50.0	16.3	30.0
n-Butanol	Ave	0.0994	0.1005		1260	1250	1.1	30.0
tert-Amyl methyl ether	Ave	2.816	2.610		46.4	50.0	-7.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/19 Calibration Date: 11/09/2020 09:04

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3741.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Lin1		2.106		49.5	50.0	-1.1	30.0
Trichloroethene	Ave	1.548	1.655	0.2000	53.5	50.0	6.9	30.0
Ethyl acrylate	Ave	2.039	1.798		44.1	50.0	-11.8	30.0
Methylcyclohexane	Ave	1.735	1.841	0.1000	53.1	50.0	6.1	30.0
1,2-Dichloropropane	Ave	1.548	1.647	0.1000	53.2	50.0	6.4	30.0
Dibromomethane	Ave	0.6465	0.7015		54.3	50.0	8.5	30.0
Methyl methacrylate	Ave	0.9104	1.015		111	100	11.5	30.0
1,4-Dioxane	Ave	5.434	5.884		1080	1000	8.3	30.0
Bromodichloromethane	Ave	1.005	0.995	0.2000	49.5	50.0	-0.9	30.0
2-Nitropropane	Lin1		0.6043		80.2	100	-19.8	30.0
2-Chloroethyl vinyl ether	Ave	0.9715	1.021		52.6	50.0	5.1	30.0
cis-1,3-Dichloropropene	Ave	0.8968	0.9867	0.2000	55.0	50.0	10.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.642	2.690	0.1000	102	100	1.8	30.0
Toluene	Ave	3.294	3.580	0.4000	54.3	50.0	8.7	30.0
trans-1,3-Dichloropropene	Ave	0.7003	0.7332	0.1000	52.3	50.0	4.7	30.0
Ethyl methacrylate	Lin2		1.560		52.8	50.0	5.6	30.0
1,1,2-Trichloroethane	Ave	0.8296	0.8931	0.1000	53.8	50.0	7.7	30.0
Tetrachloroethene	Ave	1.242	1.403	0.2000	56.5	50.0	12.9	30.0
1,3-Dichloropropane	Lin2		1.384		47.5	50.0	-4.9	30.0
2-Hexanone	Ave	1.788	1.865	0.1000	104	100	4.3	30.0
Chlorodibromomethane	Ave	0.5818	0.5680	0.1000	48.8	50.0	-2.4	30.0
n-Butyl acetate	Lin2		3.964		49.0	50.0	-1.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.7742	0.5266	0.1000	34.0	50.0	-32.0*	30.0
Chlorobenzene	Ave	4.689	4.885	0.5000	52.1	50.0	4.2	30.0
1,1,1,2-Tetrachloroethane	Ave	1.566	1.547		49.4	50.0	-1.2	30.0
Ethylbenzene	Ave	6.482	7.347	0.1000	56.7	50.0	13.3	30.0
m,p-Xylene	Ave	2.567	2.834	0.1000	55.2	50.0	10.4	30.0
o-Xylene	Ave	2.419	2.597	0.3000	53.7	50.0	7.3	30.0
Styrene	Ave	4.179	4.509	0.3000	54.0	50.0	7.9	30.0
Bromoform	Ave	0.3885	0.3651	0.1000	47.0	50.0	-6.0	30.0
Isopropylbenzene	Ave	5.736	6.290	0.1000	54.8	50.0	9.7	30.0
Bromobenzene	Ave	1.716	1.765		51.4	50.0	2.9	30.0
1,1,2,2-Tetrachloroethane	Ave	1.582	1.591	0.2000	50.3	50.0	0.5	30.0
1,2,3-Trichloropropane	Lin1		1.435		57.4	50.0	14.8	30.0
n-Propylbenzene	Ave	6.370	6.785		53.3	50.0	6.5	30.0
2-Chlorotoluene	Ave	4.569	4.691		51.3	50.0	2.7	30.0
1,3,5-Trimethylbenzene	Ave	5.386	5.931		55.1	50.0	10.1	30.0
4-Chlorotoluene	Ave	5.314	5.605		52.7	50.0	5.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3145	0.2957		47.0	50.0	-6.0	30.0
tert-Butylbenzene	Ave	7.149	7.980		55.8	50.0	11.6	30.0
1,2,4-Trimethylbenzene	Ave	4.953	4.885		49.3	50.0	-1.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/19 Calibration Date: 11/09/2020 09:04

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3741.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
sec-Butylbenzene	Ave	5.753	6.159		53.5	50.0	7.1	30.0
1,3-Dichlorobenzene	Lin2		3.198	0.6000	52.4	50.0	4.8	30.0
p-Isopropyltoluene	Lin2		9.325		57.5	50.0	15.1	30.0
1,4-Dichlorobenzene	Ave	6.458	6.933	0.5000	53.7	50.0	7.3	30.0
1,2,3-Trimethylbenzene	Lin2		10.41		55.8	50.0	11.6	30.0
Benzyl chloride	Ave	0.4985	0.3949		39.6	50.0	-20.8	30.0
1,2-Dichlorobenzene	Ave	5.809	6.098	0.4000	52.5	50.0	5.0	30.0
n-Butylbenzene	Ave	7.285	7.728		53.0	50.0	6.1	30.0
1,2-Dibromo-3-chloropropane	Ave	0.3712	0.4739	0.0500	63.8	50.0	27.7	30.0
1,3,5-Trichlorobenzene	Lin2		4.273		59.5	50.0	19.0	30.0
1,2,4-Trichlorobenzene	Ave	2.994	3.557	0.2000	59.4	50.0	18.8	30.0
Hexachlorobutadiene	Ave	1.339	1.717		64.1	50.0	28.2	30.0
Naphthalene	Ave	9.675	12.42		64.2	50.0	28.4	30.0
1,2,3-Trichlorobenzene	Ave	2.701	3.278		60.7	50.0	21.4	30.0
1-Chlorohexane	None				1.00	50.0	-100.0*	30.0
Isooctane	None				1.00	50.0	-100.0*	30.0
tert-Amyl alcohol	None				50.0	500	-100.0*	30.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2162		51.9	50.0	3.8	30.0
Toluene-d8 (Surr)	Ave	1.124	1.194		53.1	50.0	6.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.7371		57.3	50.0	14.6	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 09-Nov-2020 09:04:30 ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:42:05 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 09-Nov-2020 09:33:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	49196	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	82272	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.898	5.892	0.006	32	6803	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.337	0.006	90	62060	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	53	29556	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	40	17789	50.0	51.9	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	97	74117	50.0	53.1	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	21785	50.0	57.3	
17 Ethanol	45	2.155	2.167	-0.012	99	141758	2000.0	1841.7	
18 Ethyl ether	59	2.222	2.228	-0.006	94	122646	50.0	57.5	M
19 Acrolein	56	2.332	2.338	-0.006	99	219378	237.1	252.0	M
20 1,1-Dichloroethene	96	2.405	2.411	-0.006	89	108818	50.0	57.1	M
21 112TCTFE	101	2.423	2.429	-0.006	93	81487	50.0	54.3	M
22 Acetone	43	2.484	2.490	-0.006	97	179777	100.0	95.3	
105 Isopropyl alcohol	45	2.667	2.496	0.171	99	158349	500.0	483.0	
23 Iodomethane	142	2.533	2.545	-0.012	99	86927	50.0	69.0	
24 Carbon disulfide	76	2.582	2.588	-0.006	97	285136	50.0	55.9	
25 3-Chloro-1-propene	76	2.759	2.630	0.129	87	35262	50.0	43.7	
118 Acetonitrile	40	2.740	2.746	-0.006	95	270508	500.0	488.6	
26 Methyl acetate	43	2.801	2.807	-0.006	99	416543	100.0	102.4	
27 Methylene Chloride	84	2.868	2.874	-0.006	86	97910	50.0	47.4	
35 2-Methyl-2-propanol	59	3.051	3.051	0.000	96	146106	500.0	509.0	
30 Acrylonitrile	53	3.118	3.130	-0.012	97	1150634	500.0	487.8	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	89	110597	50.0	52.6	
29 Methyl tert-butyl ether	73	3.155	3.149	0.006	90	221323	50.0	49.9	
31 Hexane	57	3.399	3.392	0.007	95	120114	50.0	52.4	
32 1,1-Dichloroethane	63	3.527	3.533	-0.006	96	235365	50.0	49.6	M
34 2-Chloro-1,3-butadiene	53	3.612	3.618	-0.006	89	258854	50.0	51.7	M
36 Isopropyl ether	87	3.636	3.642	-0.006	97	53584	50.0	57.4	EM
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	95	399075	50.0	48.4	M
38 2,2-Dichloropropane	77	4.075	4.075	0.000	85	129384	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.088	4.081	0.007	90	137507	50.0	53.6	
40 2-Butanone (MEK)	43	4.130	4.136	-0.006	95	211555	100.0	104.3	
41 Propionitrile	54	4.179	4.185	-0.006	99	469419	500.0	506.0	
104 Ethyl acetate	43	4.203	4.203	0.000	98	538746	100.0	108.5	
42 Chlorobromomethane	128	4.307	4.307	0.000	77	53995	50.0	48.8	
43 Methacrylonitrile	67	4.325	4.319	0.006	95	628095	500.0	537.0	
44 Tetrahydrofuran	71	4.368	4.374	-0.006	83	28207	100.0	99.4	
45 Chloroform	83	4.398	4.411	-0.013	94	187795	50.0	50.1	
46 1,1,1-Trichloroethane	97	4.557	4.557	0.000	96	169509	50.0	51.8	
47 Cyclohexane	56	4.600	4.587	0.013	90	315551	50.0	51.0	
48 Carbon tetrachloride	117	4.709	4.709	0.000	95	104554	50.0	49.3	
49 1,1-Dichloropropene	75	4.715	4.721	-0.006	84	150828	50.0	52.7	
108 Isobutyl alcohol	43	4.917	4.911	0.006	90	233989	1250.0	1225.1	
50 Benzene	78	4.917	4.917	0.000	91	458669	50.0	53.8	
51 1,2-Dichloroethane	62	4.941	4.947	-0.006	94	194680	50.0	58.1	
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	87	214767	50.0	46.4	
116 n-Butanol	56	5.008	5.203	-0.195	50	206794	1250.0	1263.8	
53 n-Heptane	43	5.203	5.203	0.000	95	173231	50.0	49.5	
54 Trichloroethene	132	5.557	5.557	0.000	93	136182	50.0	53.5	M
117 Ethyl acrylate	55	5.715	5.740	-0.025	96	147962	50.0	44.1	M
114 Methylcyclohexane	83	5.734	5.746	-0.012	92	151440	50.0	53.1	
55 1,2-Dichloropropane	63	5.776	5.776	0.000	94	135466	50.0	53.2	
106 2-Nitropropane	43	6.307	5.874	0.433	97	99436	100.0	80.2	a
56 Dibromomethane	93	5.886	5.886	0.000	95	57712	50.0	54.3	
57 Methyl methacrylate	69	5.935	5.935	0.000	88	166994	100.0	111.5	
115 1,4-Dioxane	58	5.947	5.947	0.000	33	40028	1000.0	1082.8	M
58 Dichlorobromomethane	83	6.063	6.063	0.000	95	81889	50.0	49.5	
59 2-Chloroethyl vinyl ether	63	6.398	6.392	0.006	84	84009	50.0	52.6	
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	82	81178	50.0	55.0	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.715	-0.006	97	442602	100.0	101.8	
62 Toluene	92	6.867	6.861	0.006	97	294547	50.0	54.3	
63 trans-1,3-Dichloropropene	75	7.111	7.105	0.006	90	60322	50.0	52.3	
64 Ethyl methacrylate	69	7.239	7.239	0.000	86	128380	50.0	52.8	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	93	73480	50.0	53.8	
66 Tetrachloroethene	166	7.441	7.434	0.007	96	115417	50.0	56.5	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	88	113833	50.0	47.5	E
68 2-Hexanone	43	7.599	7.599	0.000	98	306834	100.0	104.3	
69 Chlorodibromomethane	129	7.709	7.709	0.000	88	46733	50.0	48.8	
109 n-Butyl acetate	43	7.758	7.758	0.000	96	326147	50.0	49.0	
70 Ethylene Dibromide	107	7.819	7.818	0.001	100	43322	50.0	34.0	E
71 Chlorobenzene	112	8.373	8.379	-0.006	91	303183	50.0	52.1	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	94	95986	50.0	49.4	
73 Ethylbenzene	91	8.514	8.556	-0.042	98	455945	50.0	56.7	
74 m-Xylene & p-Xylene	106	8.648	8.647	0.001	98	175859	50.0	55.2	
75 o-Xylene	106	9.087	9.093	-0.005	98	161177	50.0	53.7	
76 Styrene	104	9.111	9.111	0.000	91	279848	50.0	54.0	
77 Bromoform	173	9.294	9.294	0.000	95	22657	50.0	47.0	
78 Isopropylbenzene	105	9.526	9.519	0.007	96	390382	50.0	54.8	
79 Bromobenzene	156	9.843	9.836	0.007	91	109538	50.0	51.4	
80 1,1,2,2-Tetrachloroethane	83	9.879	9.879	0.000	96	98725	50.0	50.3	
81 1,2,3-Trichloropropane	75	9.910	9.909	0.001	93	89074	50.0	57.4	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	421074	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 2-Chlorotoluene	91	10.080	10.086	-0.006	95	291114	50.0	51.3	
85 4-Chlorotoluene	91	10.214	10.208	0.006	98	347866	50.0	52.7	
82 trans-1,4-Dichloro-2-butene	53	10.214	10.208	0.006	44	18354	50.0	47.0	
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	95	368106	50.0	55.1	
87 tert-Butylbenzene	119	10.592	10.592	0.000	98	495208	50.0	55.8	
88 1,2,4-Trimethylbenzene	105	10.653	10.653	0.000	98	303136	50.0	49.3	
89 sec-Butylbenzene	105	10.855	10.854	0.001	95	382206	50.0	53.5	
90 1,3-Dichlorobenzene	146	10.958	10.958	0.000	97	198494	50.0	52.4	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	97	275616	50.0	57.5	
92 1,4-Dichlorobenzene	146	11.068	11.068	0.000	94	204914	50.0	53.7	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	307772	50.0	55.8	
113 Benzyl chloride	126	11.239	11.238	0.001	99	11671	50.0	39.6	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	180240	50.0	52.5	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	228400	50.0	53.0	
95 1,2-Dibromo-3-Chloropropane	75	12.440	12.433	0.007	78	14006	50.0	63.8	
112 1,3,5-Trichlorobenzene	180	12.702	12.695	0.007	97	126299	50.0	59.5	
96 1,2,4-Trichlorobenzene	180	13.445	13.445	0.000	95	105140	50.0	59.4	
97 Hexachlorobutadiene	225	13.677	13.671	0.006	96	50733	50.0	64.1	
98 Naphthalene	128	13.732	13.732	0.000	97	367220	50.0	64.2	
99 1,2,3-Trichlorobenzene	180	14.031	14.024	0.007	96	96892	50.0	60.7	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	106.2	
S 100 Xylenes, Total	1				0		100.0	108.9	
S 102 1,3-Dichloropropene, Total	1				0		100.0	107.4	

QC Flag Legend

Processing Flags
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

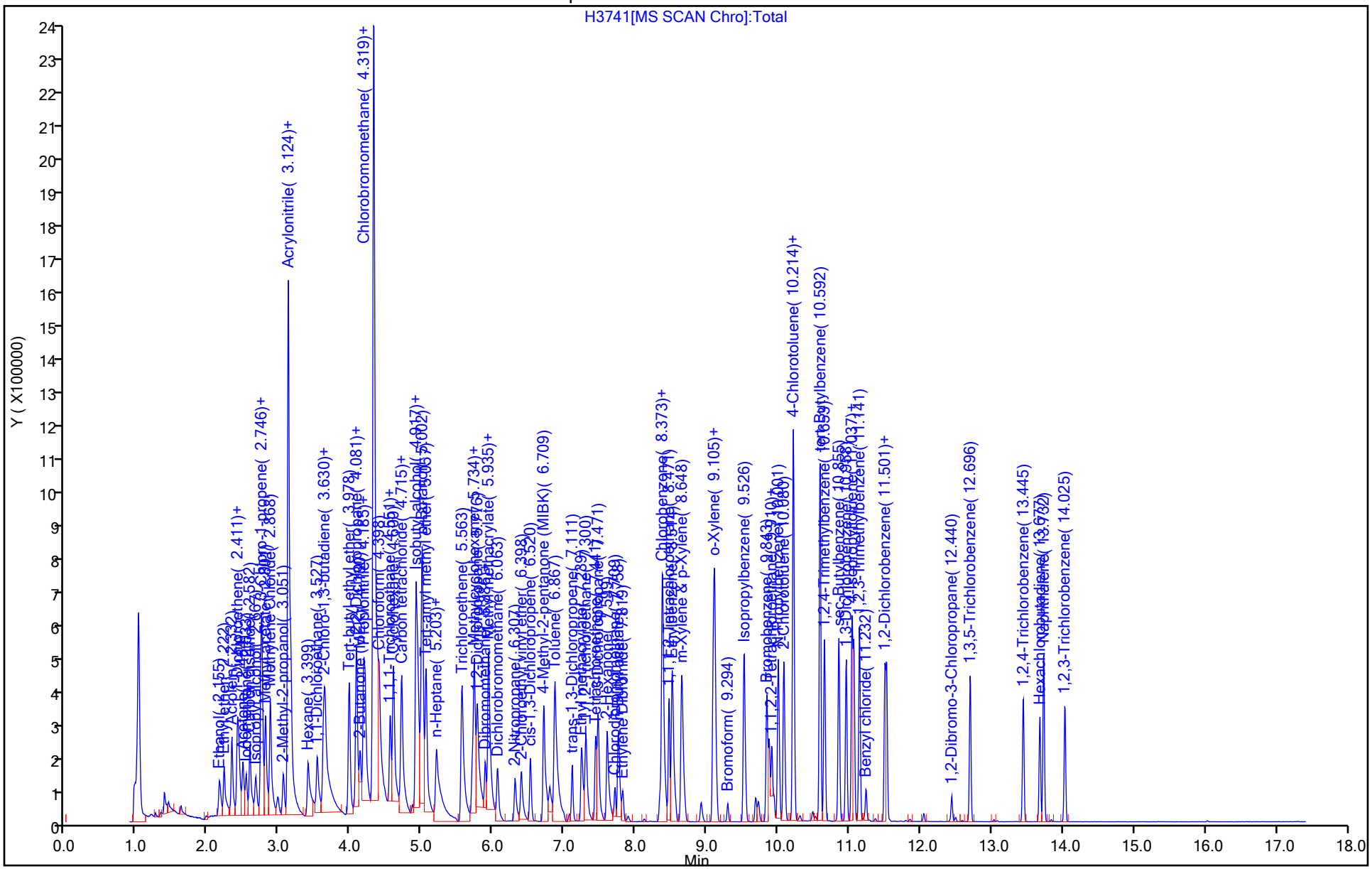
VV_I_ICVSOL_00053	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 10-Nov-2020 04:42:17 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D

Injection Date:	09-Nov-2020 09:04:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	icv			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

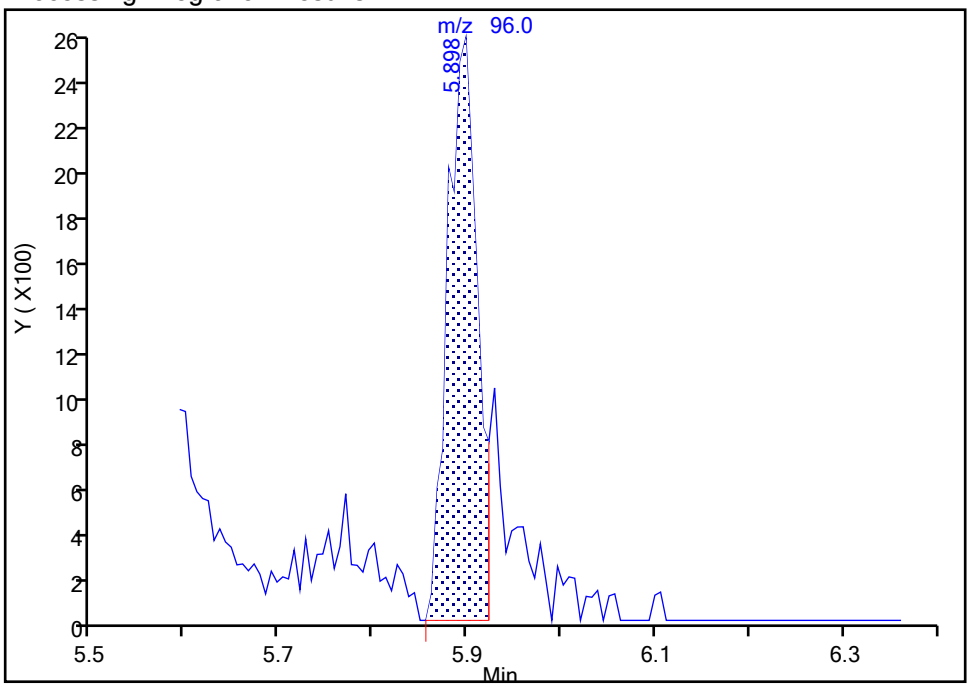
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

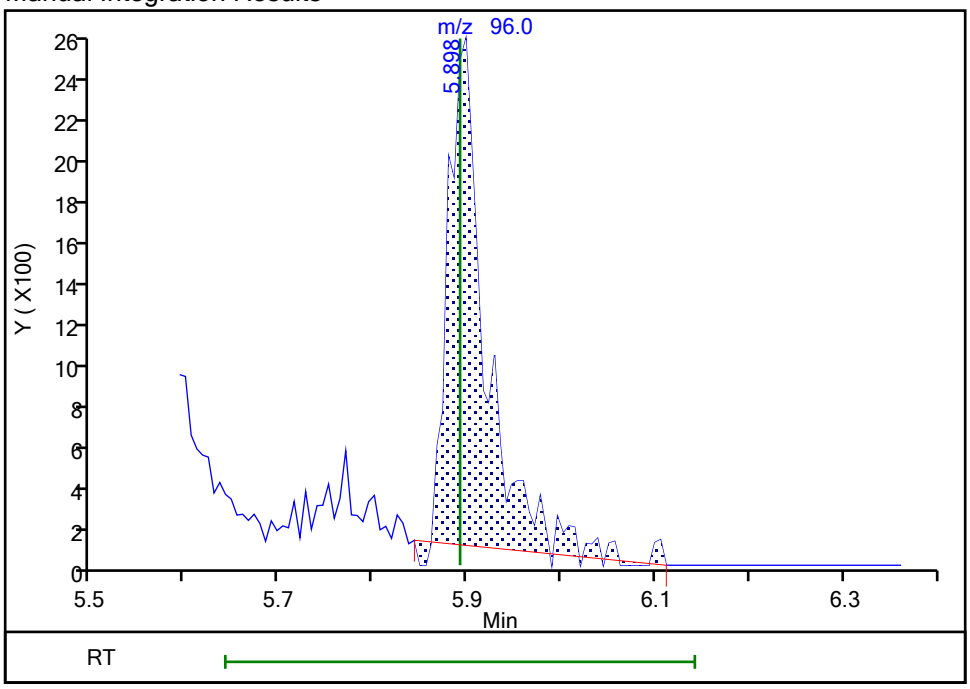
Processing Integration Results

RT: 5.90
Area: 5689
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.90
Area: 6803
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:32:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

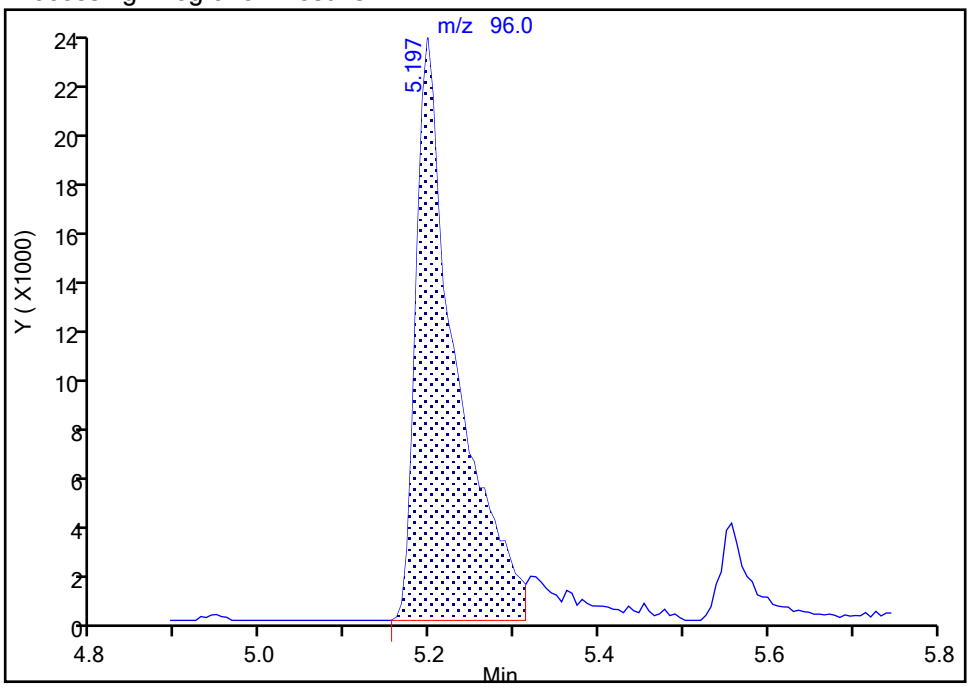
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

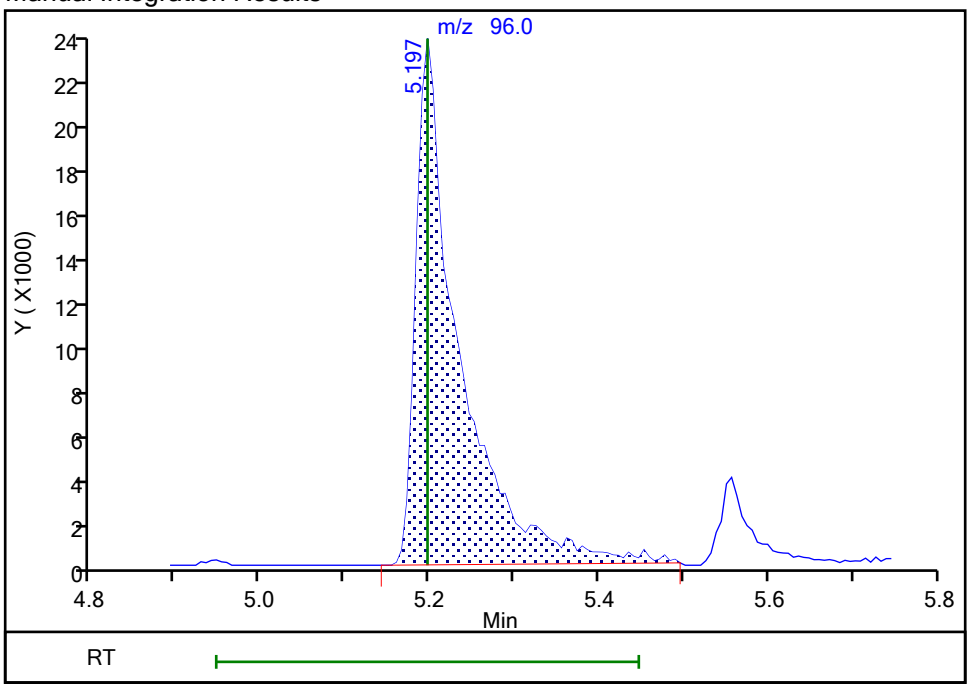
Processing Integration Results

RT: 5.20
Area: 75846
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 82272
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 09-Nov-2020 09:32:37
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

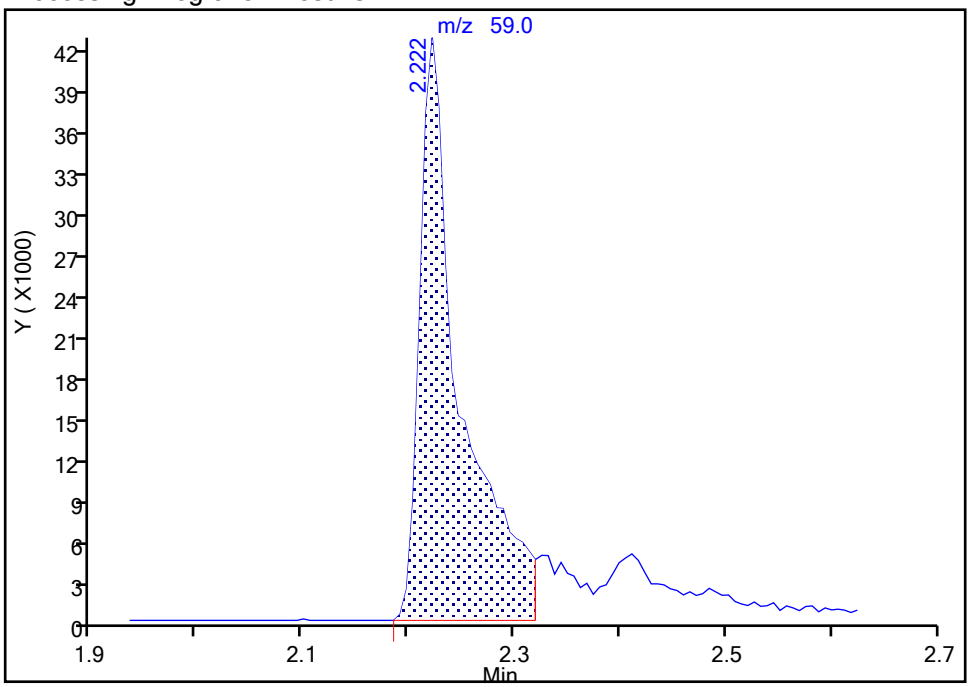
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

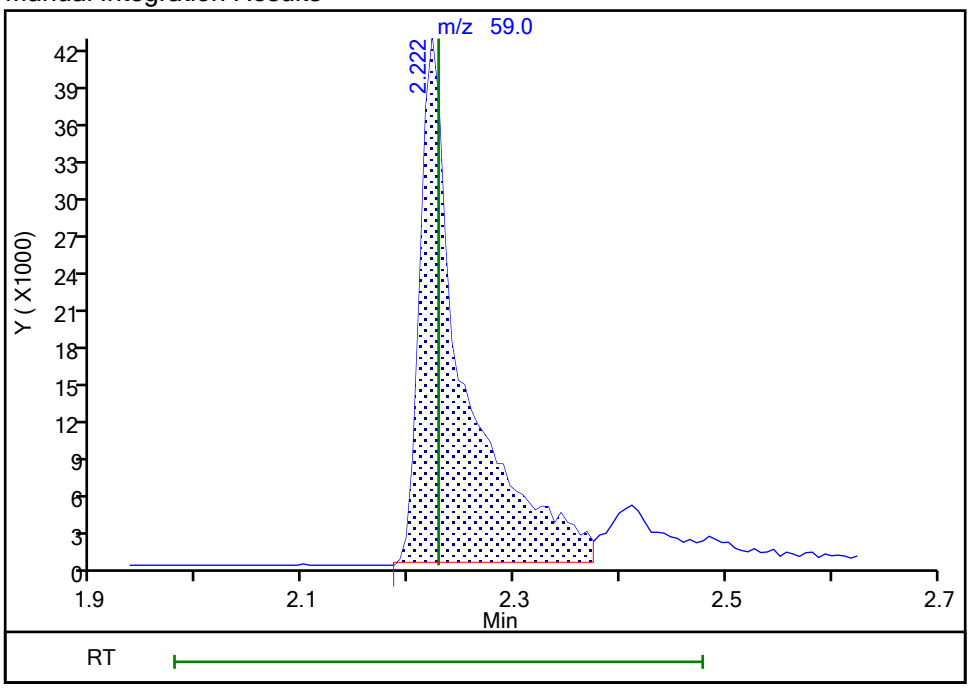
Processing Integration Results

RT: 2.22
Area: 114228
Amount: 53.508115
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 122646
Amount: 57.451381
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:32:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

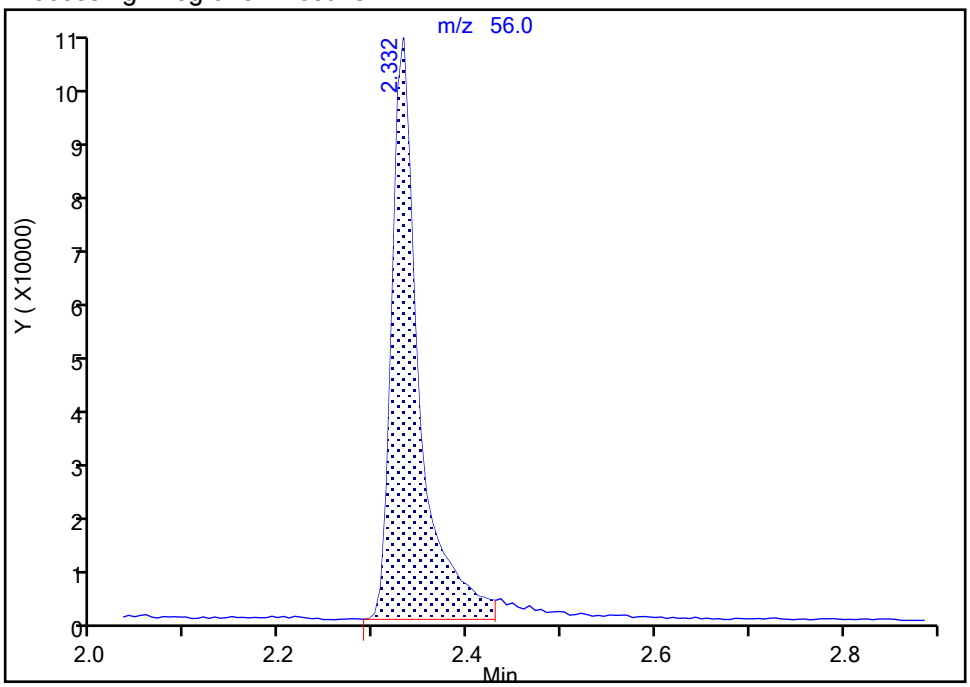
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

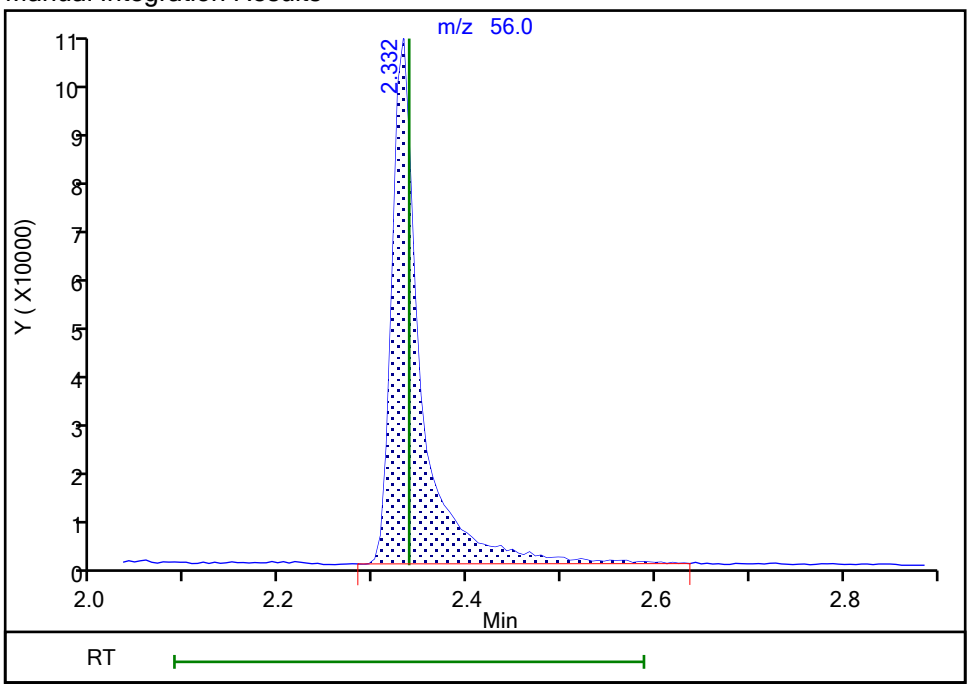
Processing Integration Results

RT: 2.33
Area: 208525
Amount: 239.5803
Amount Units: ug/l



Manual Integration Results

RT: 2.33
Area: 219378
Amount: 252.0496
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:32:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

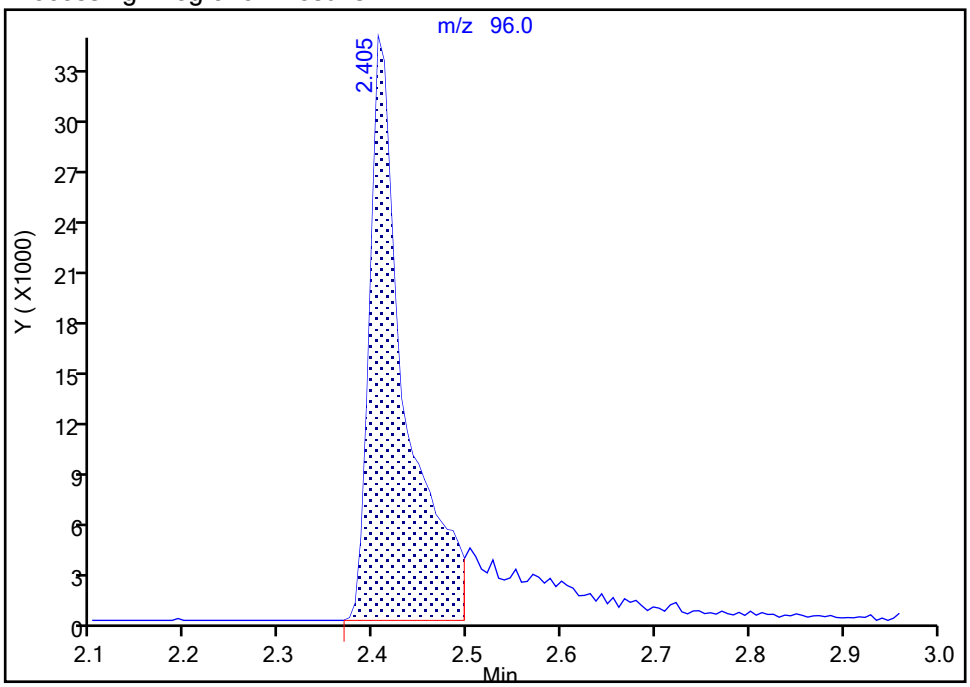
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

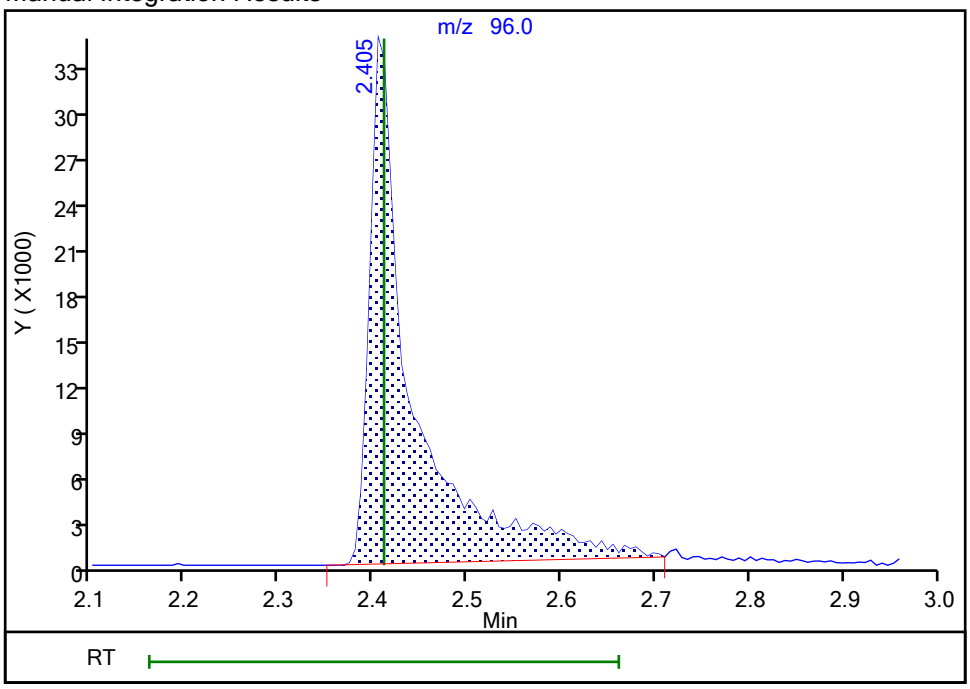
Processing Integration Results

RT: 2.40
Area: 89878
Amount: 47.244067
Amount Units: ug/l



Manual Integration Results

RT: 2.40
Area: 108818
Amount: 57.111707
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:32:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

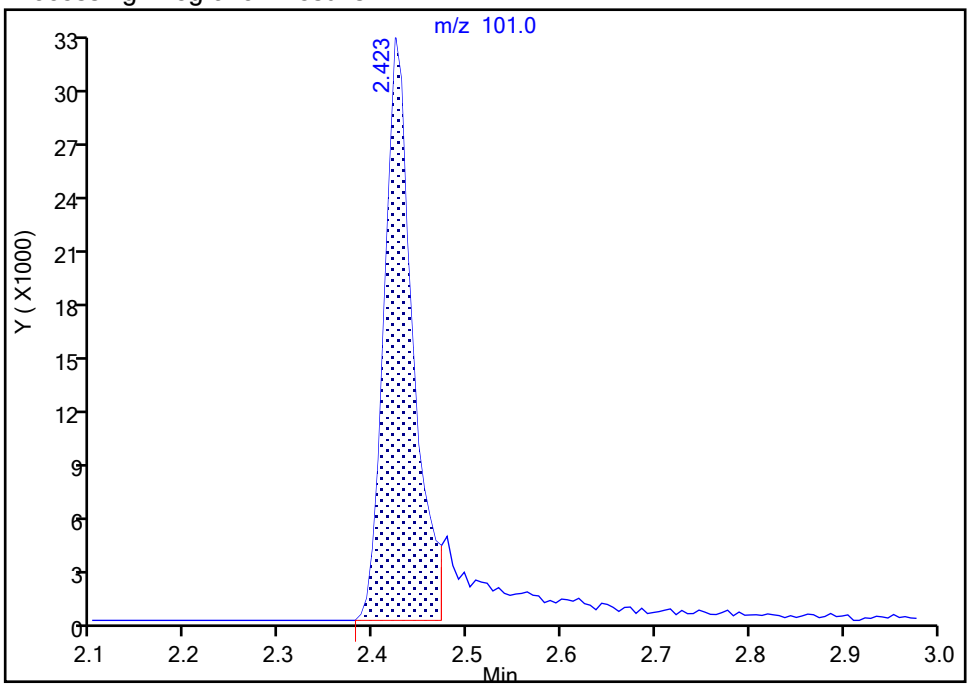
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

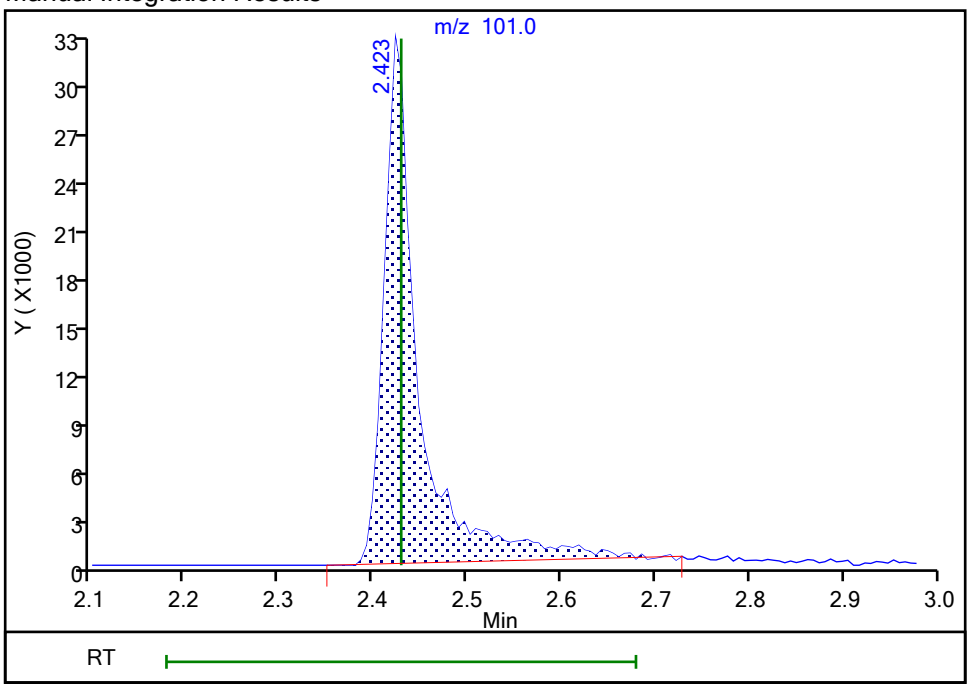
Processing Integration Results

RT: 2.42
Area: 68303
Amount: 45.532165
Amount Units: ug/l



Manual Integration Results

RT: 2.42
Area: 81487
Amount: 54.320886
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:32:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

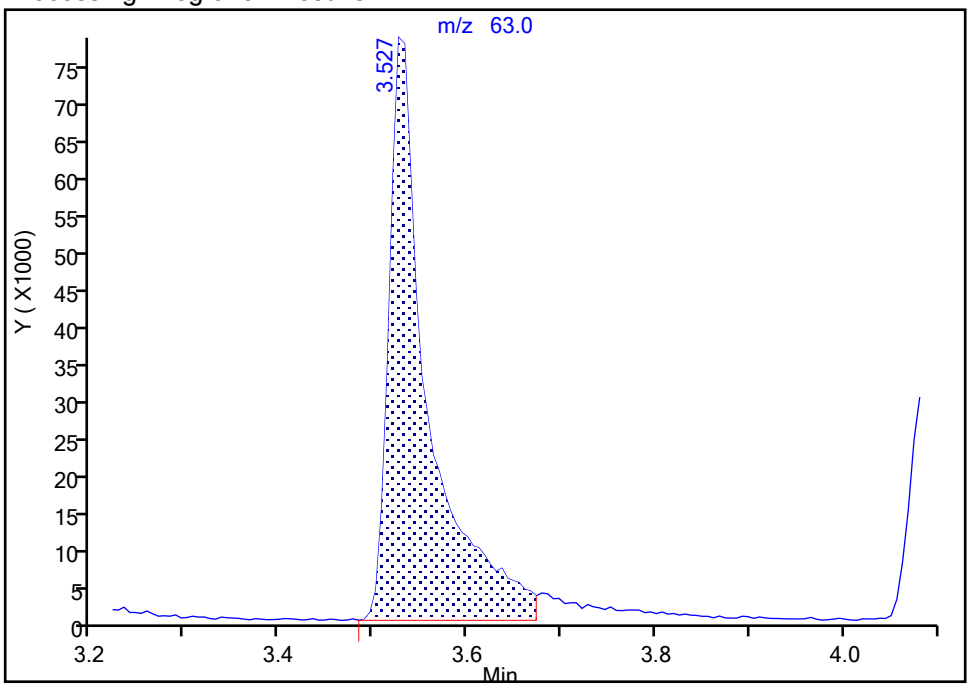
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

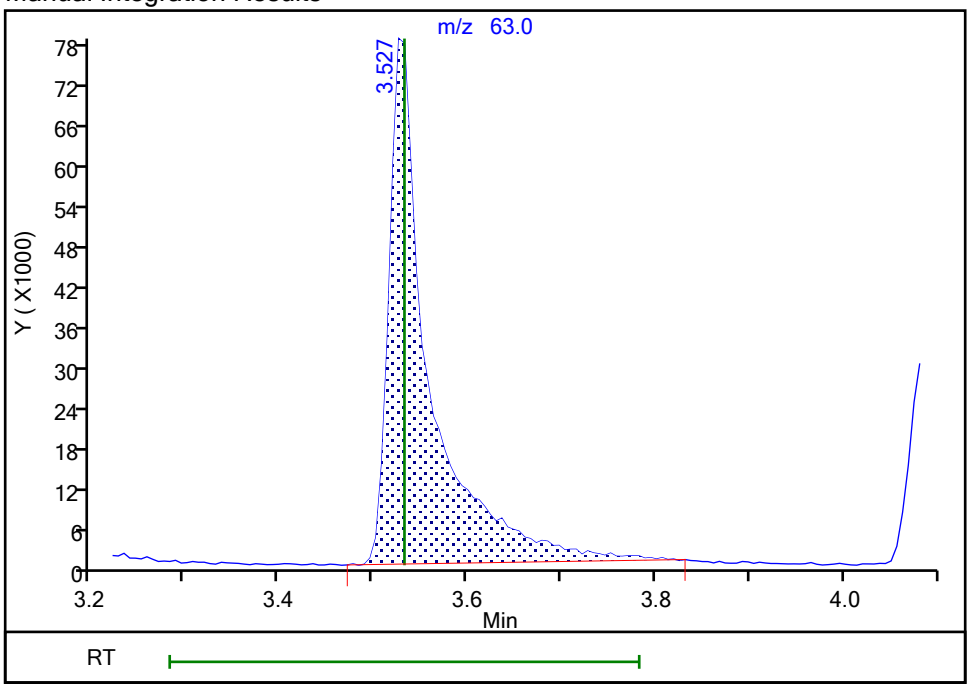
Processing Integration Results

RT: 3.53
Area: 228572
Amount: 48.121800
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 235365
Amount: 49.551947
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:33:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

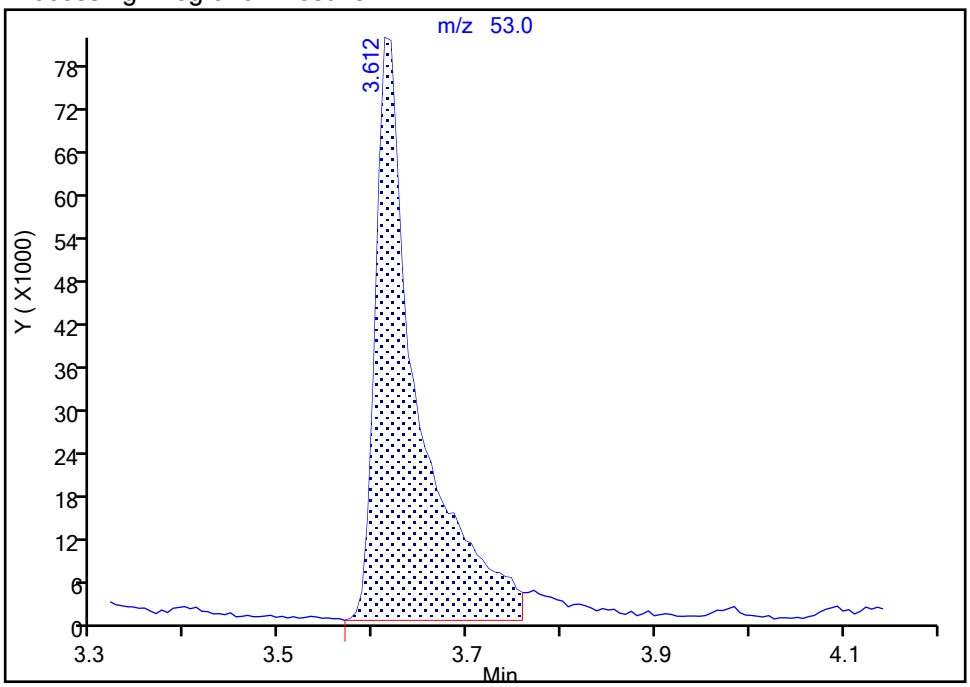
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

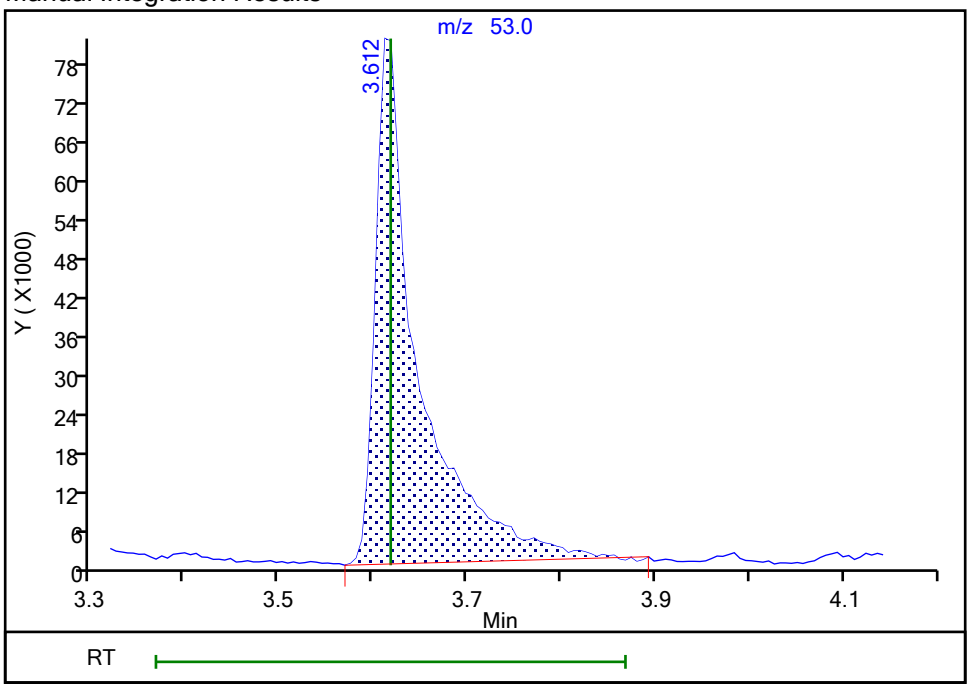
Processing Integration Results

RT: 3.61
Area: 255010
Amount: 50.967300
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 258854
Amount: 51.735577
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:33:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

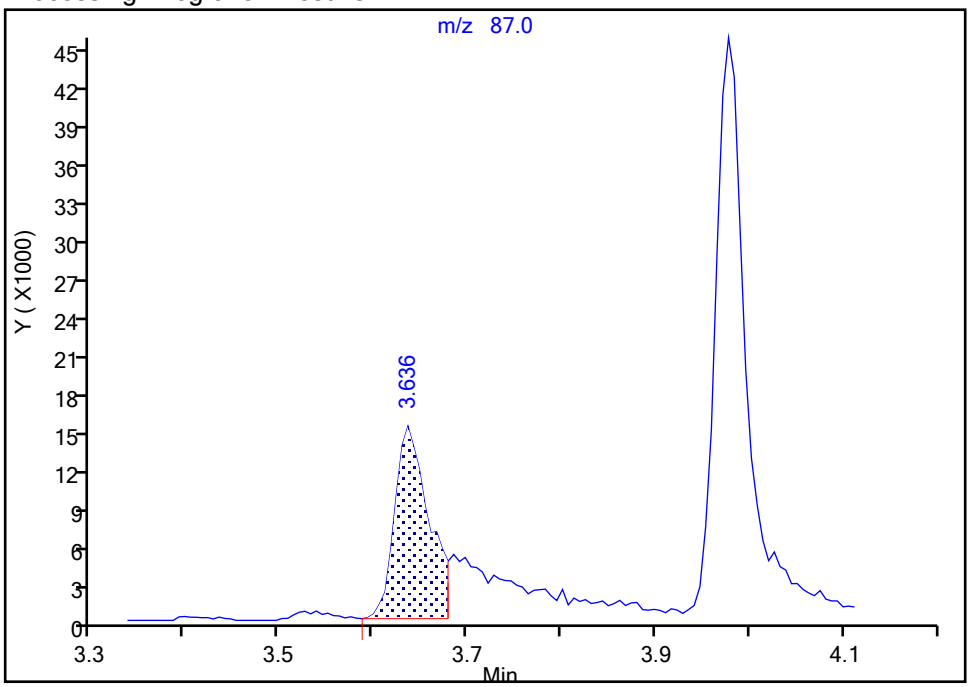
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

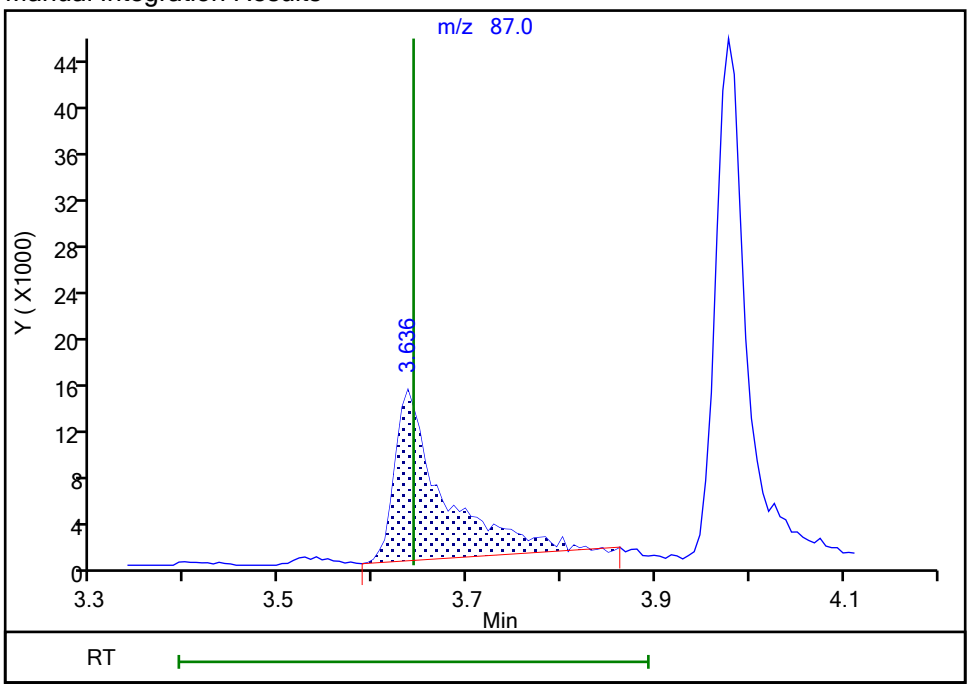
Processing Integration Results

RT: 3.64
Area: 38652
Amount: 37.798476
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 53584
Amount: 57.439533
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:33:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

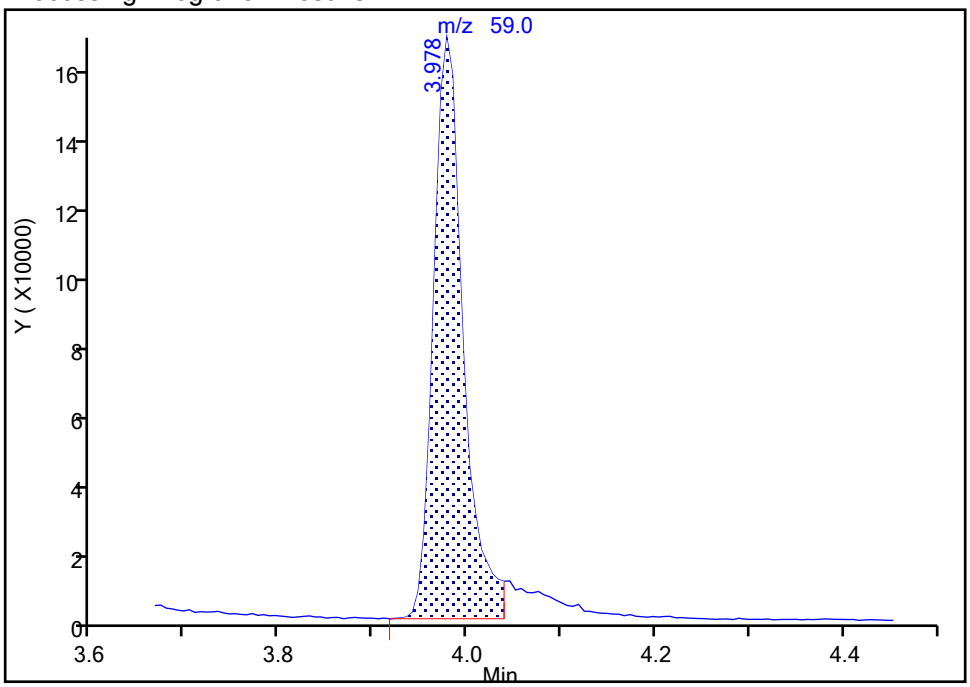
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

37 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

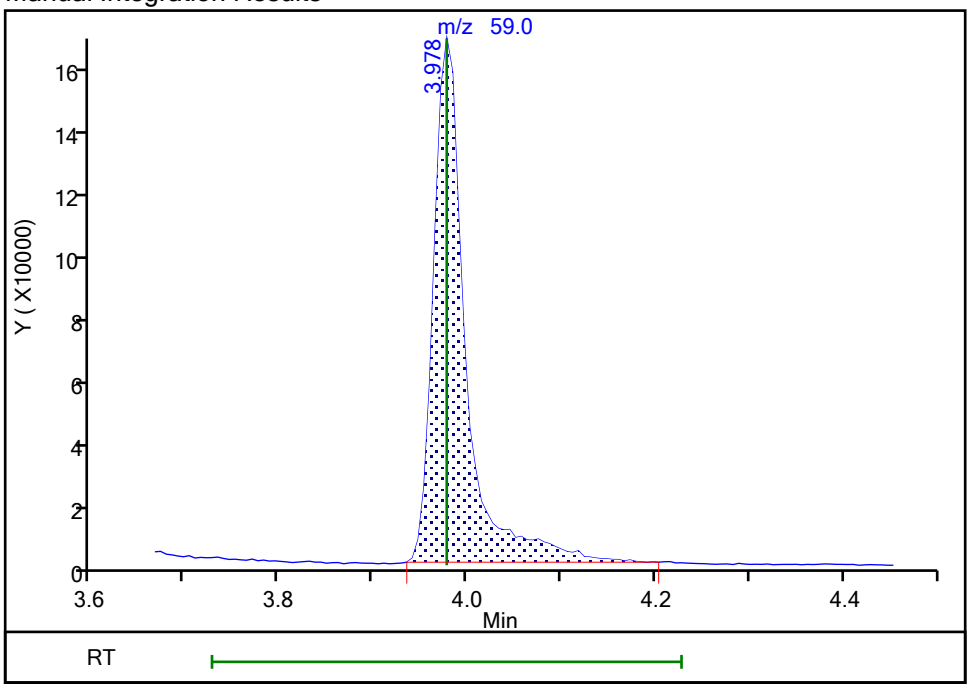
Processing Integration Results

RT: 3.98
Area: 369865
Amount: 44.811620
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 399075
Amount: 48.350607
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:33:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

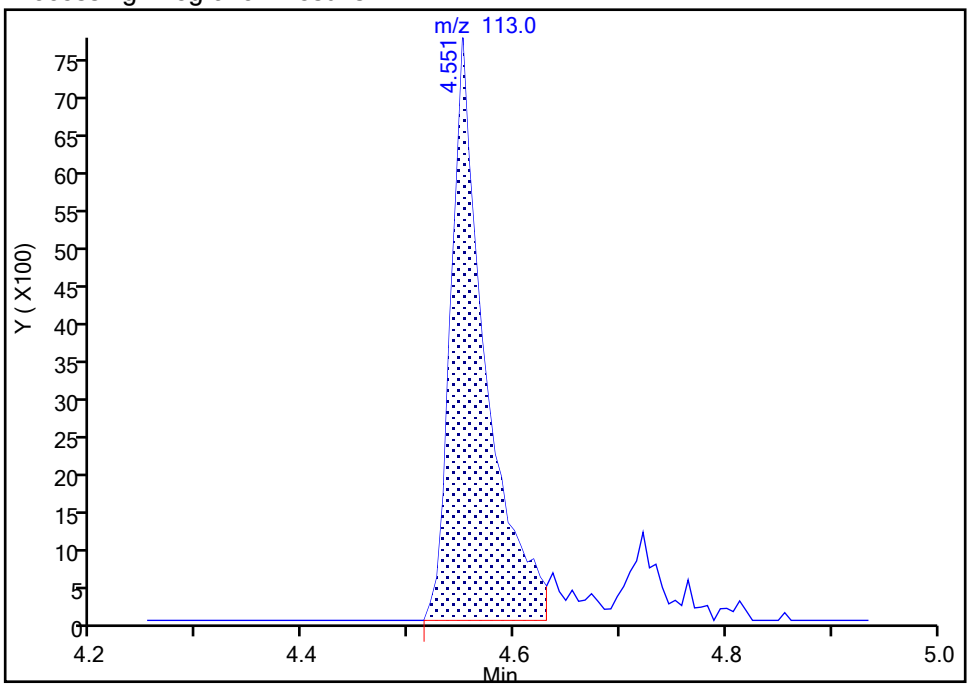
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

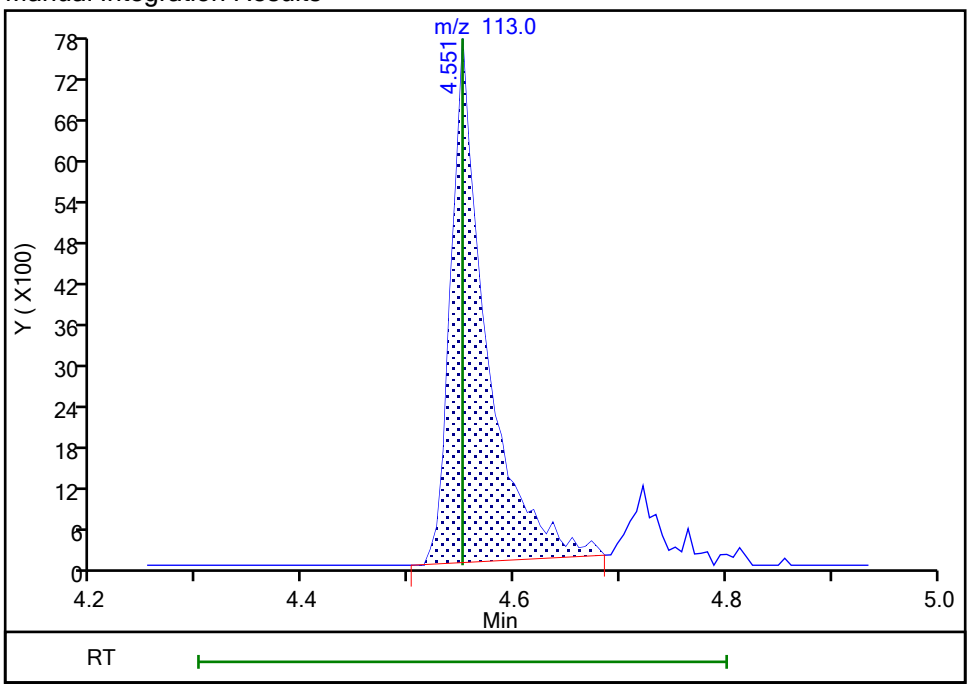
Processing Integration Results

RT: 4.55
Area: 17544
Amount: 51.174376
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 17789
Amount: 51.889020
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 04:05:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

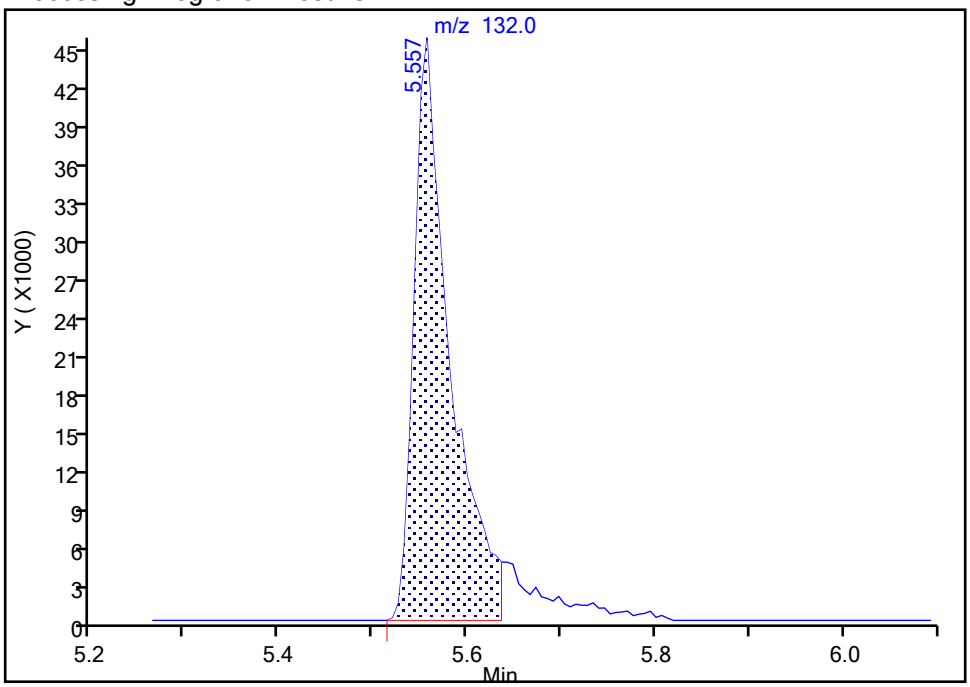
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

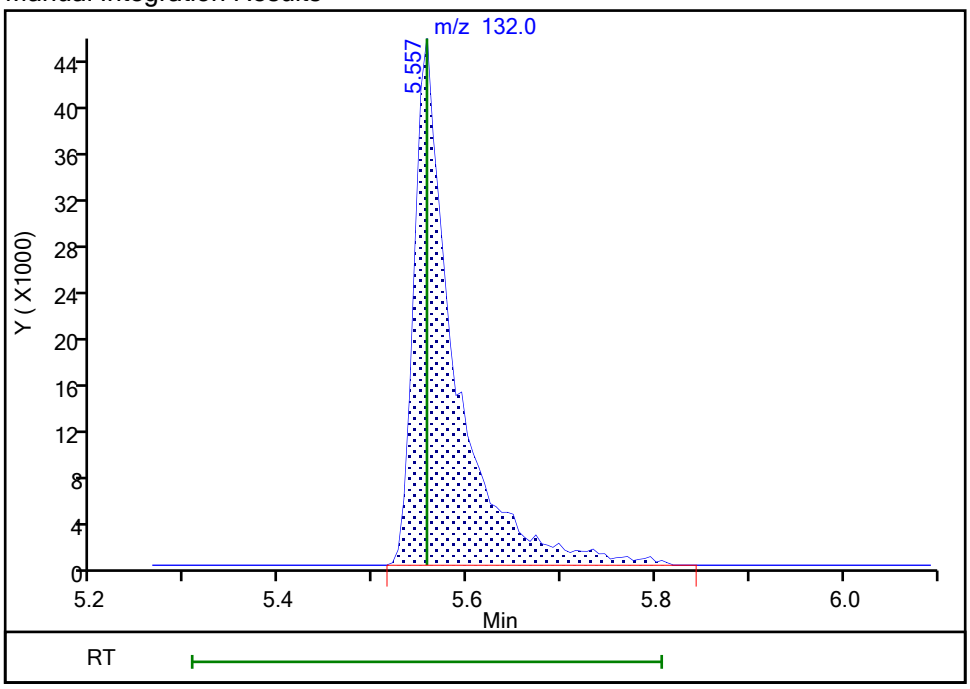
Processing Integration Results

RT: 5.56
Area: 121375
Amount: 47.648027
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 136182
Amount: 53.460791
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:34:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

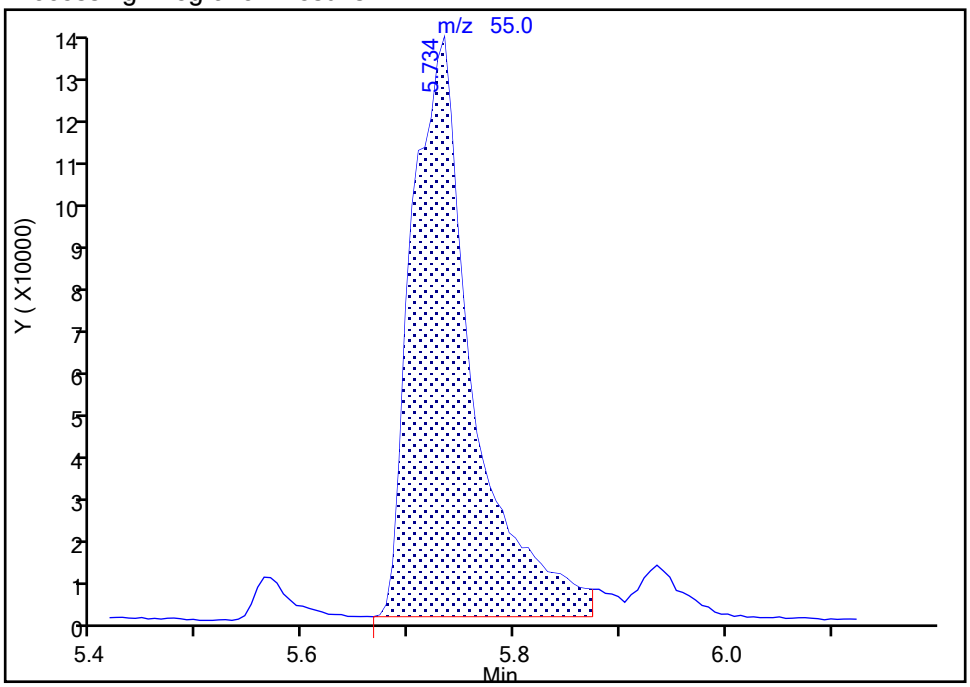
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

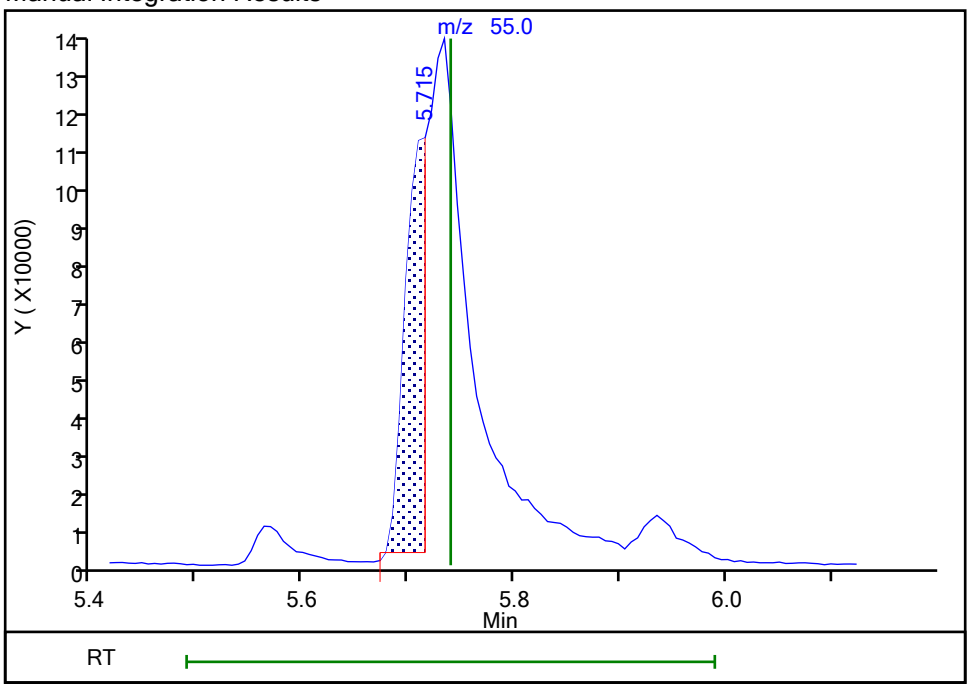
Processing Integration Results

RT: 5.73
Area: 523406
Amount: 155.9952
Amount Units: ug/l



Manual Integration Results

RT: 5.72
Area: 147962
Amount: 44.098396
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:34:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

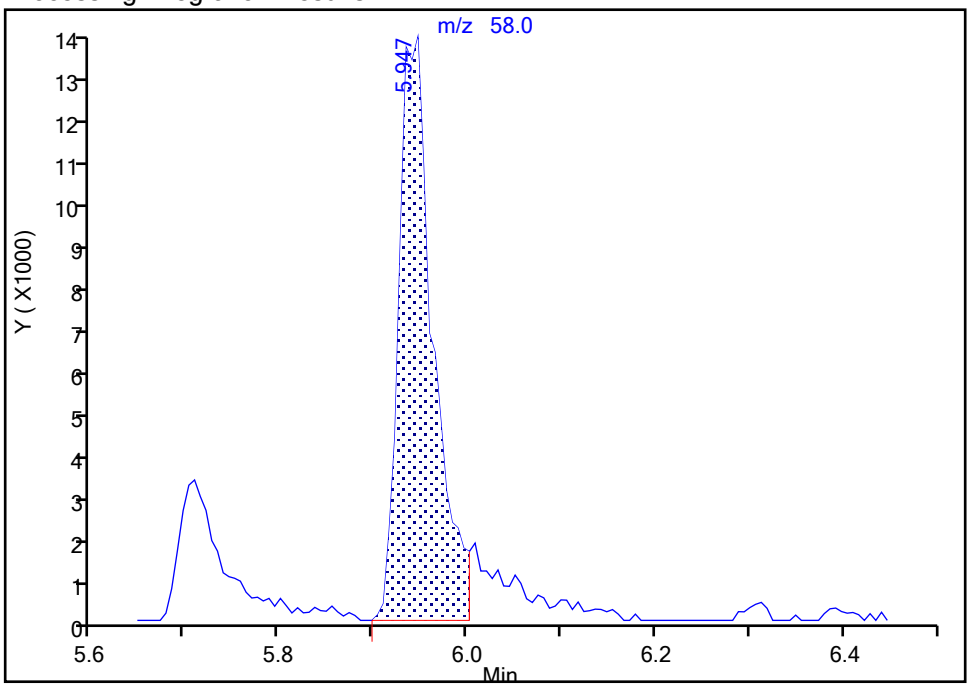
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

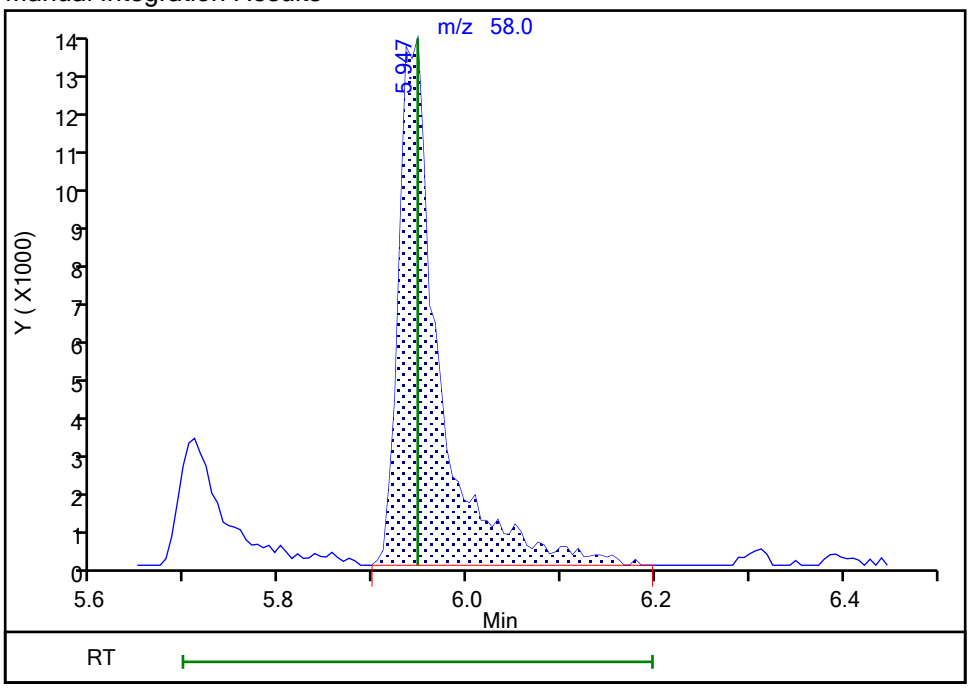
Processing Integration Results

RT: 5.95
Area: 34330
Amount: 906.0156
Amount Units: ug/l



Manual Integration Results

RT: 5.95
Area: 40028
Amount: 1082.8070
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:34:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

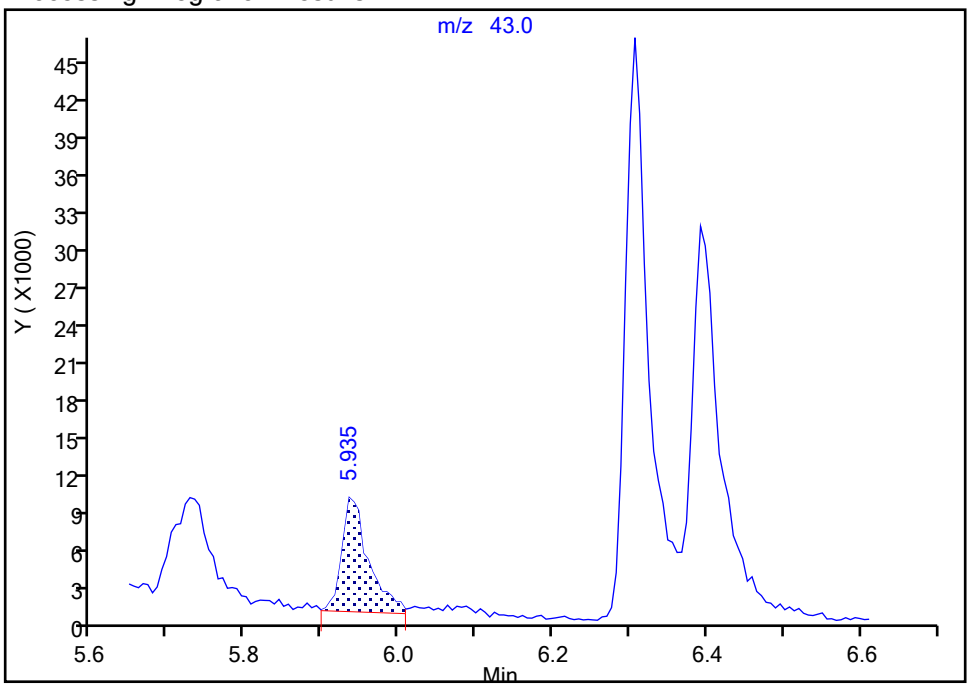
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

106 2-Nitropropane, CAS: 79-46-9

Signal: 1

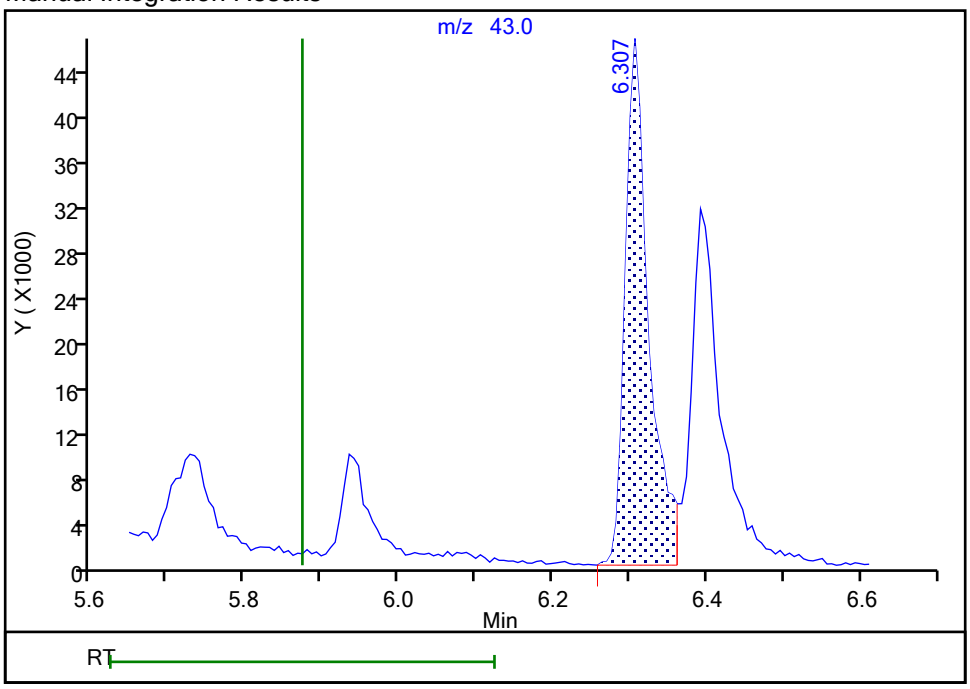
Processing Integration Results

RT: 5.93
Area: 22028
Amount: 24.133639
Amount Units: ug/l



Manual Integration Results

RT: 6.31
Area: 99436
Amount: 80.162917
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:36:48
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

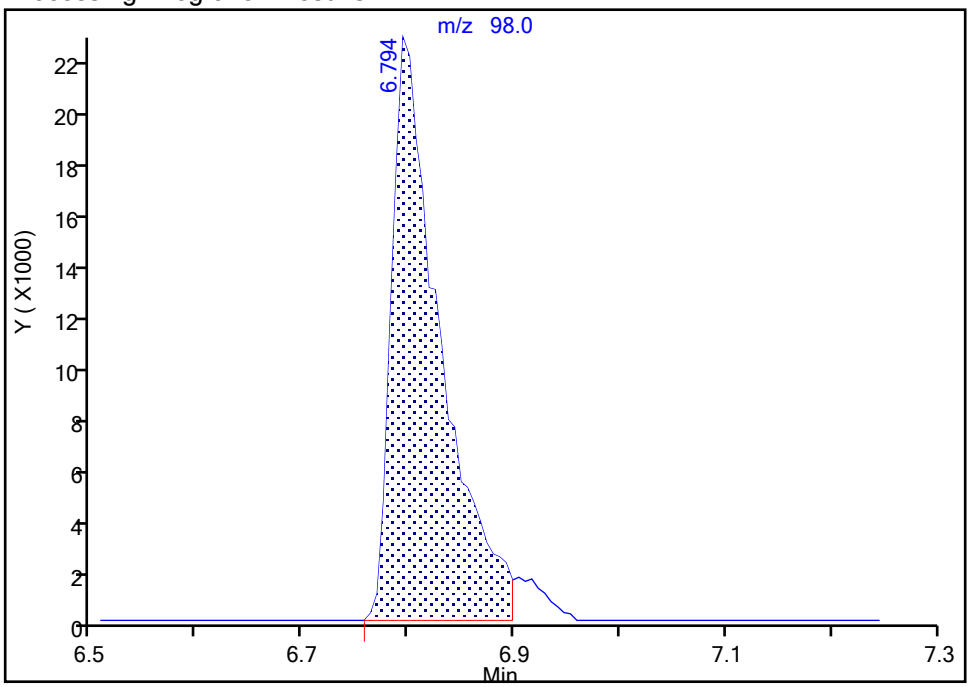
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3741.D
Injection Date: 09-Nov-2020 09:04:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 20 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

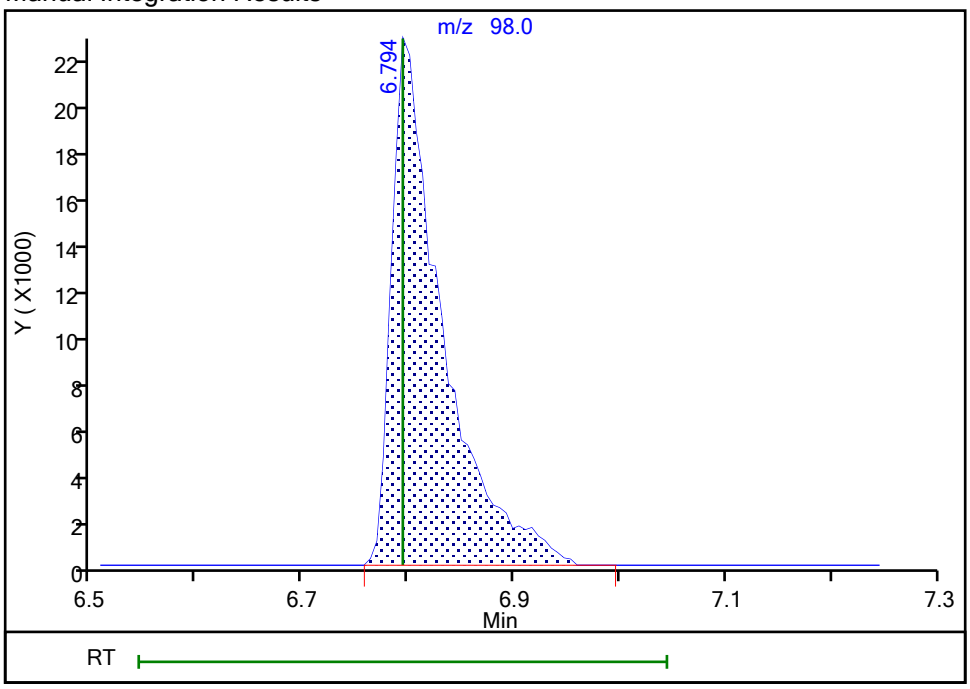
Processing Integration Results

RT: 6.79
Area: 70916
Amount: 50.846364
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 74117
Amount: 53.141463
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 04:05:40
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/20 Calibration Date: 11/09/2020 09:26

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3742.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl acetate	Lin1		0.1949		66.1	100	-33.9*	30.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2187		52.5	50.0	5.0	30.0
Toluene-d8 (Surr)	Ave	1.124	1.057		47.0	50.0	-6.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6715		52.2	50.0	4.4	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3742.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 09-Nov-2020 09:26:30 ALS Bottle#: 21 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:42:05 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 02:31:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	58587	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	78239	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	87	5240	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.337	8.337	0.000	91	68785	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	96	38137	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	93	17114	50.0	52.5	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	72692	50.0	47.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	25610	50.0	52.2	
33 Vinyl acetate	86	3.612	3.606	0.006	96	30505	100.0	66.1	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

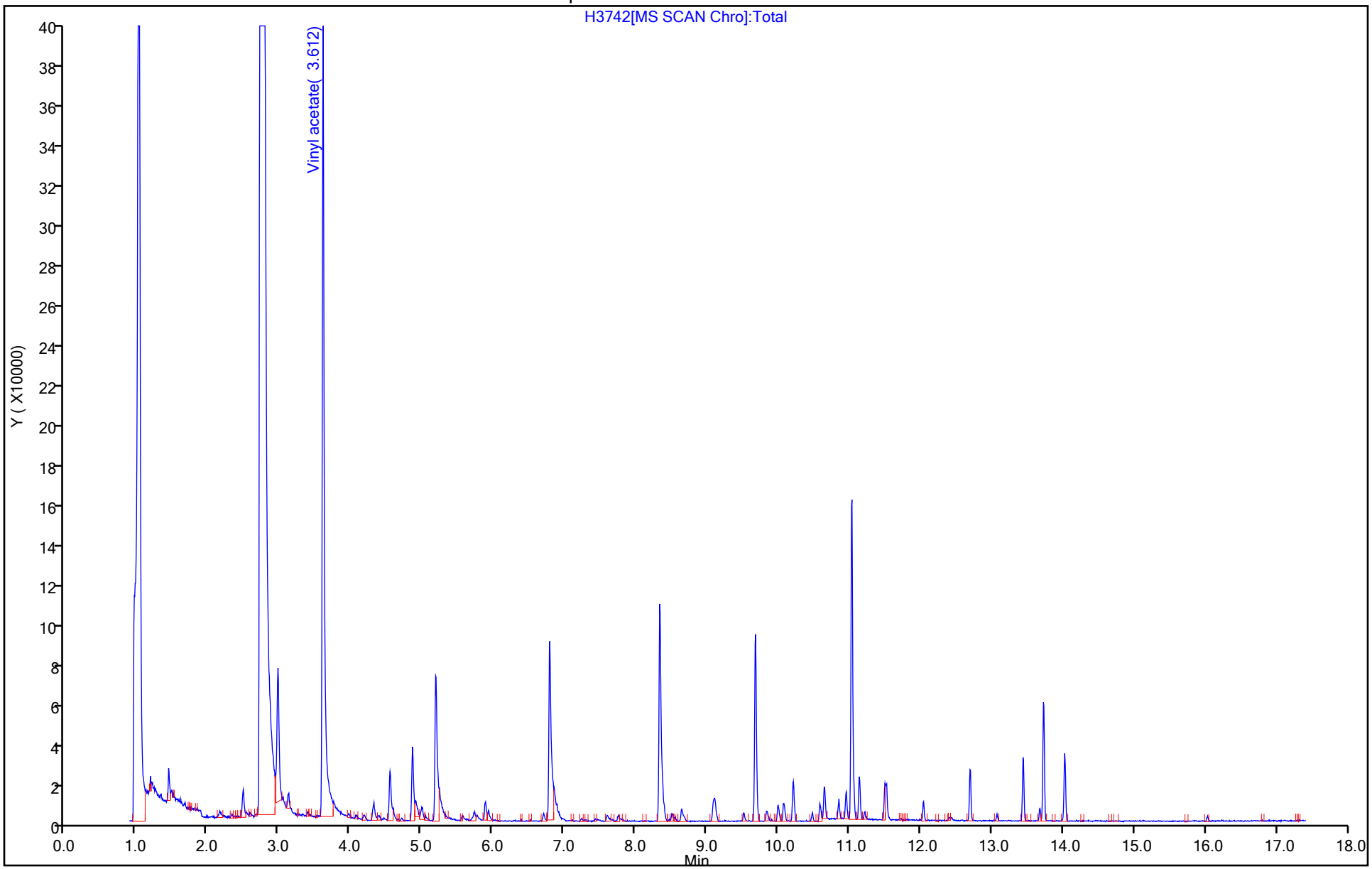
VV_I_VA ICV U_00013 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:42:29 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3742.D

Injection Date:	09-Nov-2020 09:26:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	icv			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

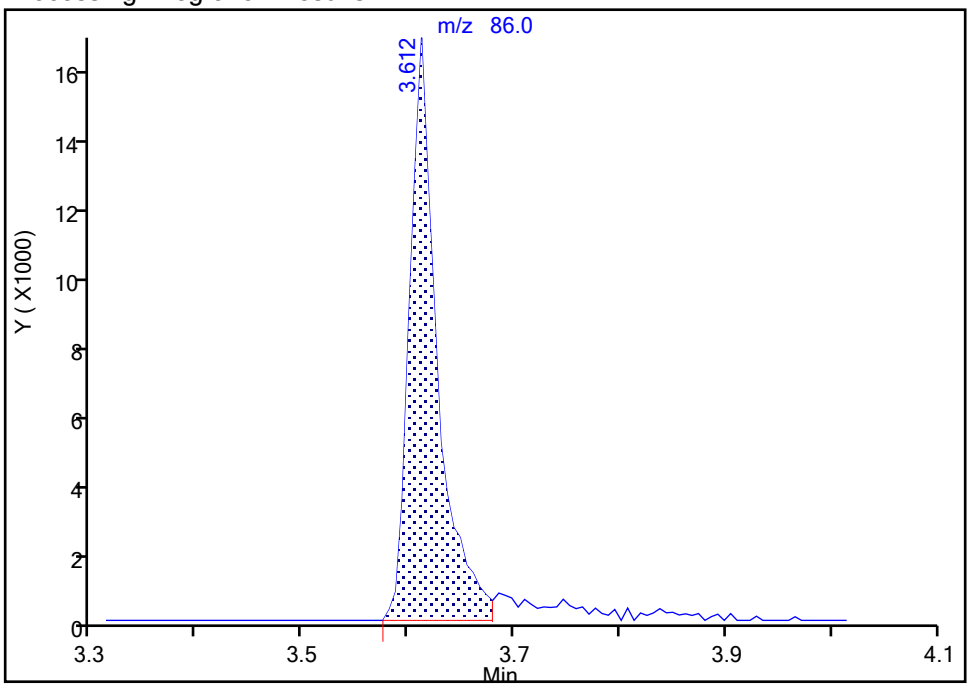
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3742.D
Injection Date: 09-Nov-2020 09:26:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 21 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

33 Vinyl acetate, CAS: 108-05-4

Signal: 1

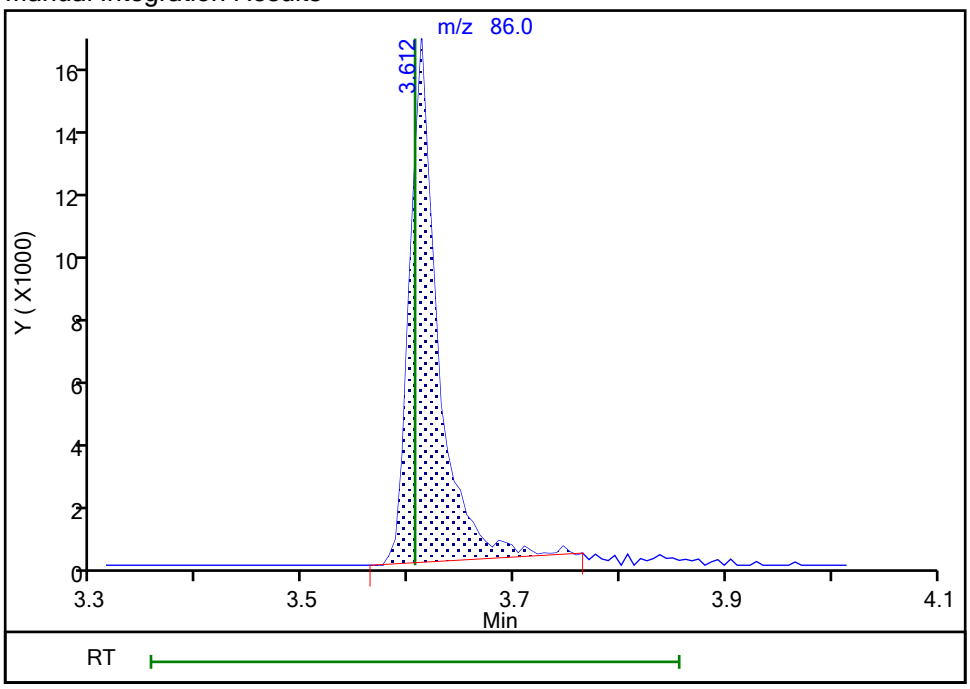
Processing Integration Results

RT: 3.61
Area: 30403
Amount: 65.949004
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 30505
Amount: 66.144046
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 02:31:50
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/39 Calibration Date: 11/09/2020 16:29

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3761.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.704	0.2380	0.1000	6.98	50.0	-86.0*	30.0
Chloromethane	Ave	4.537	2.129	0.1000	23.5	50.0	-53.1*	30.0
Vinyl chloride	Ave	2.546	1.664	0.1000	32.7	50.0	-34.6*	30.0
1,3-Butadiene	Ave	2.895	1.613		27.9	50.0	-44.3*	30.0
Bromomethane	Ave	0.8139	0.7623	0.1000	46.8	50.0	-6.3	30.0
Chloroethane	Ave	1.185	1.028	0.1000	43.4	50.0	-13.3	30.0
Dichlorofluoromethane	Ave	2.180	2.426		55.6	50.0	11.2	30.0
Trichlorofluoromethane	Ave	1.907	1.784	0.1000	46.8	50.0	-6.4	30.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2078		49.9	50.0	-0.3	30.0
Toluene-d8 (Surr)	Ave	1.124	1.055		46.9	50.0	-6.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6566		51.0	50.0	2.0	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3761.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 09-Nov-2020 16:29:30 ALS Bottle#: 11 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:42:48 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 03:20:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.972	0.006	0	48543	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	66908	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.886	5.892	-0.006	86	4596	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	91	61044	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.037	-0.006	96	35378	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	91	13903	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	64387	50.0	46.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	23228	50.0	51.0	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	97	15921	50.0	6.98	
10 Chloromethane	50	1.265	1.265	0.000	99	142465	50.0	23.5	
11 Vinyl chloride	62	1.350	1.350	0.000	97	111349	50.0	32.7	
12 Butadiene	54	1.387	1.387	0.000	94	107915	50.0	27.9	
13 Bromomethane	94	1.618	1.612	0.006	92	51003	50.0	46.8	
14 Chloroethane	64	1.710	1.698	0.012	93	68773	50.0	43.4	M
15 Dichlorofluoromethane	67	1.899	1.893	0.006	96	162298	50.0	55.6	M
16 Trichlorofluoromethane	101	1.935	1.929	0.006	98	119377	50.0	46.8	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

VV_I_ICVGAS_00277 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 04:45:34 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3761.D

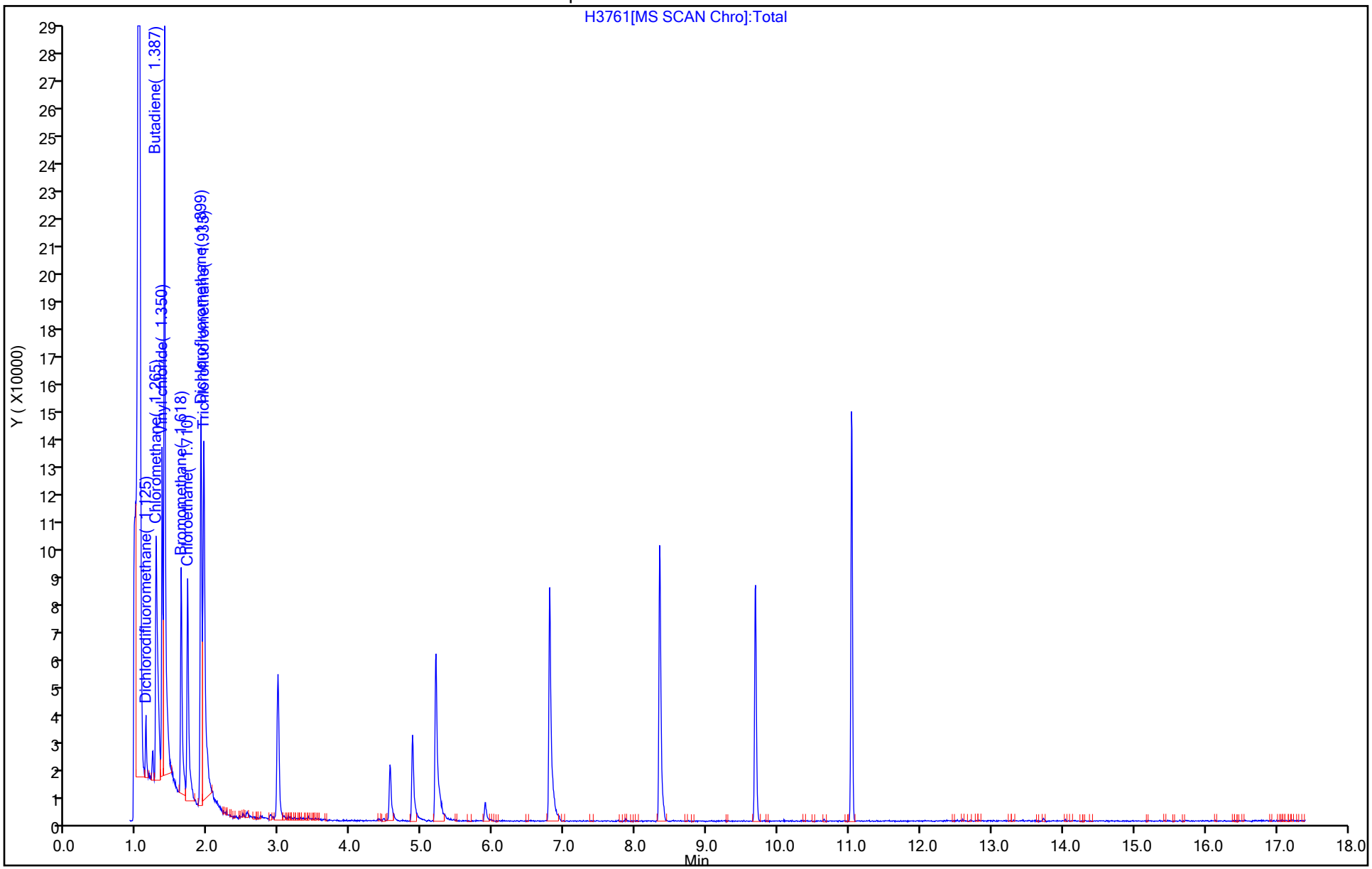
Injection Date: 09-Nov-2020 16:29:30 Instrument ID: Hobbes Operator ID:

Lims ID: icv Worklist Smp#: 39

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

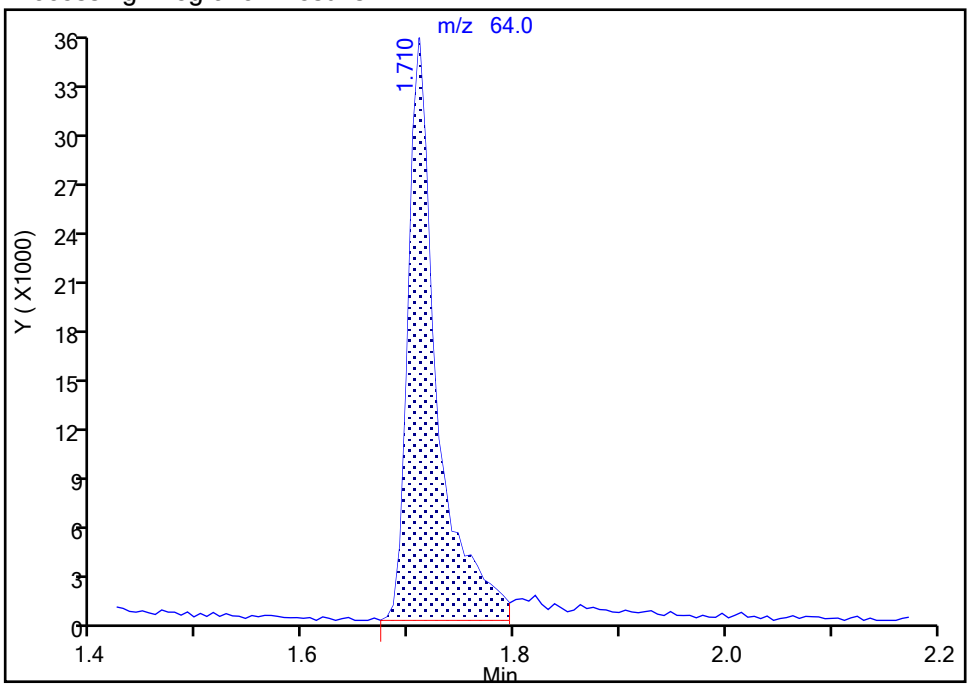
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3761.D
Injection Date: 09-Nov-2020 16:29:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

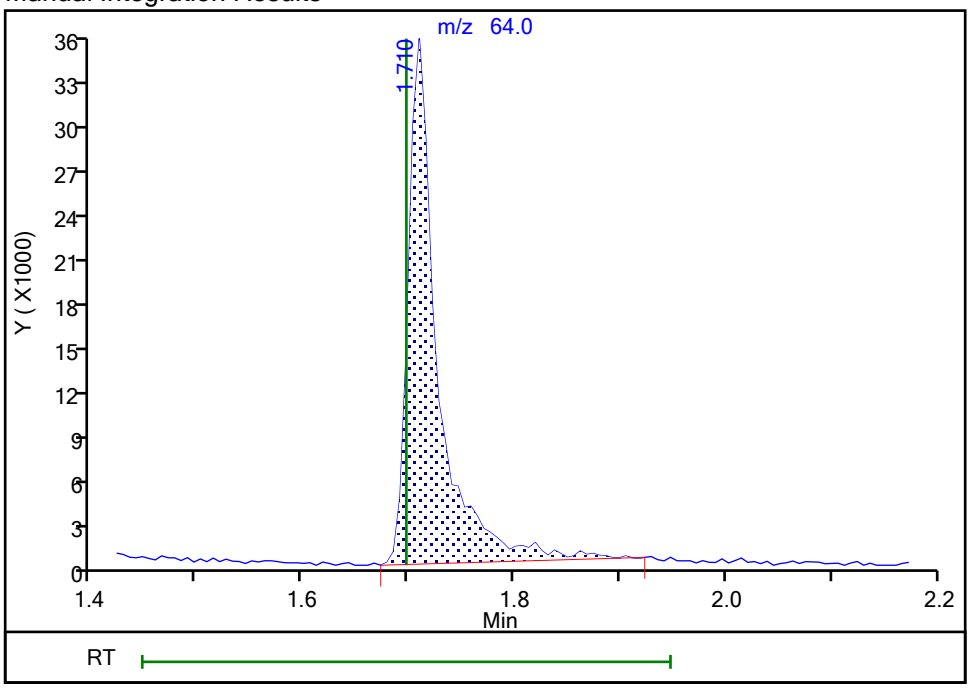
Processing Integration Results

RT: 1.71
Area: 66723
Amount: 42.072164
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 68773
Amount: 43.364791
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:20:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

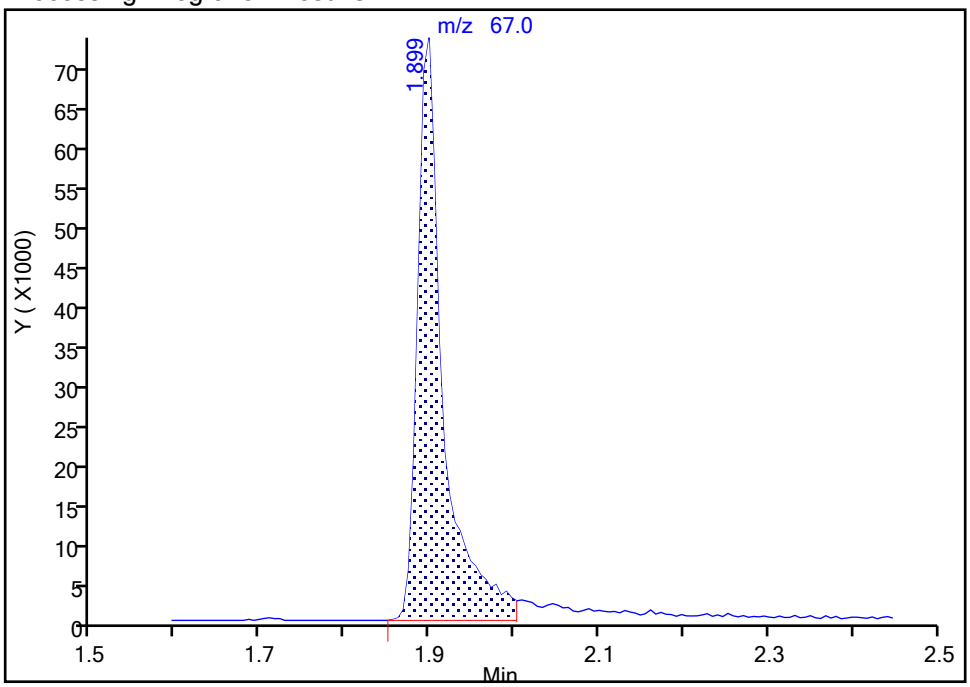
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3761.D
Injection Date: 09-Nov-2020 16:29:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

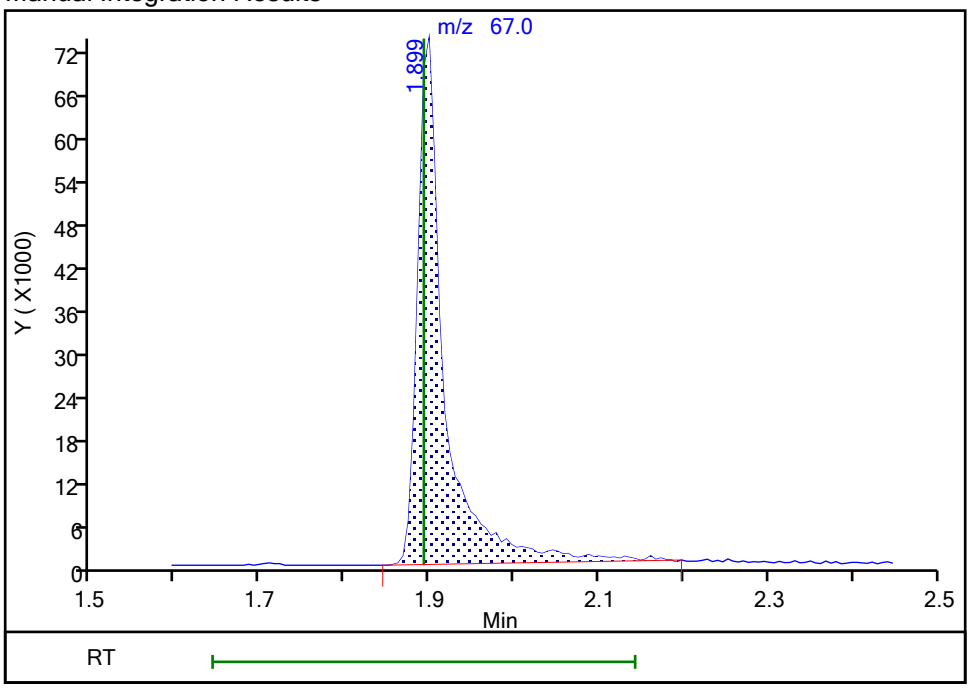
Processing Integration Results

RT: 1.90
Area: 154761
Amount: 53.040777
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 162298
Amount: 55.623911
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:19:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

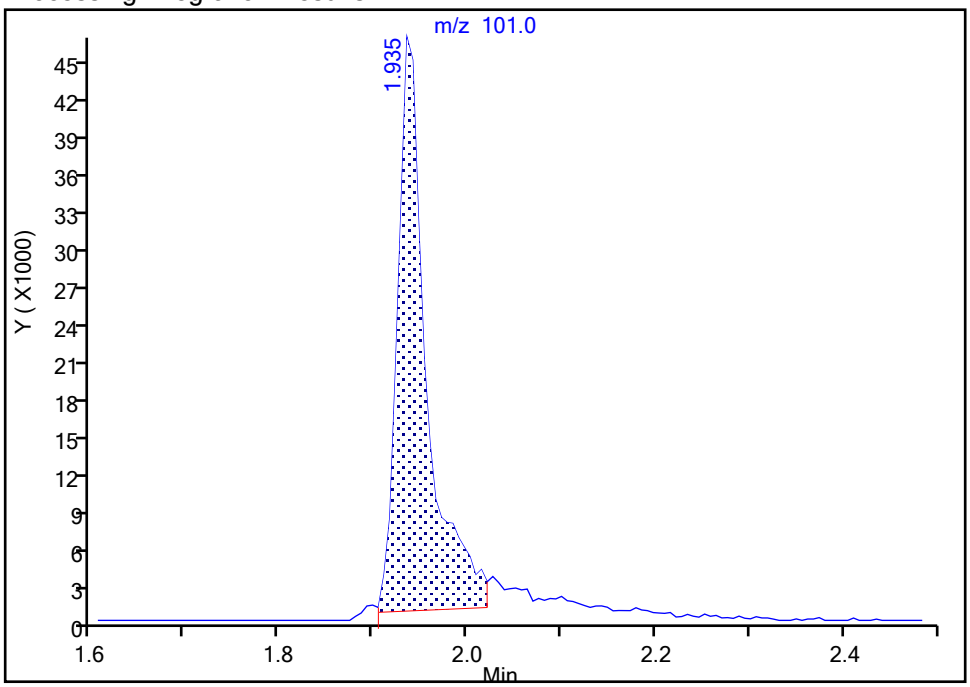
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3761.D
Injection Date: 09-Nov-2020 16:29:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

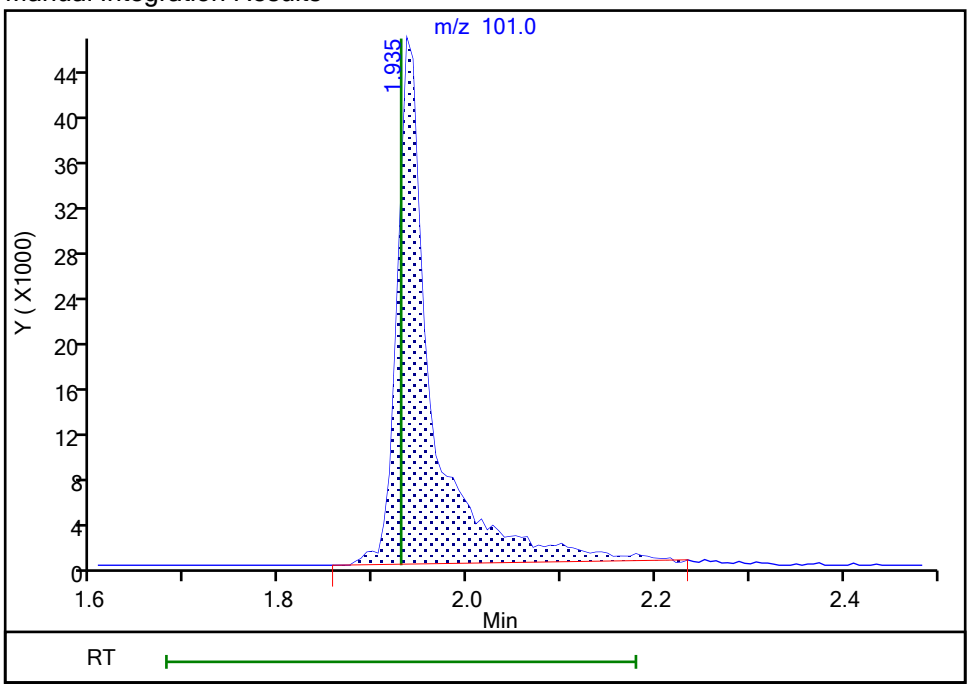
Processing Integration Results

RT: 1.94
Area: 99660
Amount: 39.058968
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 119377
Amount: 46.786498
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 03:19:52
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/42 Calibration Date: 11/10/2020 03:51

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0468	0.0383		654	800	-18.2	30.0
Diethyl ether	Ave	1.297	1.240		19.1	20.0	-4.4	30.0
Acrolein	Ave	0.5290	0.4654		83.4	94.8	-12.0	30.0
1,1-Dichloroethene	Lin2		1.005	0.1000	17.7	20.0	-11.7	30.0
1,1,2-Trichlorotrifluoroethane	Ave	0.9117	1.017	0.1000	22.3	20.0	11.6	30.0
Acetone	Ave	1.146	1.226	0.0500	42.8	40.0	6.9	30.0
Iodomethane	Lin2		0.9943		22.1	20.0	10.5	30.0
Carbon disulfide	Ave	3.103	2.921	0.1000	18.8	20.0	-5.9	30.0
Isopropyl alcohol	Ave	0.1992	0.1705		171	200	-14.4	30.0
Acetonitrile	Ave	0.3365	0.2949		175	200	-12.4	30.0
Allyl chloride	Ave	0.4907	0.4215		17.2	20.0	-14.1	30.0
Methyl acetate	Ave	2.472	2.254	0.1000	36.5	40.0	-8.8	30.0
Methylene chloride	Ave	1.256	1.121	0.1000	17.8	20.0	-10.8	30.0
tert-Butanol	Ave	0.1744	0.1484		170	200	-14.9	30.0
Acrylonitrile	Lin2		1.162		163	200	-18.4	30.0
trans-1,2-Dichloroethene	Ave	1.278	1.049	0.1000	16.4	20.0	-17.9	30.0
Methyl tert-butyl ether	Ave	2.698	2.407	0.1000	17.8	20.0	-10.8	30.0
Hexane	Ave	1.394	1.346		19.3	20.0	-3.5	30.0
1,1-Dichloroethane	Ave	2.887	2.600	0.2000	18.0	20.0	-9.9	30.0
Chloroprene	Ave	3.041	2.673		17.6	20.0	-12.1	30.0
Di-isopropyl ether (DIPE)	Ave	0.5669	0.4901		17.3	20.0	-13.6	30.0
tert-Butyl ethyl ether	Ave	5.016	4.033		16.1	20.0	-19.6	30.0
2,2-Dichloropropane	Ave	1.622	1.469		18.1	20.0	-9.5	30.0
cis-1,2-Dichloroethene	Ave	1.558	1.333	0.1000	17.1	20.0	-14.4	30.0
2-Butanone (MEK)	Ave	1.233	1.056	0.0500	34.3	40.0	-14.4	30.0
Propionitrile	Ave	0.5638	0.4471		159	200	-20.7	30.0
Ethyl acetate	Ave	3.018	2.569		34.0	40.0	-14.9	30.0
Bromochloromethane	Ave	0.6721	0.6078		18.1	20.0	-9.6	30.0
Methacrylonitrile	Ave	0.7109	0.6001		169	200	-15.6	30.0
Tetrahydrofuran	Ave	0.1725	0.1276		29.6	40.0	-26.0	30.0
Chloroform	Ave	2.279	2.130	0.2000	18.7	20.0	-6.6	30.0
1,1,1-Trichloroethane	Ave	1.988	1.874	0.1000	18.9	20.0	-5.7	30.0
Cyclohexane	Ave	3.762	3.445	0.1000	18.3	20.0	-8.4	30.0
Carbon tetrachloride	Ave	1.290	1.279	0.1000	19.8	20.0	-0.8	30.0
1,1-Dichloropropene	Ave	1.740	1.554		17.9	20.0	-10.7	30.0
Benzene	Ave	5.183	4.931	0.5000	19.0	20.0	-4.9	30.0
Isobutyl alcohol	Ave	0.1161	0.0786		339	500	-32.3*	30.0
1,2-Dichloroethane	Ave	2.035	2.164	0.1000	21.3	20.0	6.4	30.0
n-Butanol	Ave	0.0994	0.1054		530	500	6.0	30.0
tert-Amyl methyl ether	Ave	2.816	2.374		16.9	20.0	-15.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/42 Calibration Date: 11/10/2020 03:51

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Lin1		2.193		21.6	20.0	8.0	30.0
Trichloroethene	Ave	1.548	1.435	0.2000	18.5	20.0	-7.3	30.0
Ethyl acrylate	Ave	2.039	1.368		13.4	20.0	-32.9*	30.0
Methylcyclohexane	Ave	1.735	1.737	0.1000	20.0	20.0	0.1	30.0
1,2-Dichloropropane	Ave	1.548	1.417	0.1000	18.3	20.0	-8.5	30.0
Dibromomethane	Ave	0.6465	0.6659		20.6	20.0	3.0	30.0
Methyl methacrylate	Ave	0.9104	0.7276		32.0	40.0	-20.1	30.0
1,4-Dioxane	Ave	5.434	5.060		372	400	-6.9	30.0
Bromodichloromethane	Ave	1.005	0.9400	0.2000	18.7	20.0	-6.4	30.0
2-Nitropropane	Lin1		0.3465		24.4	40.0	-39.1*	30.0
2-Chloroethyl vinyl ether	Ave	0.9715	0.7776		16.0	20.0	-20.0	30.0
cis-1,3-Dichloropropene	Ave	0.8968	0.9649	0.2000	21.5	20.0	7.6	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.642	2.220	0.1000	33.6	40.0	-16.0	30.0
Toluene	Ave	3.294	3.048	0.4000	18.5	20.0	-7.5	30.0
trans-1,3-Dichloropropene	Ave	0.7003	0.6658	0.1000	19.0	20.0	-4.9	30.0
Ethyl methacrylate	Lin2		0.9803		14.1	20.0	-29.5	30.0
1,1,2-Trichloroethane	Ave	0.8296	0.7728	0.1000	18.6	20.0	-6.9	30.0
Tetrachloroethene	Ave	1.242	1.200	0.2000	19.3	20.0	-3.4	30.0
1,3-Dichloropropane	Lin2		1.412		19.3	20.0	-3.6	30.0
2-Hexanone	Ave	1.788	1.309	0.1000	29.3	40.0	-26.8	30.0
Chlorodibromomethane	Ave	0.5818	0.5139	0.1000	17.7	20.0	-11.7	30.0
n-Butyl acetate	Lin2		2.329		13.1	20.0	-34.5*	30.0
1,2-Dibromoethane (EDB)	Ave	0.7742	0.6803	0.1000	17.6	20.0	-12.1	30.0
Chlorobenzene	Ave	4.689	4.496	0.5000	19.2	20.0	-4.1	30.0
1,1,1,2-Tetrachloroethane	Ave	1.566	1.532		19.6	20.0	-2.1	30.0
Ethylbenzene	Ave	6.482	6.493	0.1000	20.0	20.0	0.2	30.0
m,p-Xylene	Ave	2.567	2.486	0.1000	19.4	20.0	-3.1	30.0
o-Xylene	Ave	2.419	2.286	0.3000	18.9	20.0	-5.5	30.0
Styrene	Ave	4.179	4.148	0.3000	19.9	20.0	-0.7	30.0
Bromoform	Ave	0.3885	0.3321	0.1000	17.1	20.0	-14.5	30.0
Isopropylbenzene	Ave	5.736	5.861	0.1000	20.4	20.0	2.2	30.0
Bromobenzene	Ave	1.716	1.625		18.9	20.0	-5.3	30.0
1,1,2,2-Tetrachloroethane	Ave	1.582	1.368	0.2000	17.3	20.0	-13.6	30.0
1,2,3-Trichloropropane	Lin1		1.406		21.9	20.0	9.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3145	0.2386		15.2	20.0	-24.1	30.0
n-Propylbenzene	Ave	6.370	6.313		19.8	20.0	-0.9	30.0
2-Chlorotoluene	Ave	4.569	4.297		18.8	20.0	-6.0	30.0
4-Chlorotoluene	Ave	5.314	5.337		20.1	20.0	0.4	30.0
1,3,5-Trimethylbenzene	Ave	5.386	5.959		22.1	20.0	10.6	30.0
tert-Butylbenzene	Ave	7.149	7.427		20.8	20.0	3.9	30.0
1,2,4-Trimethylbenzene	Ave	4.953	5.082		20.5	20.0	2.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/42 Calibration Date: 11/10/2020 03:51

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
sec-Butylbenzene	Ave	5.753	6.213		21.6	20.0	8.0	30.0
1,3-Dichlorobenzene	Lin2		3.032	0.6000	19.6	20.0	-2.2	30.0
p-Isopropyltoluene	Lin2		9.083		22.1	20.0	10.7	30.0
1,4-Dichlorobenzene	Ave	6.458	6.189	0.5000	19.2	20.0	-4.2	30.0
1,2,3-Trimethylbenzene	Lin2		9.927		21.0	20.0	5.2	30.0
Benzyl chloride	Ave	0.4985	0.2982		12.0	20.0	-40.2*	30.0
1,2-Dichlorobenzene	Ave	5.809	5.124	0.4000	17.6	20.0	-11.8	30.0
n-Butylbenzene	Ave	7.285	7.789		21.4	20.0	6.9	30.0
1,2-Dibromo-3-chloropropane	Ave	0.3712	0.3937	0.0500	21.2	20.0	6.1	30.0
1,3,5-Trichlorobenzene	Lin2		3.960		21.8	20.0	9.0	30.0
1,2,4-Trichlorobenzene	Ave	2.994	3.140	0.2000	21.0	20.0	4.9	30.0
Hexachlorobutadiene	Ave	1.339	1.785		26.7	20.0	33.3*	30.0
Naphthalene	Ave	9.675	9.744		20.1	20.0	0.7	30.0
1,2,3-Trichlorobenzene	Ave	2.701	2.853		21.1	20.0	5.6	30.0
1-Chlorohexane	None				1.00	20.0	-100.0*	30.0
Isooctane	None				1.00	20.0	-100.0*	30.0
tert-Amyl alcohol	None				50.0	200	-100.0*	30.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2344		56.3	50.0	12.5	30.0
Toluene-d8 (Surr)	Ave	1.124	1.169		52.0	50.0	4.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.7204		56.0	50.0	12.0	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 10-Nov-2020 03:51:30 ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 06:55:12 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 04:37:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.972	0.000	0	41091	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.197	-0.006	98	73062	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.880	5.886	-0.006	42	5571	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.337	0.001	89	54472	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	69	29114	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.545	4.551	-0.006	49	17129	50.0	56.3	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	63661	50.0	52.0	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	20975	50.0	56.0	
17 Ethanol	45	2.155	2.167	-0.012	100	44735	800.0	654.5	
18 Ethyl ether	59	2.222	2.228	-0.006	89	36250	20.0	19.1	M
19 Acrolein	56	2.332	2.344	-0.012	98	64497	94.8	83.4	M
20 1,1-Dichloroethene	96	2.405	2.411	-0.006	88	29377	20.0	17.7	M
21 112TCTFE	101	2.423	2.423	0.000	93	29731	20.0	22.3	M
22 Acetone	43	2.484	2.496	-0.012	96	71634	40.0	42.8	M
105 Isopropyl alcohol	45	2.661	2.496	0.165	98	49839	200.0	171.2	M
23 Iodomethane	142	2.533	2.545	-0.012	98	29058	20.0	22.1	M
24 Carbon disulfide	76	2.582	2.594	-0.012	97	85357	20.0	18.8	
25 3-Chloro-1-propene	76	2.758	2.630	0.128	84	12319	20.0	17.2	
118 Acetonitrile	40	2.740	2.752	-0.012	95	86187	200.0	175.3	
26 Methyl acetate	43	2.801	2.807	-0.006	98	131726	40.0	36.5	M
27 Methylene Chloride	84	2.868	2.874	-0.006	84	32751	20.0	17.8	
35 2-Methyl-2-propanol	59	3.051	3.063	-0.012	96	43364	200.0	170.1	
30 Acrylonitrile	53	3.118	3.124	-0.006	98	339729	200.0	163.3	
28 trans-1,2-Dichloroethene	96	3.124	3.130	-0.006	88	30651	20.0	16.4	
29 Methyl tert-butyl ether	73	3.155	3.149	0.006	90	70335	20.0	17.8	
31 Hexane	57	3.398	3.398	0.000	93	39325	20.0	19.3	
32 1,1-Dichloroethane	63	3.527	3.533	-0.007	96	75985	20.0	18.0	M
34 2-Chloro-1,3-butadiene	53	3.612	3.618	-0.006	89	78124	20.0	17.6	M
36 Isopropyl ether	87	3.630	3.642	-0.012	97	14322	20.0	17.3	
37 Tert-butyl ethyl ether	59	3.972	3.978	-0.006	95	117871	20.0	16.1	
38 2,2-Dichloropropane	77	4.069	4.075	-0.006	78	42923	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.081	4.081	0.000	89	38958	20.0	17.1	
40 2-Butanone (MEK)	43	4.124	4.136	-0.012	95	61722	40.0	34.3	
41 Propionitrile	54	4.173	4.185	-0.012	99	130665	200.0	158.6	
104 Ethyl acetate	43	4.197	4.203	-0.006	98	150150	40.0	34.0	
42 Chlorobromomethane	128	4.307	4.307	0.000	76	17762	20.0	18.1	
43 Methacrylonitrile	67	4.319	4.325	-0.006	94	175387	200.0	168.8	
44 Tetrahydrofuran	71	4.374	4.374	0.000	83	7461	40.0	29.6	
45 Chloroform	83	4.392	4.398	-0.006	93	62239	20.0	18.7	
46 1,1,1-Trichloroethane	97	4.551	4.557	-0.006	94	54759	20.0	18.9	
47 Cyclohexane	56	4.593	4.587	0.006	90	100670	20.0	18.3	
48 Carbon tetrachloride	117	4.703	4.709	-0.006	95	37376	20.0	19.8	
49 1,1-Dichloropropene	75	4.715	4.721	-0.006	82	45416	20.0	17.9	M
108 Isobutyl alcohol	43	4.910	4.911	-0.001	78	57414	500.0	338.5	
50 Benzene	78	4.910	4.917	-0.007	90	144113	20.0	19.0	M
116 n-Butanol	56	5.002	5.008	-0.006	43	76984	500.0	529.8	a
52 Tert-amyl methyl ether	73	5.051	5.057	-0.006	84	69386	20.0	16.9	
51 1,2-Dichloroethane	62	4.935	5.191	-0.256	93	63249	20.0	21.3	
53 n-Heptane	43	5.197	5.203	-0.006	94	64093	20.0	21.6	M
54 Trichloroethene	132	5.551	5.557	-0.007	93	41949	20.0	18.5	M
117 Ethyl acrylate	55	5.709	5.740	-0.031	95	39974	20.0	13.4	Ma
114 Methylcyclohexane	83	5.733	5.746	-0.013	91	50773	20.0	20.0	
55 1,2-Dichloropropane	63	5.770	5.776	-0.006	95	41401	20.0	18.3	
106 2-Nitropropane	43	6.300	5.874	0.426	98	20255	40.0	24.4	
56 Dibromomethane	93	5.886	5.886	0.000	96	19462	20.0	20.6	M
57 Methyl methacrylate	69	5.928	5.935	-0.007	87	42529	40.0	32.0	M
115 1,4-Dioxane	58	5.935	5.947	-0.012	33	11275	400.0	372.5	M
58 Dichlorobromomethane	83	6.057	6.063	-0.007	93	27472	20.0	18.7	
59 2-Chloroethyl vinyl ether	63	6.392	6.392	0.000	80	22724	20.0	16.0	M
60 cis-1,3-Dichloropropene	75	6.520	6.526	-0.006	81	28198	20.0	21.5	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.715	-0.006	96	129733	40.0	33.6	M
62 Toluene	92	6.861	6.861	0.000	97	89078	20.0	18.5	M
63 trans-1,3-Dichloropropene	75	7.105	7.105	0.000	87	19458	20.0	19.0	
64 Ethyl methacrylate	69	7.239	7.239	0.000	85	28650	20.0	14.1	M
65 1,1,2-Trichloroethane	83	7.294	7.300	-0.006	94	22584	20.0	18.6	
66 Tetrachloroethene	166	7.434	7.434	0.000	91	35070	20.0	19.3	
67 1,3-Dichloropropane	76	7.471	7.477	-0.006	86	41272	20.0	19.3	
68 2-Hexanone	43	7.599	7.599	0.000	97	76533	40.0	29.3	
69 Chlorodibromomethane	129	7.709	7.709	0.000	87	15018	20.0	17.7	
109 n-Butyl acetate	43	7.751	7.758	-0.007	96	68057	20.0	13.1	
70 Ethylene Dibromide	107	7.818	7.818	0.000	97	19883	20.0	17.6	
71 Chlorobenzene	112	8.367	8.391	-0.024	92	97959	20.0	19.2	
72 1,1,1,2-Tetrachloroethane	131	8.465	8.471	-0.006	93	33387	20.0	19.6	
73 Ethylbenzene	91	8.507	8.507	0.000	98	141474	20.0	20.0	
74 m-Xylene & p-Xylene	106	8.641	8.647	-0.006	98	54175	20.0	19.4	
75 o-Xylene	106	9.086	9.092	-0.006	98	49814	20.0	18.9	
76 Styrene	104	9.105	9.123	-0.018	89	90373	20.0	19.9	
77 Bromoform	173	9.288	9.294	-0.006	95	7235	20.0	17.1	
78 Isopropylbenzene	105	9.519	9.519	0.000	96	127698	20.0	20.4	
79 Bromobenzene	156	9.836	9.836	0.000	91	35415	20.0	18.9	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.879	-0.006	97	29799	20.0	17.3	
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	92	30628	20.0	21.9	
84 2-Chlorotoluene	91	10.074	10.086	-0.012	96	93621	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 trans-1,4-Dichloro-2-butene	53	9.940	10.208	-0.268	68	5199	20.0	15.2	
83 N-Propylbenzene	91	10.001	10.214	-0.213	99	137546	20.0	19.8	
85 4-Chlorotoluene	91	10.208	10.214	-0.006	98	116296	20.0	20.1	
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	94	129832	20.0	22.1	
87 tert-Butylbenzene	119	10.586	10.586	0.000	96	161831	20.0	20.8	
88 1,2,4-Trimethylbenzene	105	10.647	10.653	-0.006	98	110726	20.0	20.5	
89 sec-Butylbenzene	105	10.848	10.848	0.000	95	135365	20.0	21.6	
90 1,3-Dichlorobenzene	146	10.952	10.958	-0.006	98	66057	20.0	19.6	
92 1,4-Dichlorobenzene	146	11.062	10.958	0.104	94	72074	20.0	19.2	
91 4-Isopropyltoluene	119	11.031	11.037	-0.006	96	105774	20.0	22.1	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	115602	20.0	21.0	
113 Benzyl chloride	126	11.232	11.238	-0.006	99	3473	20.0	12.0	
93 1,2-Dichlorobenzene	146	11.494	11.501	-0.006	97	59676	20.0	17.6	
94 n-Butylbenzene	91	11.525	11.525	0.000	98	90712	20.0	21.4	
95 1,2-Dibromo-3-Chloropropane	75	12.433	12.433	0.000	75	4585	20.0	21.2	
112 1,3,5-Trichlorobenzene	180	12.695	12.695	0.000	96	46118	20.0	21.8	
96 1,2,4-Trichlorobenzene	180	13.439	13.439	0.000	95	36570	20.0	21.0	
97 Hexachlorobutadiene	225	13.677	13.671	0.006	94	20787	20.0	26.7	
98 Naphthalene	128	13.726	13.726	0.000	97	113477	20.0	20.1	
99 1,2,3-Trichlorobenzene	180	14.024	14.030	-0.006	96	33222	20.0	21.1	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	33.5	
S 100 Xylenes, Total	1				0		40.0	38.3	
S 102 1,3-Dichloropropene, Total	1				0		40.0	40.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

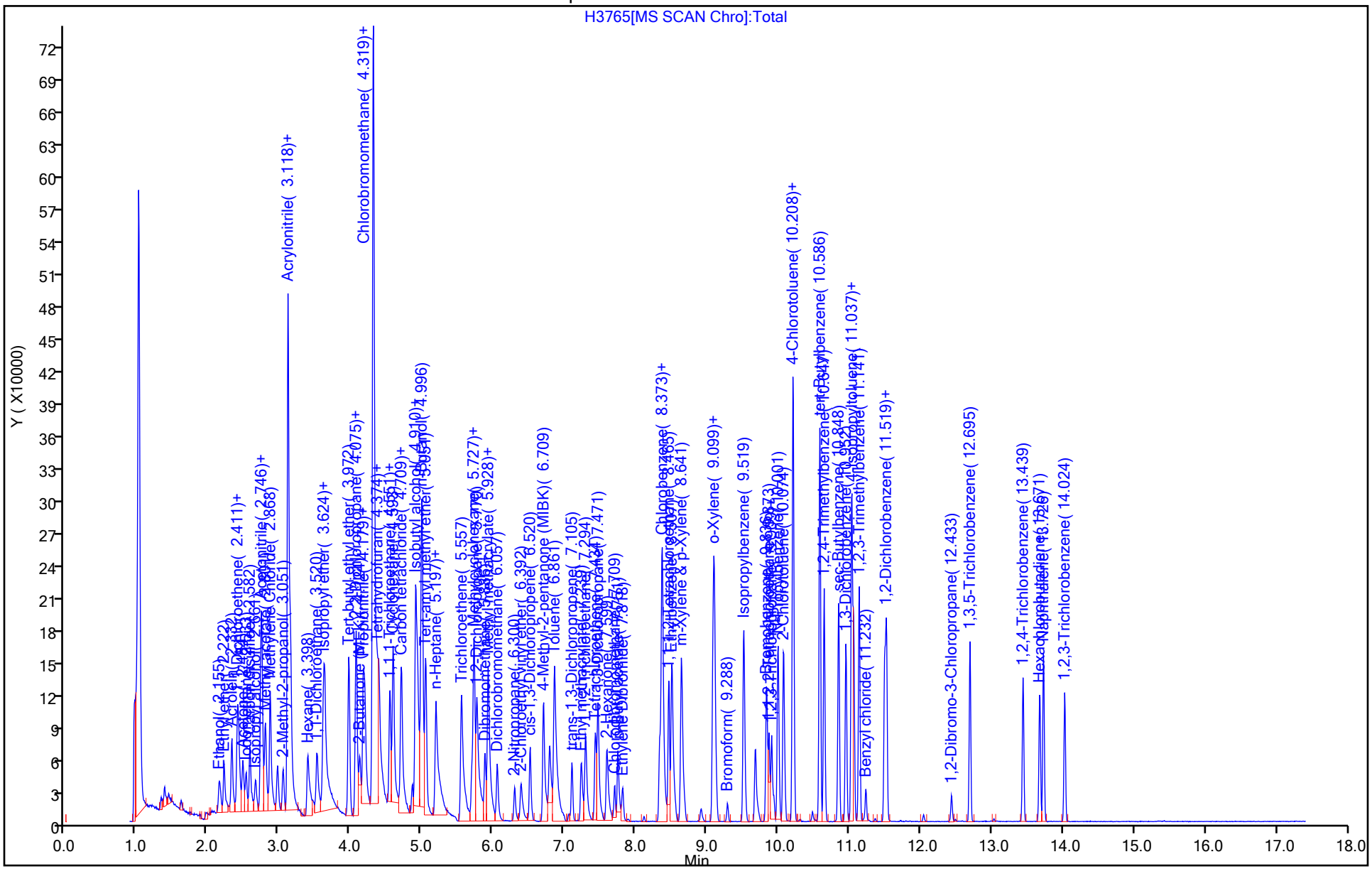
Reagents:

VV_I_ICVSOL_00053	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Nov-2020 07:04:13 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D				
Injection Date:	10-Nov-2020 03:51:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	icv			Worklist Smp#:	42
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

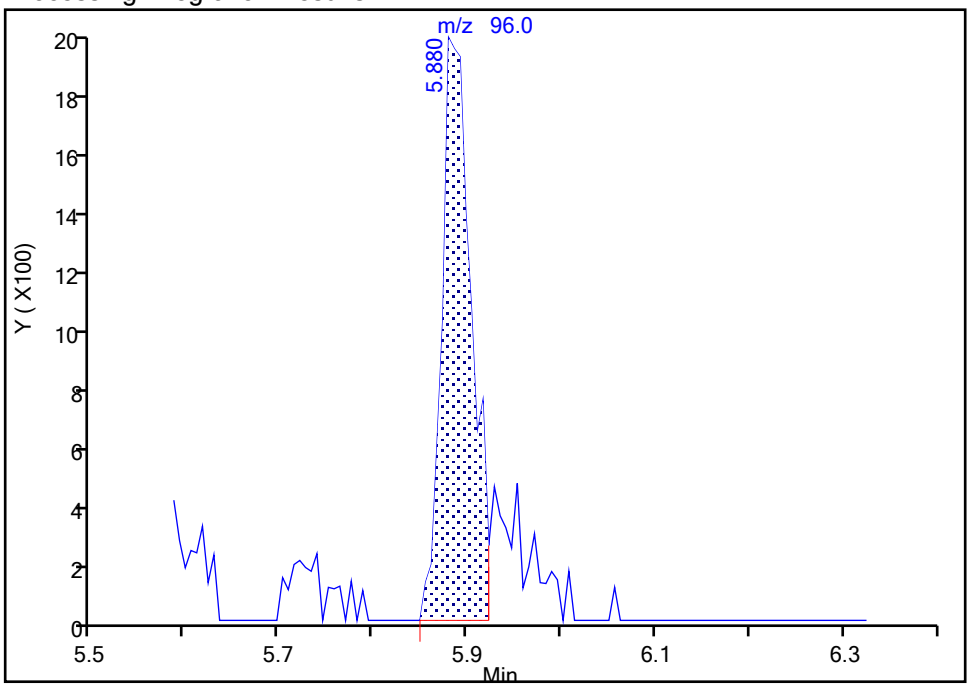
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

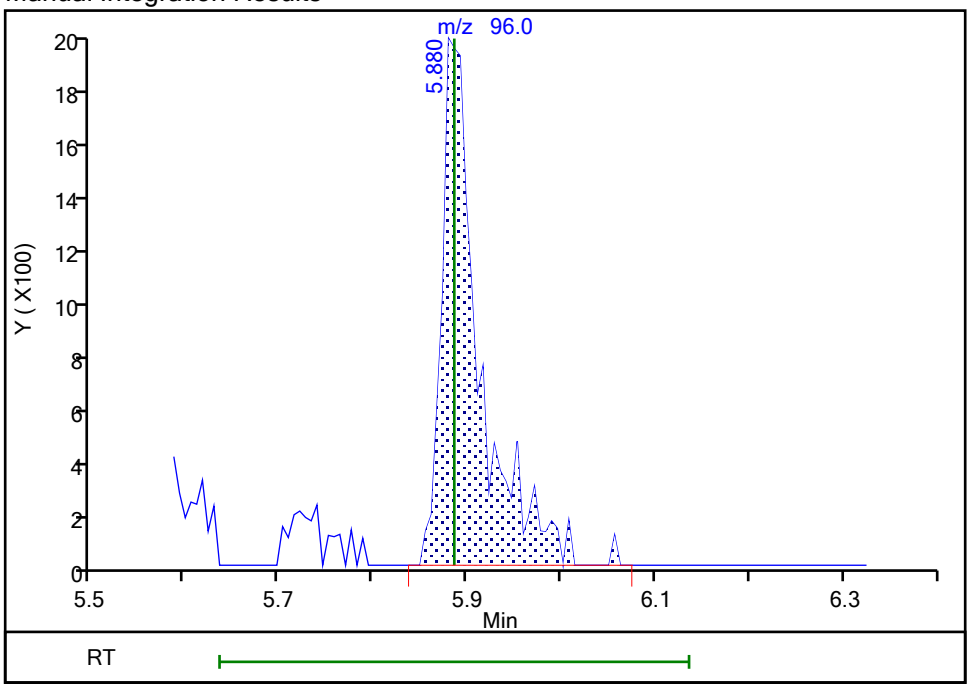
Processing Integration Results

RT: 5.88
Area: 4372
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.88
Area: 5571
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

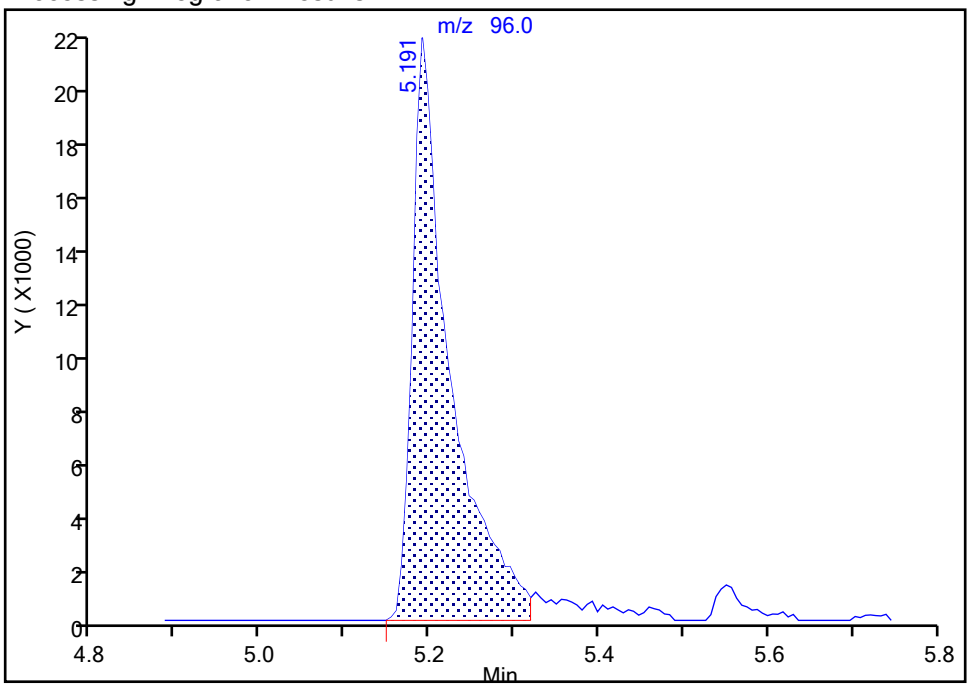
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

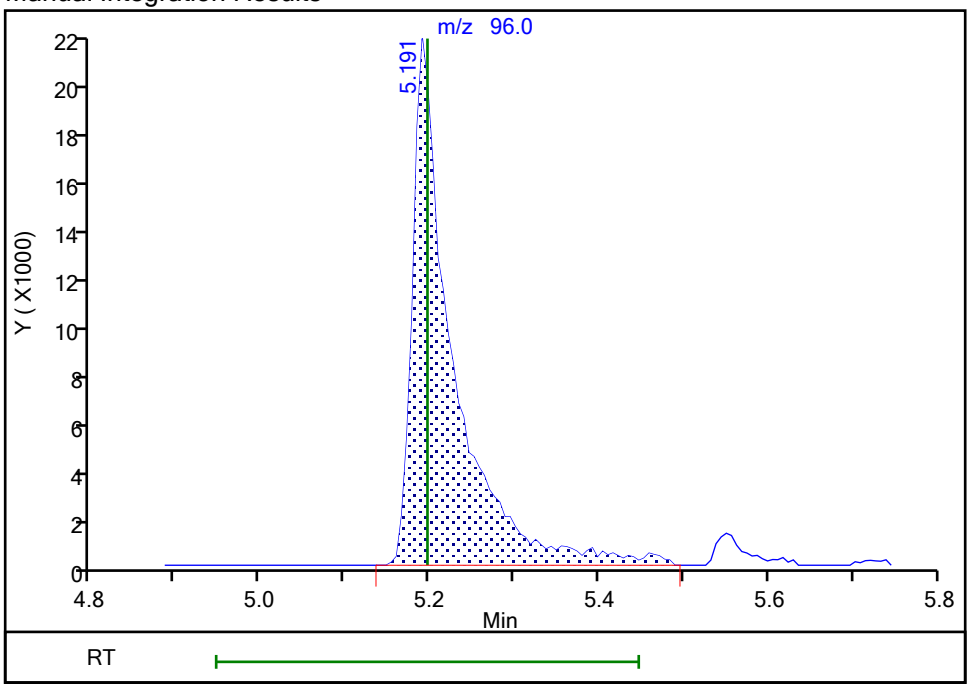
Processing Integration Results

RT: 5.19
Area: 67915
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 73062
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:45:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

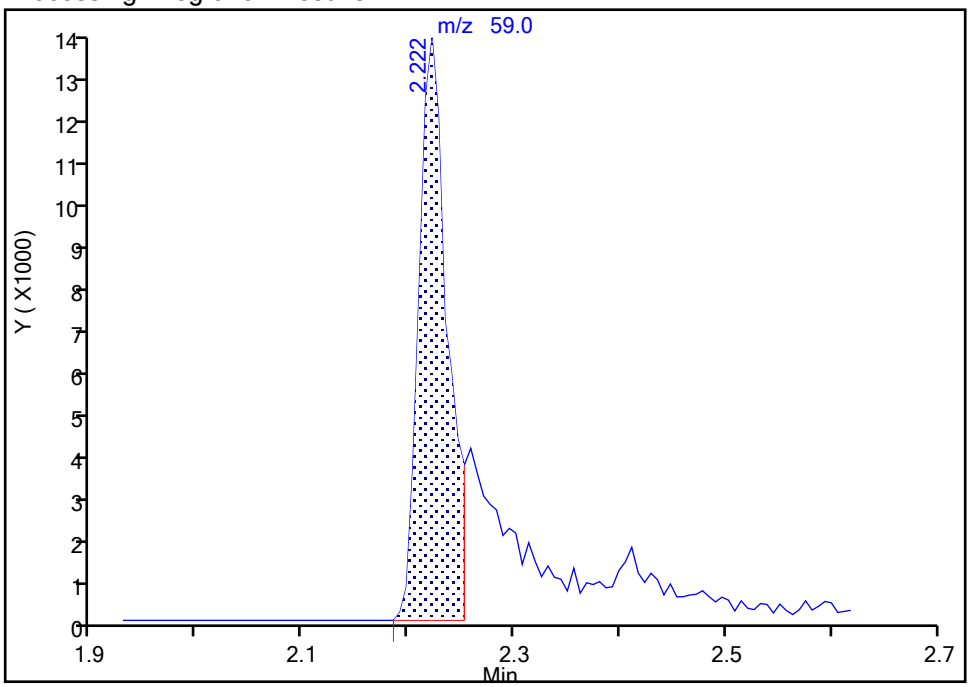
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

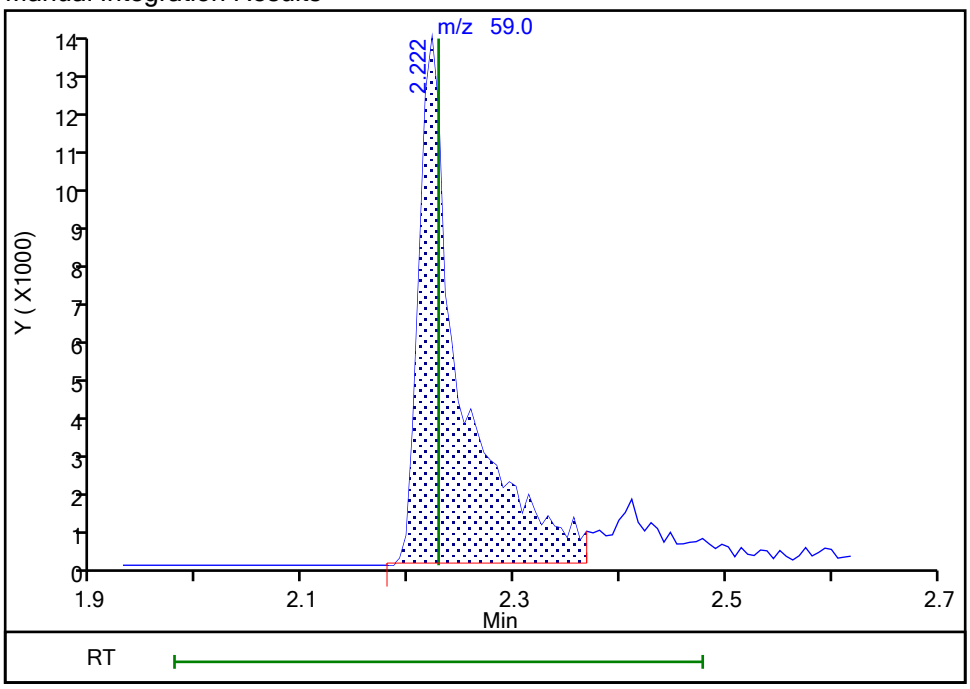
Processing Integration Results

RT: 2.22
Area: 24888
Amount: 13.127970
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 36250
Amount: 19.121220
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

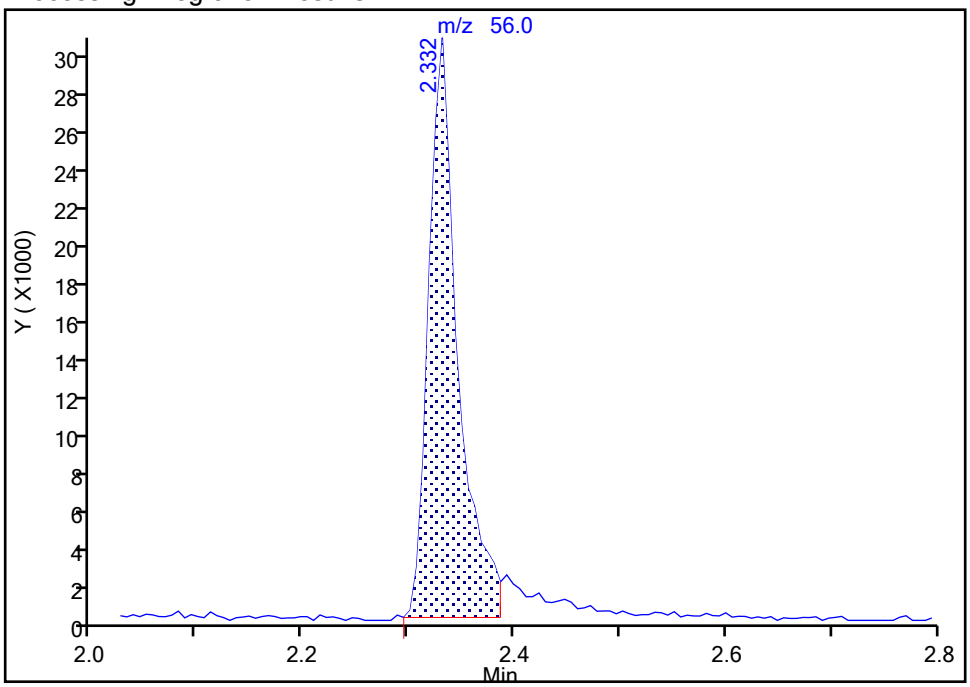
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

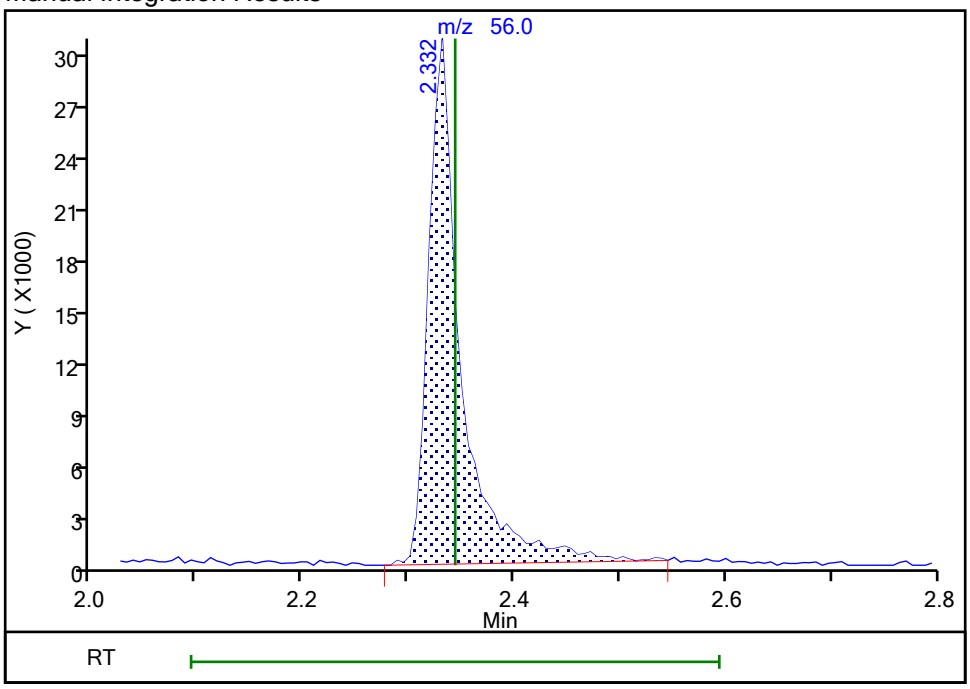
Processing Integration Results

RT: 2.33
Area: 57963
Amount: 74.990161
Amount Units: ug/l



Manual Integration Results

RT: 2.33
Area: 64497
Amount: 83.443583
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

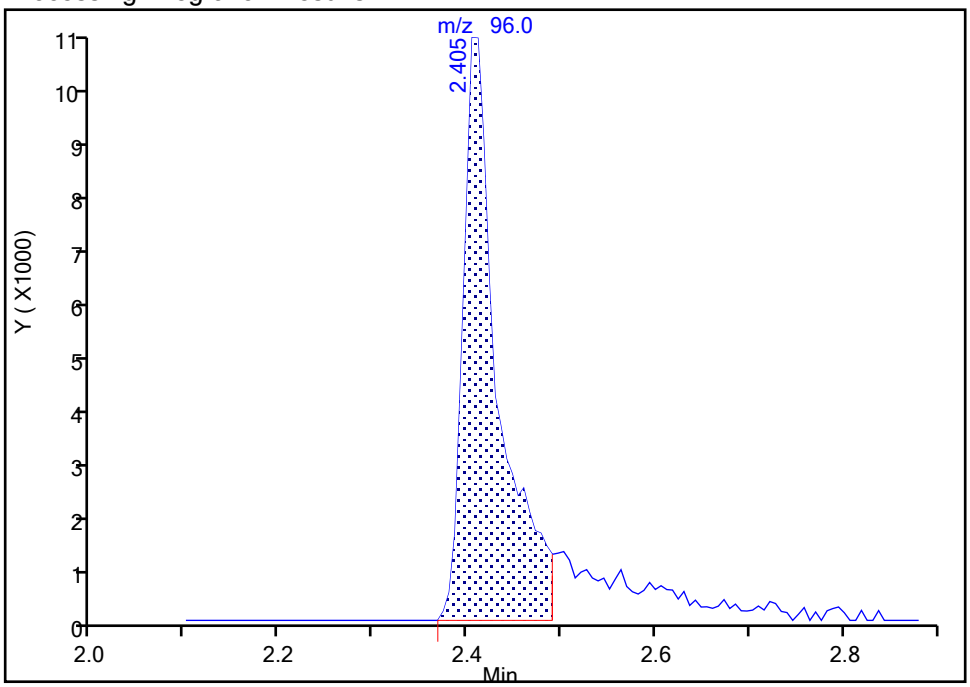
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

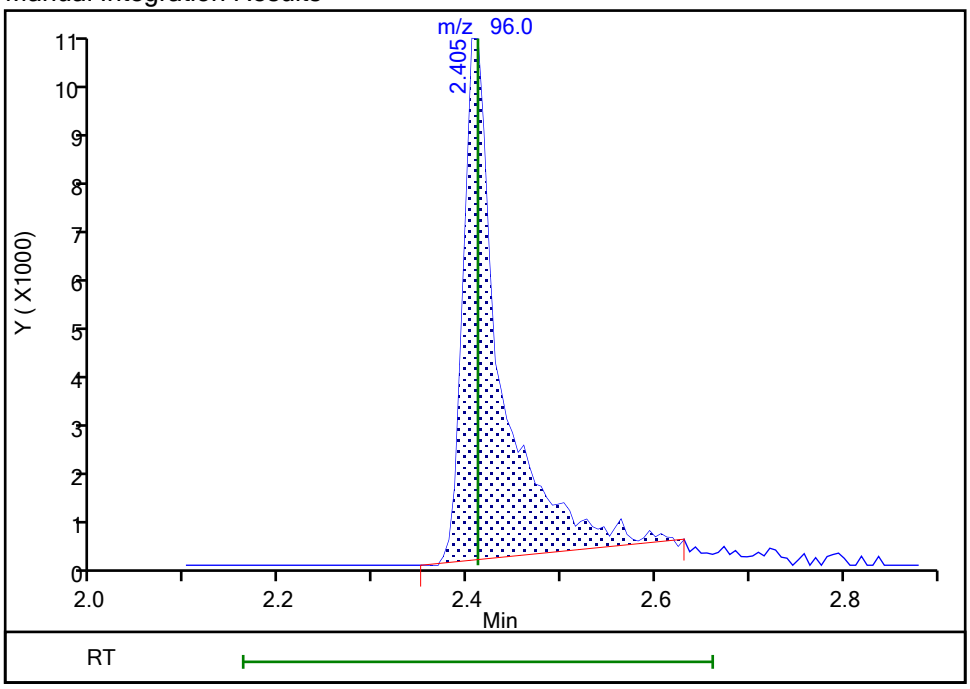
Processing Integration Results

RT: 2.40
Area: 27768
Amount: 16.708753
Amount Units: ug/l



Manual Integration Results

RT: 2.40
Area: 29377
Amount: 17.652705
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

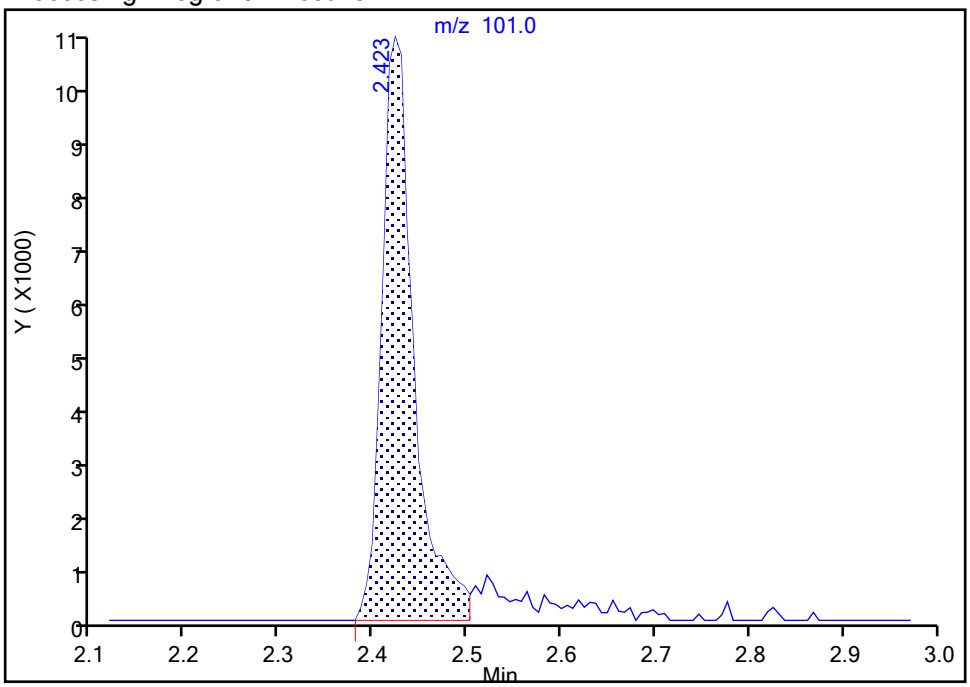
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

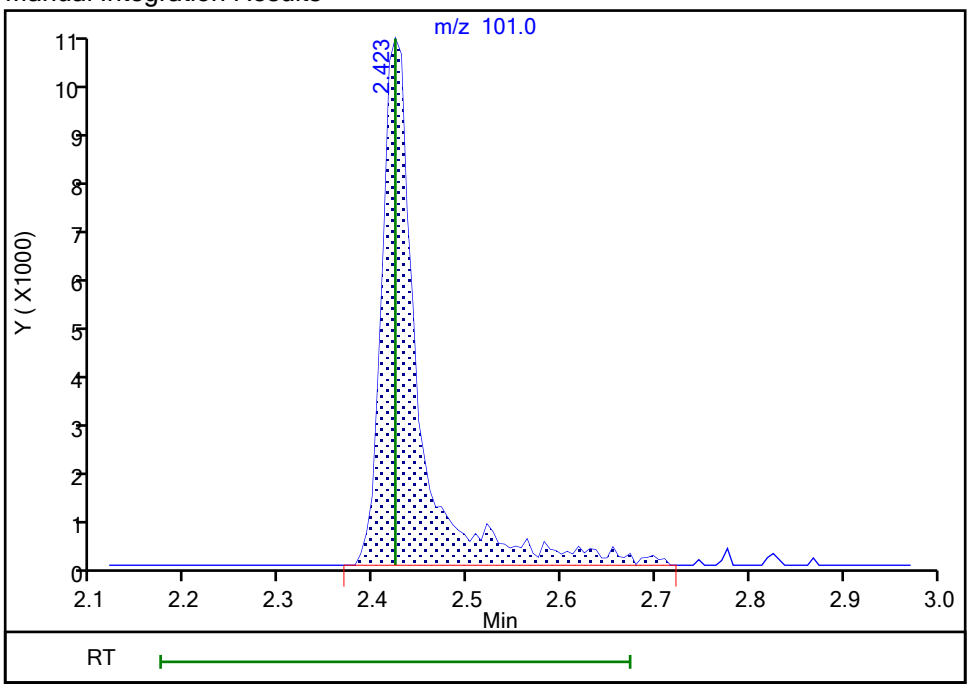
Processing Integration Results

RT: 2.42
Area: 25828
Amount: 19.387856
Amount Units: ug/l



Manual Integration Results

RT: 2.42
Area: 29731
Amount: 22.317654
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

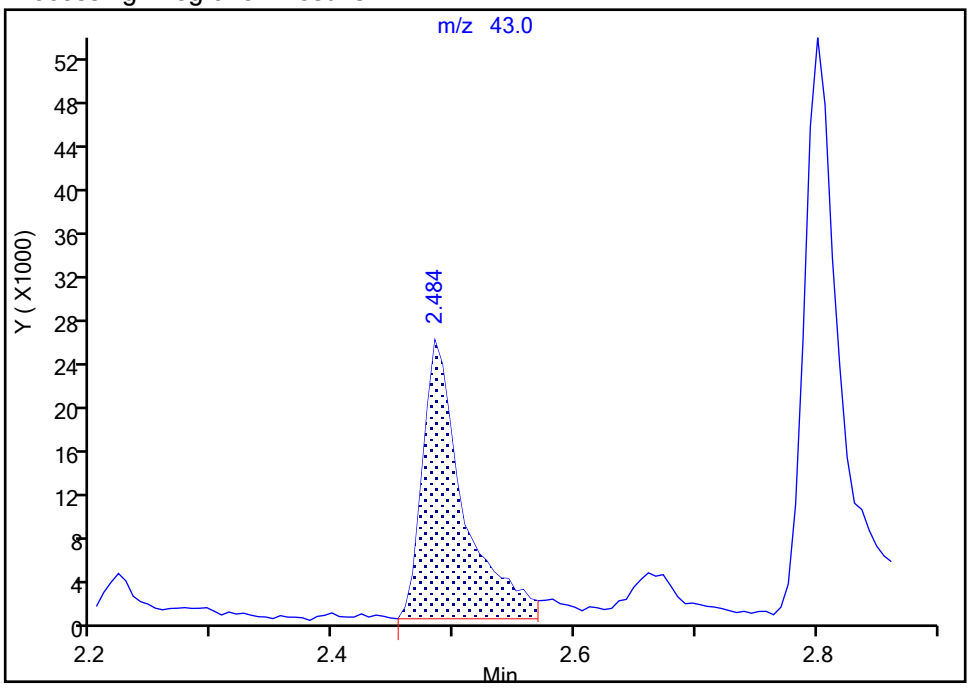
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

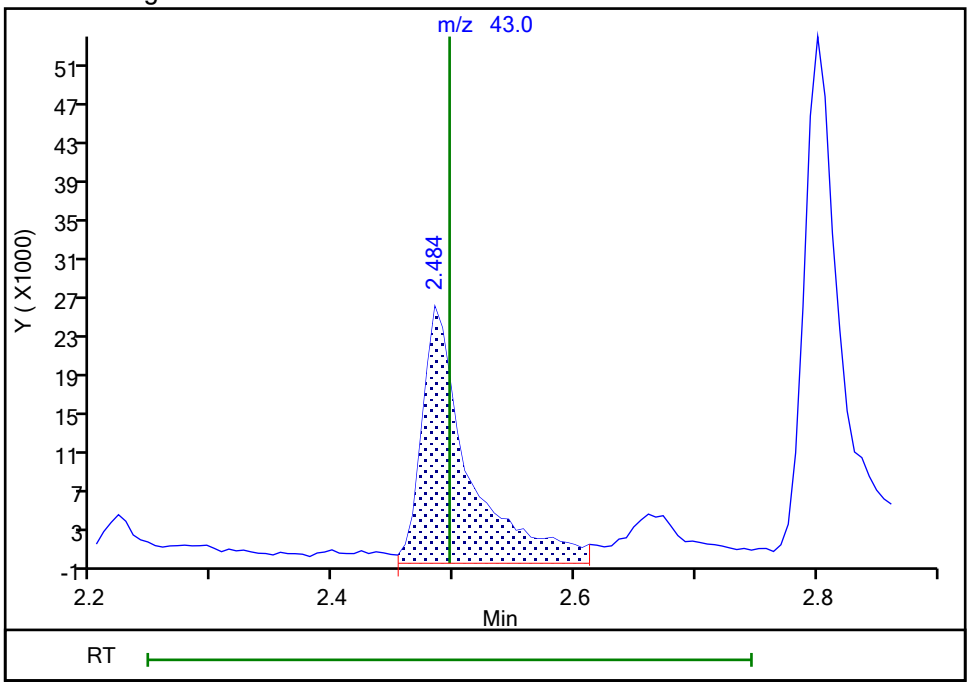
Processing Integration Results

RT: 2.48
Area: 60039
Amount: 35.838136
Amount Units: ug/l



Manual Integration Results

RT: 2.48
Area: 71634
Amount: 42.759358
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:47:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

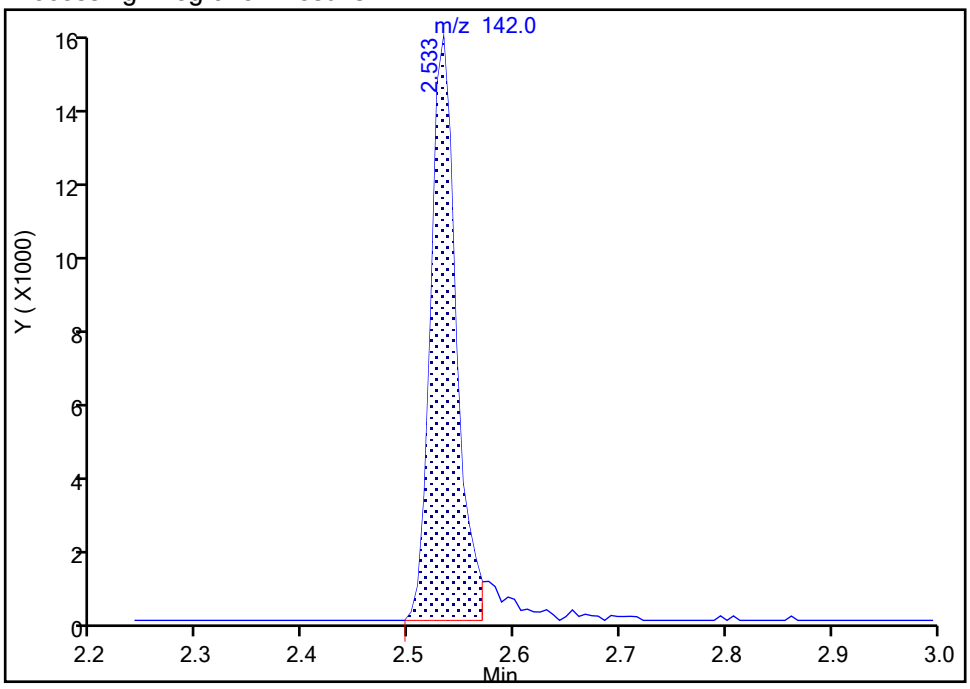
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

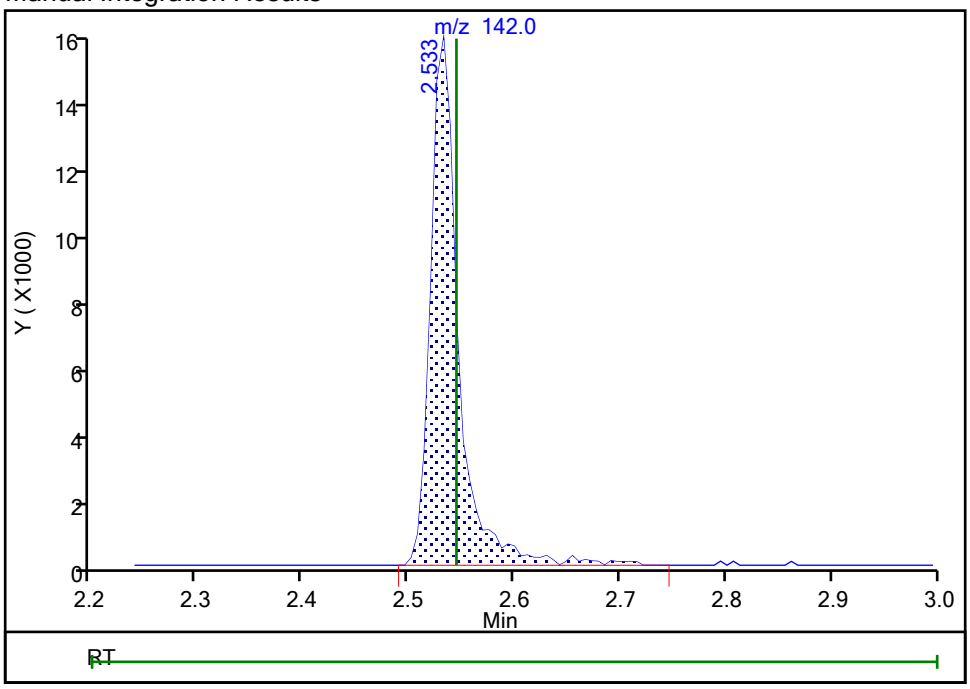
Processing Integration Results

RT: 2.53
Area: 26635
Amount: 19.731257
Amount Units: ug/l



Manual Integration Results

RT: 2.53
Area: 29058
Amount: 22.090942
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:47:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

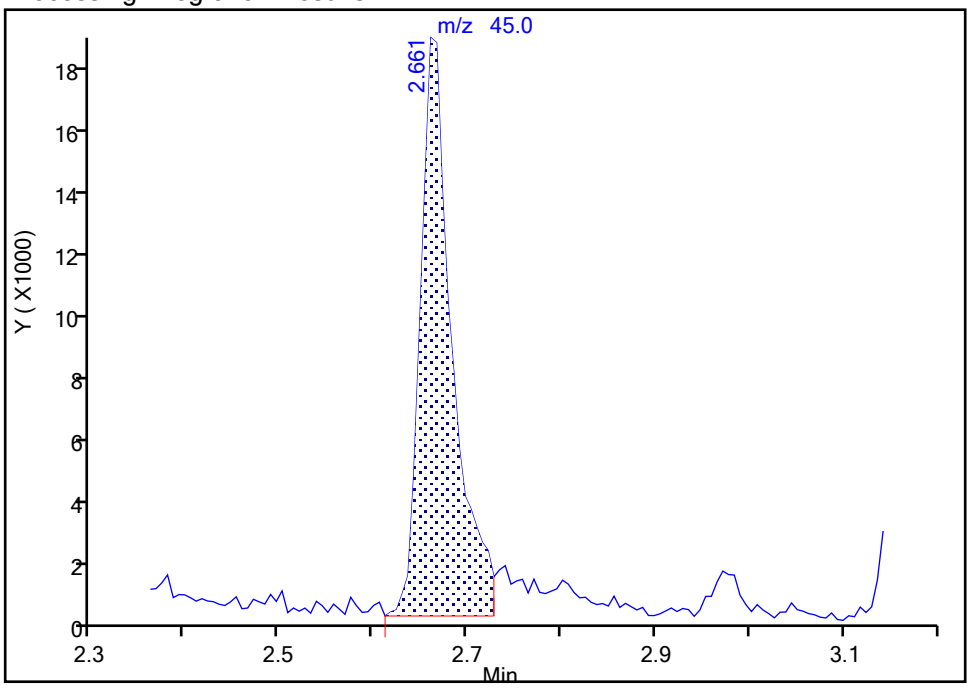
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

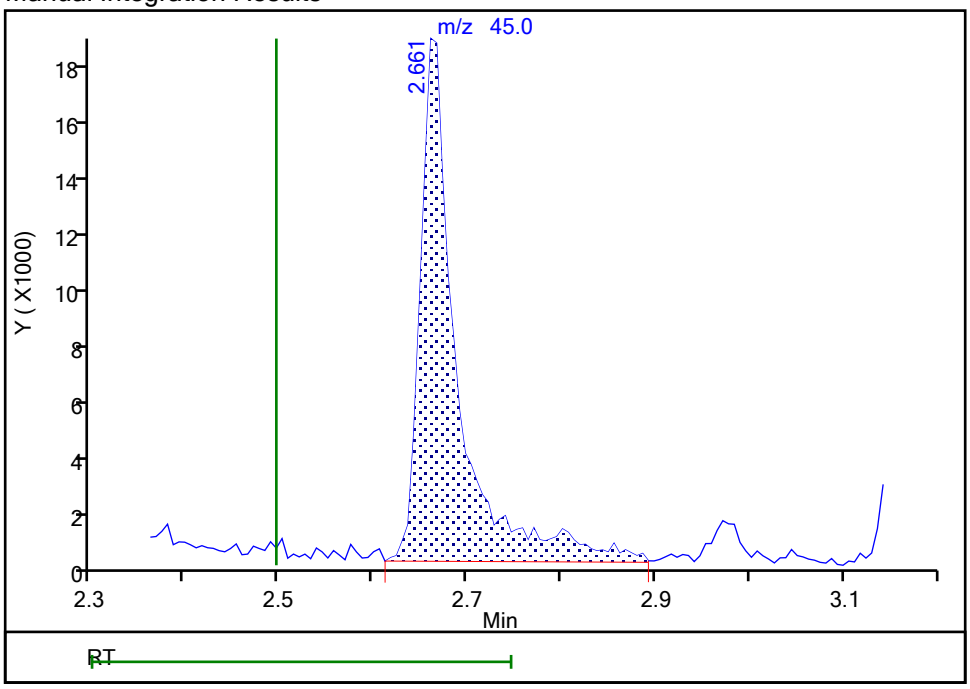
Processing Integration Results

RT: 2.66
Area: 42740
Amount: 146.7974
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 49839
Amount: 171.1801
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:47:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

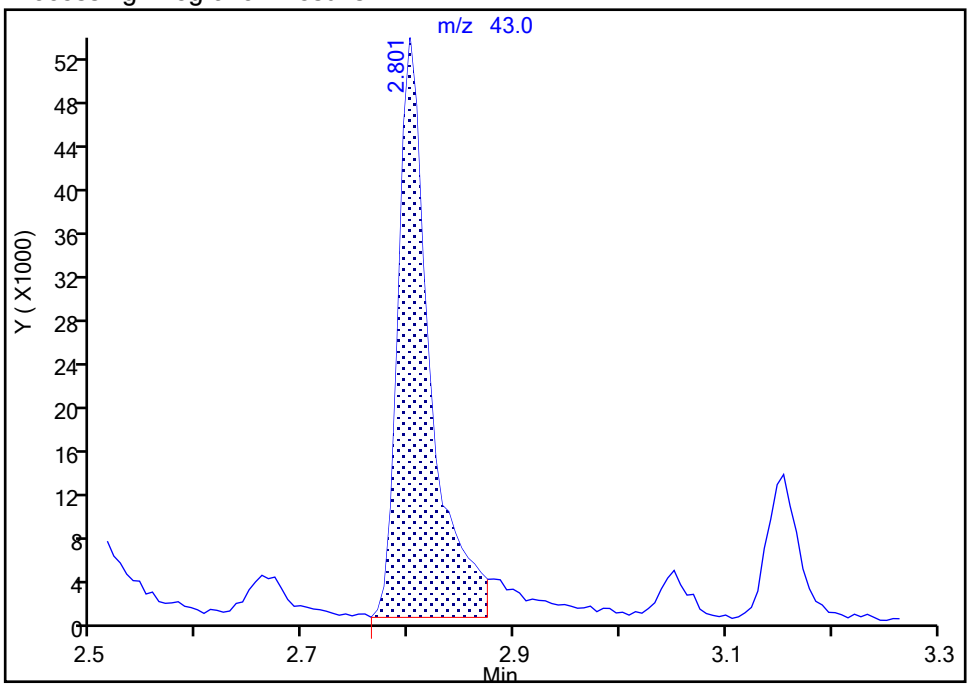
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

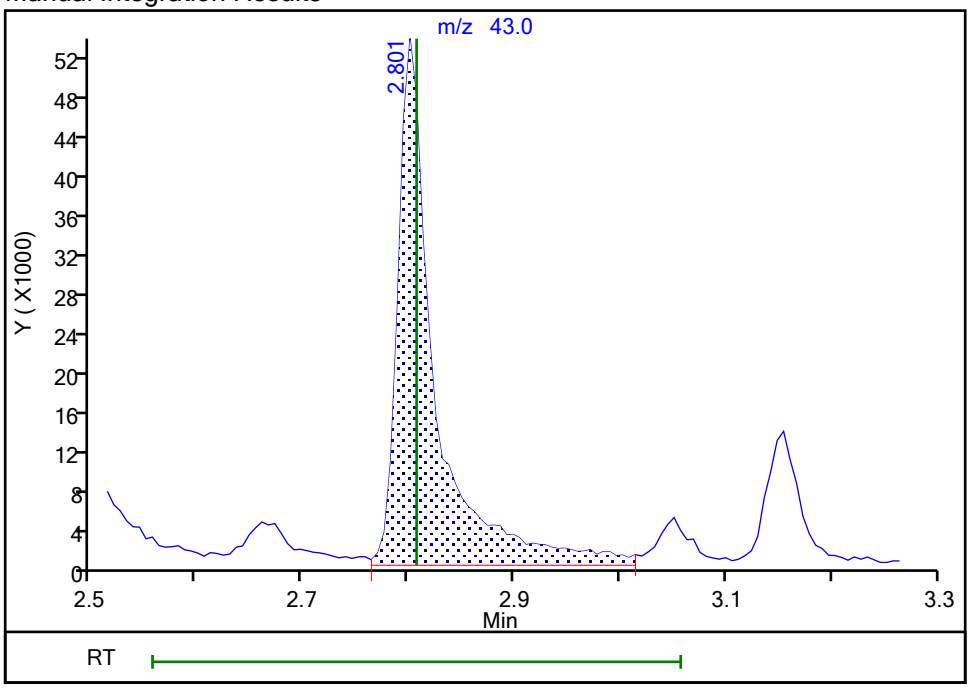
Processing Integration Results

RT: 2.80
Area: 111655
Amount: 30.913141
Amount Units: ug/l



Manual Integration Results

RT: 2.80
Area: 131726
Amount: 36.470059
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:48:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

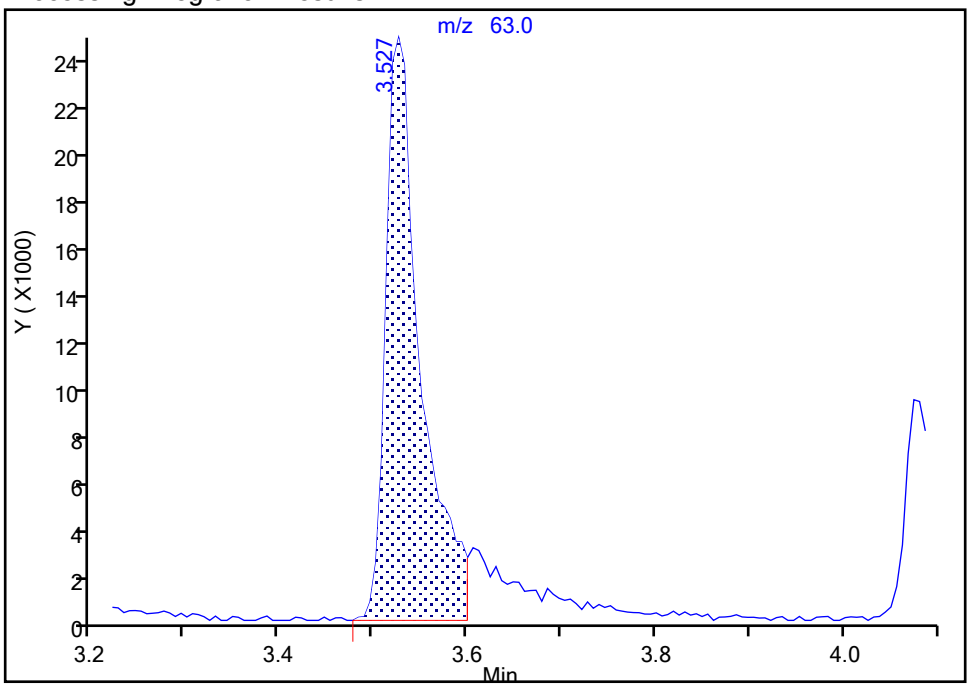
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

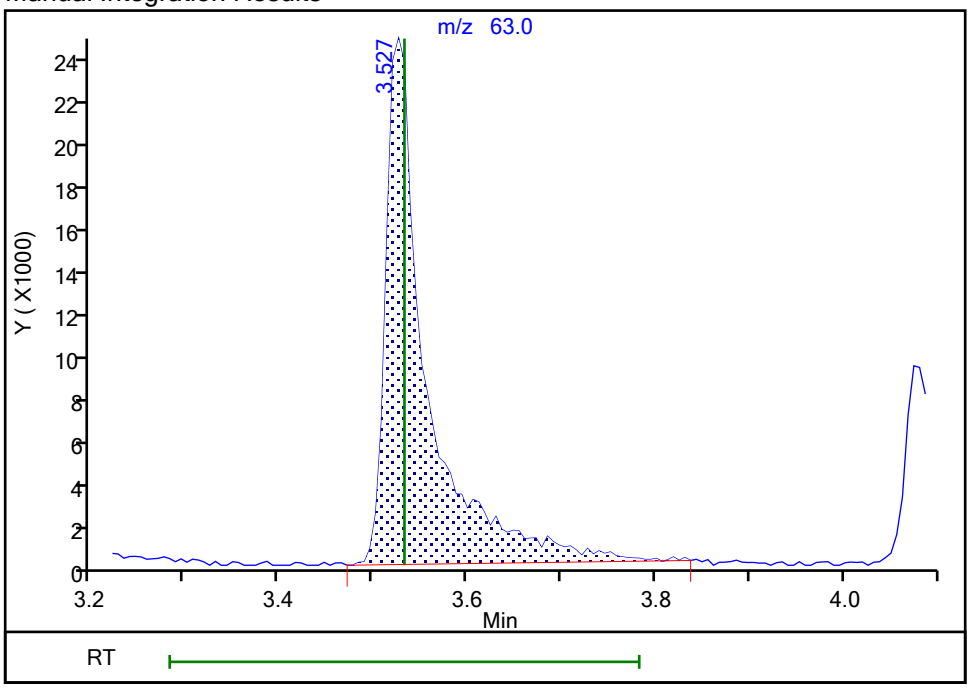
Processing Integration Results

RT: 3.53
Area: 64656
Amount: 15.328095
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 75985
Amount: 18.013877
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:48:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

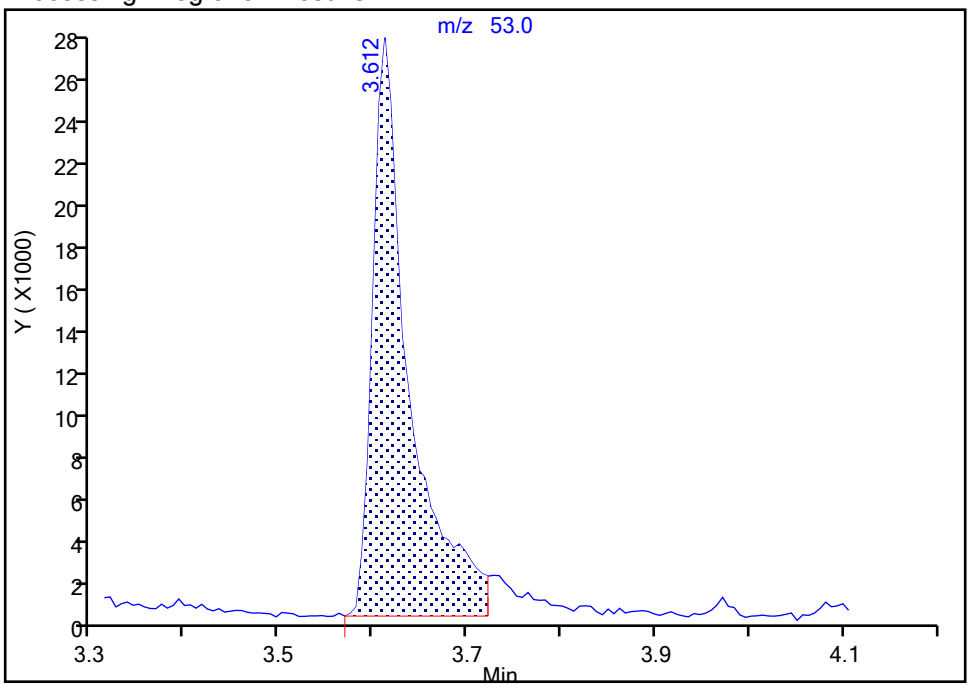
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

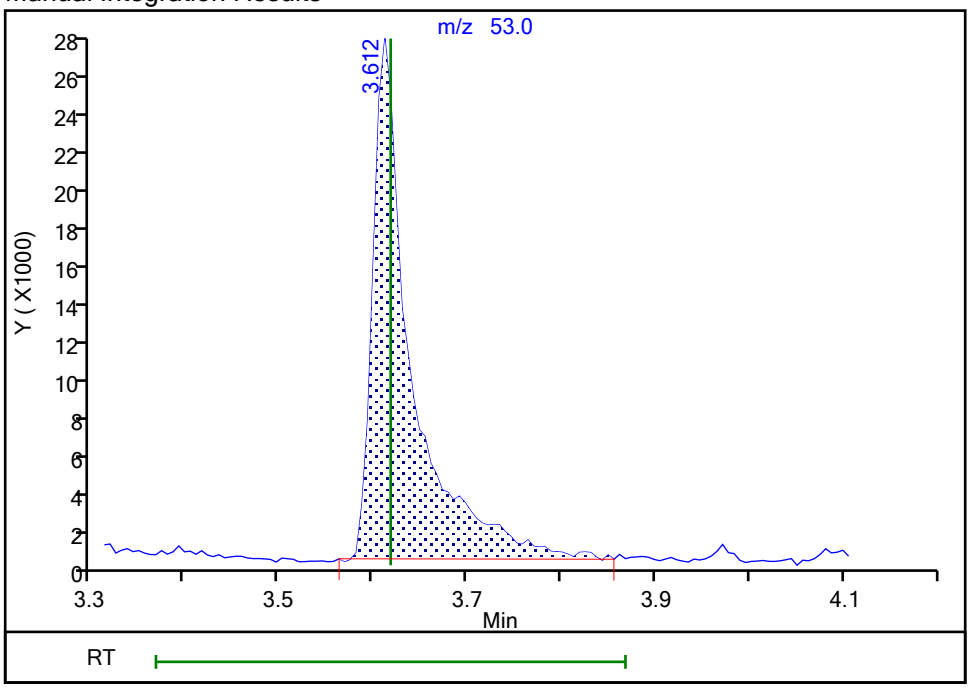
Processing Integration Results

RT: 3.61
Area: 74364
Amount: 16.736231
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 78124
Amount: 17.582450
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:48:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

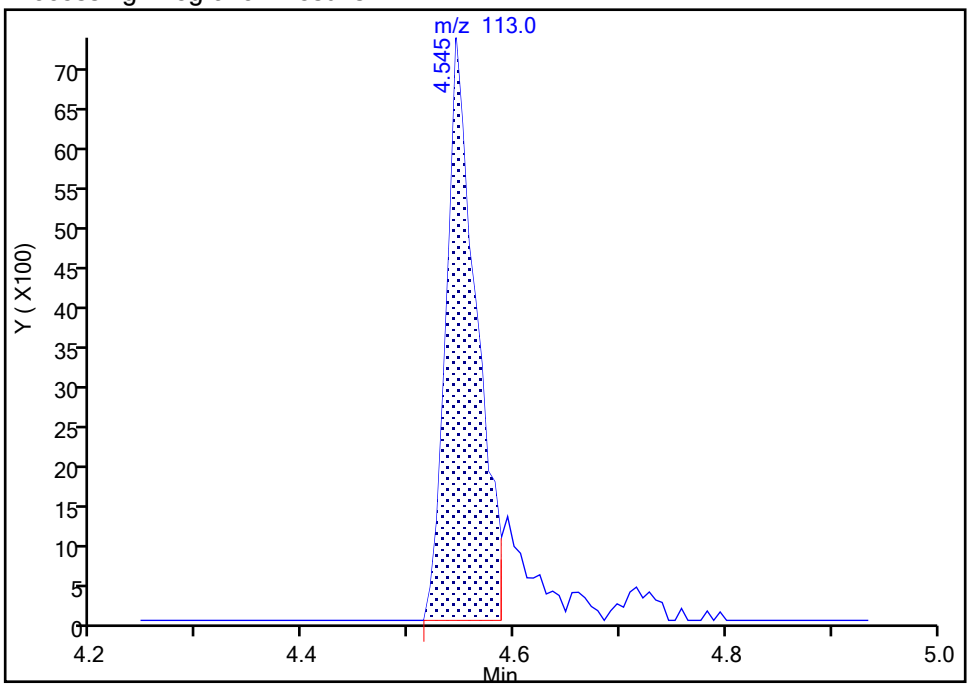
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

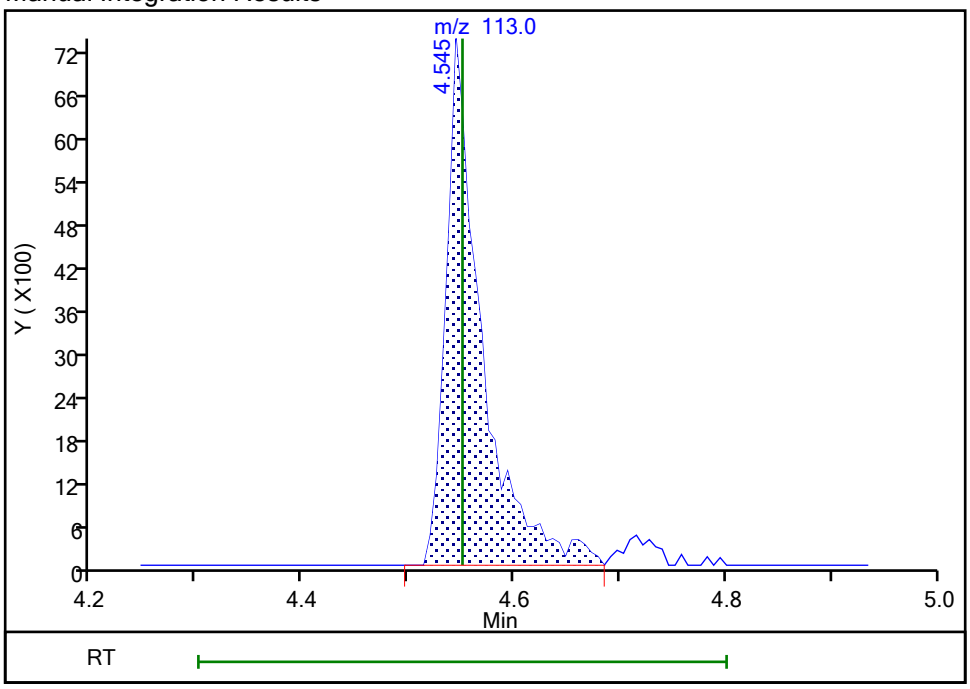
Processing Integration Results

RT: 4.54
Area: 14522
Amount: 47.699175
Amount Units: ug/l



Manual Integration Results

RT: 4.54
Area: 17129
Amount: 56.262165
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:22
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

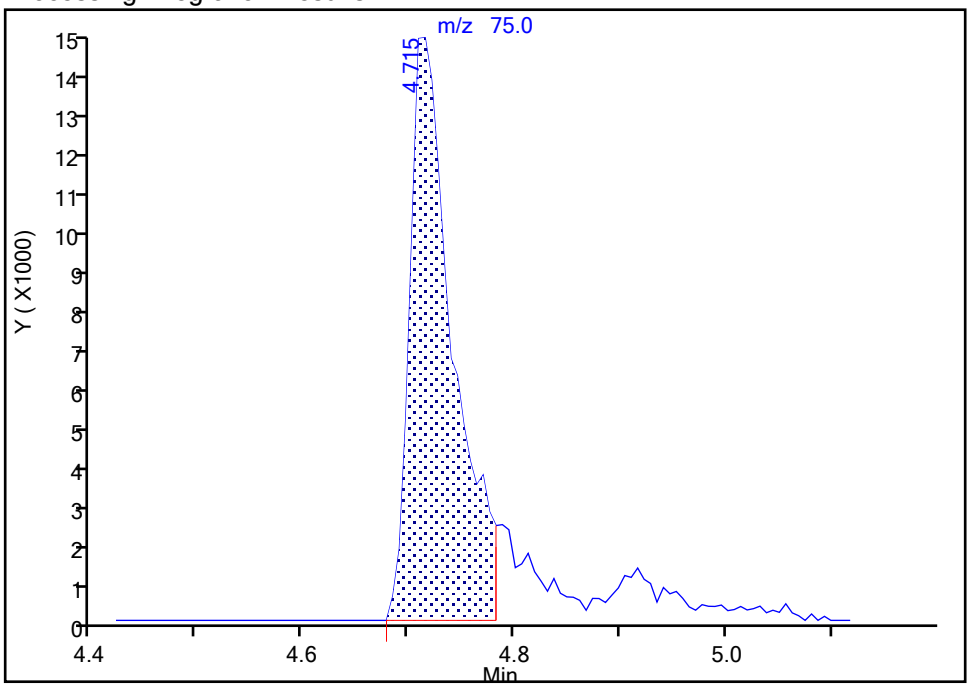
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

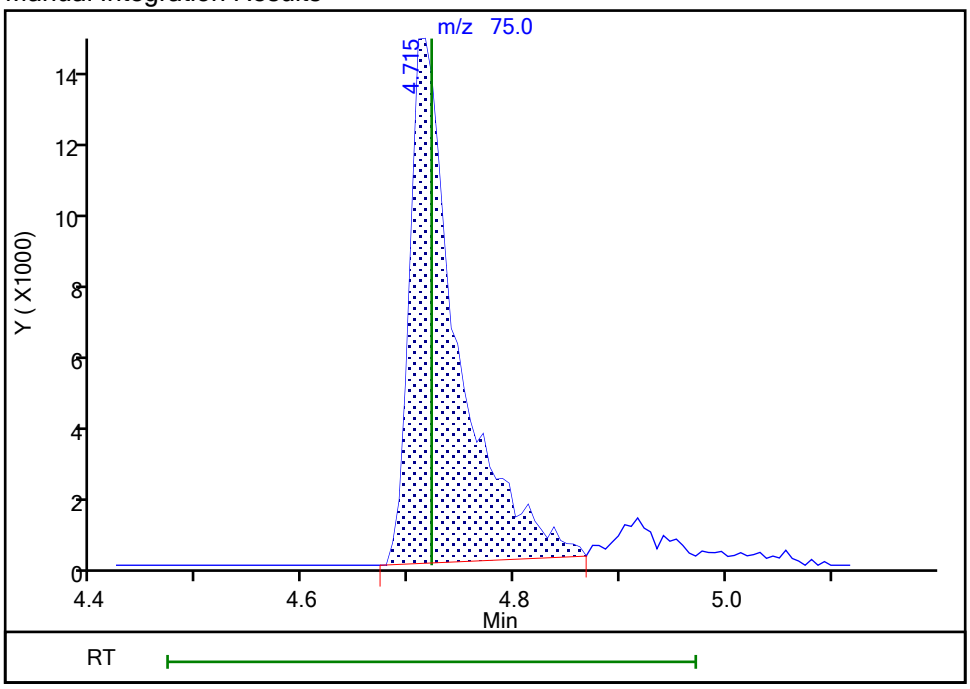
Processing Integration Results

RT: 4.72
Area: 41259
Amount: 16.226426
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 45416
Amount: 17.861300
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:48:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

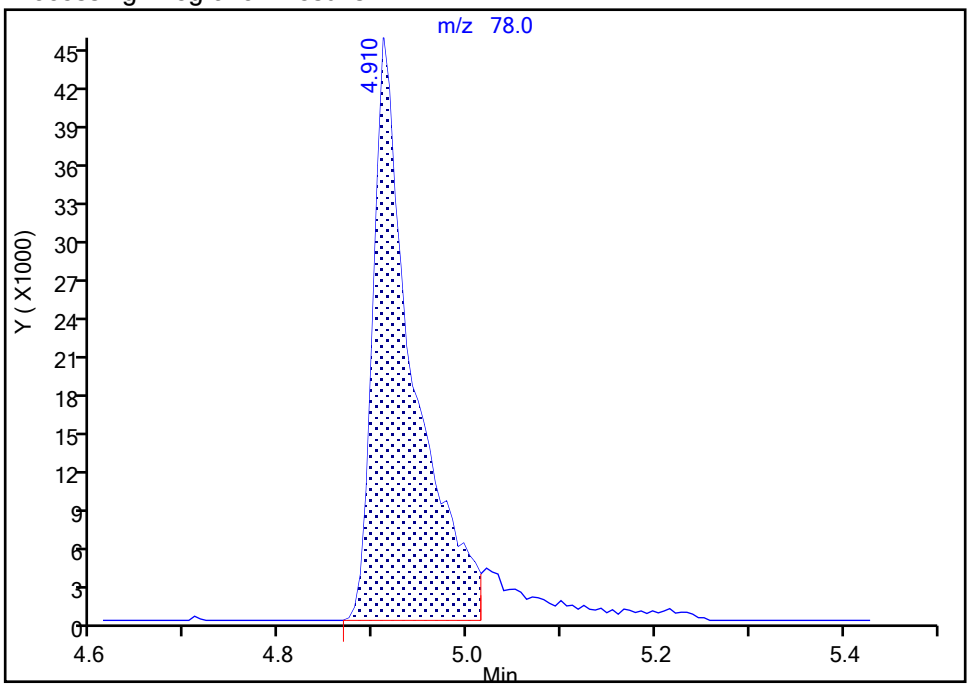
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

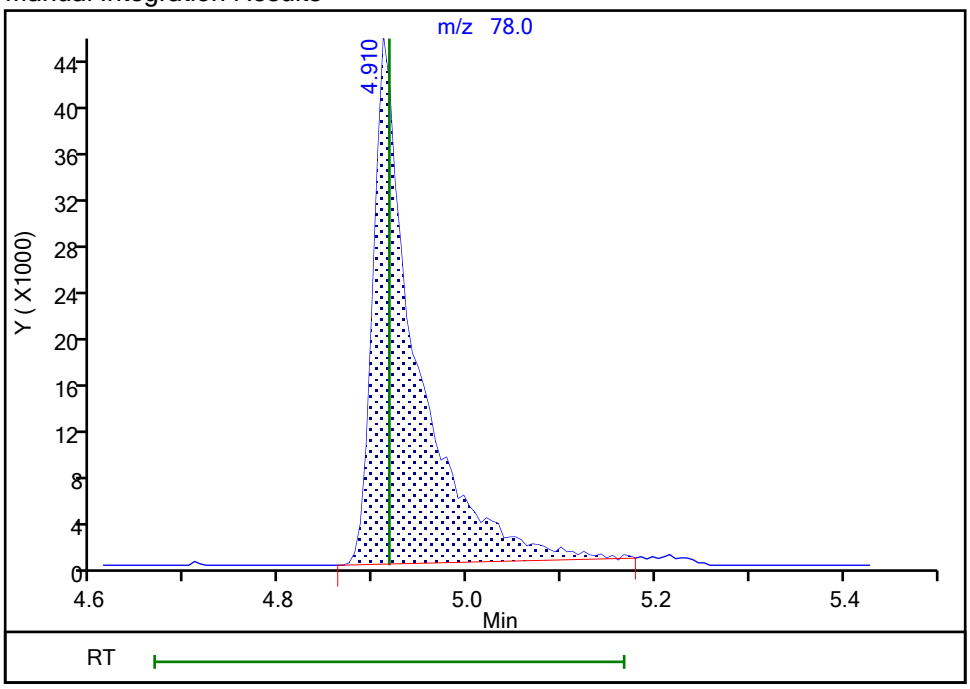
Processing Integration Results

RT: 4.91
Area: 134414
Amount: 17.746288
Amount Units: ug/l



Manual Integration Results

RT: 4.91
Area: 144113
Amount: 19.026818
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:48:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

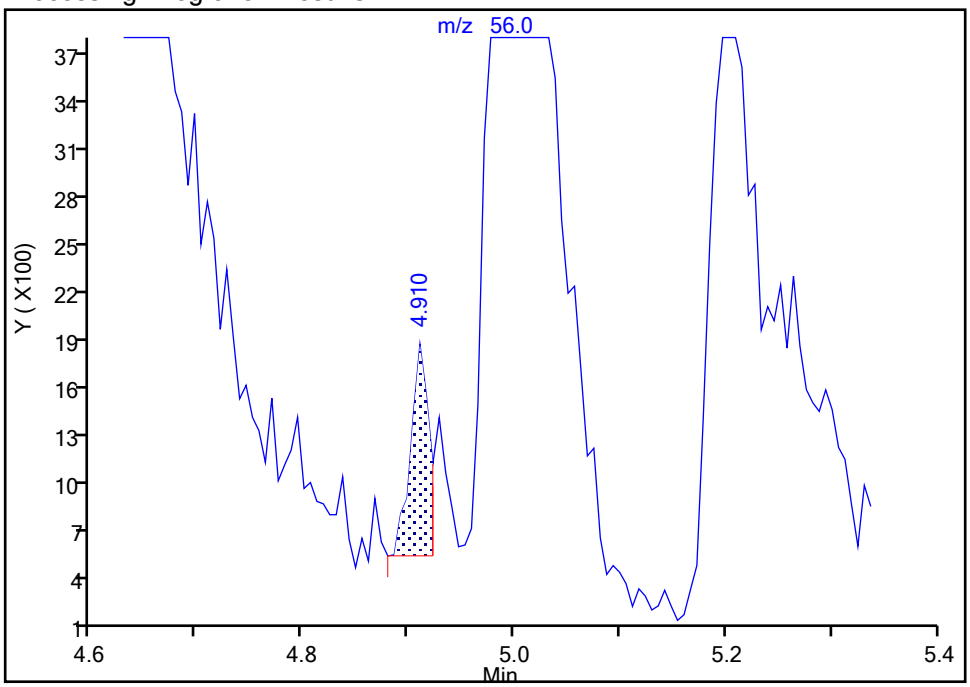
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

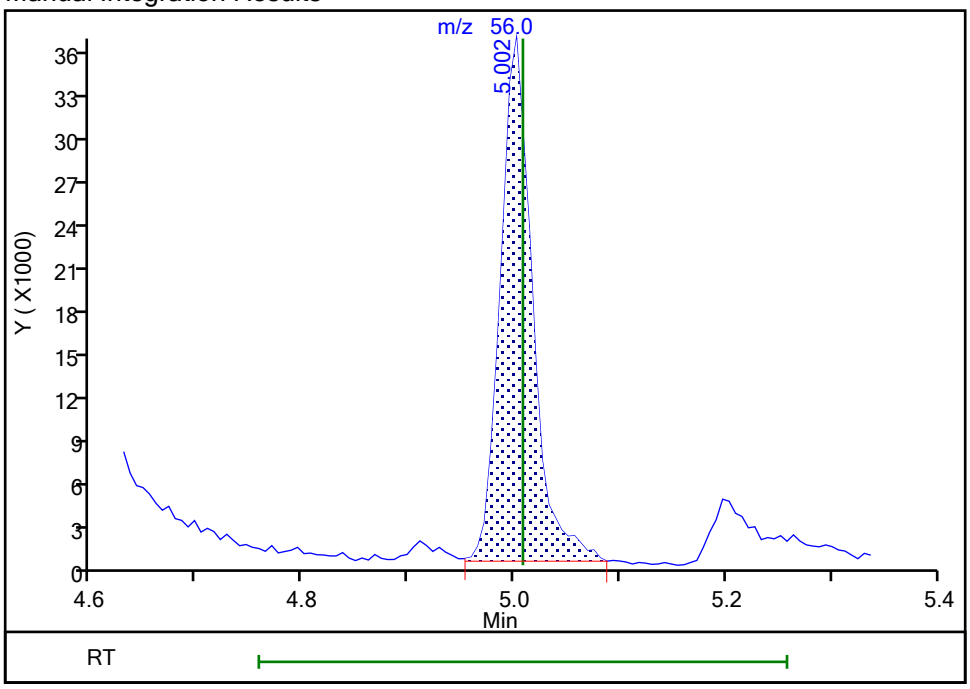
RT: 4.91
Area: 1591
Amount: 10.948542
Amount Units: ug/l

Processing Integration Results



RT: 5.00
Area: 76984
Amount: 529.7690
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 10-Nov-2020 06:49:02
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

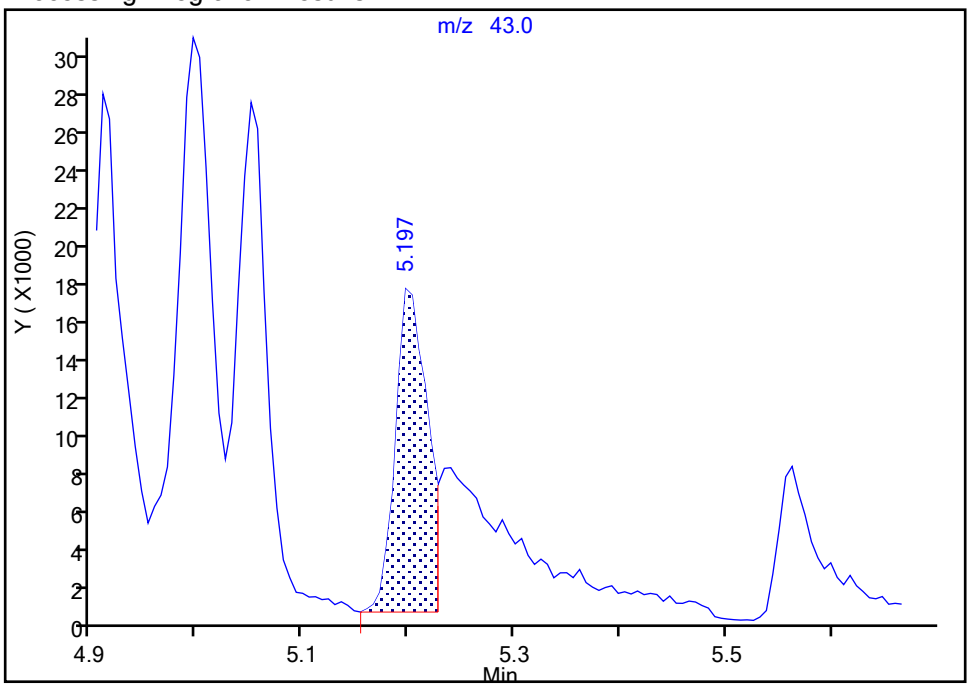
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

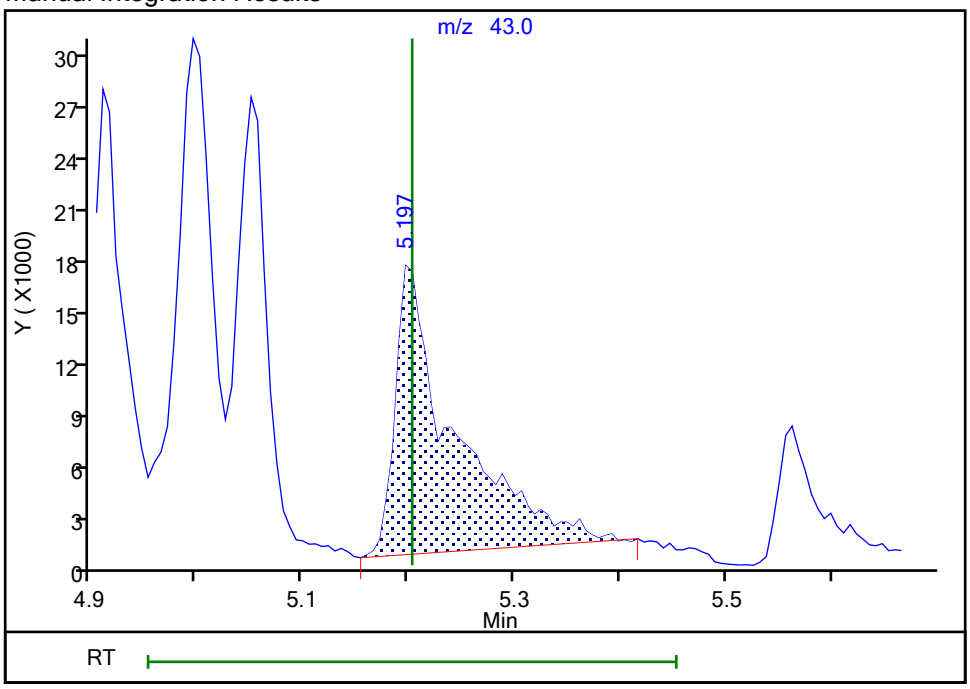
Processing Integration Results

RT: 5.20
Area: 35719
Amount: 12.801070
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 64093
Amount: 21.606659
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:49:12
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

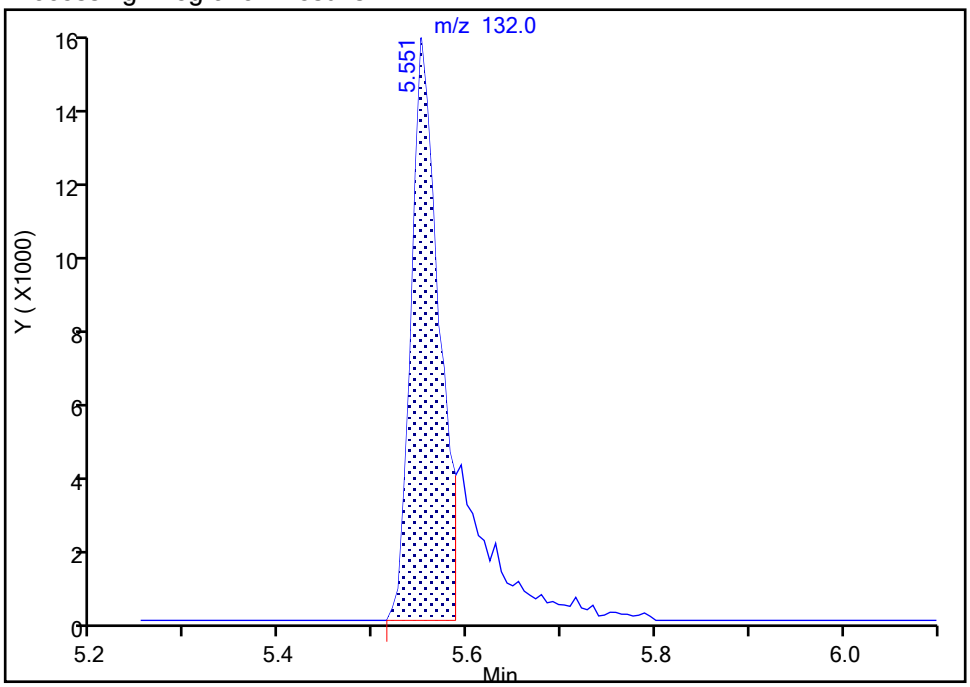
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

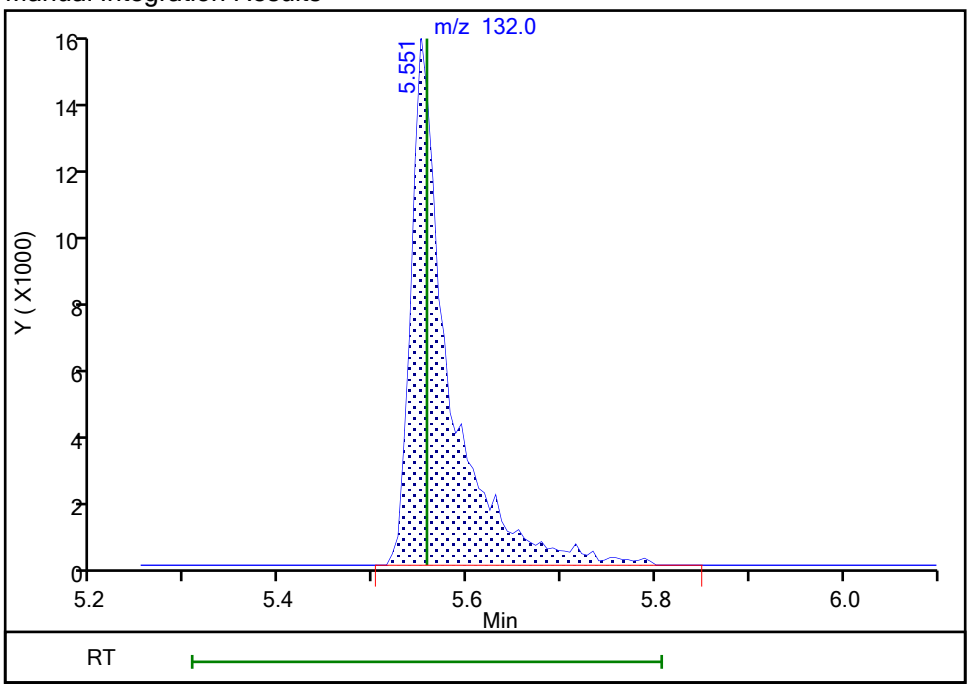
Processing Integration Results

RT: 5.55
Area: 31079
Amount: 13.738623
Amount Units: ug/l



Manual Integration Results

RT: 5.55
Area: 41949
Amount: 18.543759
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:49:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

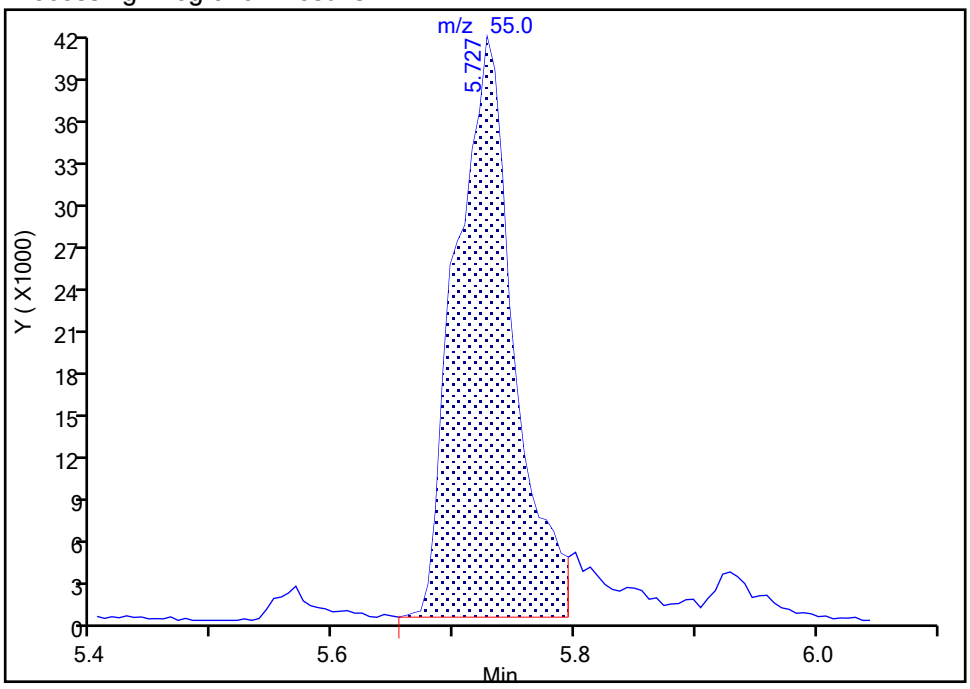
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

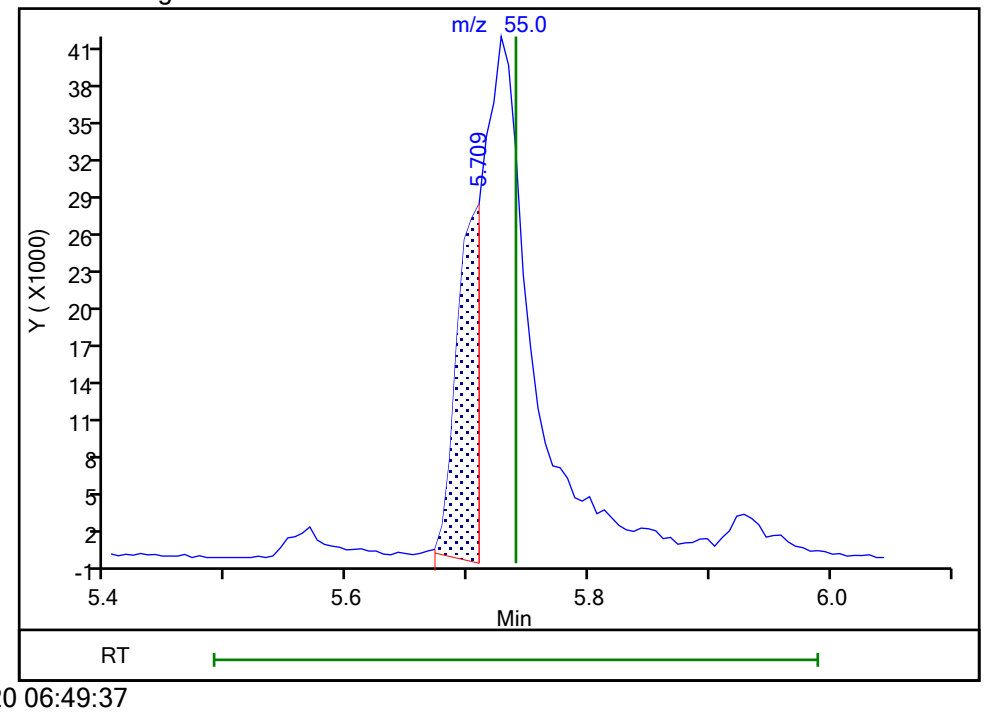
Processing Integration Results

RT: 5.73
Area: 137940
Amount: 46.293852
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 39974
Amount: 13.415619
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:49:37
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

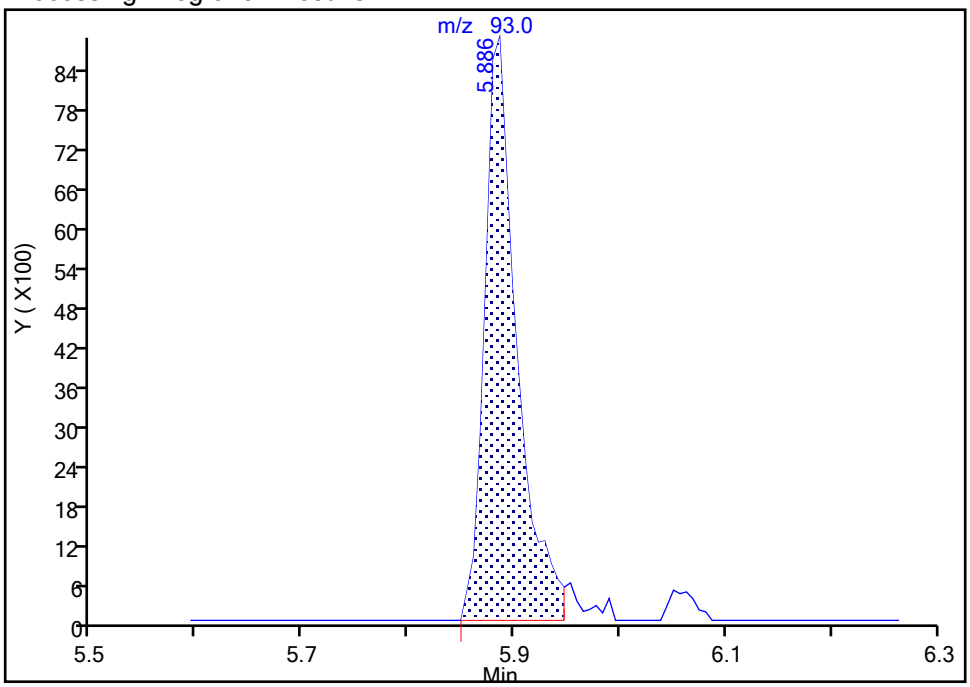
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

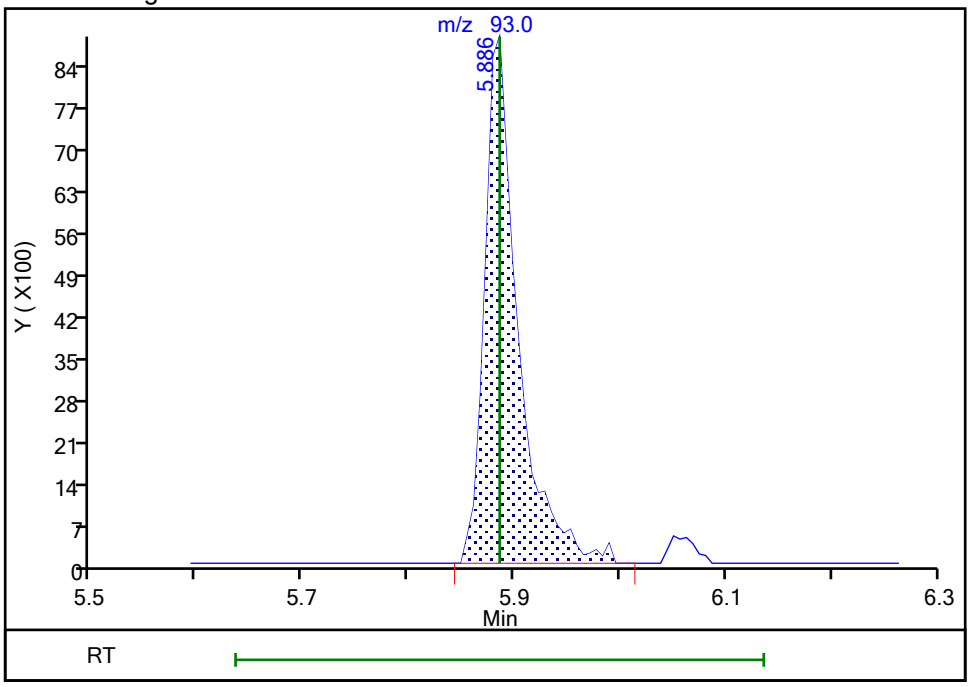
Processing Integration Results

RT: 5.89
Area: 18789
Amount: 19.889935
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 19462
Amount: 20.602369
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:49:51
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

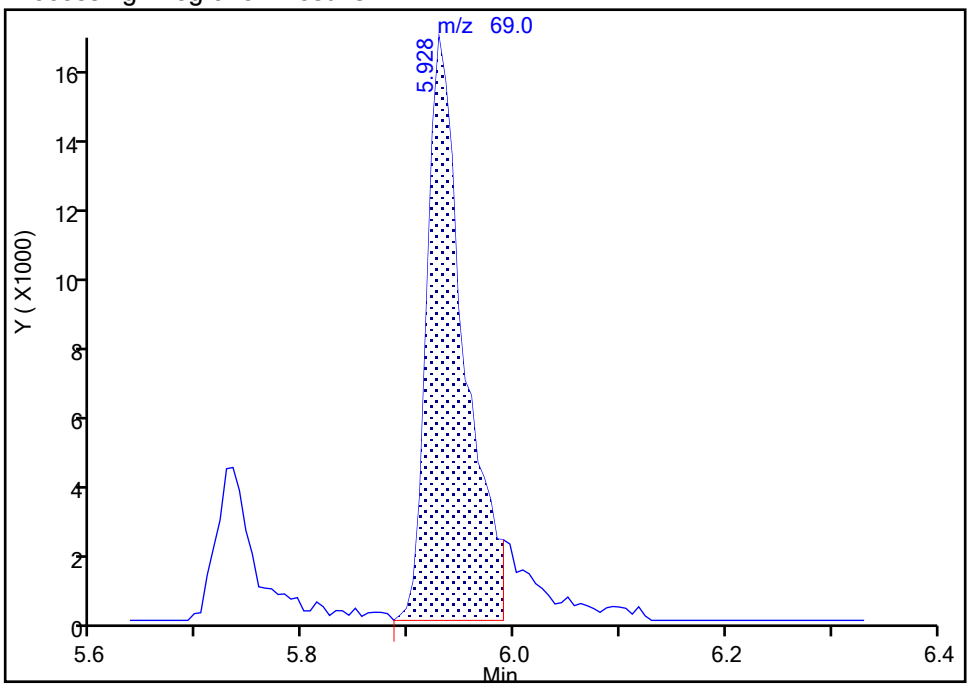
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

57 Methyl methacrylate, CAS: 80-62-6

Signal: 1

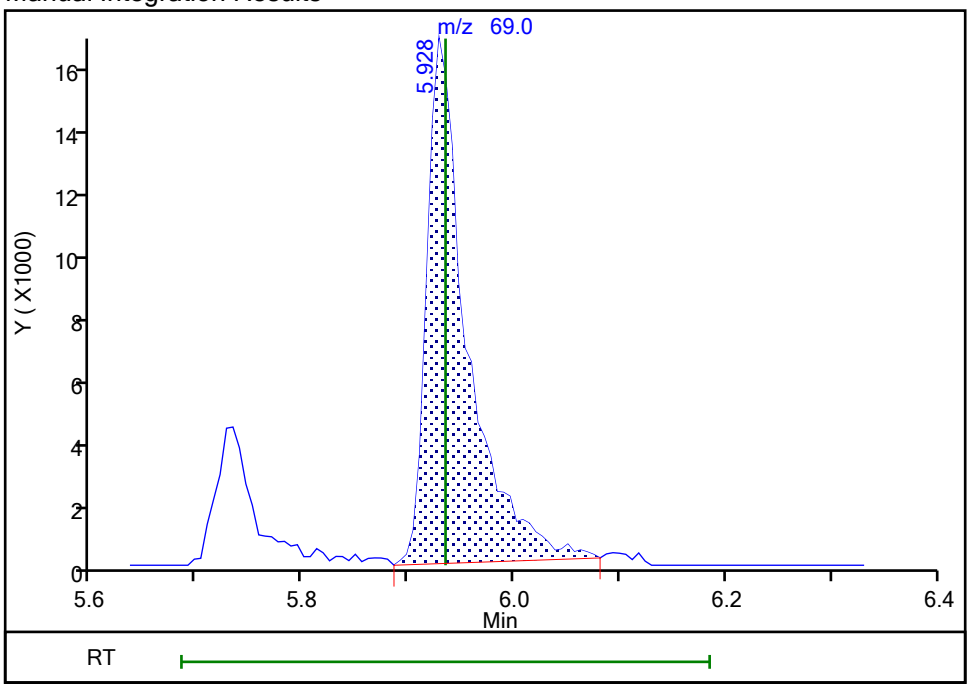
Processing Integration Results

RT: 5.93
Area: 39457
Amount: 29.658765
Amount Units: ug/l



Manual Integration Results

RT: 5.93
Area: 42529
Amount: 31.967905
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:49:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

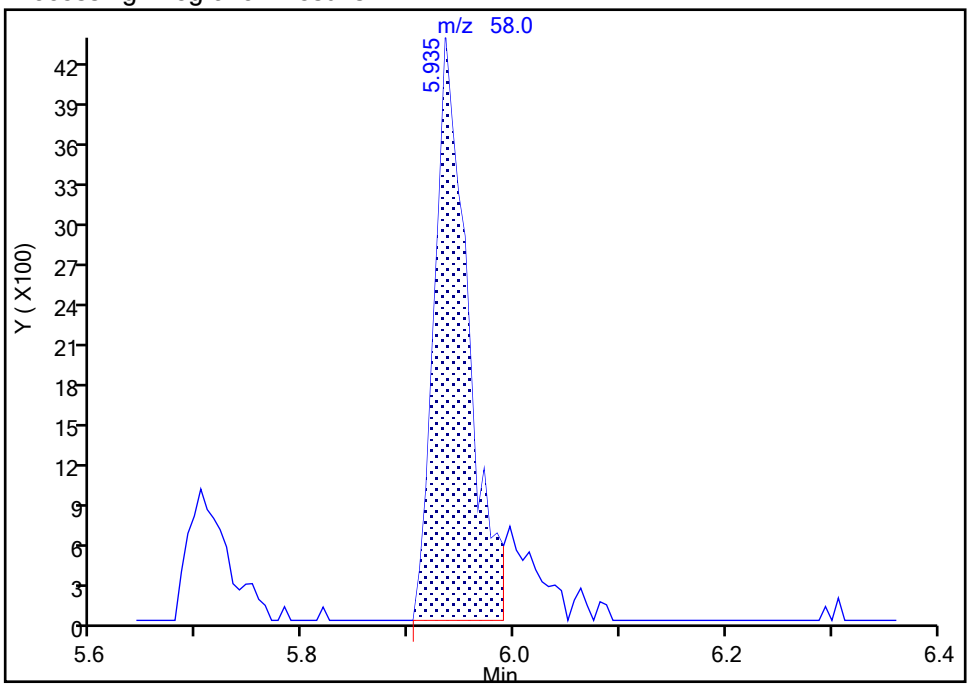
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

115 1,4-Dioxane, CAS: 123-91-1

Signal: 1

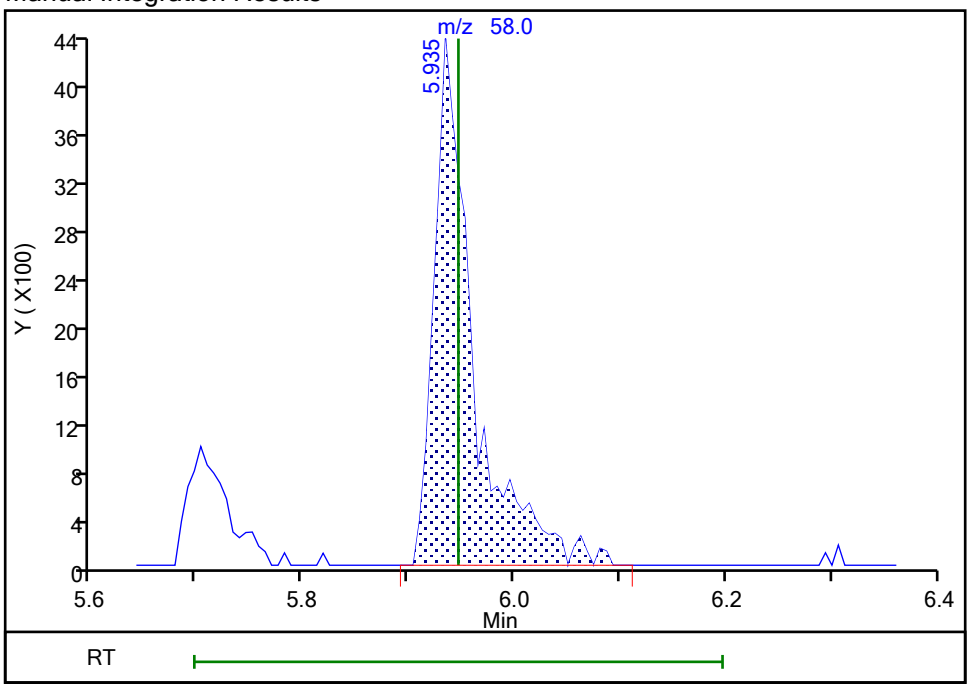
Processing Integration Results

RT: 5.93
Area: 9675
Amount: 319.5990
Amount Units: ug/l



Manual Integration Results

RT: 5.93
Area: 11275
Amount: 372.4526
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:50:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

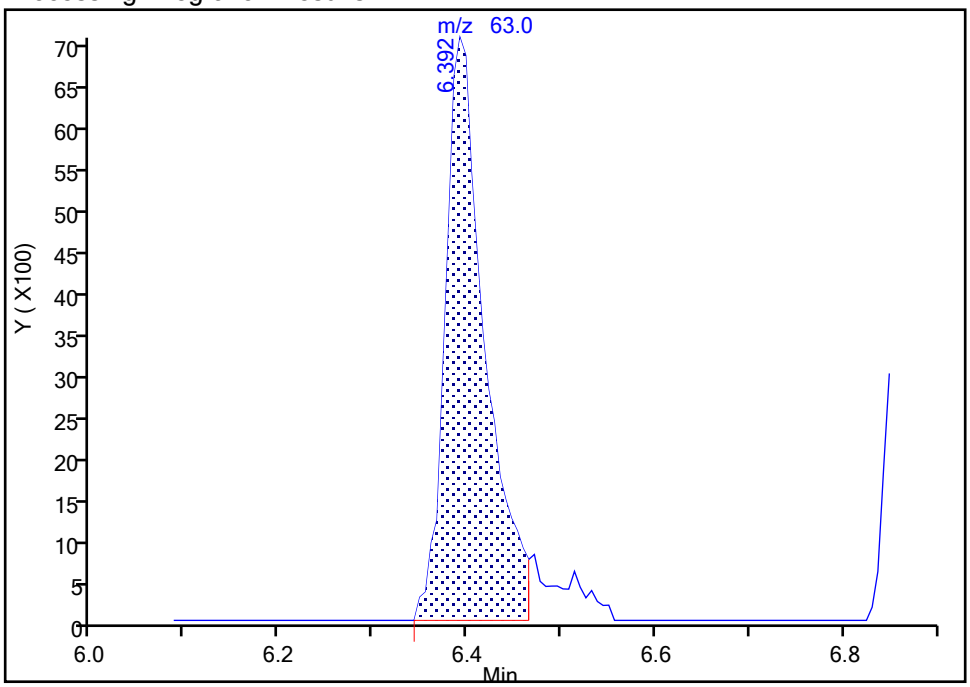
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

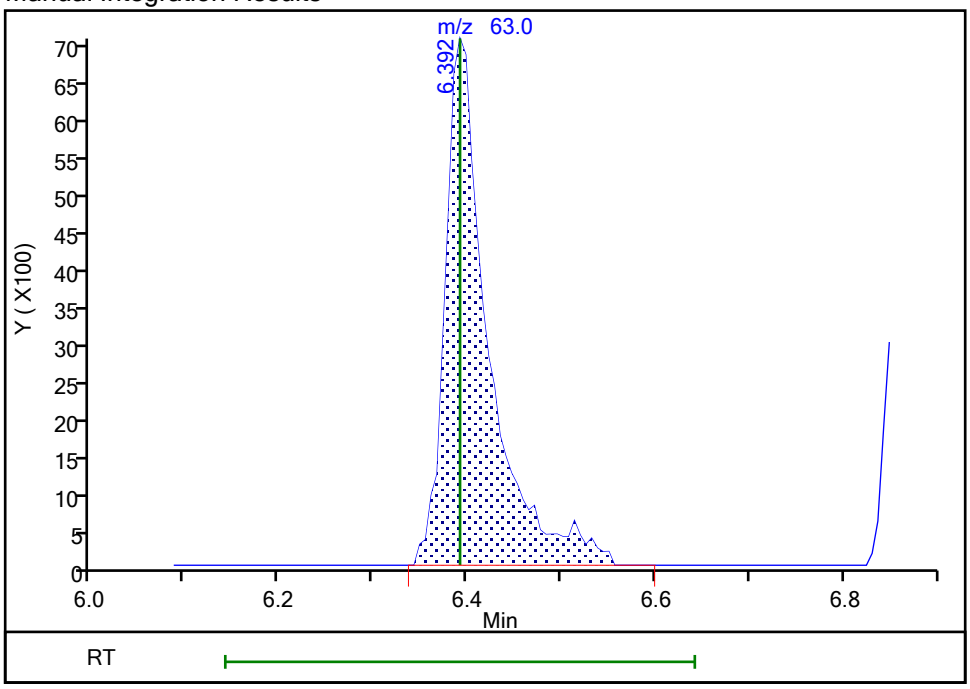
Processing Integration Results

RT: 6.39
Area: 20711
Amount: 14.589777
Amount Units: ug/l



Manual Integration Results

RT: 6.39
Area: 22724
Amount: 16.007826
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:50:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

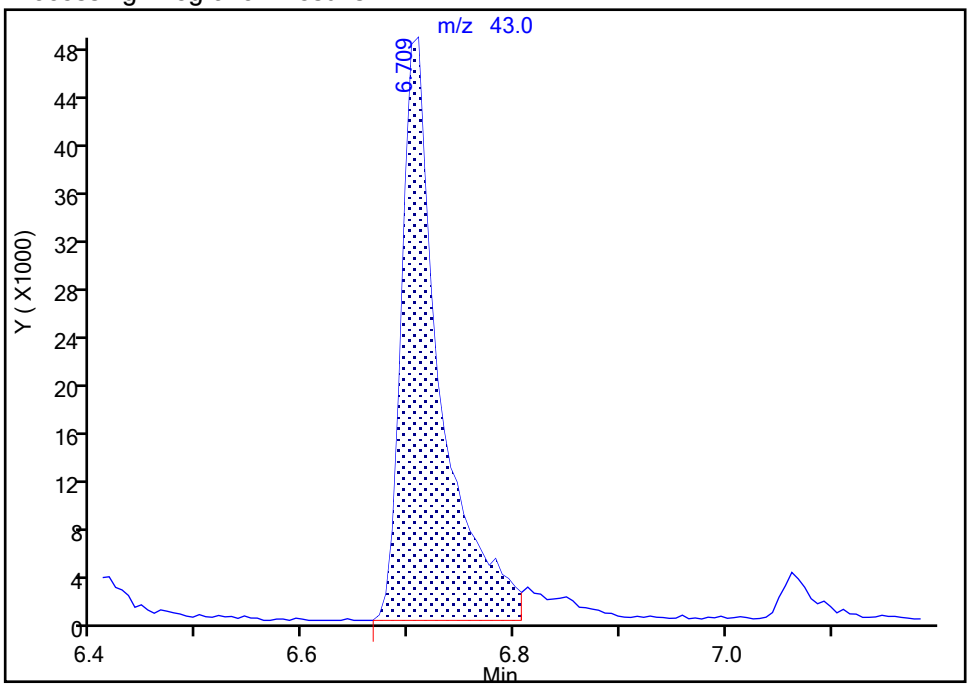
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

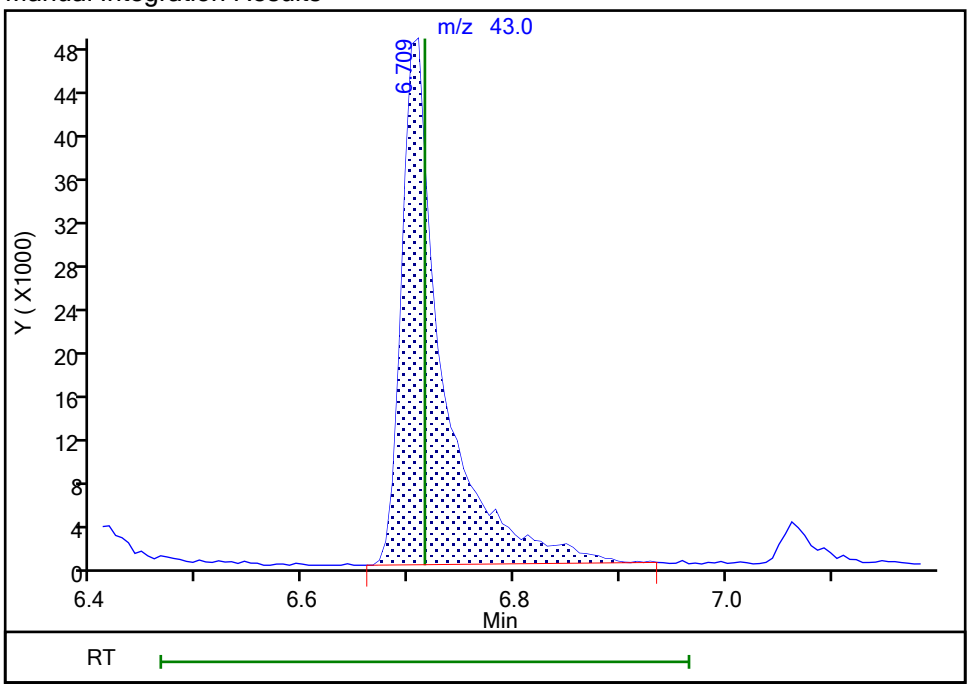
Processing Integration Results

RT: 6.71
Area: 123370
Amount: 31.952905
Amount Units: ug/l



Manual Integration Results

RT: 6.71
Area: 129733
Amount: 33.600926
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:50:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

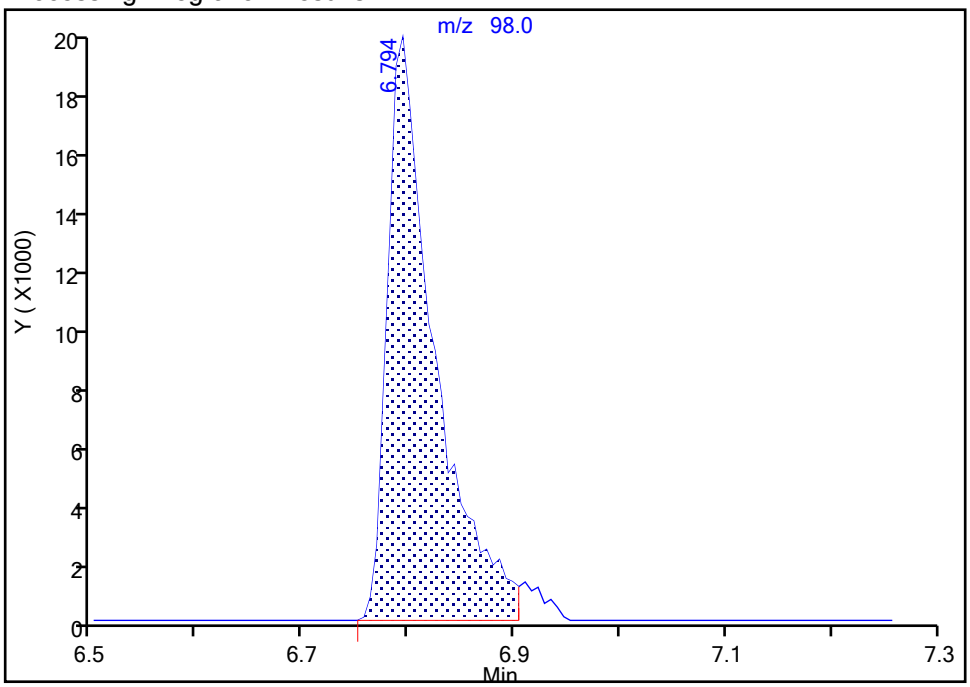
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

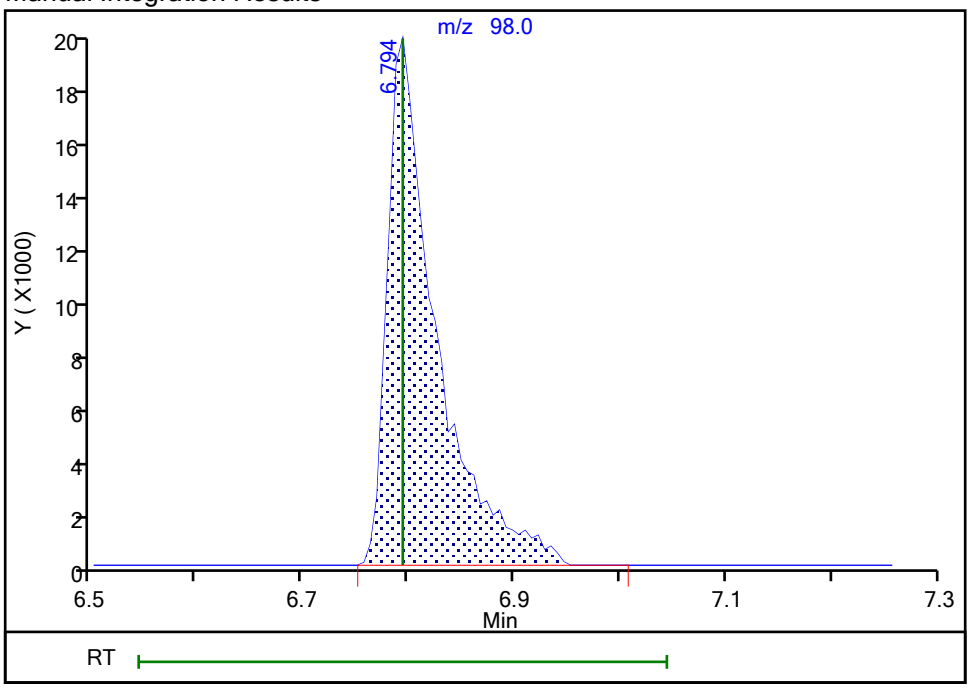
Processing Integration Results

RT: 6.79
Area: 61721
Amount: 50.418170
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 63661
Amount: 52.002902
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:46:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

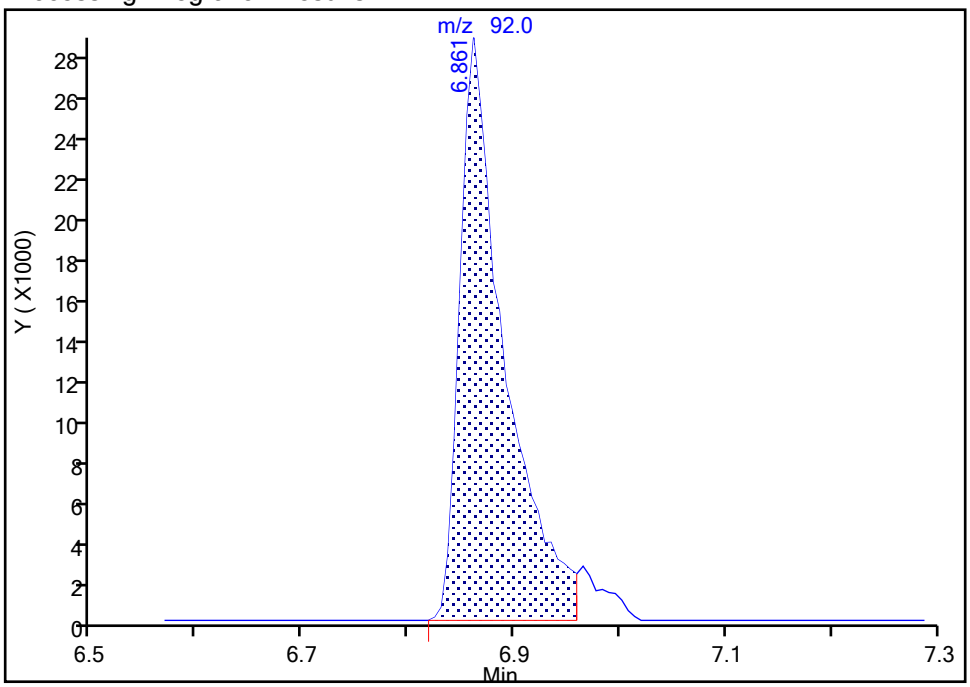
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 1

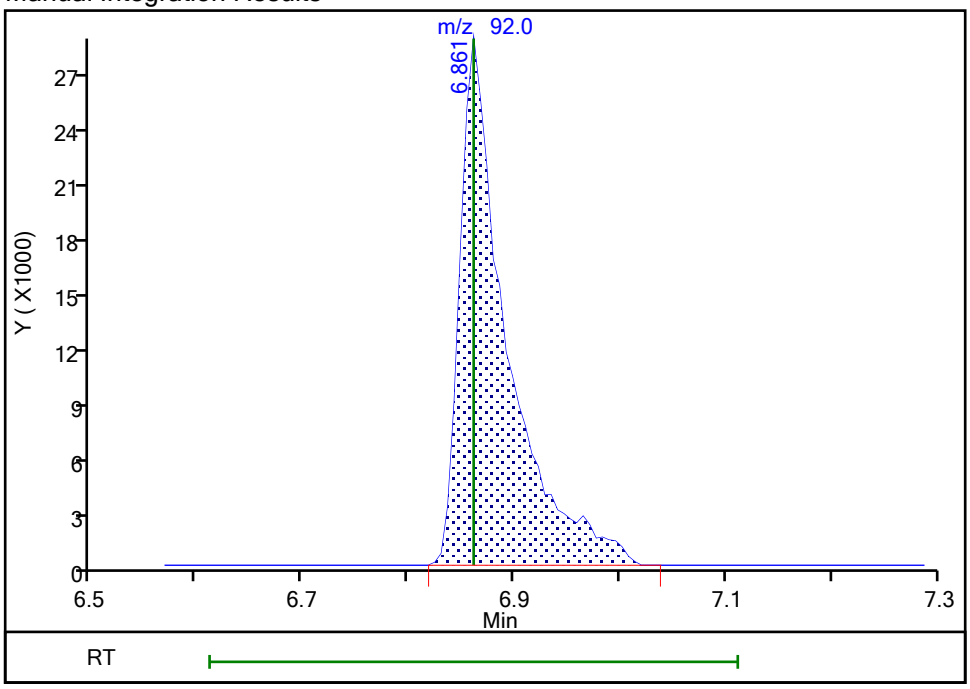
Processing Integration Results

RT: 6.86
Area: 84601
Amount: 17.577457
Amount Units: ug/l



Manual Integration Results

RT: 6.86
Area: 89078
Amount: 18.507638
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:50:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

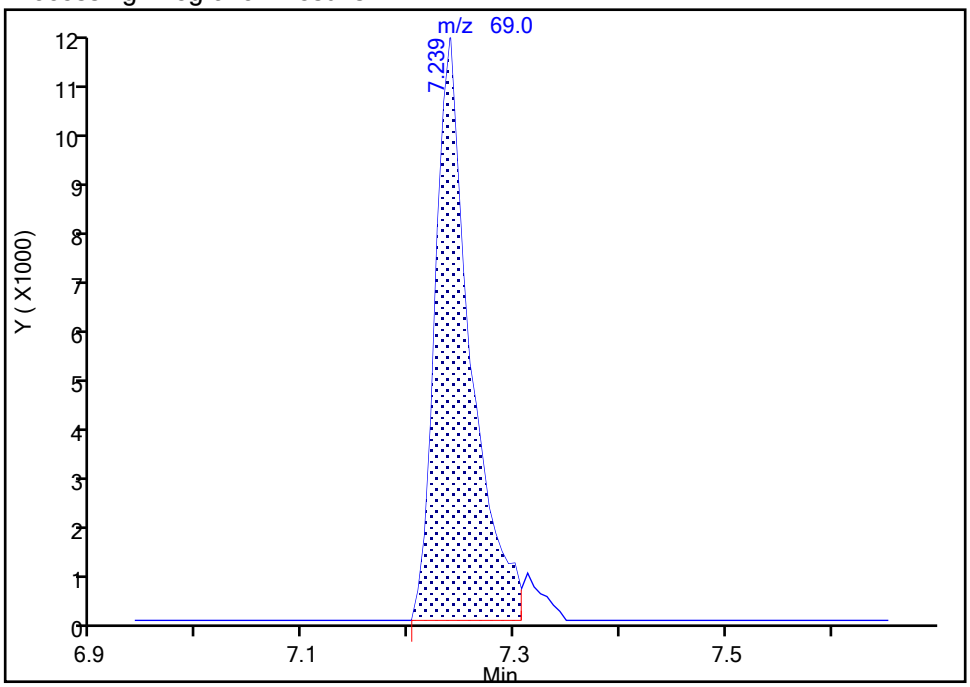
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3765.D
Injection Date: 10-Nov-2020 03:51:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

64 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

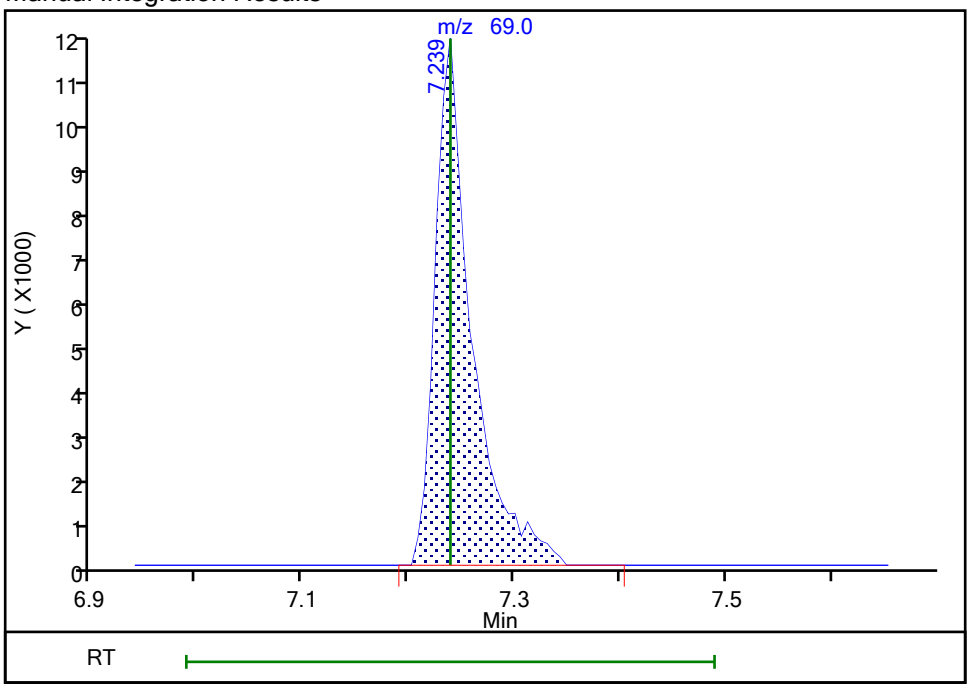
Processing Integration Results

RT: 7.24
Area: 27485
Amount: 13.568196
Amount Units: ug/l



Manual Integration Results

RT: 7.24
Area: 28650
Amount: 14.096348
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:50:28
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/43 Calibration Date: 11/10/2020 04:13

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3766.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl acetate	Lin1		0.1959		66.4	100	-33.6*	30.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2162		51.9	50.0	3.8	30.0
Toluene-d8 (Surr)	Ave	1.124	1.100		49.0	50.0	-2.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6660		51.8	50.0	3.5	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 10-Nov-2020 04:13:30 ALS Bottle#: 4 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 06:55:12 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 06:53:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.972	0.006	0	52531	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	98	74921	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	87	5346	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.337	0.001	90	62252	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.031	0.006	95	35055	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	90	16201	50.0	51.9	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	68503	50.0	49.0	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	23346	50.0	51.8	
33 Vinyl acetate	86	3.612	3.606	0.006	96	29347	100.0	66.4	Ma

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

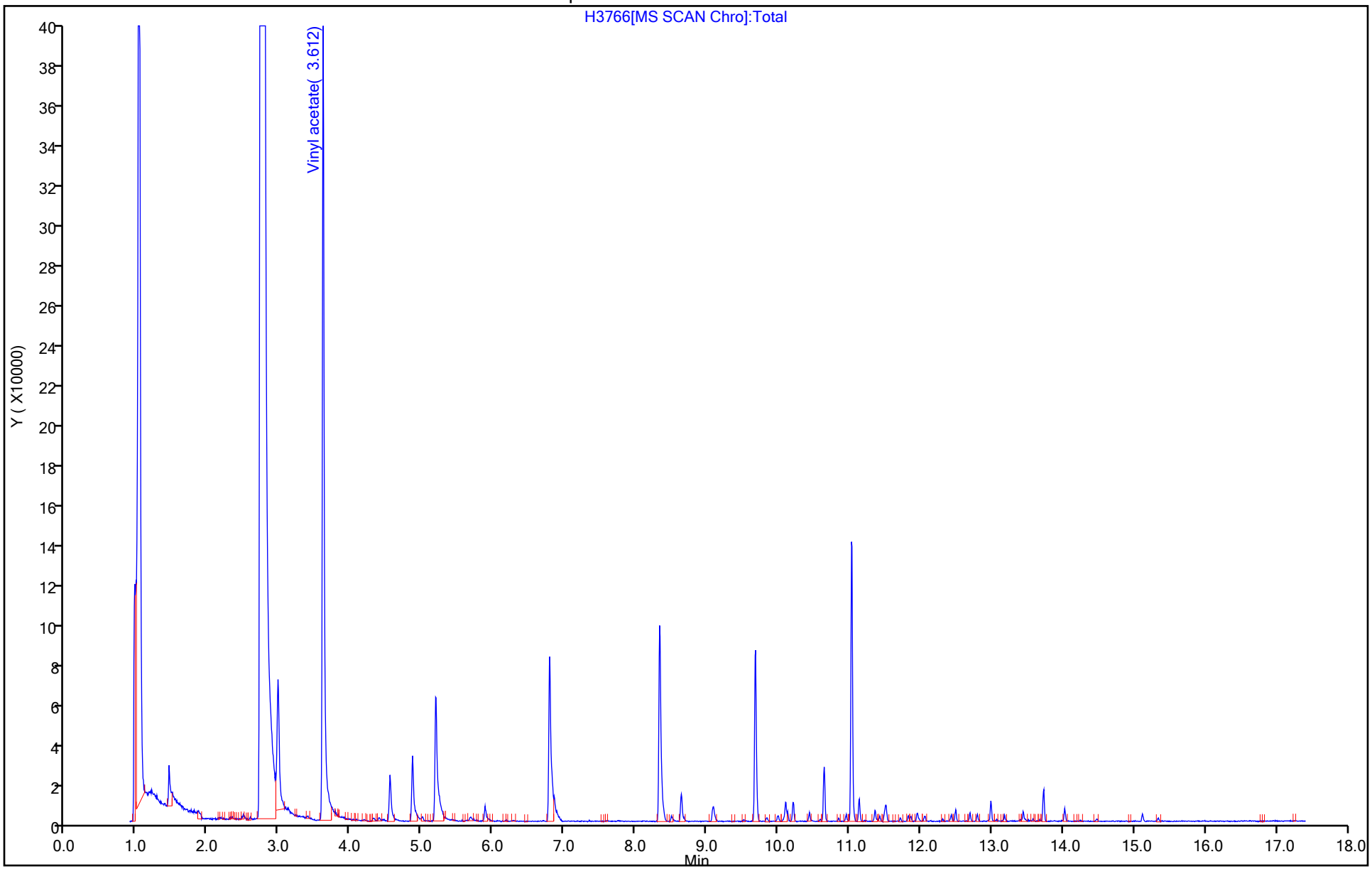
VV_I_VA ICV U_00013 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 07:04:24 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D

Injection Date:	10-Nov-2020 04:13:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	icv			Worklist Smp#:	43
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

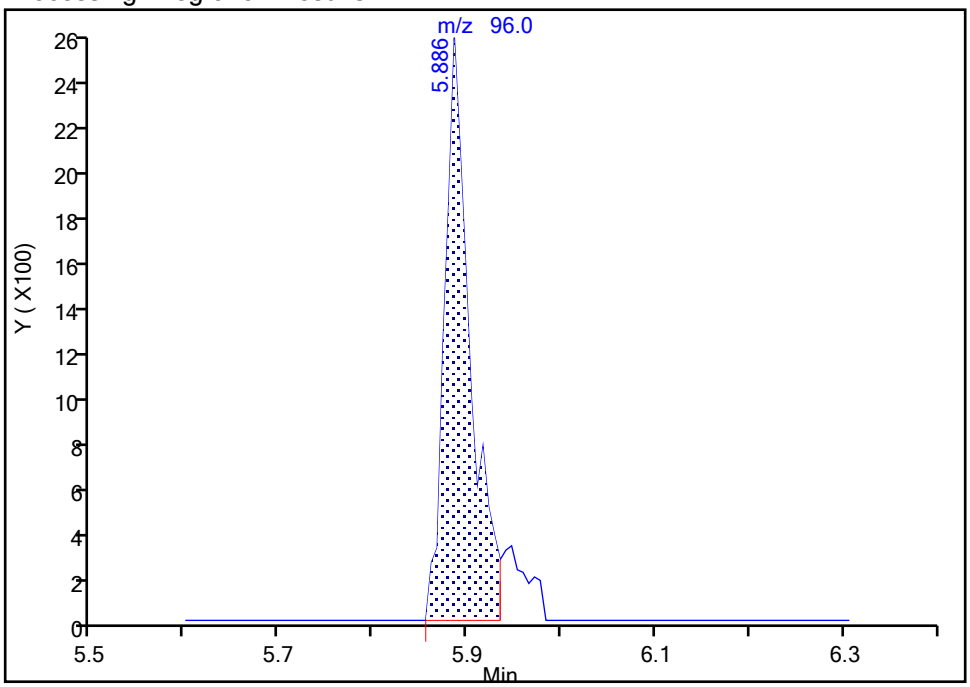
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D
Injection Date: 10-Nov-2020 04:13:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

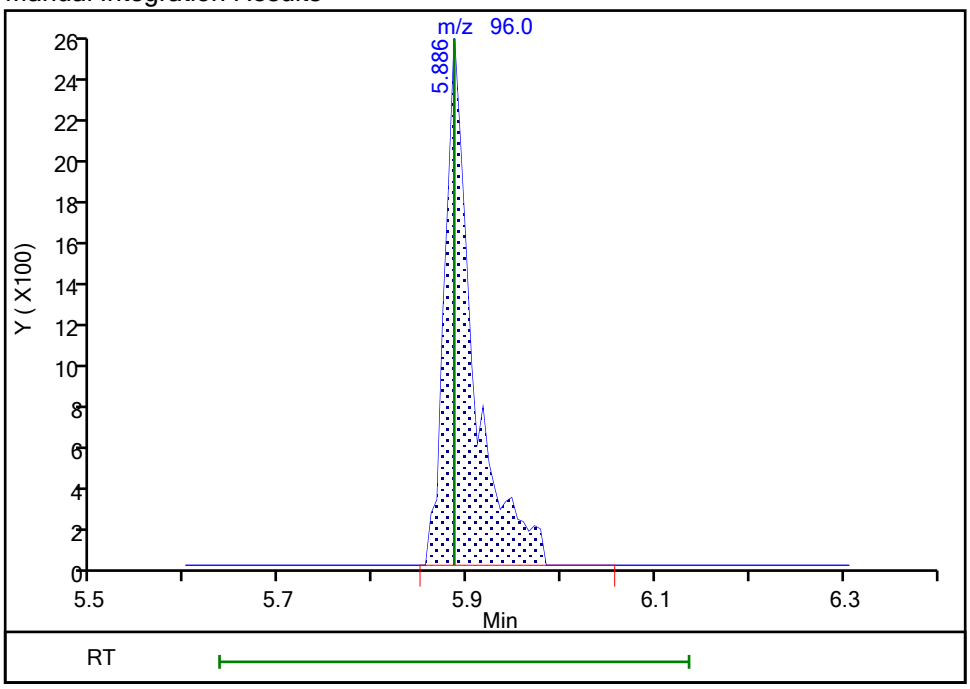
Processing Integration Results

RT: 5.89
Area: 4771
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5346
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:52:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

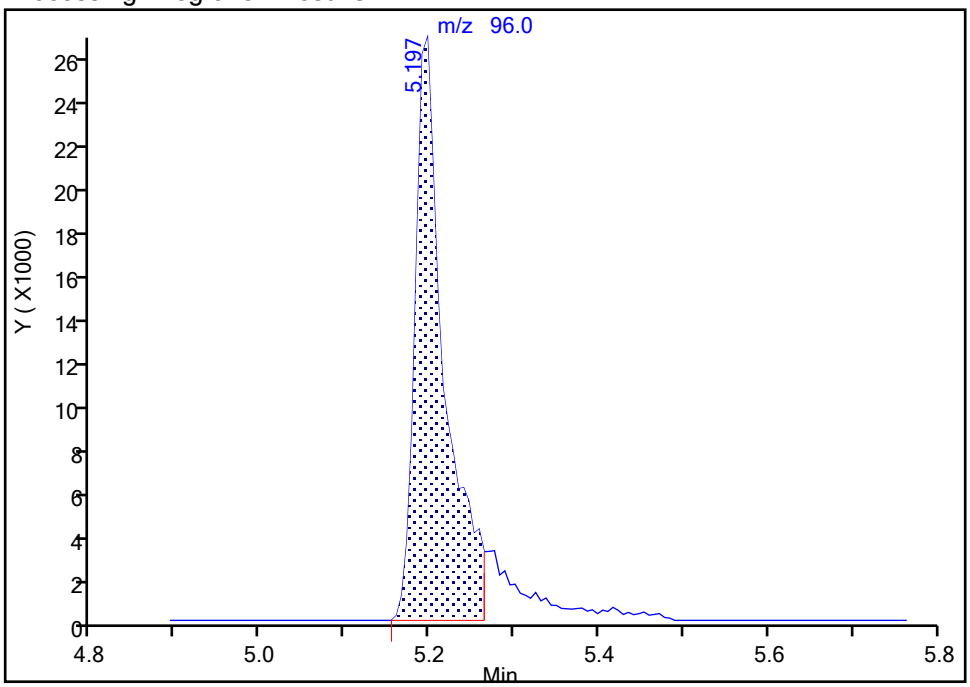
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D
Injection Date: 10-Nov-2020 04:13:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

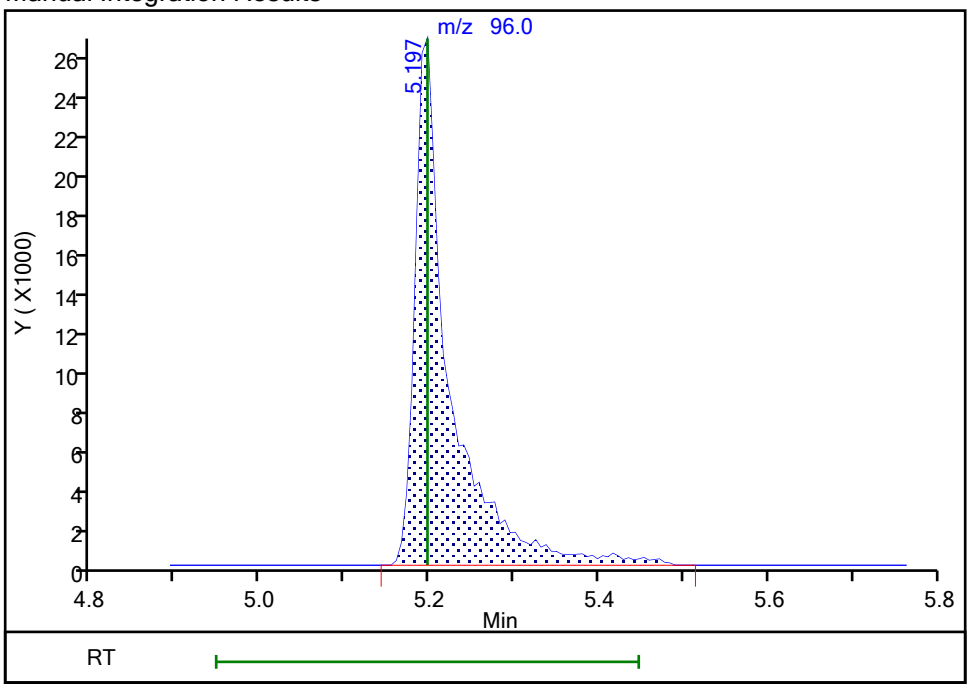
Processing Integration Results

RT: 5.20
Area: 63911
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 74921
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:53:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

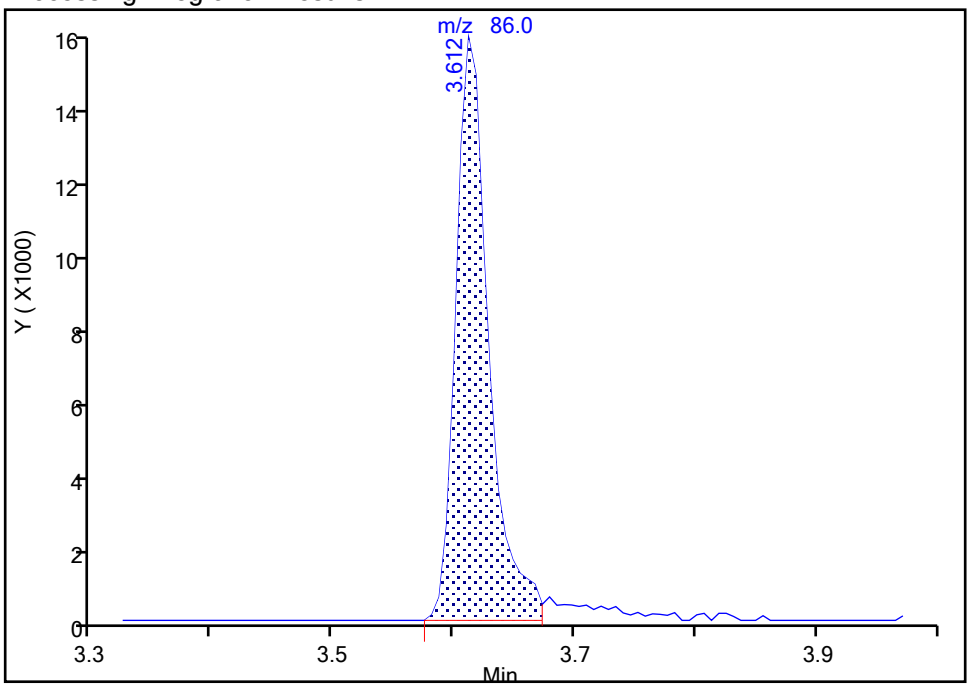
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D
Injection Date: 10-Nov-2020 04:13:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

33 Vinyl acetate, CAS: 108-05-4

Signal: 1

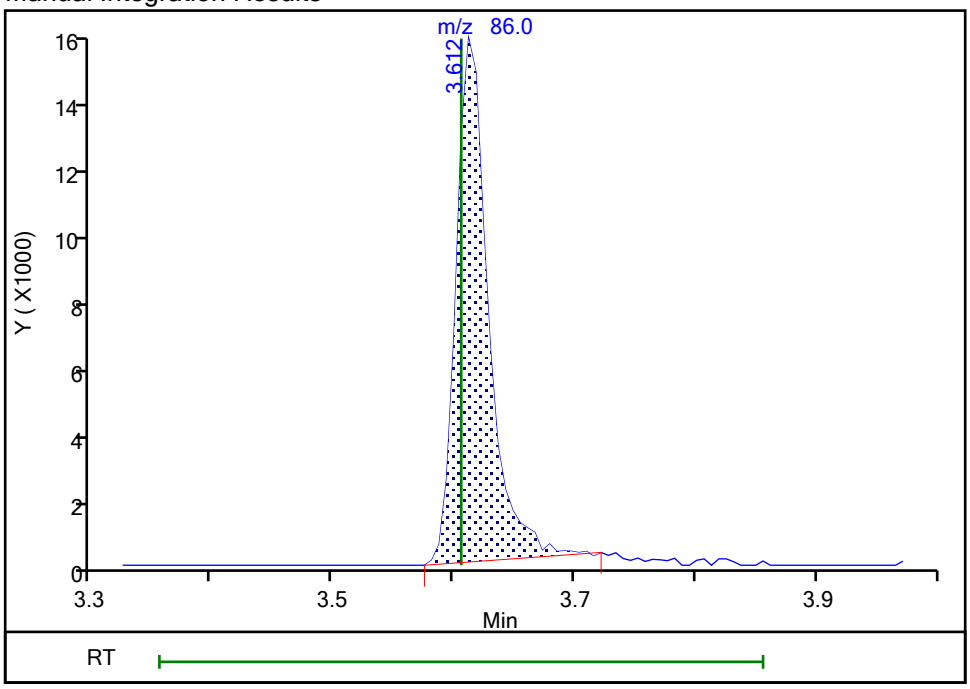
Processing Integration Results

RT: 3.61
Area: 29872
Amount: 67.465703
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 29347
Amount: 66.414963
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:53:14
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

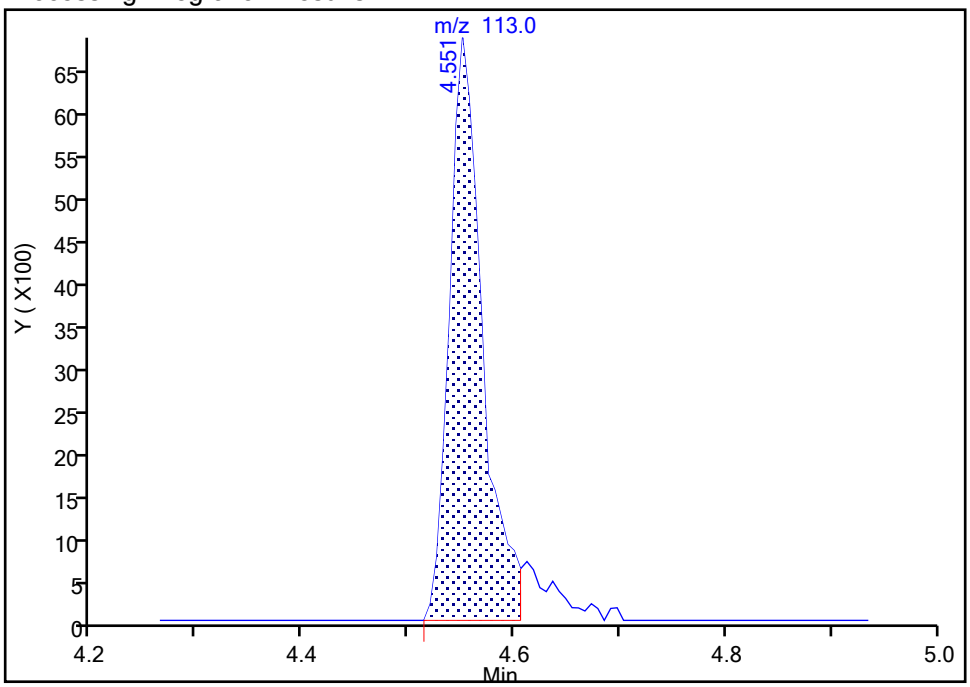
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D
Injection Date: 10-Nov-2020 04:13:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

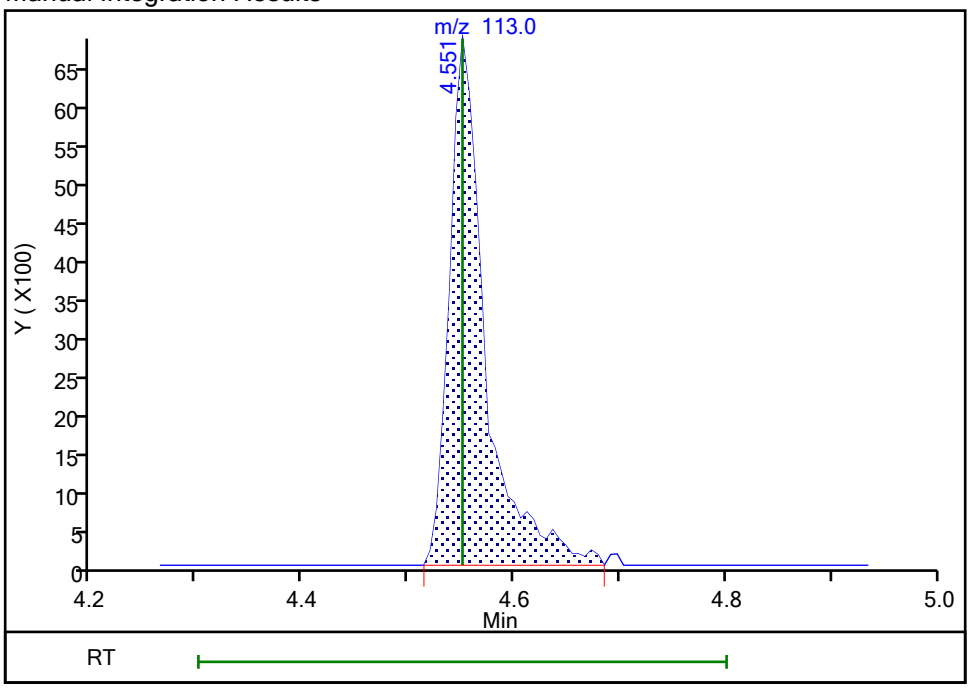
Processing Integration Results

RT: 4.55
Area: 14811
Amount: 55.614080
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 16201
Amount: 51.893653
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:52:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

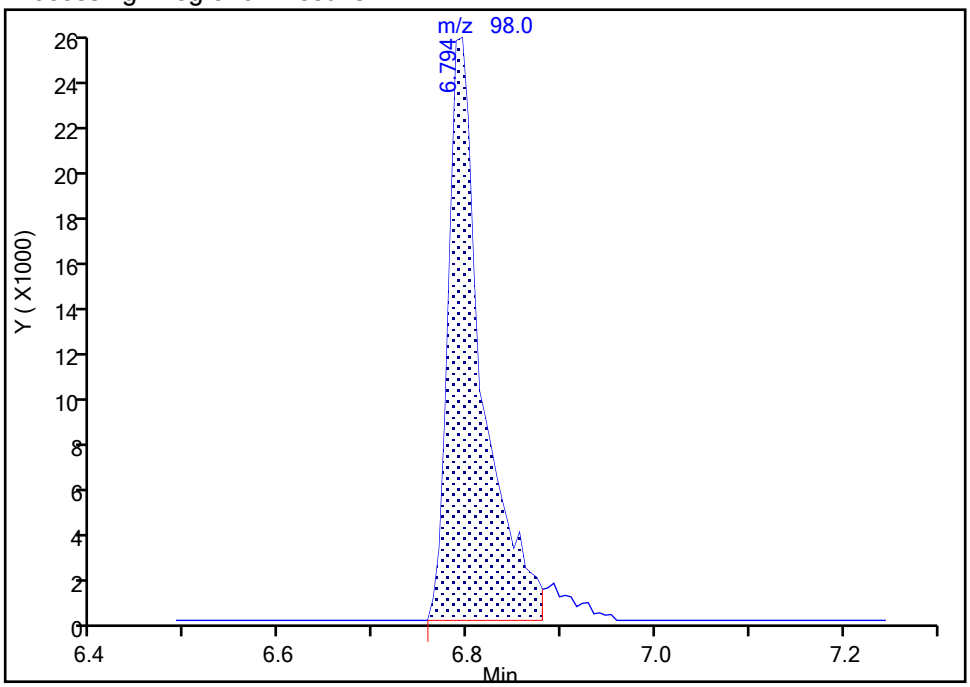
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3766.D
Injection Date: 10-Nov-2020 04:13:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

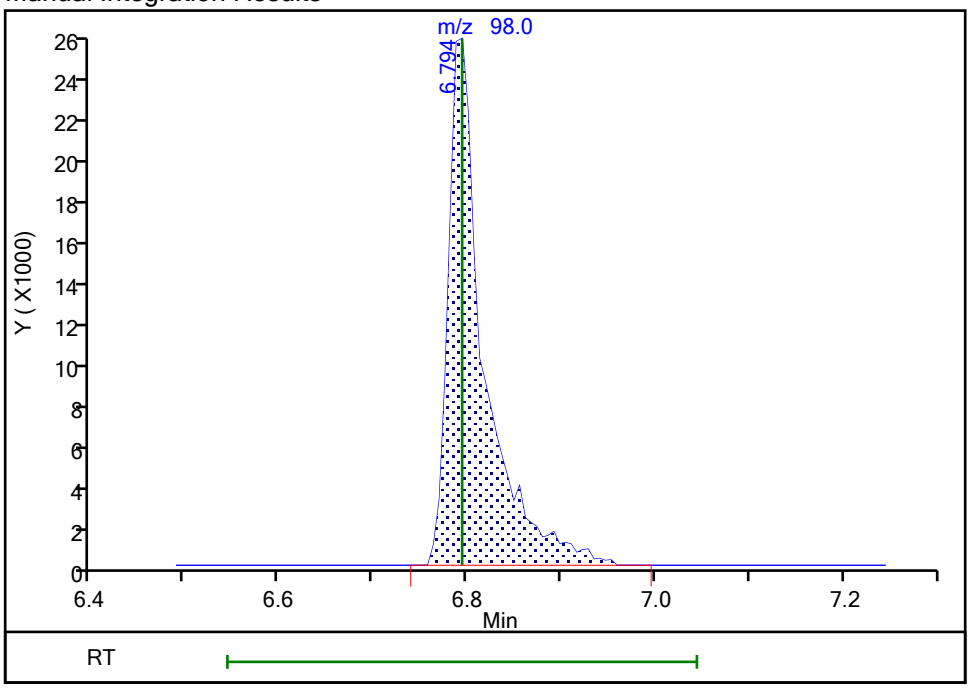
Processing Integration Results

RT: 6.79
Area: 65008
Amount: 46.466605
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 68503
Amount: 48.964771
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:52:27
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: ICV 310-298538/44 Calibration Date: 11/10/2020 04:35

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H3767.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.704	2.121	0.1000	62.2	50.0	24.5	30.0
Chloromethane	Ave	4.537	4.982	0.1000	54.9	50.0	9.8	30.0
Vinyl chloride	Ave	2.546	2.848	0.1000	55.9	50.0	11.9	30.0
1,3-Butadiene	Ave	2.895	2.984		51.5	50.0	3.1	30.0
Bromomethane	Ave	0.8139	1.012	0.1000	62.2	50.0	24.3	30.0
Chloroethane	Ave	1.185	1.240	0.1000	52.3	50.0	4.6	30.0
Dichlorofluoromethane	Ave	2.180	2.450		56.2	50.0	12.4	30.0
Trichlorofluoromethane	Ave	1.907	2.103	0.1000	55.2	50.0	10.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2169		52.1	50.0	4.1	30.0
Toluene-d8 (Surr)	Ave	1.124	1.090		48.5	50.0	-3.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6305		49.0	50.0	-2.0	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 10-Nov-2020 04:35:30 ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 06:55:12 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 06:55:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.972	0.006	0	50238	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	72820	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	89	5257	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.337	0.001	91	62787	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	36280	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	93	15796	50.0	52.1	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	68436	50.0	48.5	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	22874	50.0	49.0	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	97	154480	50.0	62.2	
10 Chloromethane	50	1.265	1.265	0.000	99	362823	50.0	54.9	
11 Vinyl chloride	62	1.350	1.350	0.000	97	207393	50.0	55.9	
12 Butadiene	54	1.387	1.387	0.000	95	217262	50.0	51.5	
13 Bromomethane	94	1.618	1.612	0.006	91	73680	50.0	62.2	
14 Chloroethane	64	1.710	1.698	0.012	93	90268	50.0	52.3	
15 Dichlorofluoromethane	67	1.899	1.893	0.006	97	178413	50.0	56.2	M
16 Trichlorofluoromethane	101	1.935	1.929	0.006	98	153154	50.0	55.2	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

VV_I_ICVGAS_00278 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Nov-2020 07:04:26 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D

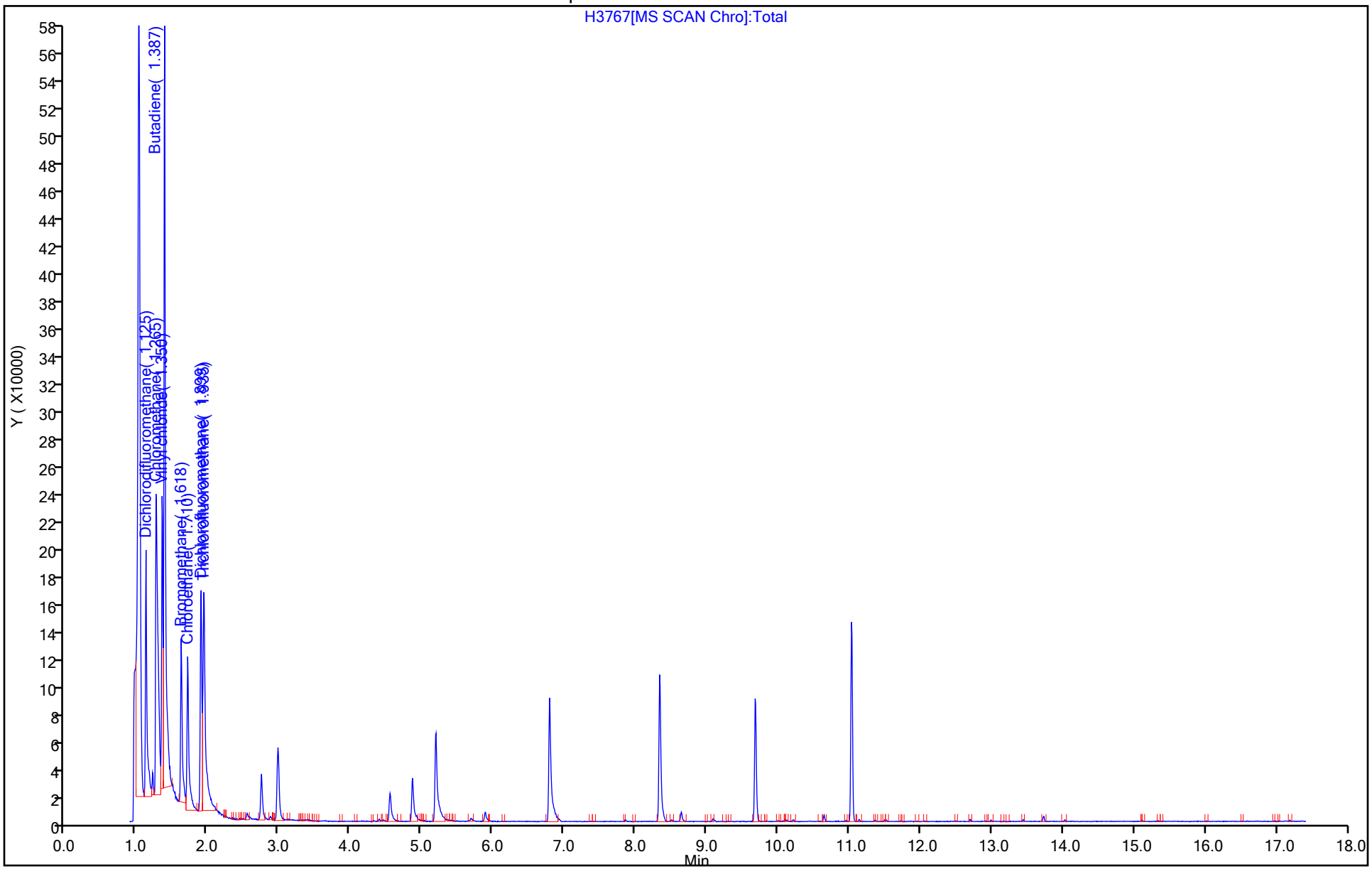
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes Operator ID:

Lims ID: icv Worklist Smp#: 44

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

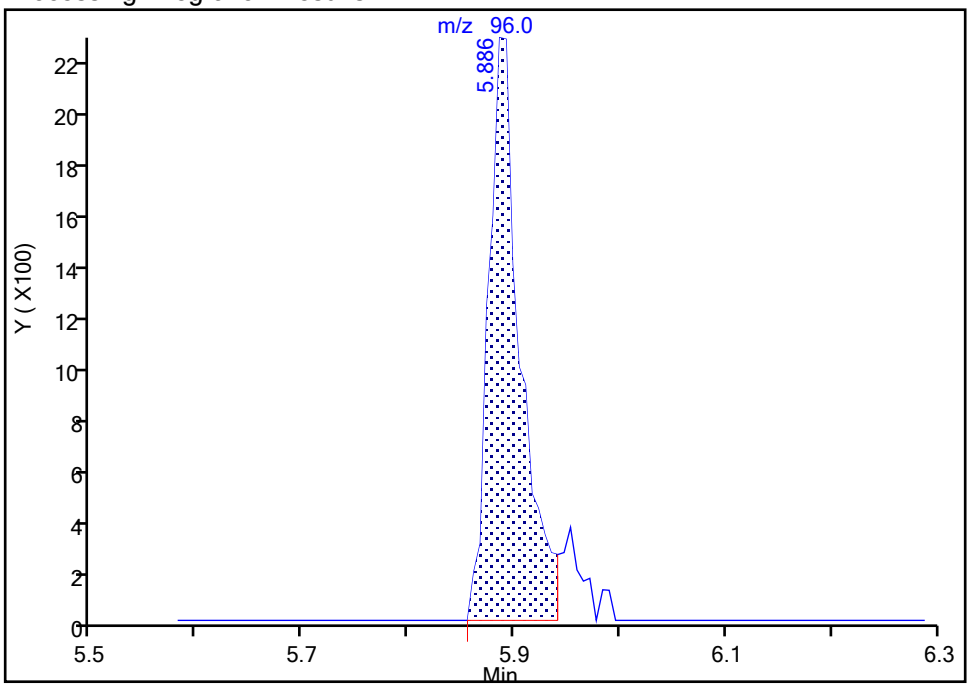
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

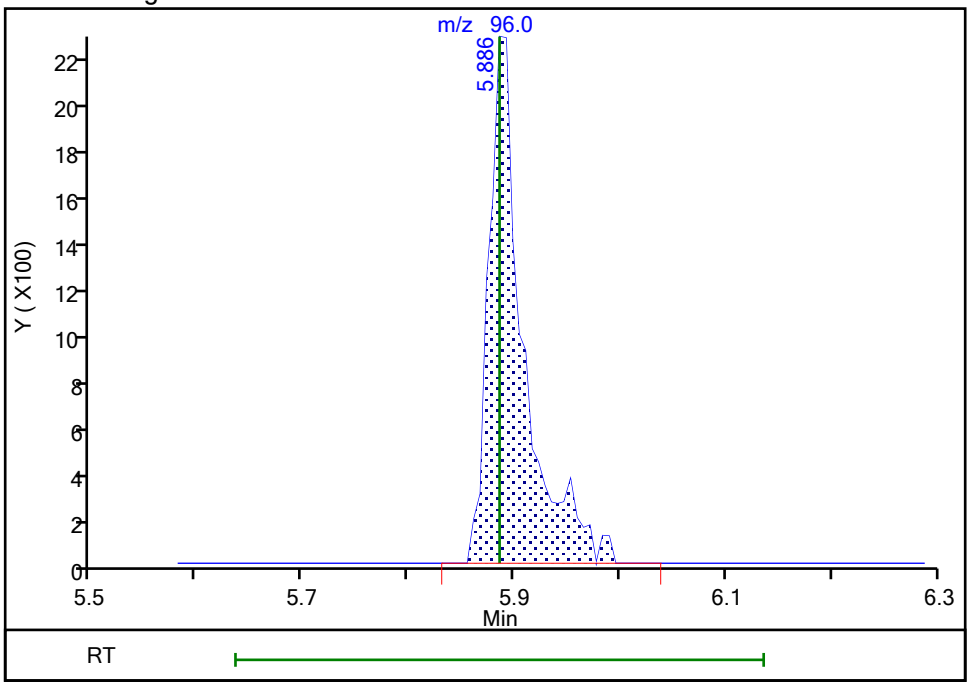
Processing Integration Results

RT: 5.89
Area: 4749
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5257
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:54:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

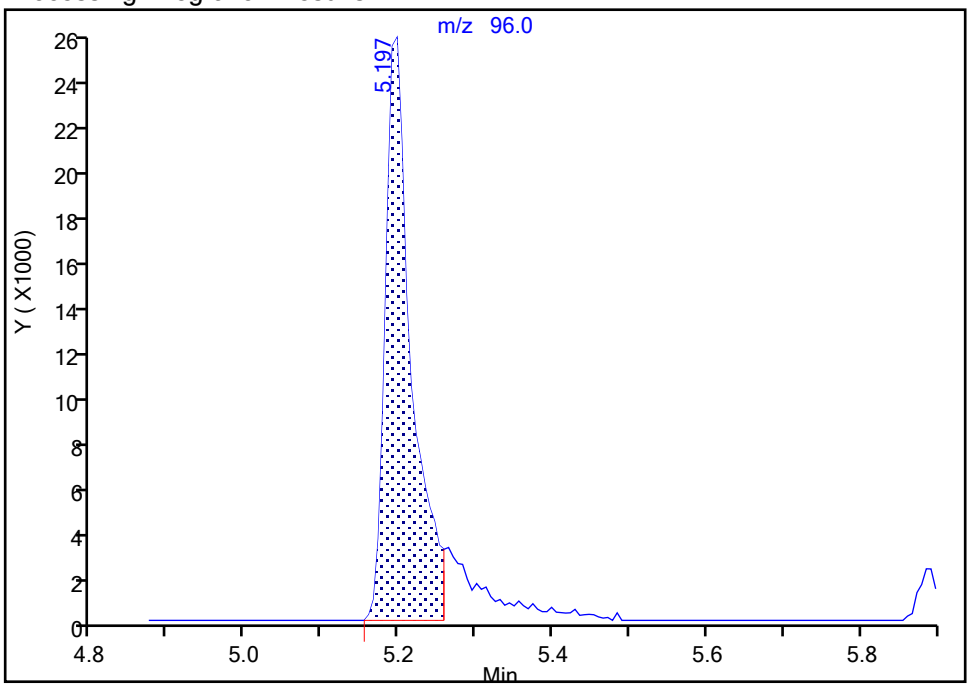
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

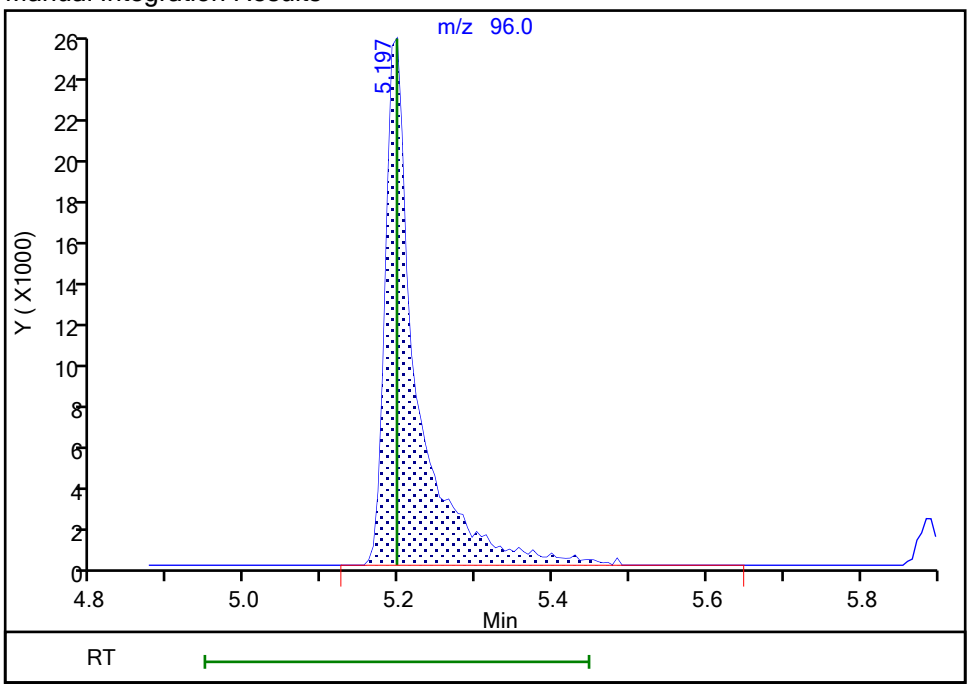
Processing Integration Results

RT: 5.20
Area: 61202
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 72820
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:54:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

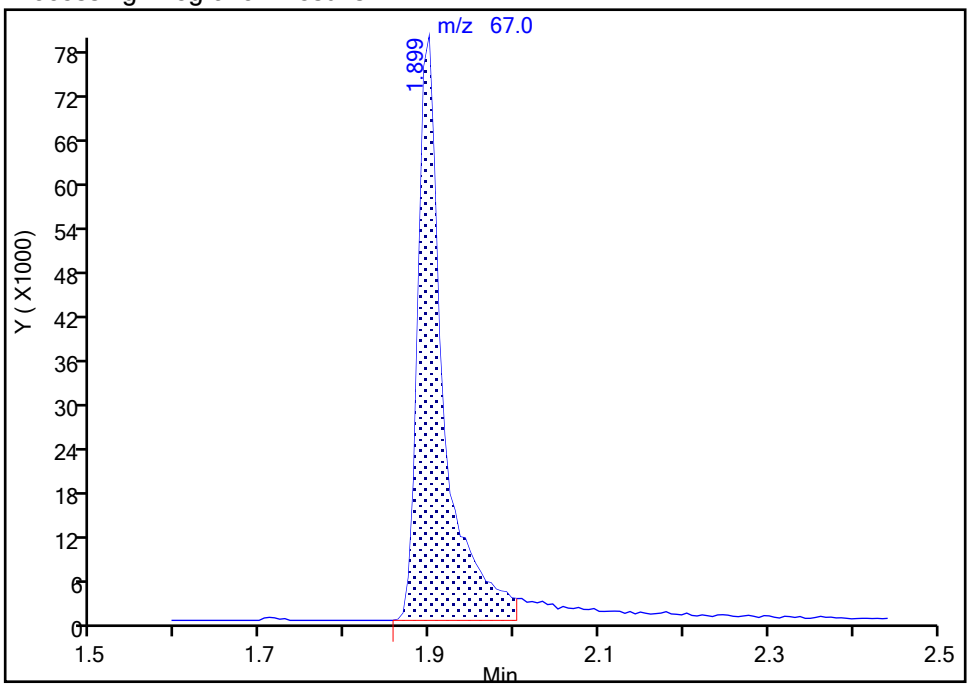
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

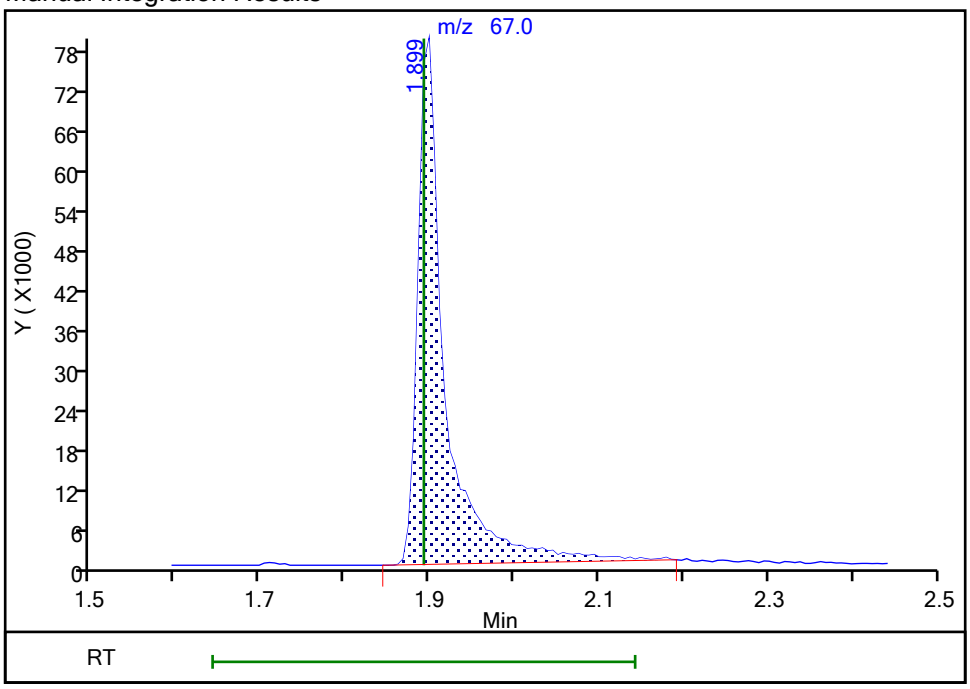
Processing Integration Results

RT: 1.90
Area: 169806
Amount: 53.472287
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 178413
Amount: 56.182650
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:55:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

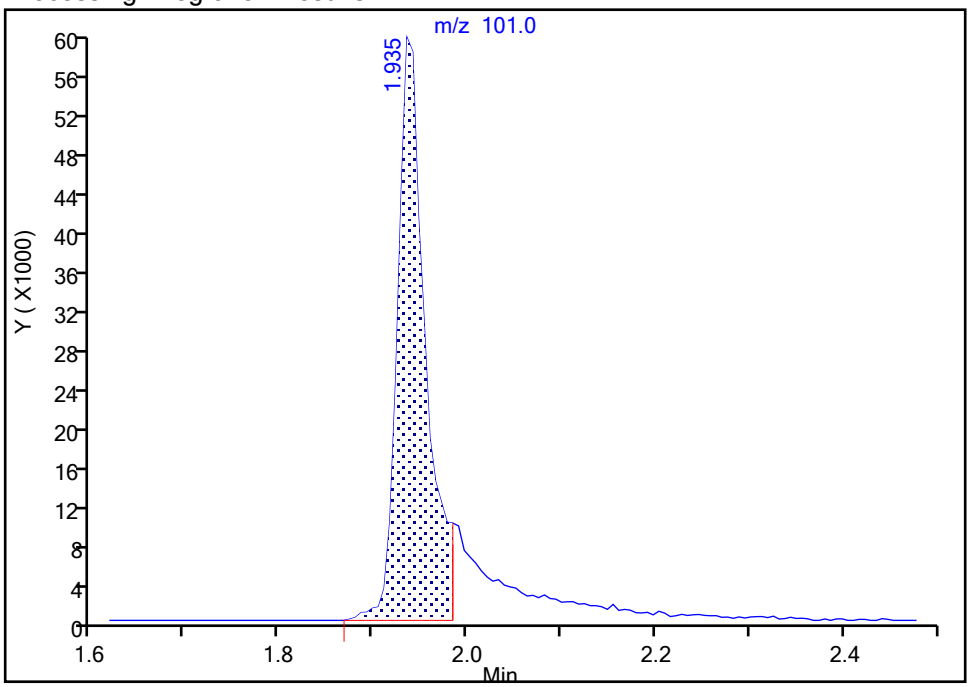
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

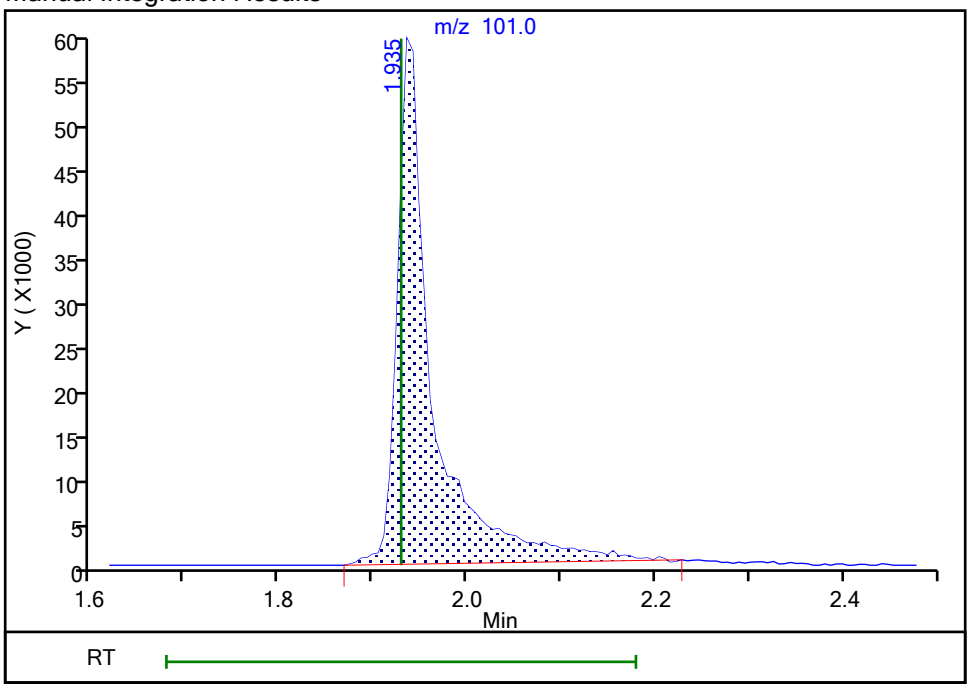
Processing Integration Results

RT: 1.94
Area: 123625
Amount: 44.517786
Amount Units: ug/l



Manual Integration Results

RT: 1.94
Area: 153154
Amount: 55.151280
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:55:06
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

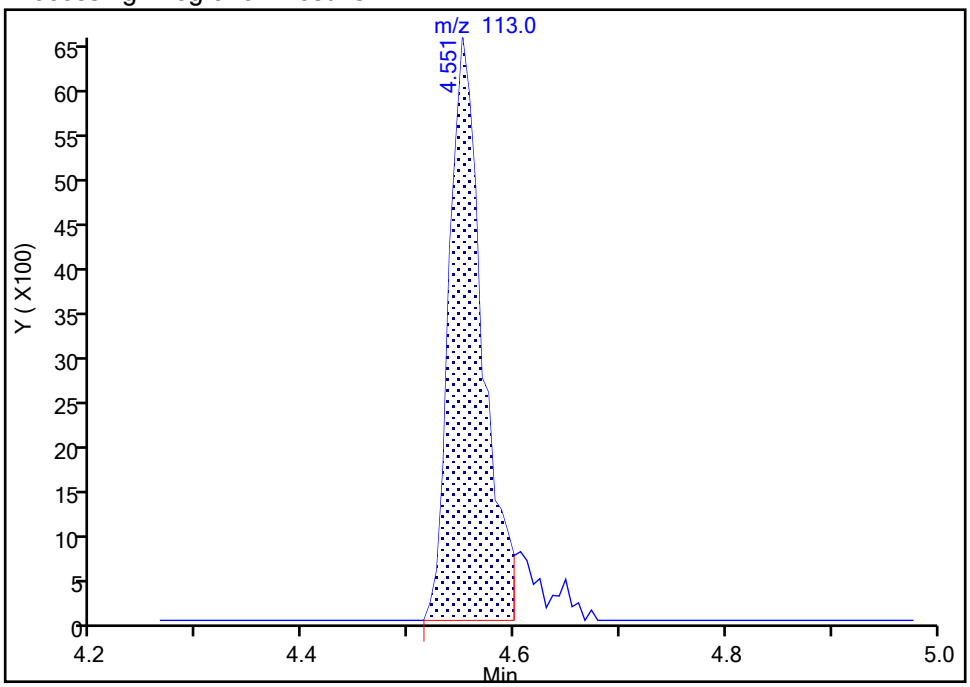
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

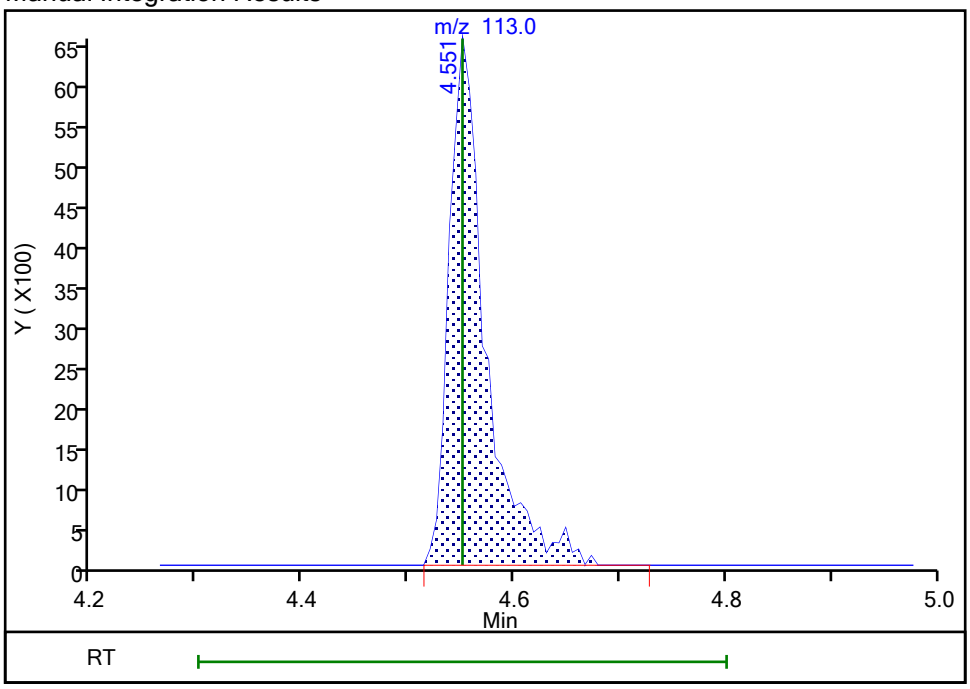
Processing Integration Results

RT: 4.55
Area: 14349
Amount: 47.287565
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 15796
Amount: 52.056197
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:54:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

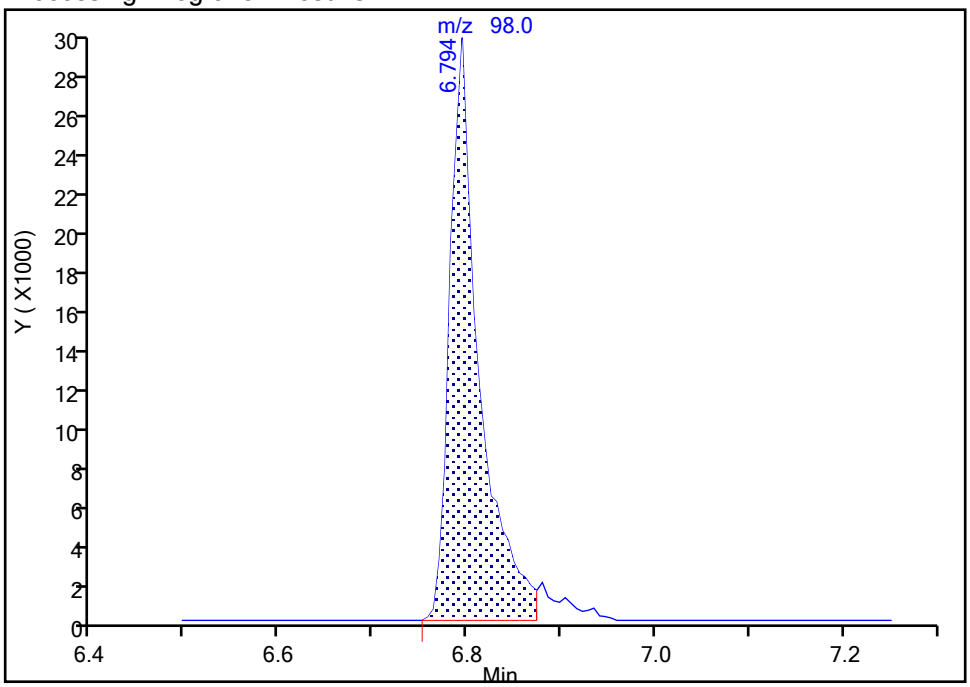
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3767.D
Injection Date: 10-Nov-2020 04:35:30 Instrument ID: Hobbes
Lims ID: icv
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

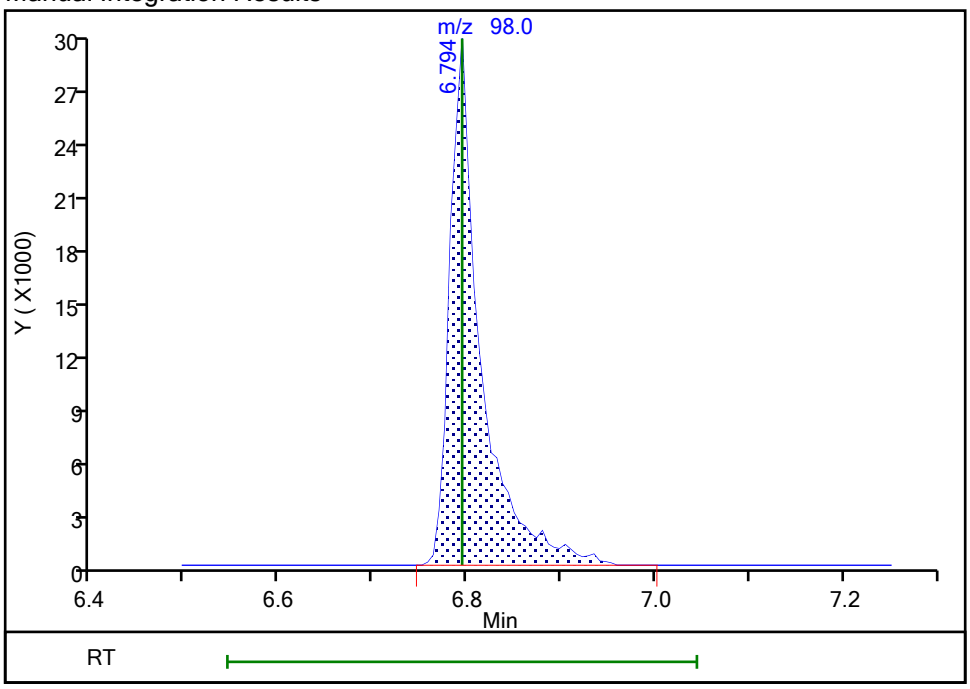
Processing Integration Results

RT: 6.79
Area: 64817
Amount: 45.935308
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 68436
Amount: 48.500066
Amount Units: ug/l



Reviewer: nelsonsa, 10-Nov-2020 06:54:51
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299687/3 Calibration Date: 11/19/2020 01:43

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H4275.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0468	0.0436		1860	2000	-6.8	50.0
Diethyl ether	Ave	1.297	1.218		47.0	50.0	-6.1	20.0
Acrolein	Ave	0.5290	0.3993		180	238	-24.5	50.0
1,1-Dichloroethene	Lin2		1.009	0.1000	43.7	50.0	-12.7	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.9117	0.7930	0.1000	43.5	50.0	-13.0	20.0
Acetone	Ave	1.146	1.037	0.0500	90.4	100	-9.6	50.0
Iodomethane	Lin2		0.5861		35.5	50.0	-29.0	50.0
Carbon disulfide	Ave	3.103	2.324	0.1000	37.5	50.0	-25.1*	20.0
Isopropyl alcohol	Ave	0.1992	0.2003		503	500	0.5	20.0
Acetonitrile	Ave	0.3365	0.2834		421	500	-15.8	20.0
Allyl chloride	Ave	0.4907	0.3591		36.6	50.0	-26.8	50.0
Methyl acetate	Ave	2.472	2.111	0.1000	85.4	100	-14.6	20.0
Methylene chloride	Ave	1.256	0.8970	0.1000	35.7	50.0	-28.6	50.0
tert-Butanol	Ave	0.1744	0.1810		519	500	3.8	20.0
Acrylonitrile	Lin2		1.139		398	500	-20.5	50.0
trans-1,2-Dichloroethene	Ave	1.278	1.051	0.1000	41.1	50.0	-17.7	20.0
Methyl tert-butyl ether	Ave	2.698	2.249	0.1000	41.7	50.0	-16.6	20.0
Hexane	Ave	1.394	0.7586		27.2	50.0	-45.6	50.0
1,1-Dichloroethane	Ave	2.887	2.313	0.2000	40.1	50.0	-19.9	20.0
Chloroprene	Ave	3.041	2.356		38.7	50.0	-22.5*	20.0
Vinyl acetate	Lin1		0.1641		56.9	100	-43.1	50.0
Di-isopropyl ether (DIPE)	Ave	0.5669	0.5154		45.5	50.0	-9.1	20.0
tert-Butyl ethyl ether	Ave	5.016	4.141		41.3	50.0	-17.4	20.0
2,2-Dichloropropane	Ave	1.622	1.025		31.6	50.0	-36.8	50.0
cis-1,2-Dichloroethene	Ave	1.558	1.299	0.1000	41.7	50.0	-16.6	20.0
2-Butanone (MEK)	Ave	1.233	0.997	0.0500	80.9	100	-19.1	50.0
Propionitrile	Ave	0.5638	0.5047		448	500	-10.5	20.0
Ethyl acetate	Ave	3.018	2.954		97.9	100	-2.1	20.0
Bromochloromethane	Ave	0.6721	0.5900		43.9	50.0	-12.2	20.0
Methacrylonitrile	Ave	0.7109	0.6317		444	500	-11.1	20.0
Tetrahydrofuran	Ave	0.1725	0.1459		84.6	100	-15.4	20.0
Chloroform	Ave	2.279	1.968	0.2000	43.2	50.0	-13.6	20.0
1,1,1-Trichloroethane	Ave	1.988	1.722	0.1000	43.3	50.0	-13.4	20.0
Cyclohexane	Ave	3.762	3.262	0.1000	43.4	50.0	-13.3	20.0
Carbon tetrachloride	Ave	1.290	1.206	0.1000	46.8	50.0	-6.5	20.0
1,1-Dichloropropene	Ave	1.740	1.576		45.3	50.0	-9.5	20.0
Benzene	Ave	5.183	4.547	0.5000	43.9	50.0	-12.3	20.0
Isobutyl alcohol	Ave	0.1161	0.1218		1310	1250	4.9	20.0
1,2-Dichloroethane	Ave	2.035	1.946	0.1000	47.8	50.0	-4.4	20.0
n-Butanol	Ave	0.0994	0.0748		941	1250	-24.7*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299687/3 Calibration Date: 11/19/2020 01:43

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H4275.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Amyl methyl ether	Ave	2.816	2.660		47.2	50.0	-5.5	20.0
Heptane	Lin1		1.300		31.2	50.0	-37.6*	20.0
Trichloroethene	Ave	1.548	1.273	0.2000	41.1	50.0	-17.7	20.0
Ethyl acrylate	Ave	2.039	1.147		28.1	50.0	-43.7*	20.0
Methylcyclohexane	Ave	1.735	1.267	0.1000	36.5	50.0	-27.0*	20.0
1,2-Dichloropropane	Ave	1.548	1.359	0.1000	43.9	50.0	-12.2	20.0
Dibromomethane	Ave	0.6465	0.5990		46.3	50.0	-7.3	20.0
1,4-Dioxane	Ave	5.434	4.790		882	1000	-11.8	20.0
Methyl methacrylate	Ave	0.9104	0.8267		90.8	100	-9.2	20.0
Bromodichloromethane	Ave	1.005	0.9598	0.2000	47.8	50.0	-4.5	20.0
2-Nitropropane	Lin1		0.6016		79.8	100	-20.2*	20.0
2-Chloroethyl vinyl ether	Ave	0.9715	0.9709		50.0	50.0	-0.0	50.0
cis-1,3-Dichloropropene	Ave	0.8968	0.8497	0.2000	47.4	50.0	-5.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.642	2.577	0.1000	97.5	100	-2.5	20.0
Toluene	Ave	3.294	2.727	0.4000	41.4	50.0	-17.2	20.0
trans-1,3-Dichloropropene	Ave	0.7003	0.7341	0.1000	52.4	50.0	4.8	20.0
Ethyl methacrylate	Lin2		1.261		42.9	50.0	-14.2	20.0
1,1,2-Trichloroethane	Ave	0.8296	0.7979	0.1000	48.1	50.0	-3.8	20.0
Tetrachloroethene	Ave	1.242	1.123	0.2000	45.2	50.0	-9.6	20.0
1,3-Dichloropropane	Lin2		1.188		40.8	50.0	-18.4	20.0
2-Hexanone	Ave	1.788	1.651	0.1000	92.3	100	-7.7	20.0
Chlorodibromomethane	Ave	0.5818	0.5896	0.1000	50.7	50.0	1.3	20.0
n-Butyl acetate	Lin2		3.748		46.5	50.0	-7.0	20.0
1,2-Dibromoethane (EDB)	Ave	0.7742	0.5130	0.1000	33.1	50.0	-33.7*	20.0
Chlorobenzene	Ave	4.689	4.154	0.5000	44.3	50.0	-11.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.566	1.683		53.8	50.0	7.5	20.0
Ethylbenzene	Ave	6.482	5.900	0.1000	45.5	50.0	-9.0	20.0
m,p-Xylene	Ave	2.567	2.261	0.1000	44.0	50.0	-11.9	20.0
o-Xylene	Ave	2.419	2.189	0.3000	45.2	50.0	-9.5	20.0
Styrene	Ave	4.179	3.805	0.3000	45.5	50.0	-8.9	20.0
Bromoform	Ave	0.3885	0.4095	0.1000	52.7	50.0	5.4	20.0
Isopropylbenzene	Ave	5.736	5.397	0.1000	47.0	50.0	-5.9	20.0
Bromobenzene	Ave	1.716	1.566		45.6	50.0	-8.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.582	1.449	0.2000	45.8	50.0	-8.4	20.0
1,2,3-Trichloropropane	Lin1		1.416		56.6	50.0	13.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3145	0.3745		59.5	50.0	19.1	50.0
n-Propylbenzene	Ave	6.370	5.963		46.8	50.0	-6.4	20.0
2-Chlorotoluene	Ave	4.569	4.261		46.6	50.0	-6.7	20.0
4-Chlorotoluene	Ave	5.314	5.055		47.6	50.0	-4.9	20.0
1,3,5-Trimethylbenzene	Ave	5.386	5.623		52.2	50.0	4.4	20.0
tert-Butylbenzene	Ave	7.149	7.643		53.5	50.0	6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299687/3 Calibration Date: 11/19/2020 01:43

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H4275.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	4.953	5.195		52.5	50.0	4.9	20.0
sec-Butylbenzene	Ave	5.753	5.613		48.8	50.0	-2.4	20.0
1,3-Dichlorobenzene	Lin2		3.147	0.6000	51.6	50.0	3.1	20.0
p-Isopropyltoluene	Lin2		8.695		53.6	50.0	7.2	20.0
1,4-Dichlorobenzene	Ave	6.458	5.842	0.5000	45.2	50.0	-9.5	20.0
1,2,3-Trimethylbenzene	Lin2		10.70		57.3	50.0	14.6	20.0
Benzyl chloride	Ave	0.4985	0.3939		39.5	50.0	-21.0*	20.0
1,2-Dichlorobenzene	Ave	5.809	5.334	0.4000	45.9	50.0	-8.2	20.0
n-Butylbenzene	Ave	7.285	7.876		54.1	50.0	8.1	20.0
1,2-Dibromo-3-chloropropane	Ave	0.3712	0.4103	0.0500	55.3	50.0	10.6	50.0
1,3,5-Trichlorobenzene	Lin2		4.128		57.5	50.0	14.9	20.0
1,2,4-Trichlorobenzene	Ave	2.994	3.235	0.2000	54.0	50.0	8.0	20.0
Hexachlorobutadiene	Ave	1.339	1.385		51.7	50.0	3.4	50.0
Naphthalene	Ave	9.675	11.23		58.1	50.0	16.1	50.0
1,2,3-Trichlorobenzene	Ave	2.701	3.075		56.9	50.0	13.8	50.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2291		55.0	50.0	10.0	20.0
Toluene-d8 (Surr)	Ave	1.124	1.154		51.4	50.0	2.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.7066		54.9	50.0	9.8	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 01:43:30 ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-002
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub52

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:15:22 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:14:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	39951	1000.0	1000.0	
* 122 Fluorobenzene	96	5.203	5.203	0.000	70	56885	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	34	5346	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.343	0.000	90	43004	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	83	23547	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.545	4.545	0.000	41	13033	50.0	55.0	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	94	49648	50.0	51.4	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	16638	50.0	54.9	
$ 8 BFB	95	9.684	9.684	0.000	84	20669	NR	NR	
17 Ethanol	45	2.161	2.161	0.000	99	99149	2000.0	1863.0	
18 Ethyl ether	59	2.222	2.222	0.000	91	69301	50.0	47.0	M
19 Acrolein	56	2.332	2.332	0.000	99	108222	238.2	179.8	M
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	57387	50.0	43.7	M
21 112TCTFE	101	2.423	2.423	0.000	92	45111	50.0	43.5	M
22 Acetone	43	2.490	2.490	0.000	96	117932	100.0	90.4	M
23 Iodomethane	142	2.533	2.533	0.000	99	33340	50.0	35.5	M
24 Carbon disulfide	76	2.582	2.582	0.000	96	132228	50.0	37.5	M
105 Isopropyl alcohol	45	2.673	2.673	0.000	98	113944	500.0	502.7	
118 Acetonitrile	40	2.740	2.740	0.000	96	161236	500.0	421.2	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	83	20425	50.0	36.6	
26 Methyl acetate	43	2.807	2.807	0.000	99	240201	100.0	85.4	
27 Methylene Chloride	84	2.874	2.874	0.000	84	51027	50.0	35.7	
35 2-Methyl-2-propanol	59	3.057	3.057	0.000	95	102964	500.0	518.8	
30 Acrylonitrile	53	3.124	3.124	0.000	98	648156	500.0	397.7	
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	89	59795	50.0	41.1	M
29 Methyl tert-butyl ether	73	3.155	3.155	0.000	88	127941	50.0	41.7	
31 Hexane	57	3.392	3.392	0.000	91	43151	50.0	27.2	
32 1,1-Dichloroethane	63	3.526	3.526	0.000	96	131591	50.0	40.1	M
33 Vinyl acetate	86	3.618	3.618	0.000	96	18664	100.0	56.9	M
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	50	134022	50.0	38.7	M
36 Isopropyl ether	87	3.636	3.636	0.000	86	29321	50.0	45.5	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	95	235563	50.0	41.3	
38 2,2-Dichloropropane	77	4.069	4.069	0.000	78	58279	50.0	31.6	
39 cis-1,2-Dichloroethene	96	4.087	4.087	0.000	90	73896	50.0	41.7	
40 2-Butanone (MEK)	43	4.136	4.136	0.000	95	113447	100.0	80.9	
41 Propionitrile	54	4.185	4.185	0.000	99	287106	500.0	447.6	
104 Ethyl acetate	43	4.203	4.203	0.000	98	336101	100.0	97.9	
42 Chlorobromomethane	128	4.307	4.307	0.000	75	33564	50.0	43.9	M
43 Methacrylonitrile	67	4.325	4.325	0.000	95	359361	500.0	444.3	
44 Tetrahydrofuran	71	4.380	4.380	0.000	83	16596	100.0	84.6	
45 Chloroform	83	4.398	4.398	0.000	93	111970	50.0	43.2	
46 1,1,1-Trichloroethane	97	4.551	4.551	0.000	95	97934	50.0	43.3	
47 Cyclohexane	56	4.599	4.599	0.000	91	185582	50.0	43.4	M
48 Carbon tetrachloride	117	4.709	4.709	0.000	96	68622	50.0	46.8	
49 1,1-Dichloropropene	75	4.721	4.721	0.000	83	89629	50.0	45.3	M
50 Benzene	78	4.916	4.916	0.000	90	258677	50.0	43.9	M
108 Isobutyl alcohol	43	4.923	4.923	0.000	93	173185	1250.0	1311.5	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	94	110682	50.0	47.8	
116 n-Butanol	56	5.008	5.008	0.000	51	106433	1250.0	940.7	a
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	84	151319	50.0	47.2	M
53 n-Heptane	43	5.203	5.203	0.000	94	73942	50.0	31.2	M
54 Trichloroethene	132	5.557	5.550	0.007	92	72443	50.0	41.1	
117 Ethyl acrylate	55	5.709	5.709	0.000	97	65253	50.0	28.1	M
114 Methylcyclohexane	83	5.733	5.733	0.000	91	72053	50.0	36.5	M
55 1,2-Dichloropropane	63	5.776	5.776	0.000	93	77325	50.0	43.9	M
56 Dibromomethane	93	5.886	5.886	0.000	92	34072	50.0	46.3	
57 Methyl methacrylate	69	5.935	5.935	0.000	87	94053	100.0	90.8	
115 1,4-Dioxane	58	5.935	5.935	0.000	34	25608	1000.0	881.5	
58 Dichlorobromomethane	83	6.063	6.063	0.000	94	54601	50.0	47.8	
106 2-Nitropropane	43	6.306	6.306	0.000	97	68444	100.0	79.8	
59 2-Chloroethyl vinyl ether	63	6.398	6.398	0.000	82	55232	50.0	50.0	
60 cis-1,3-Dichloropropene	75	6.520	6.520	0.000	82	48333	50.0	47.4	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	96	293197	100.0	97.5	
62 Toluene	92	6.861	6.861	0.000	97	155117	50.0	41.4	M
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	87	41758	50.0	52.4	
64 Ethyl methacrylate	69	7.239	7.239	0.000	85	71753	50.0	42.9	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	93	45391	50.0	48.1	
66 Tetrachloroethene	166	7.434	7.434	0.000	95	63884	50.0	45.2	
67 1,3-Dichloropropane	76	7.477	7.477	0.000	86	67591	50.0	40.8	E
68 2-Hexanone	43	7.599	7.599	0.000	97	187822	100.0	92.3	
69 Chlorodibromomethane	129	7.709	7.709	0.000	89	33541	50.0	50.7	
109 n-Butyl acetate	43	7.751	7.751	0.000	96	213214	50.0	46.5	
70 Ethylene Dibromide	107	7.818	7.818	0.000	100	29180	50.0	33.1	E
71 Chlorobenzene	112	8.373	8.373	0.000	92	178649	50.0	44.3	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	93	72387	50.0	53.8	
73 Ethylbenzene	91	8.507	8.507	0.000	98	253710	50.0	45.5	
74 m-Xylene & p-Xylene	106	8.647	8.647	0.000	98	97232	50.0	44.0	
75 o-Xylene	106	9.092	9.086	0.006	97	94122	50.0	45.2	a
76 Styrene	104	9.105	9.105	0.000	87	163648	50.0	45.5	
77 Bromoform	173	9.294	9.294	0.000	94	17608	50.0	52.7	
78 Isopropylbenzene	105	9.519	9.519	0.000	96	232113	50.0	47.0	
79 Bromobenzene	156	9.842	9.842	0.000	89	67361	50.0	45.6	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.873	0.000	96	62303	50.0	45.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	92	60910	50.0	56.6	
82 trans-1,4-Dichloro-2-butene	53	9.940	9.940	0.000	68	16104	50.0	59.5	
83 N-Propylbenzene	91	10.001	10.001	0.000	99	256413	50.0	46.8	
84 2-Chlorotoluene	91	10.080	10.080	0.000	95	183221	50.0	46.6	
85 4-Chlorotoluene	91	10.208	10.208	0.000	98	217394	50.0	47.6	
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	96	241830	50.0	52.2	
87 tert-Butylbenzene	119	10.586	10.586	0.000	96	328669	50.0	53.5	
88 1,2,4-Trimethylbenzene	105	10.647	10.647	0.000	98	223426	50.0	52.5	
89 sec-Butylbenzene	105	10.854	10.854	0.000	95	241382	50.0	48.8	
90 1,3-Dichlorobenzene	146	10.952	10.952	0.000	98	135330	50.0	51.6	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	97	204731	50.0	53.6	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	93	137565	50.0	45.2	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	251875	50.0	57.3	
113 Benzyl chloride	126	11.232	11.232	0.000	99	9275	50.0	39.5	
93 1,2-Dichlorobenzene	146	11.501	11.501	0.000	97	125605	50.0	45.9	
94 n-Butylbenzene	91	11.519	11.519	0.000	98	185458	50.0	54.1	
95 1,2-Dibromo-3-Chloropropane	75	12.433	12.439	-0.006	77	9662	50.0	55.3	
112 1,3,5-Trichlorobenzene	180	12.695	12.695	0.000	96	97195	50.0	57.5	
96 1,2,4-Trichlorobenzene	180	13.445	13.445	0.000	95	76171	50.0	54.0	
97 Hexachlorobutadiene	225	13.671	13.671	0.000	94	32609	50.0	51.7	
98 Naphthalene	128	13.726	13.726	0.000	97	264516	50.0	58.1	
99 1,2,3-Trichlorobenzene	180	14.024	14.024	0.000	96	72400	50.0	56.9	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	82.8	
S 100 Xylenes, Total	1				0		100.0	89.3	
S 102 1,3-Dichloropropene, Total	1				0		100.0	99.8	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

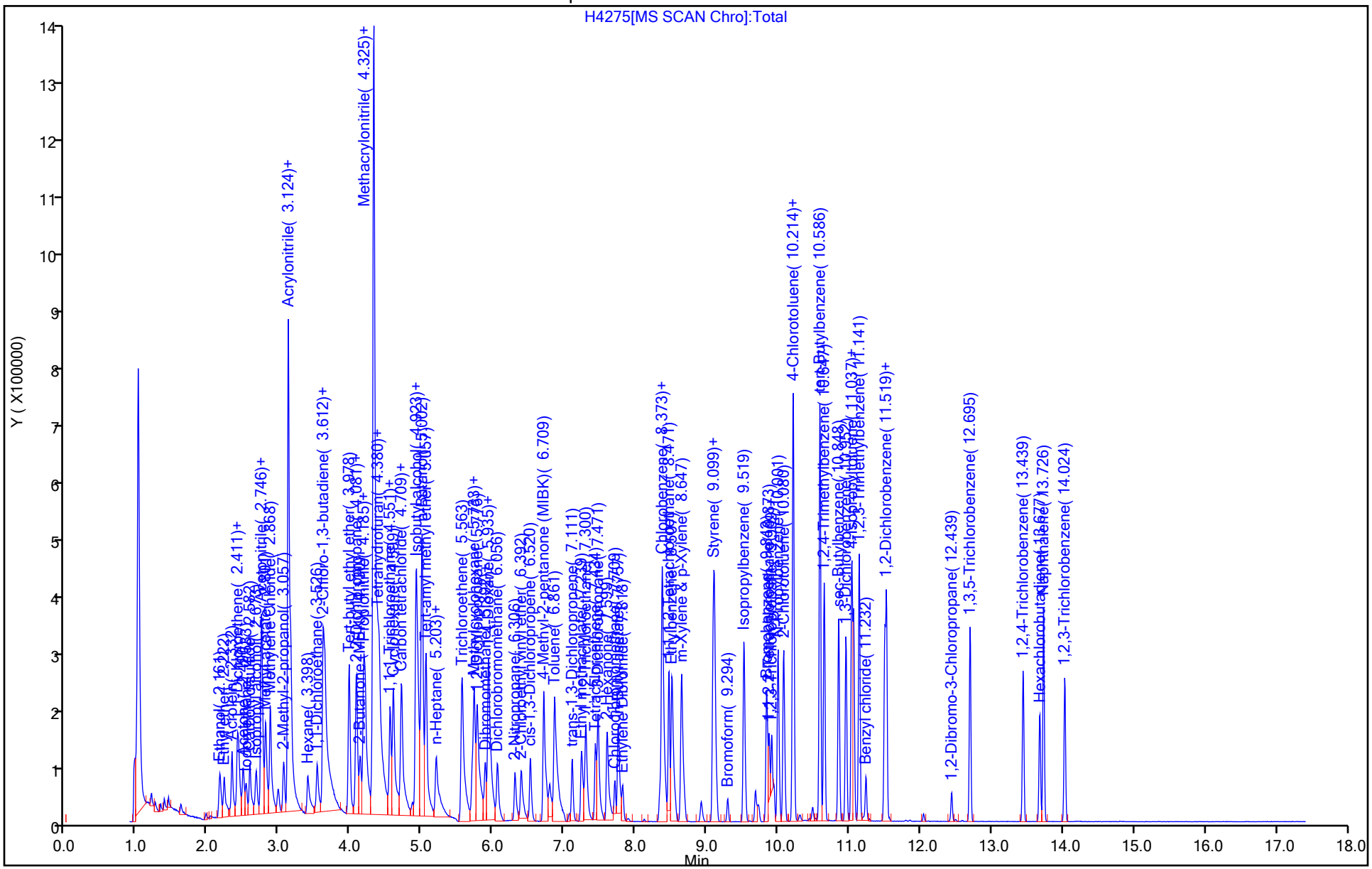
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_MOSOL_00219	Amount Added:	10.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:15:25 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D

Injection Date:	19-Nov-2020 01:43:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

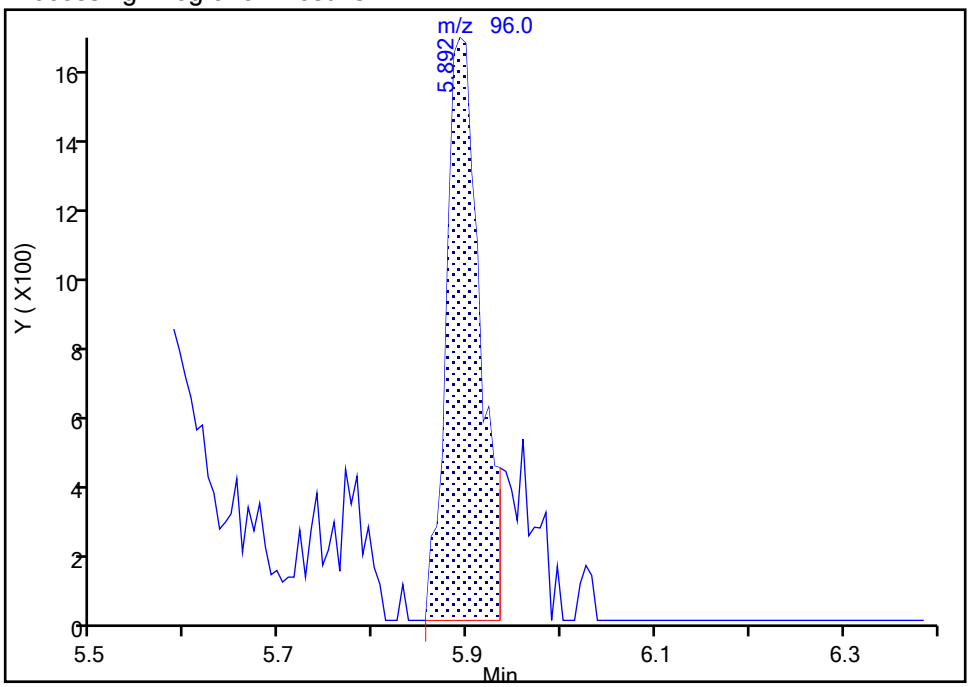
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

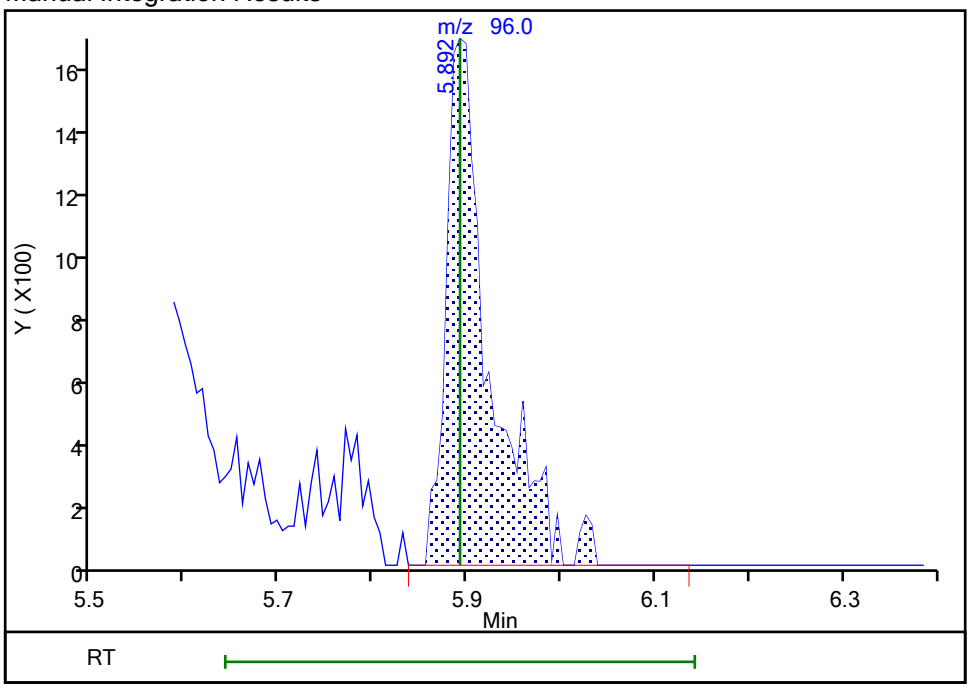
Processing Integration Results

RT: 5.89
Area: 4170
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5346
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:14:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

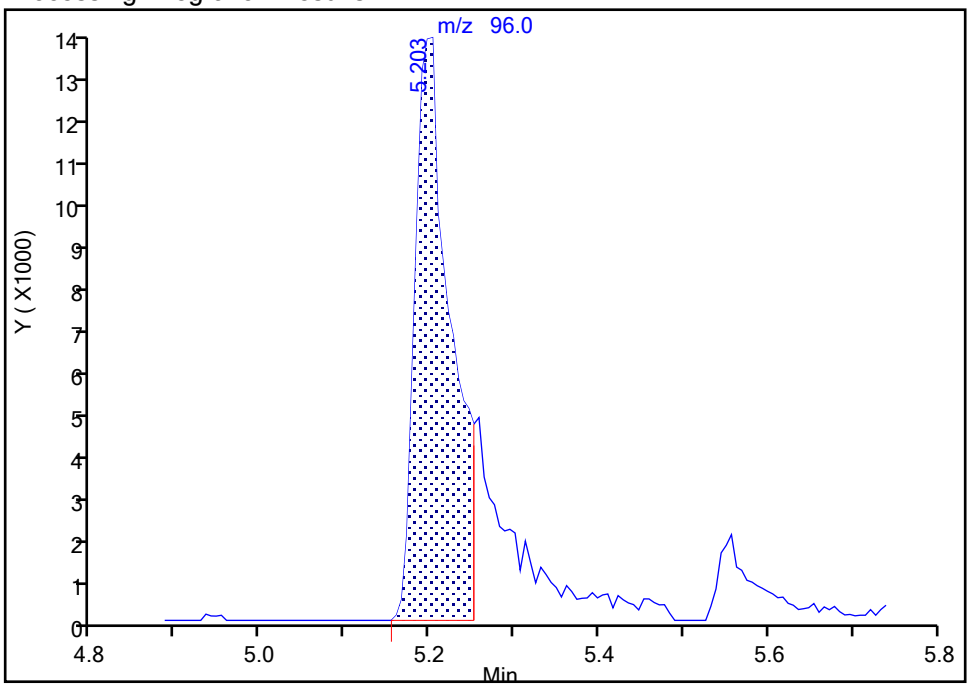
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

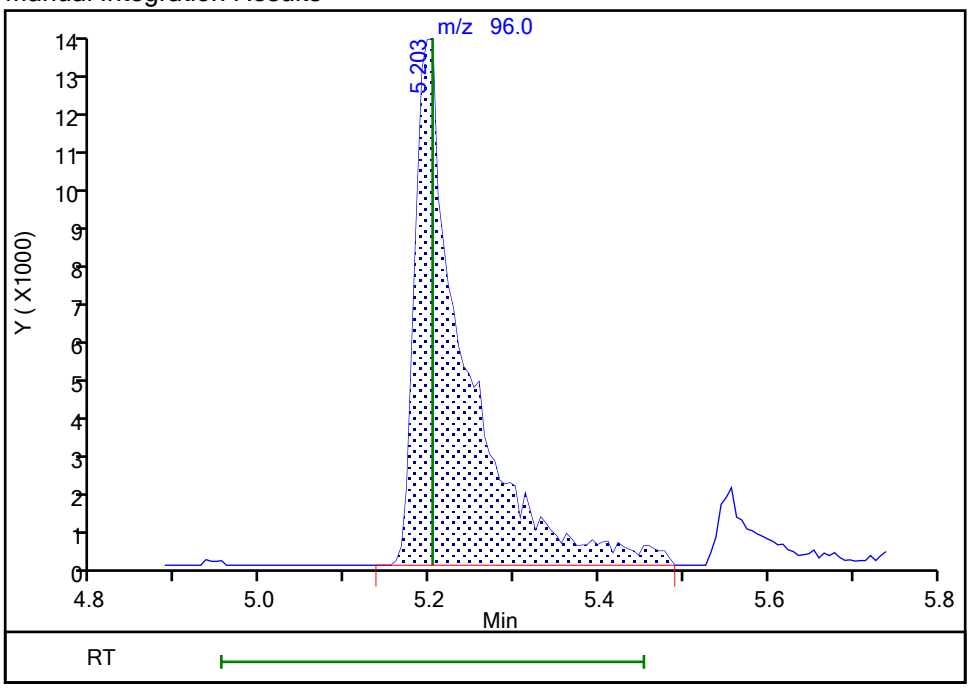
Processing Integration Results

RT: 5.20
Area: 41166
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 56885
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:30:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

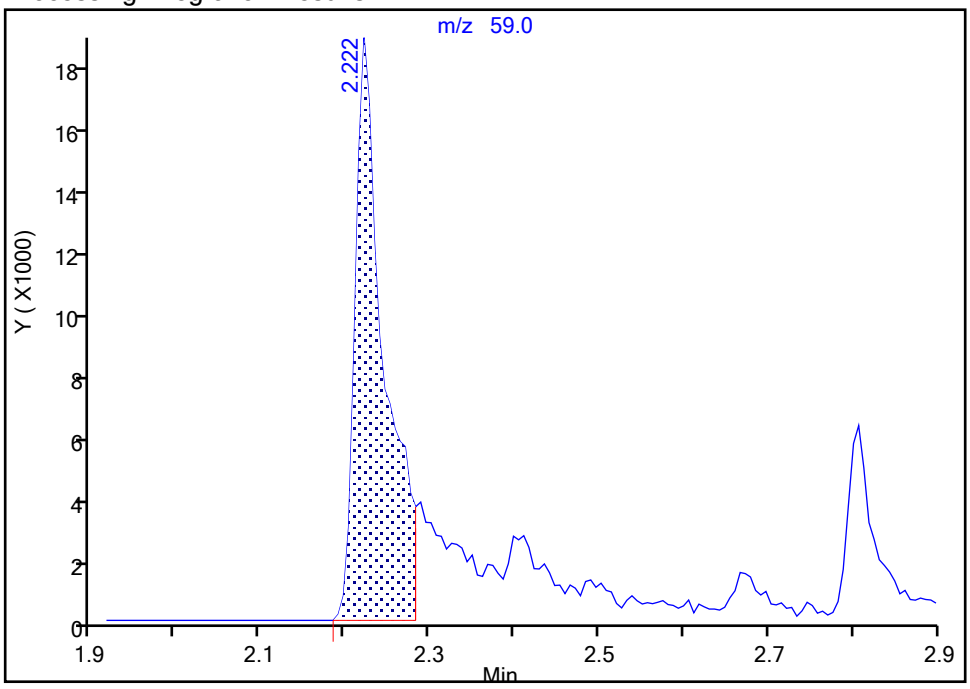
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

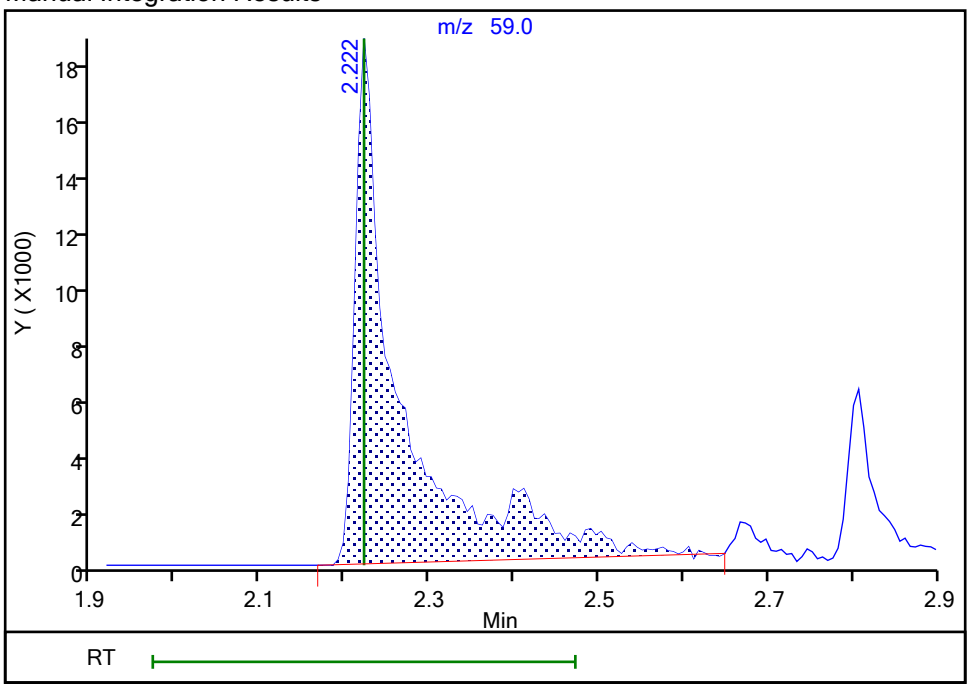
Processing Integration Results

RT: 2.22
Area: 45667
Amount: 30.938828
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 69301
Amount: 46.950571
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:30:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

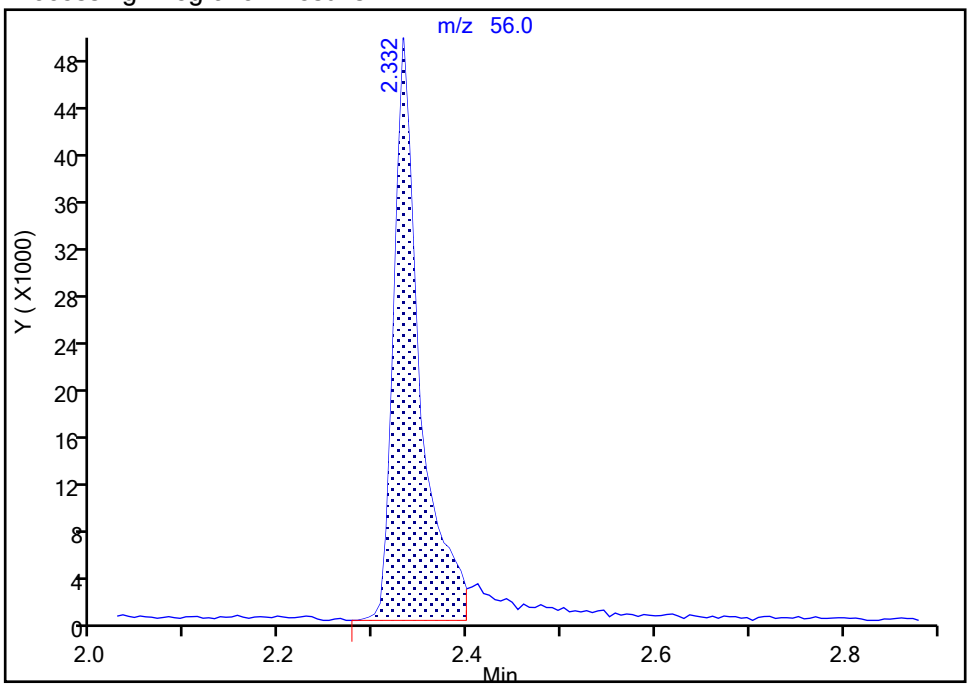
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

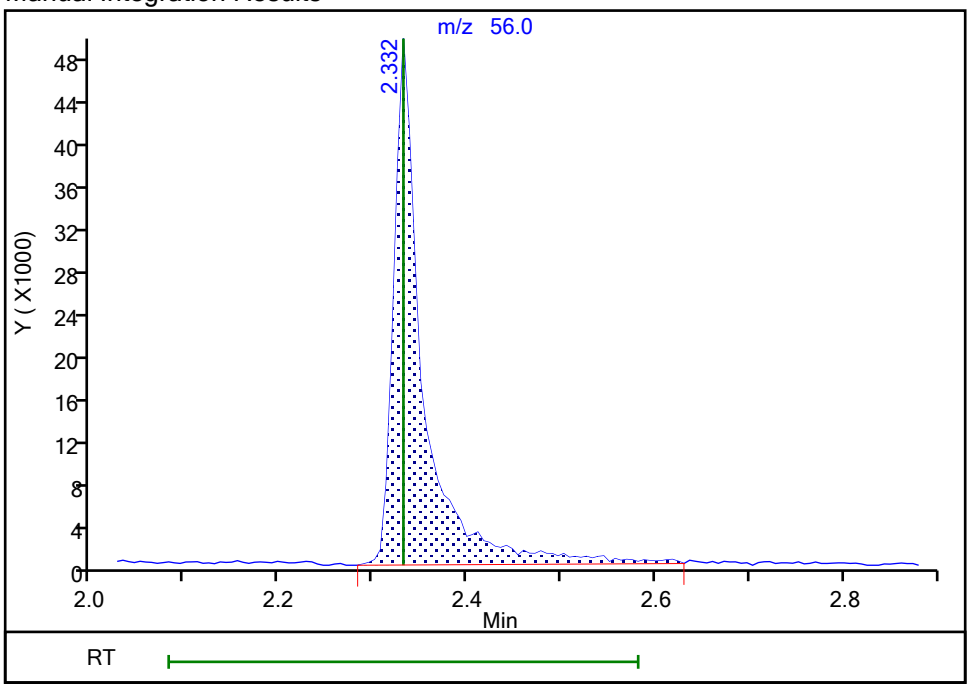
Processing Integration Results

RT: 2.33
Area: 95734
Amount: 159.0792
Amount Units: ug/l



Manual Integration Results

RT: 2.33
Area: 108222
Amount: 179.8303
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:16:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

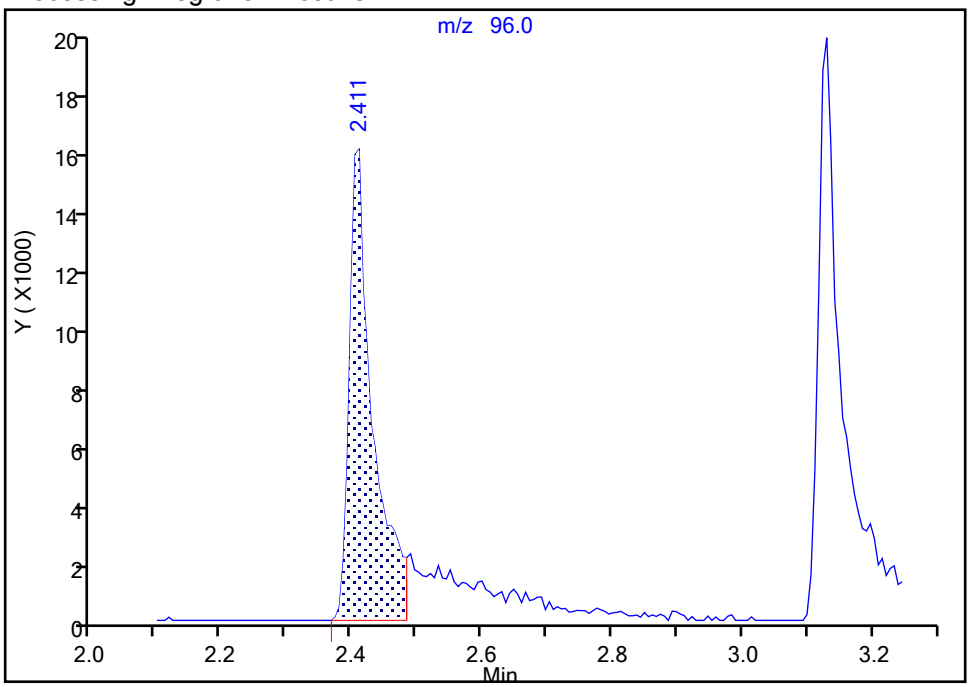
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

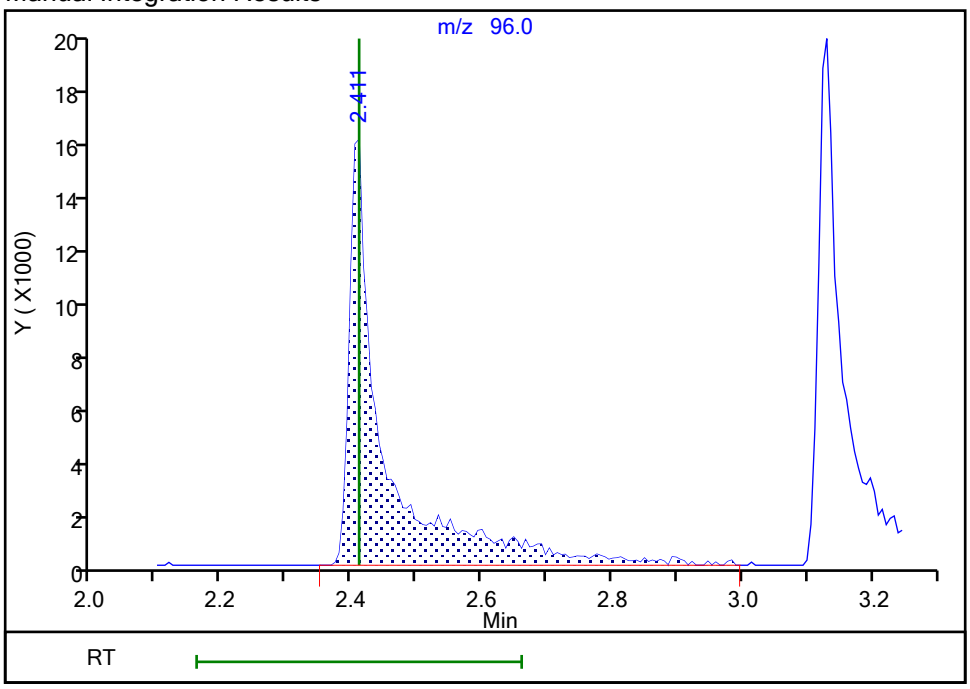
Processing Integration Results

RT: 2.41
Area: 39086
Amount: 29.869699
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 57387
Amount: 43.659642
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:30:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

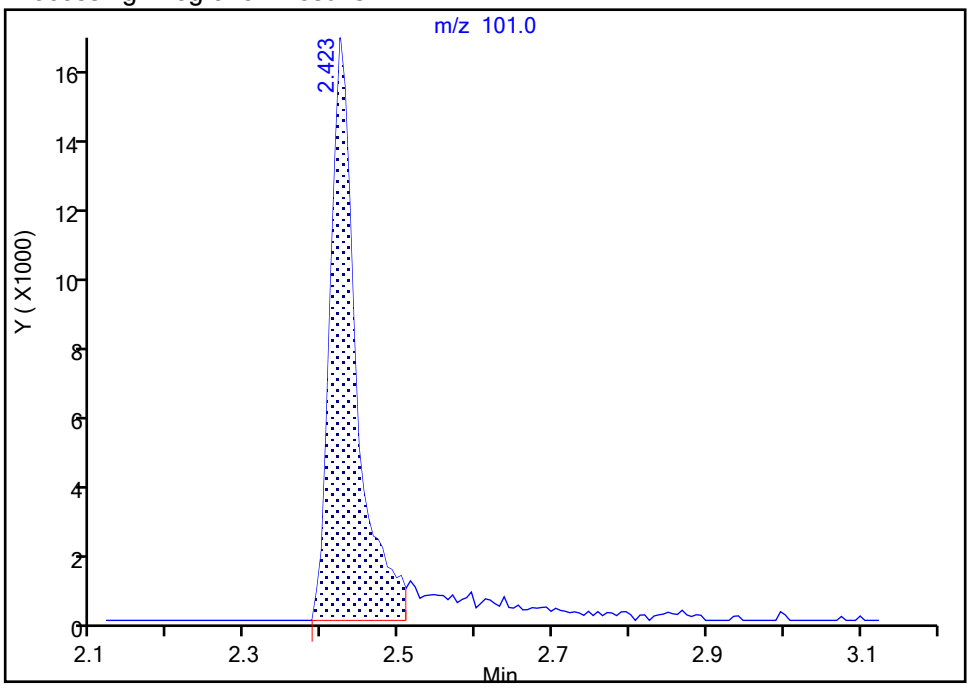
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

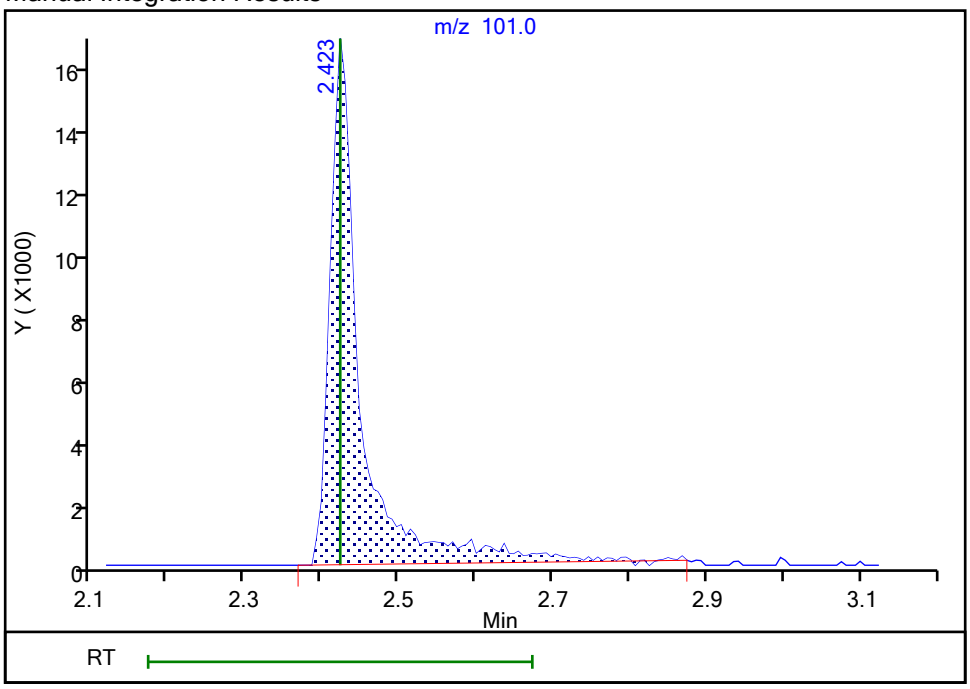
Processing Integration Results

RT: 2.42
Area: 39239
Amount: 37.831254
Amount Units: ug/l



Manual Integration Results

RT: 2.42
Area: 45111
Amount: 43.492589
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:30:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

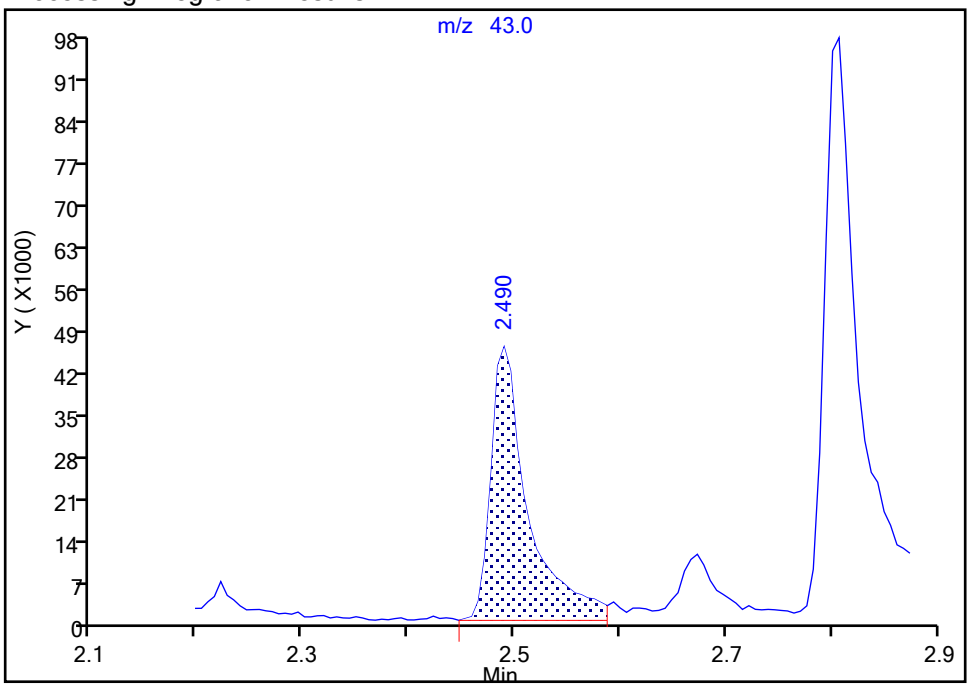
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

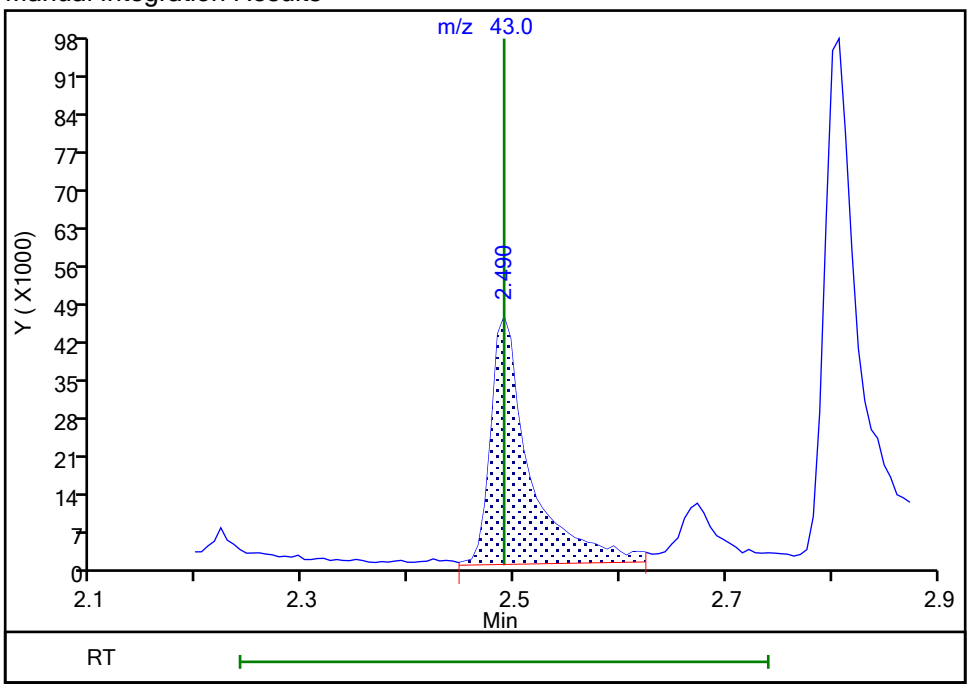
Processing Integration Results

RT: 2.49
Area: 111516
Amount: 85.495439
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 117932
Amount: 90.414363
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:16:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

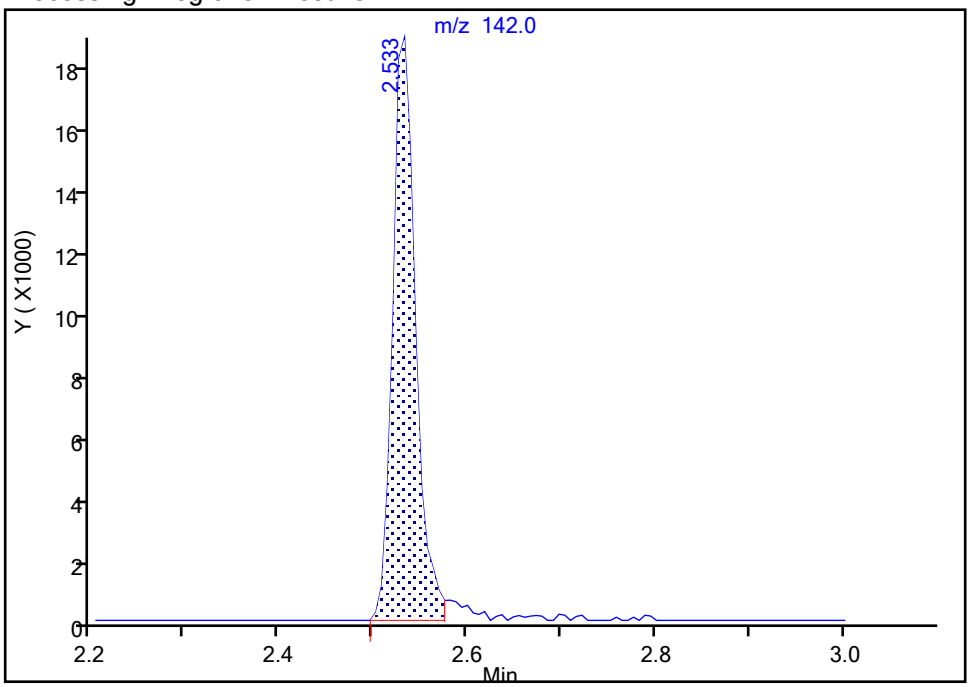
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

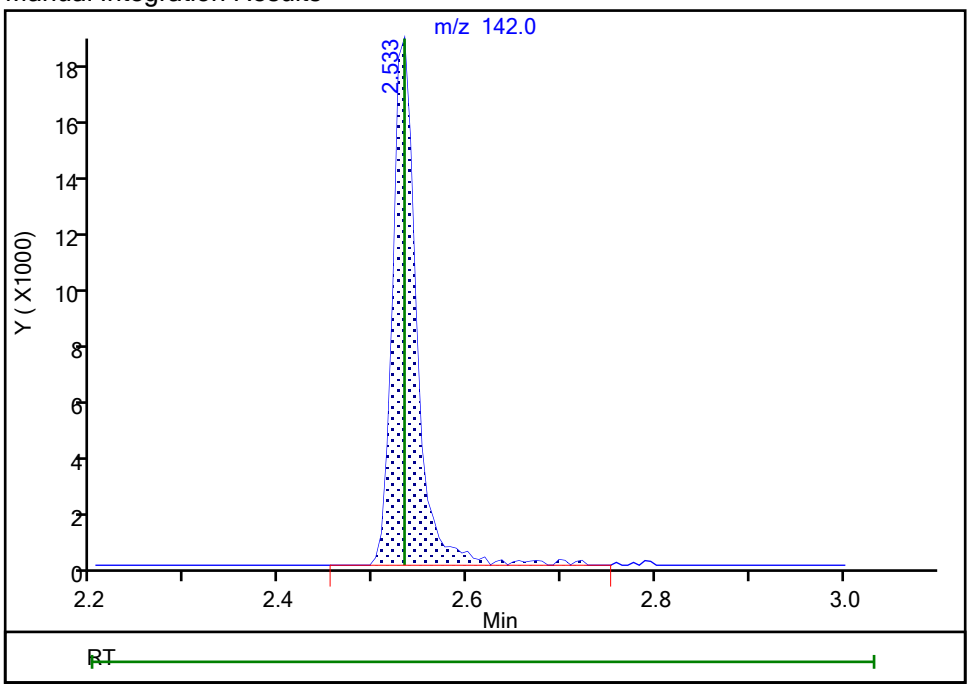
Processing Integration Results

RT: 2.53
Area: 31641
Amount: 33.369413
Amount Units: ug/l



Manual Integration Results

RT: 2.53
Area: 33340
Amount: 35.494554
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:16:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

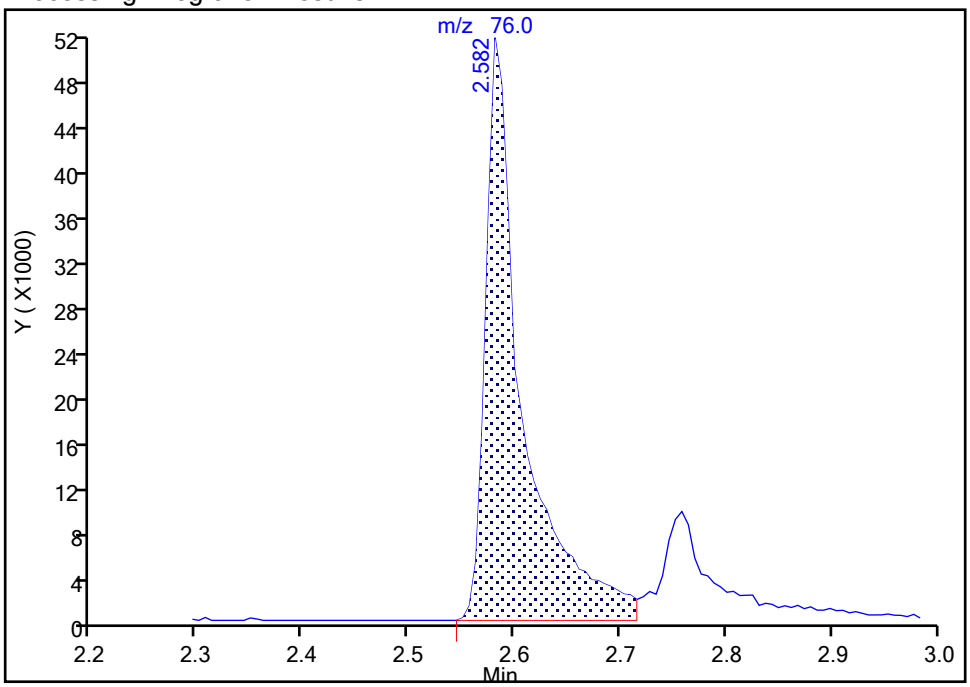
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

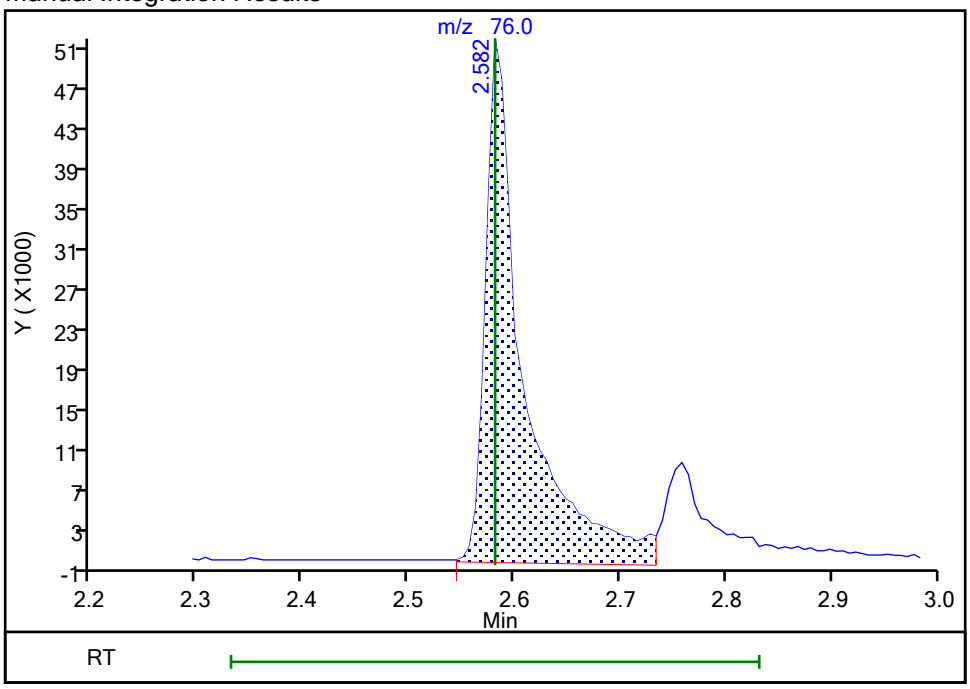
Processing Integration Results

RT: 2.58
Area: 125447
Amount: 35.537571
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 132228
Amount: 37.458544
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:31:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

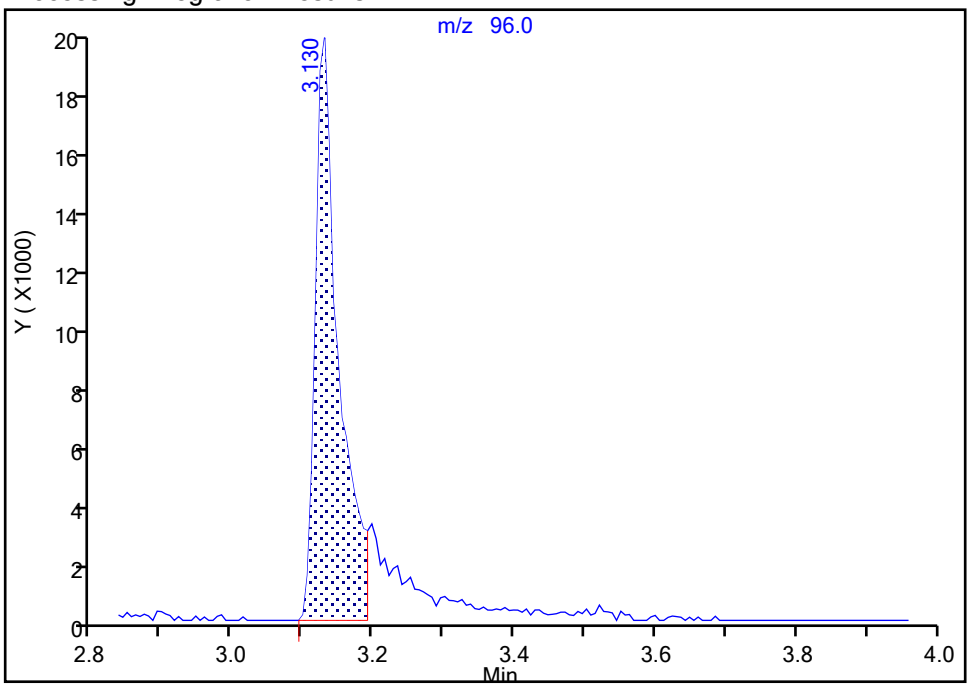
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

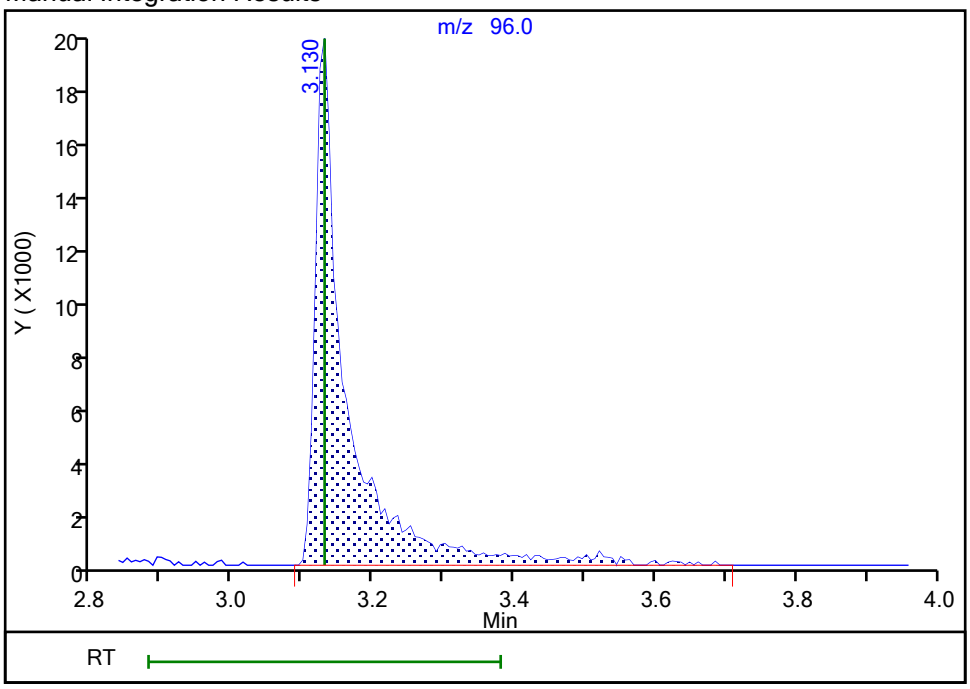
Processing Integration Results

RT: 3.13
Area: 44853
Amount: 30.855755
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 59795
Amount: 41.134815
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:31:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

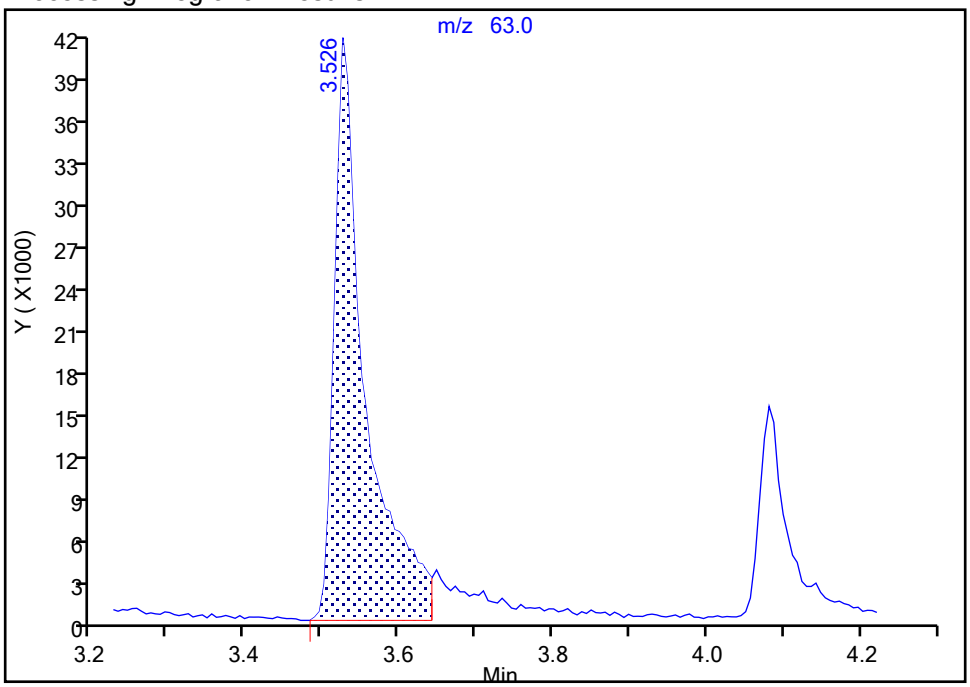
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

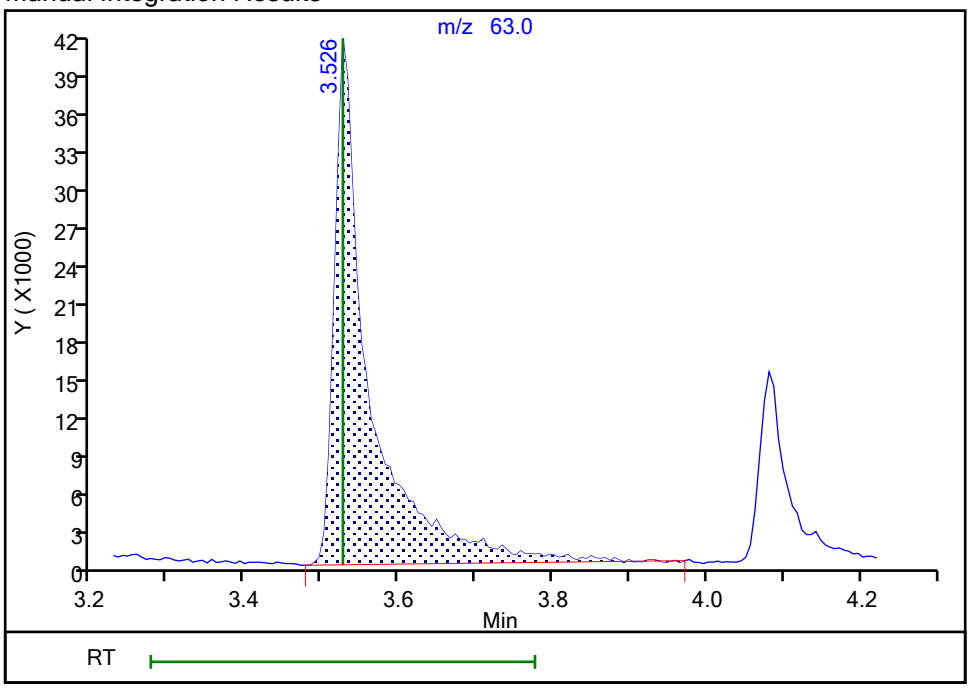
Processing Integration Results

RT: 3.53
Area: 117597
Amount: 35.807118
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 131591
Amount: 40.068153
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:31:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

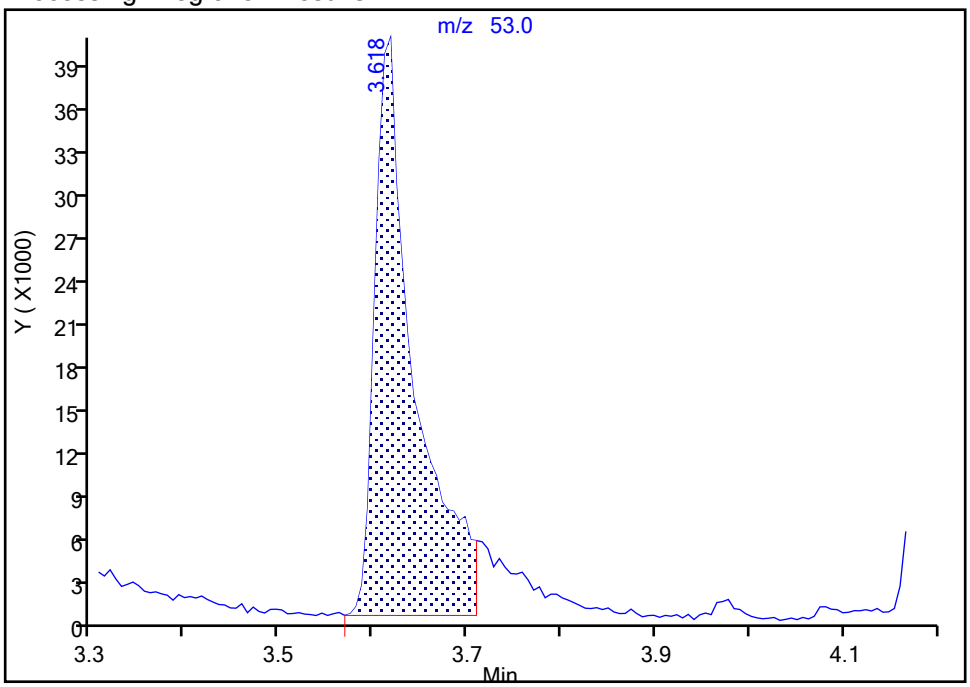
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

34 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

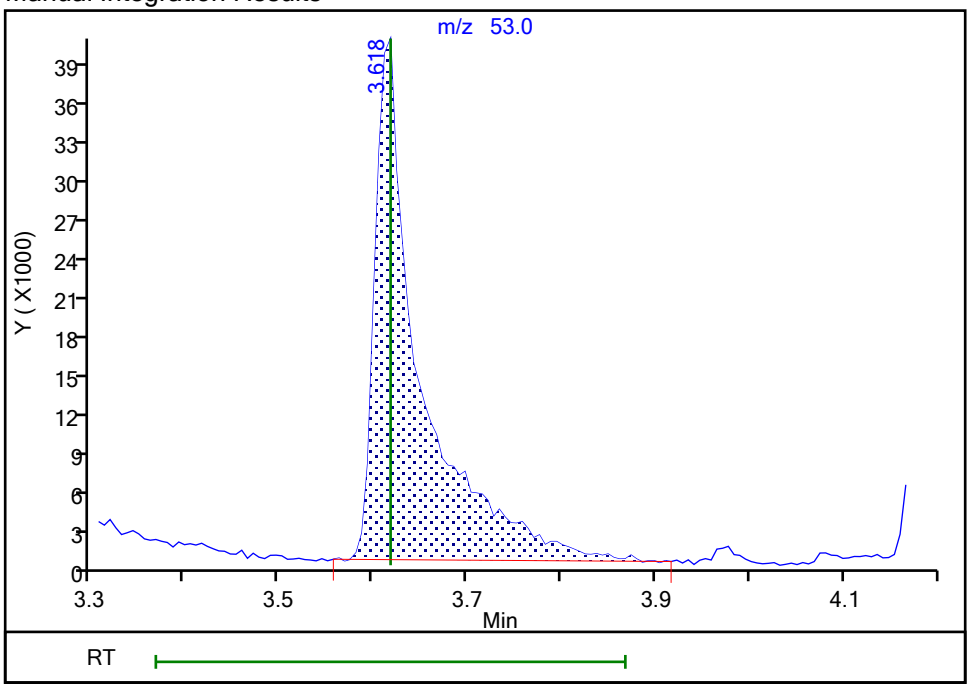
Processing Integration Results

RT: 3.62
Area: 117504
Amount: 33.965762
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 134022
Amount: 38.740463
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:32:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

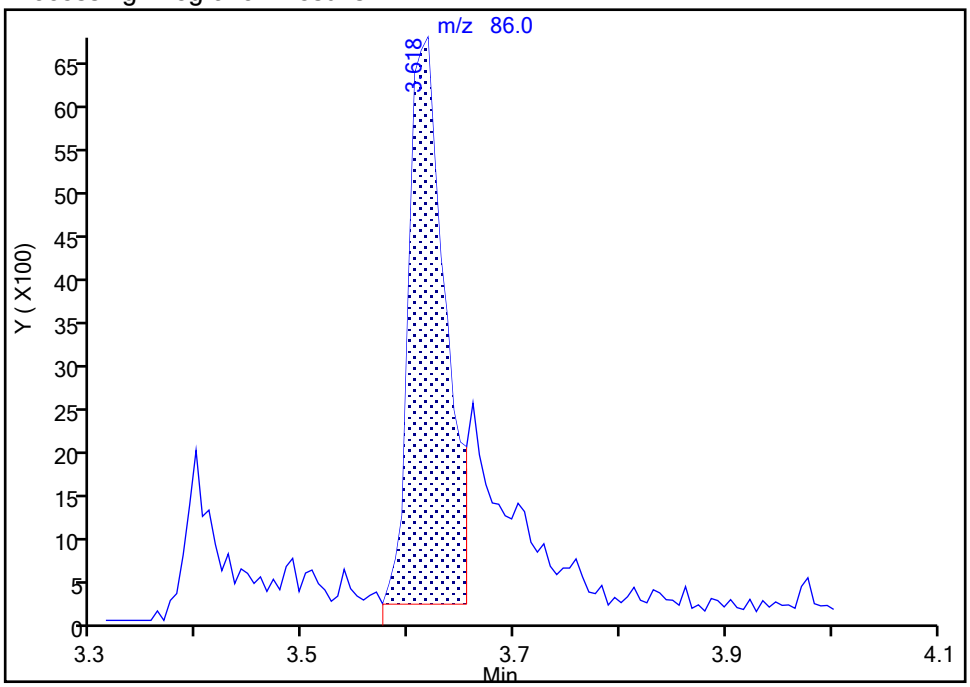
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

33 Vinyl acetate, CAS: 108-05-4

Signal: 1

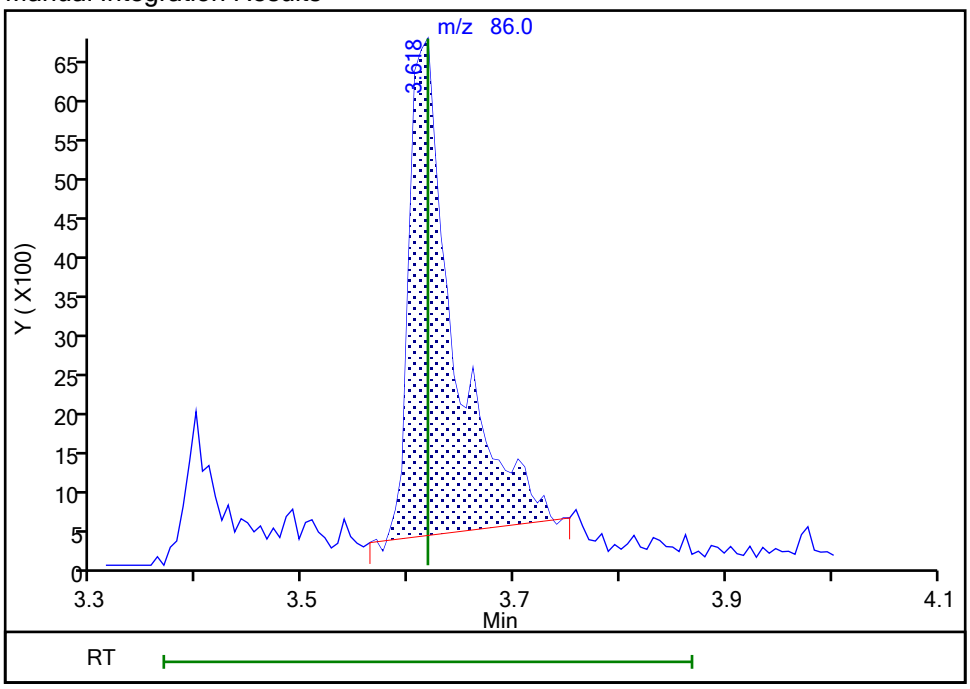
Processing Integration Results

RT: 3.62
Area: 15876
Amount: 49.566778
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 18664
Amount: 56.899175
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:32:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

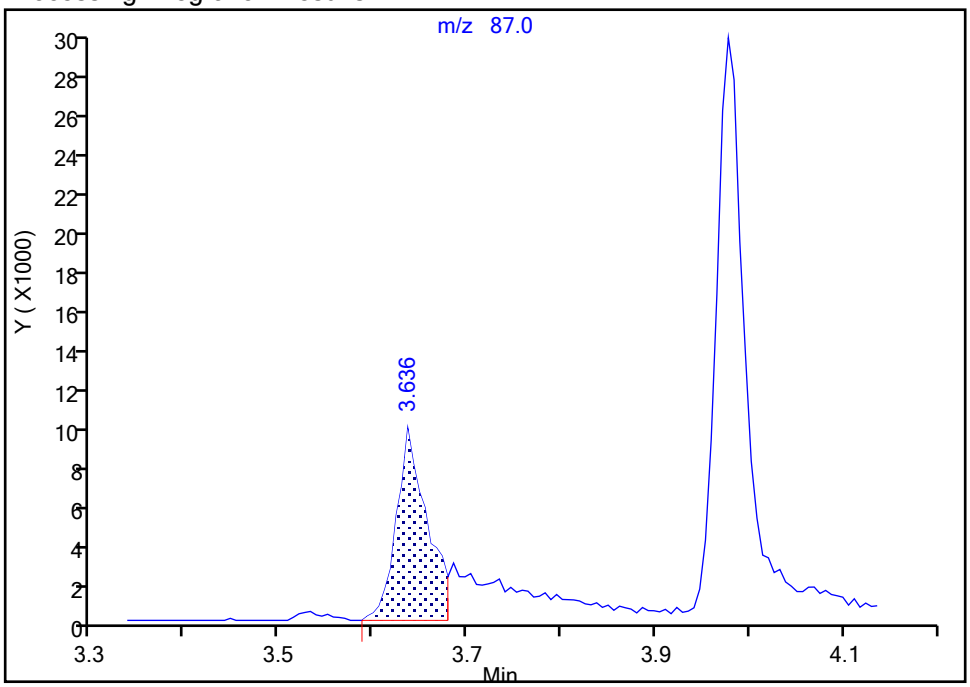
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

36 Isopropyl ether, CAS: 108-20-3

Signal: 1

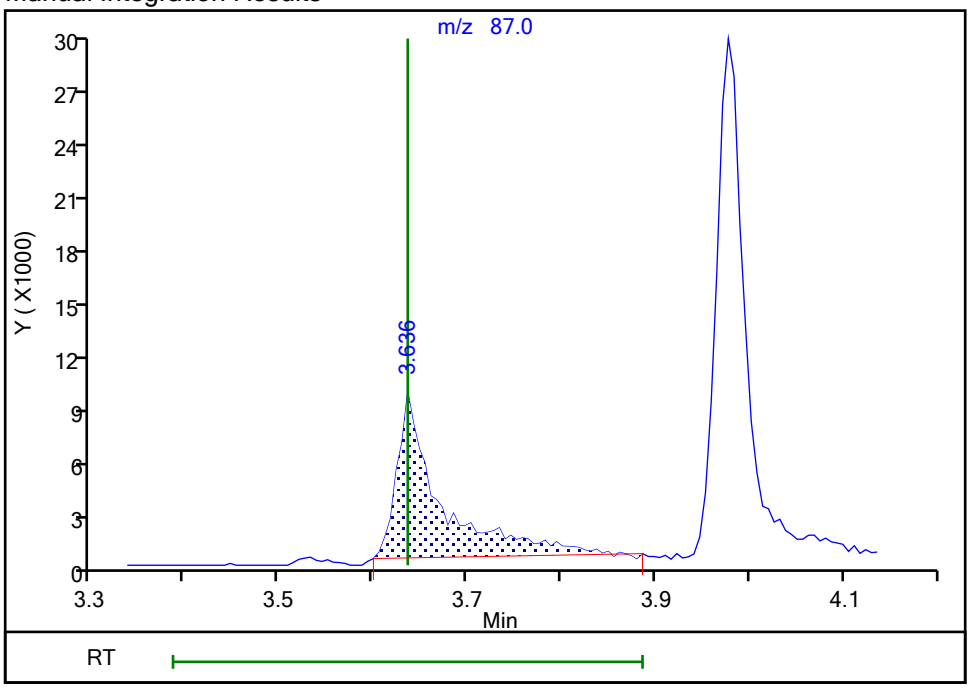
Processing Integration Results

RT: 3.64
Area: 22171
Amount: 34.372834
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 29321
Amount: 45.457844
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:32:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

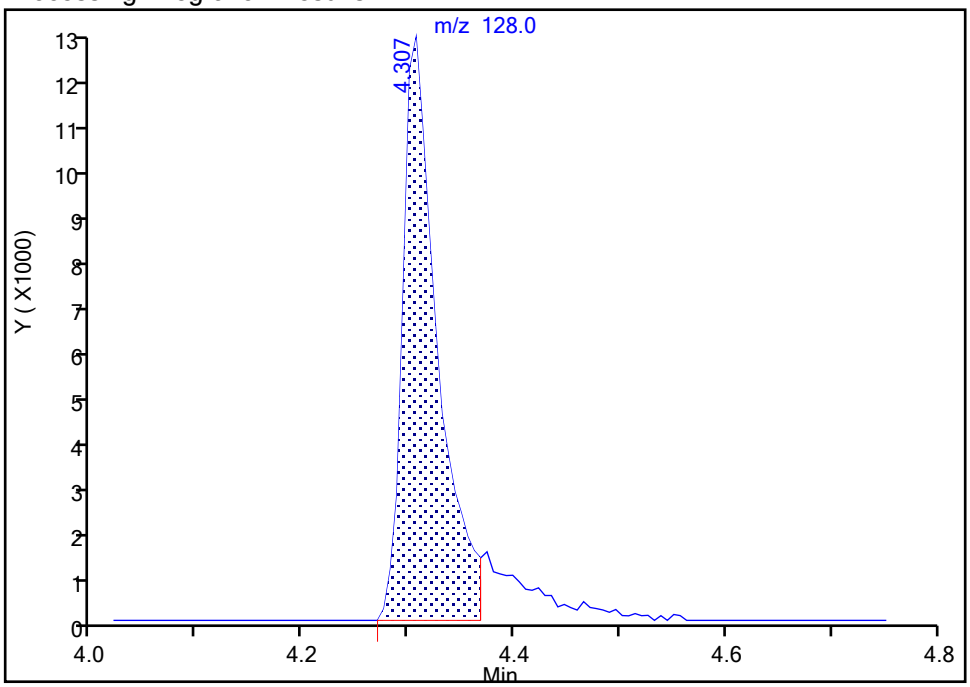
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

42 Chlorobromomethane, CAS: 74-97-5

Signal: 1

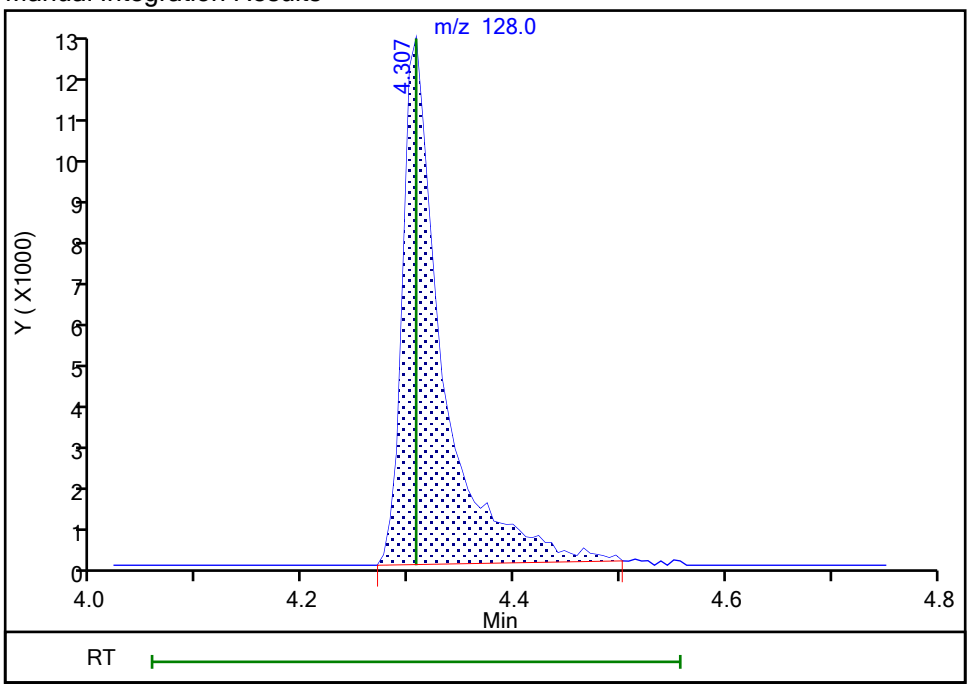
Processing Integration Results

RT: 4.31
Area: 29725
Amount: 38.871258
Amount Units: ug/l



Manual Integration Results

RT: 4.31
Area: 33564
Amount: 43.891503
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:32:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

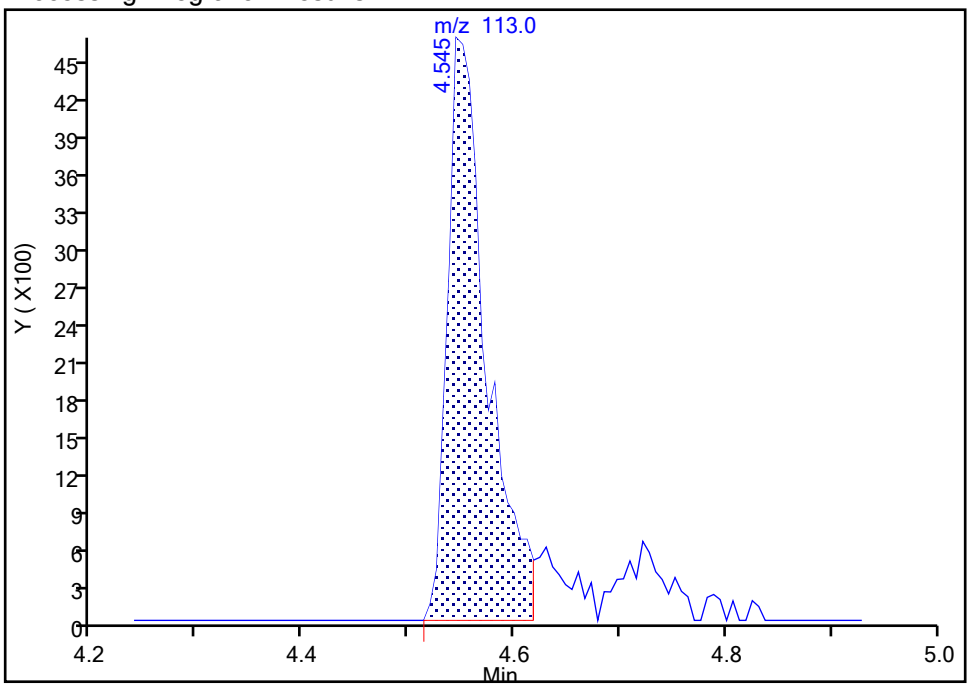
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

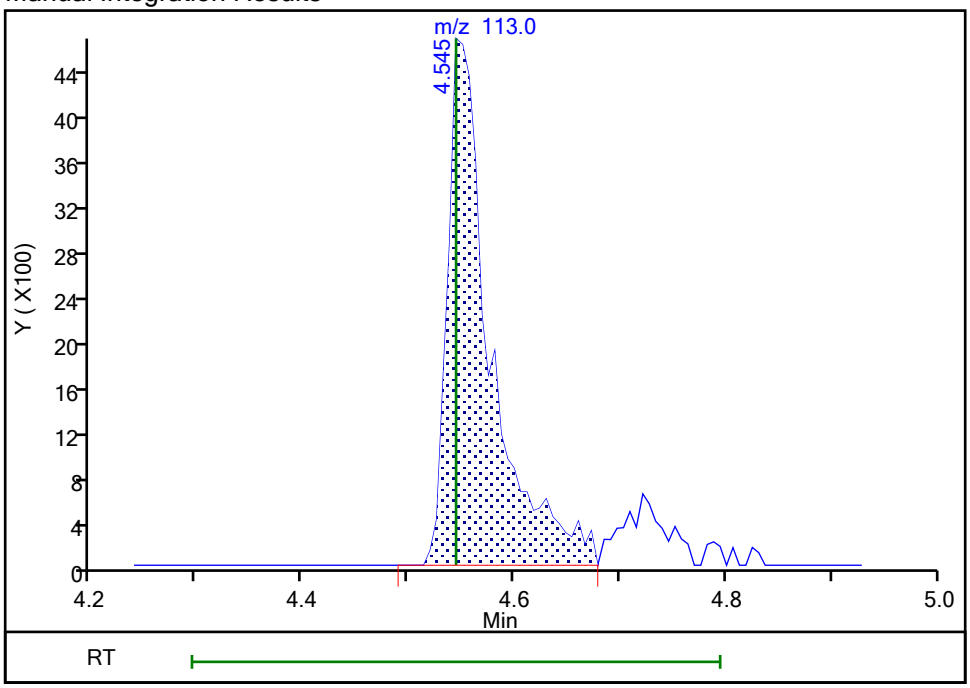
Processing Integration Results

RT: 4.54
Area: 11845
Amount: 49.970454
Amount Units: ug/l



Manual Integration Results

RT: 4.54
Area: 13033
Amount: 54.982265
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:15:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

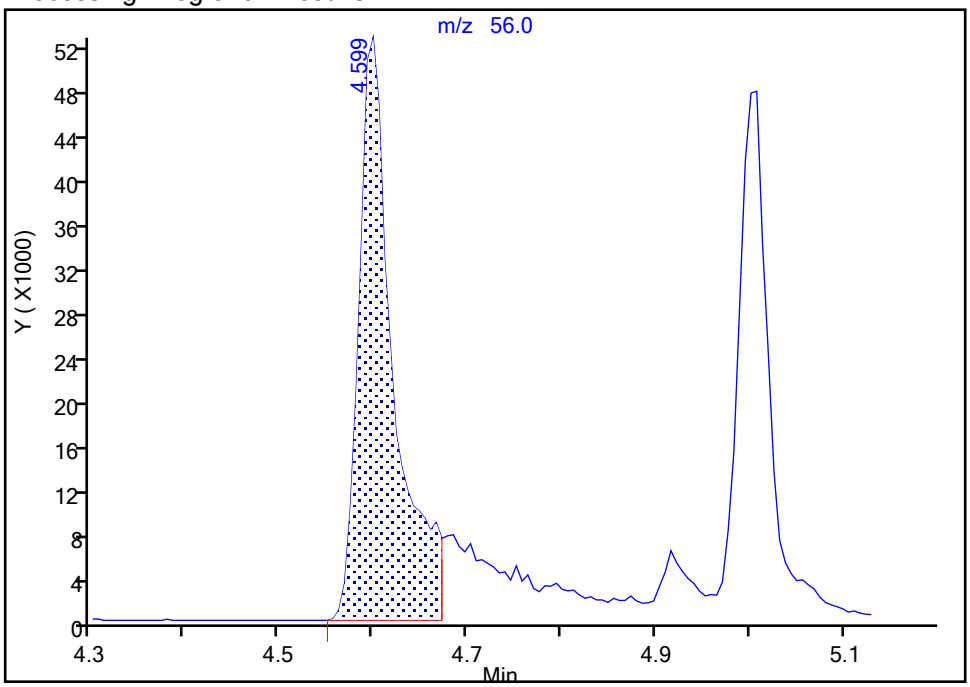
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

47 Cyclohexane, CAS: 110-82-7

Signal: 1

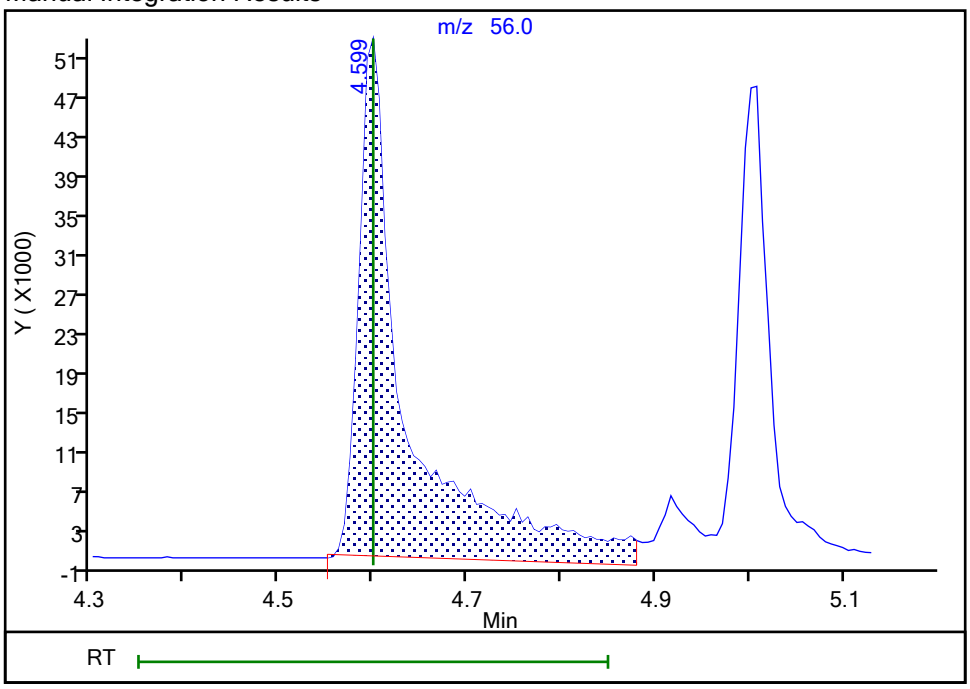
Processing Integration Results

RT: 4.60
Area: 135964
Amount: 31.763744
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 185582
Amount: 43.355441
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:32:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

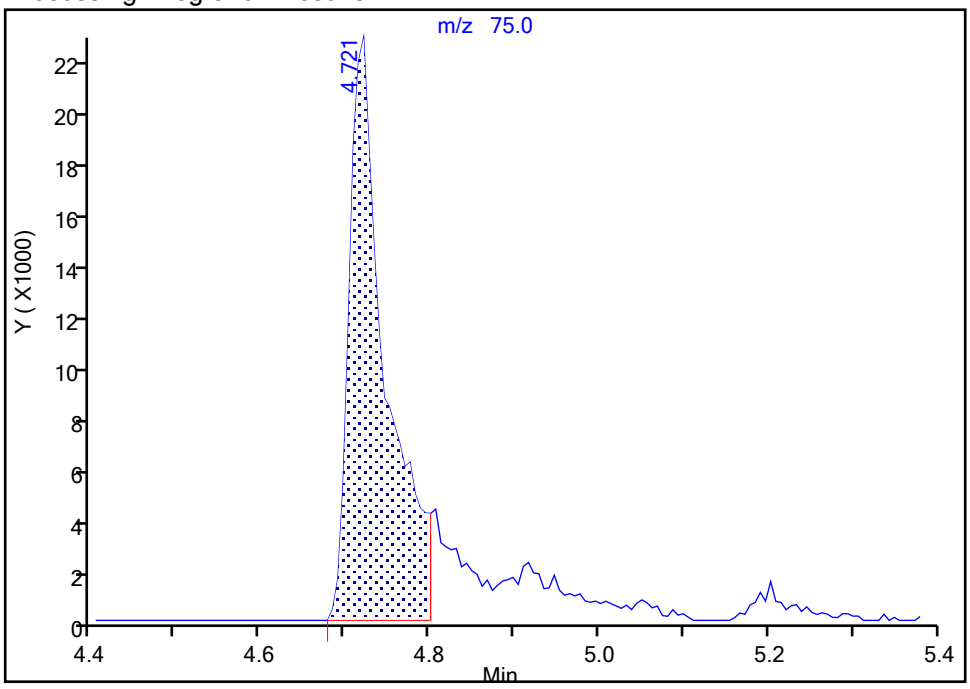
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

49 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

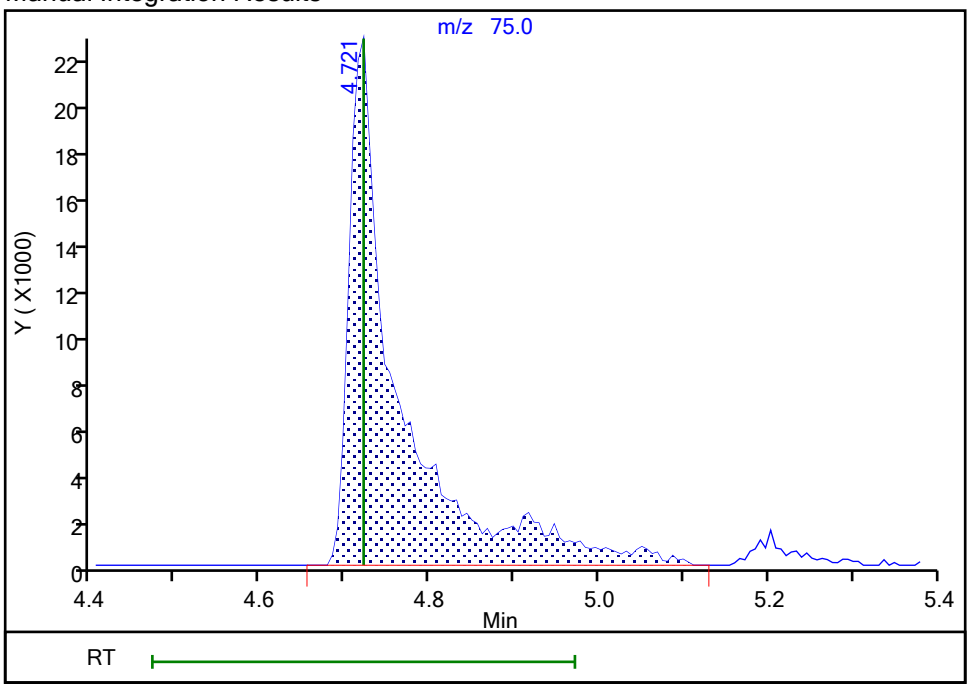
Processing Integration Results

RT: 4.72
Area: 66850
Amount: 33.767538
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 89629
Amount: 45.273756
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:32:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

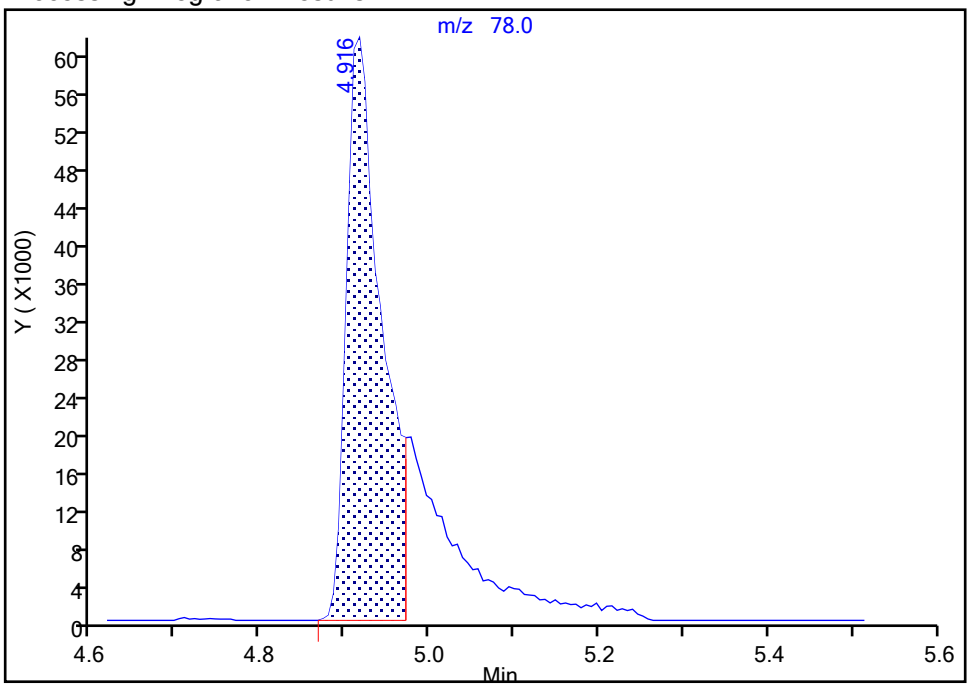
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

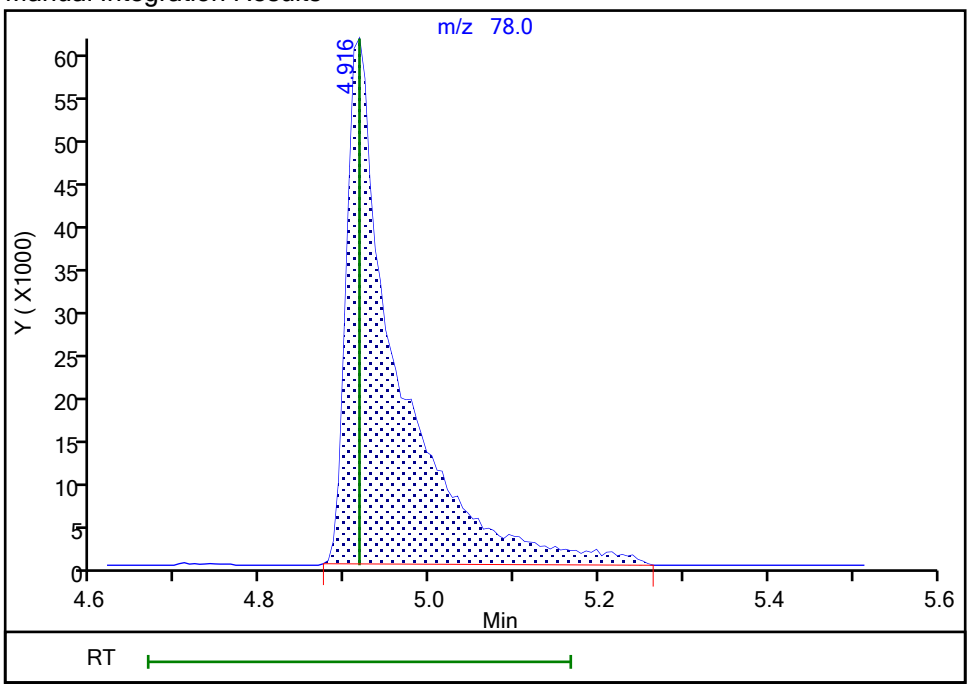
Processing Integration Results

RT: 4.92
Area: 181067
Amount: 30.704082
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 258677
Amount: 43.864646
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

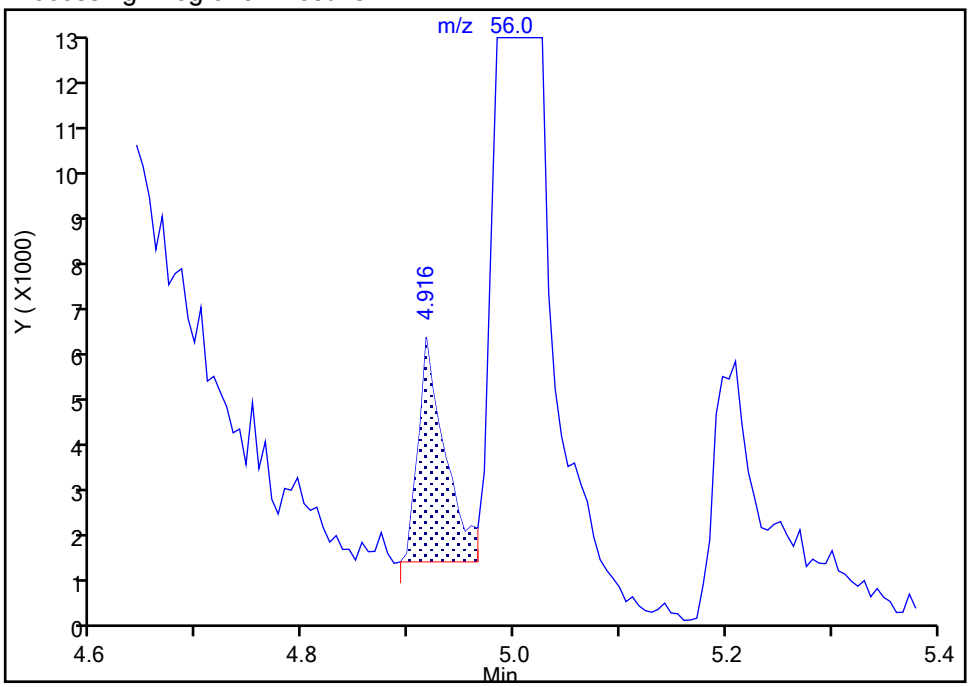
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

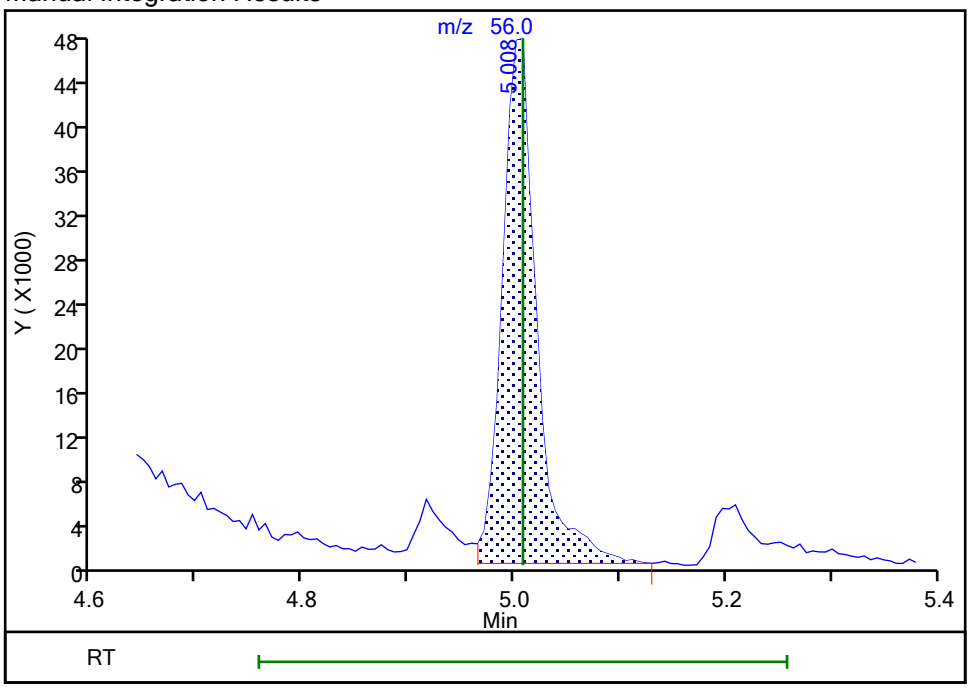
Processing Integration Results

RT: 4.92
Area: 8280
Amount: 73.183005
Amount Units: ug/l



Manual Integration Results

RT: 5.01
Area: 106433
Amount: 940.7110
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:15
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

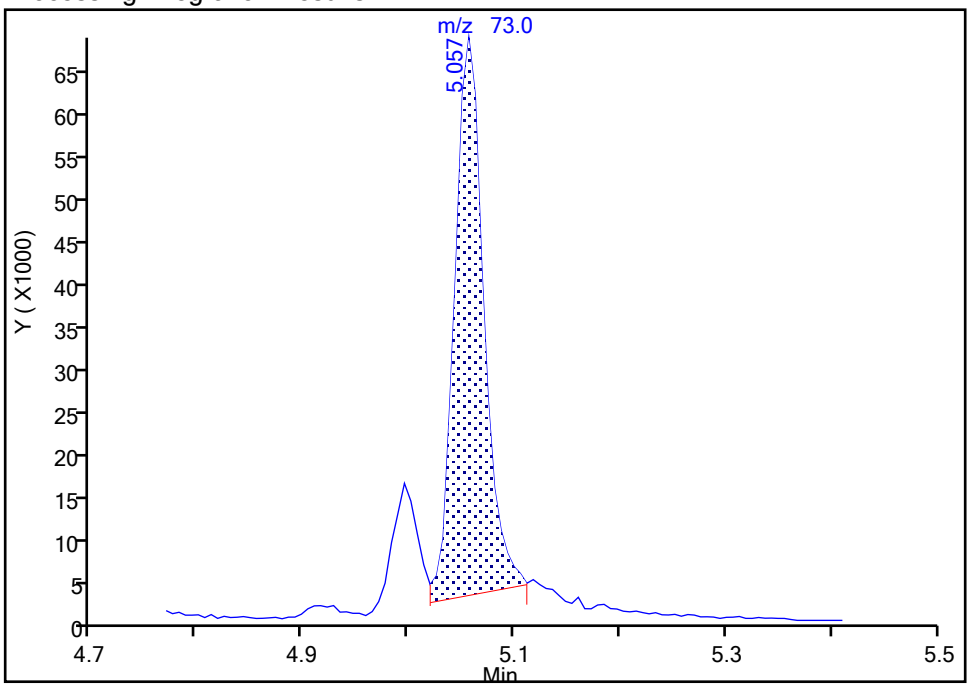
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

52 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

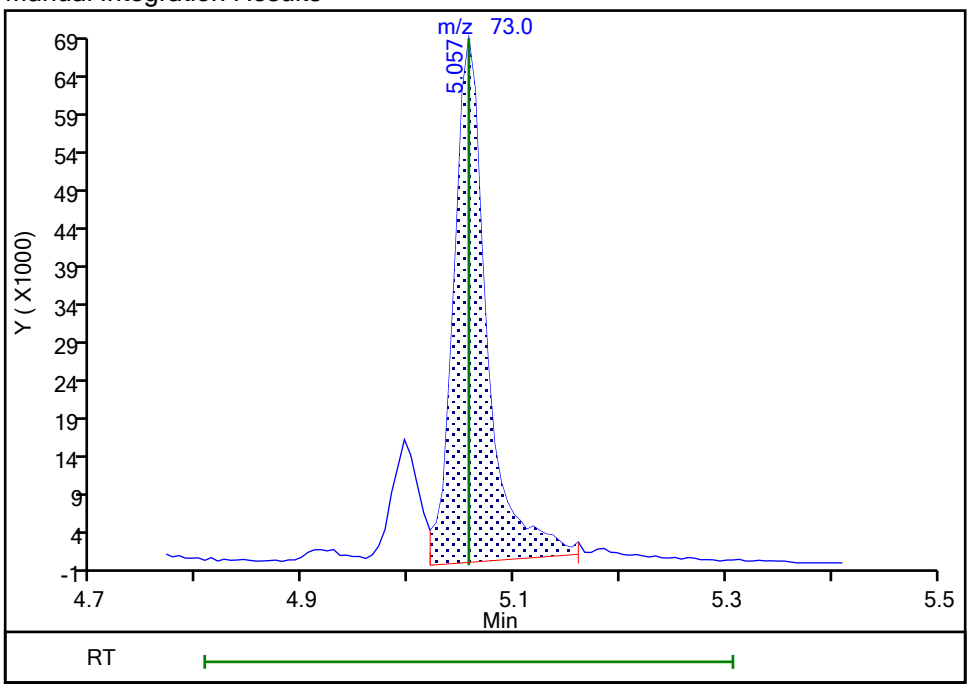
Processing Integration Results

RT: 5.06
Area: 126777
Amount: 39.575973
Amount Units: ug/l



Manual Integration Results

RT: 5.06
Area: 151319
Amount: 47.237248
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

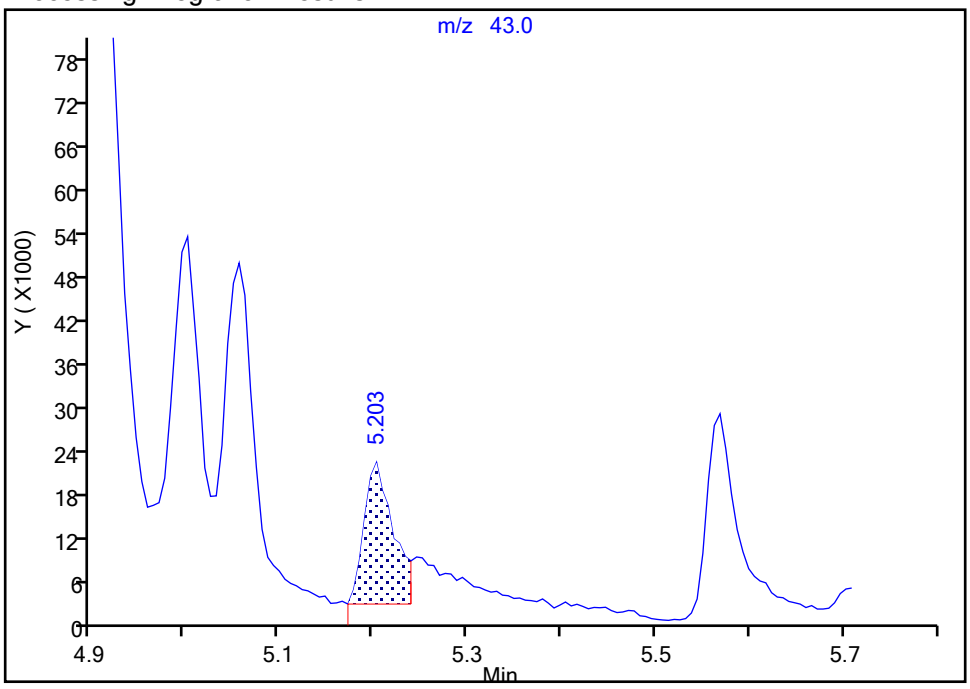
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

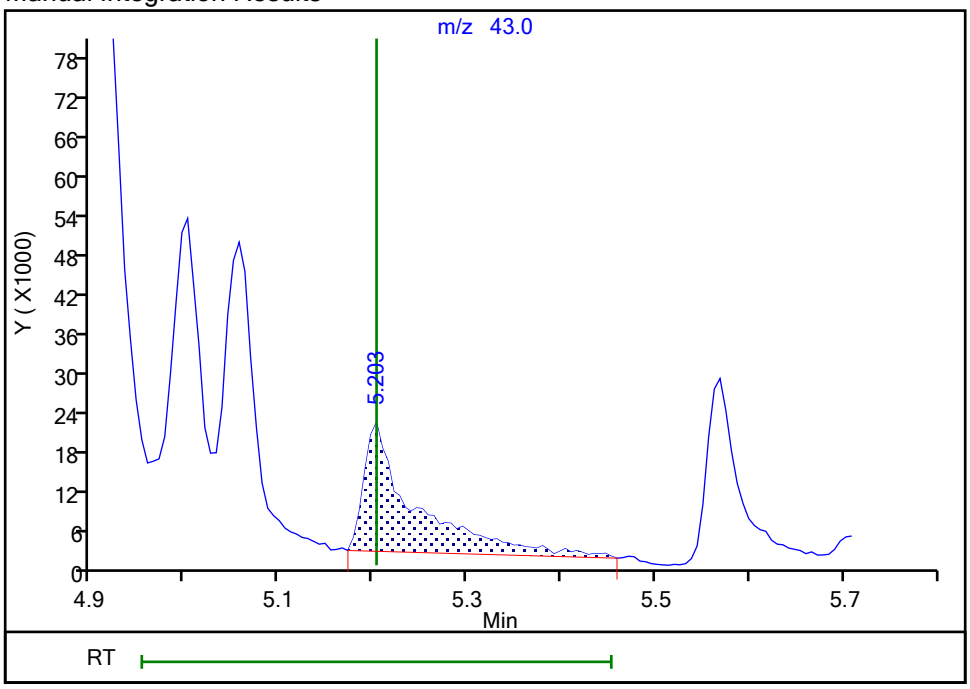
Processing Integration Results

RT: 5.20
Area: 42780
Amount: 18.767920
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 73942
Amount: 31.188932
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

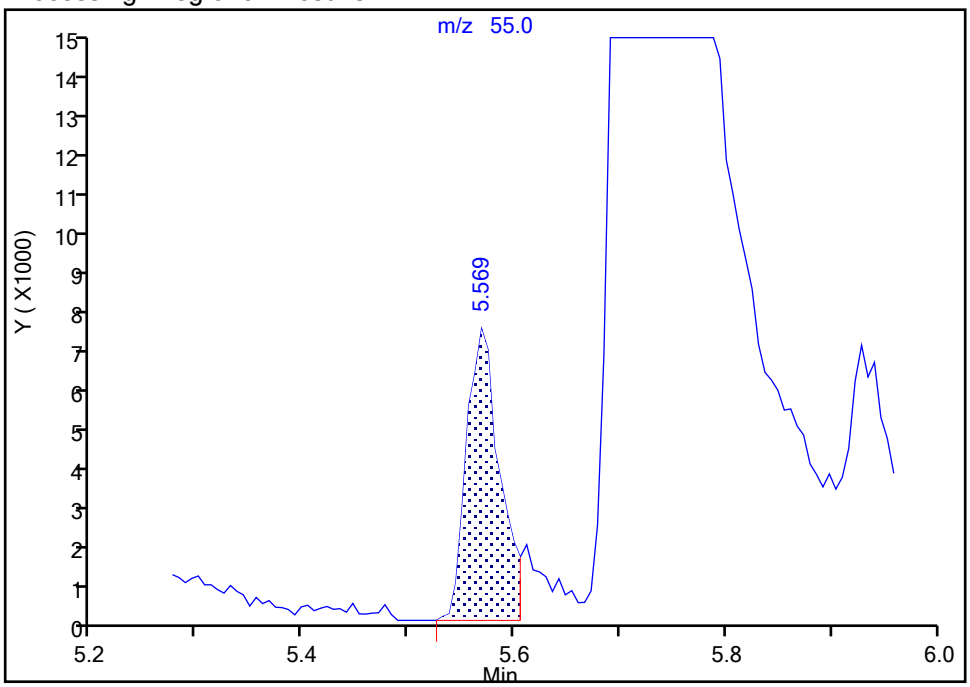
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

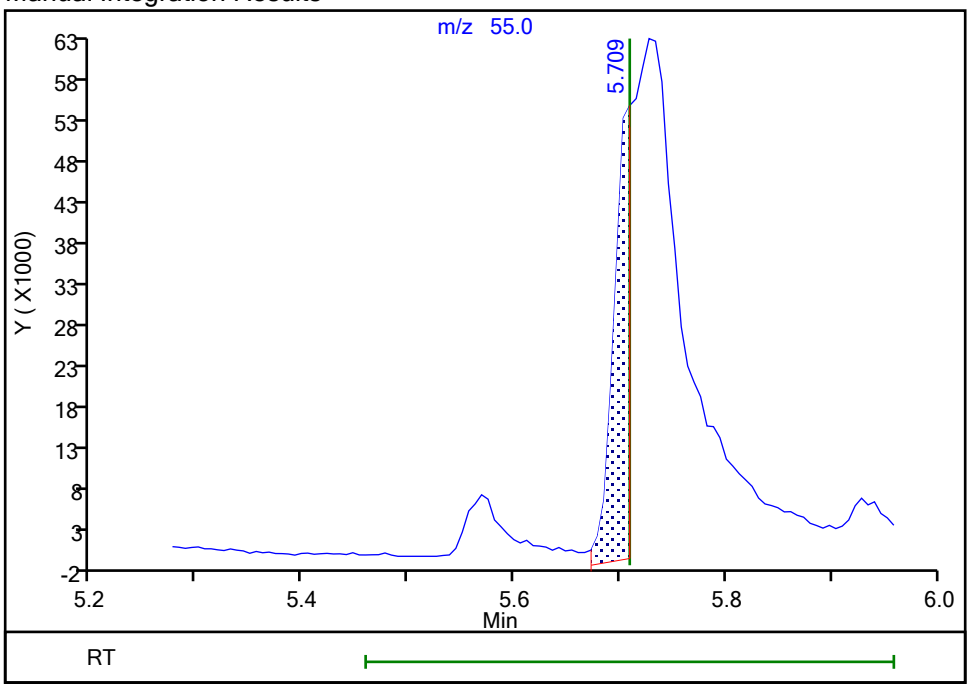
Processing Integration Results

RT: 5.57
Area: 16335
Amount: 7.041189
Amount Units: ug/l



Manual Integration Results

RT: 5.71
Area: 65253
Amount: 28.127256
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

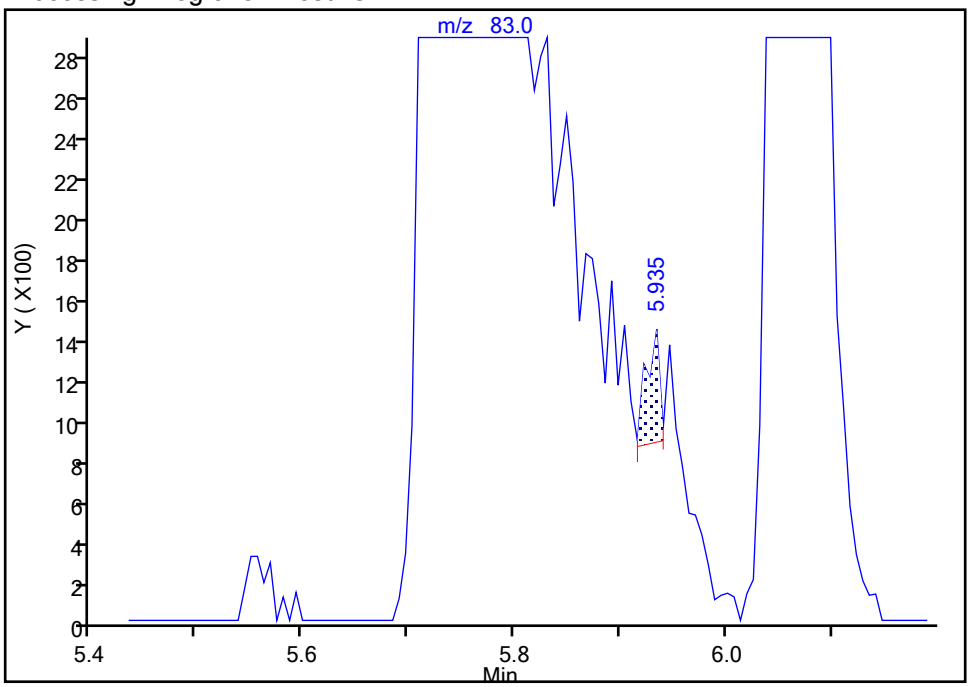
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

114 Methylcyclohexane, CAS: 108-87-2

Signal: 1

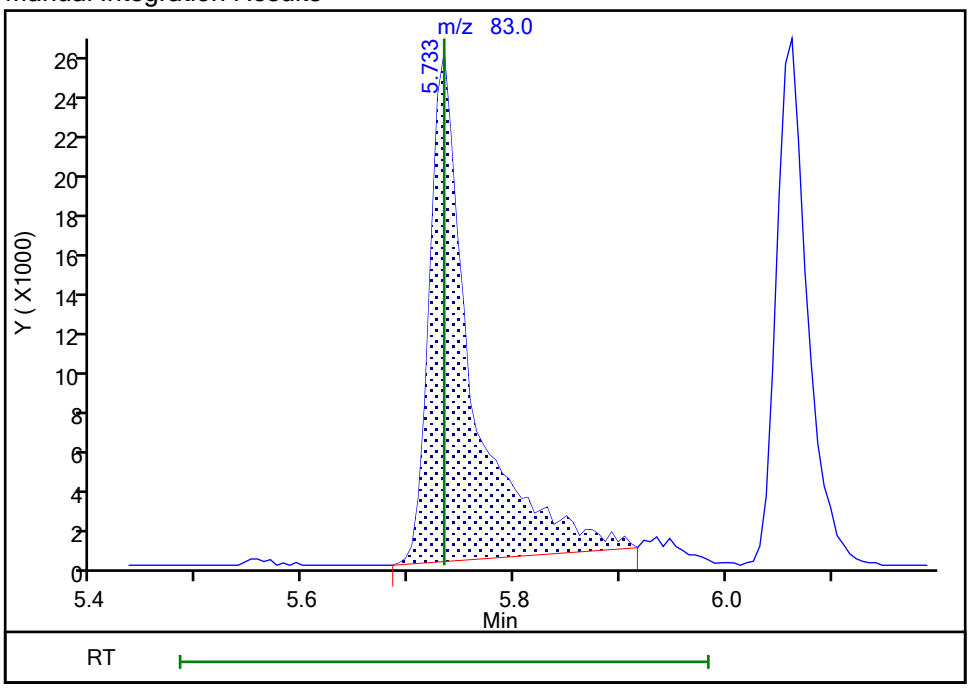
Processing Integration Results

RT: 5.93
Area: 501
Amount: 0.253849
Amount Units: ug/l



Manual Integration Results

RT: 5.73
Area: 72053
Amount: 36.508079
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

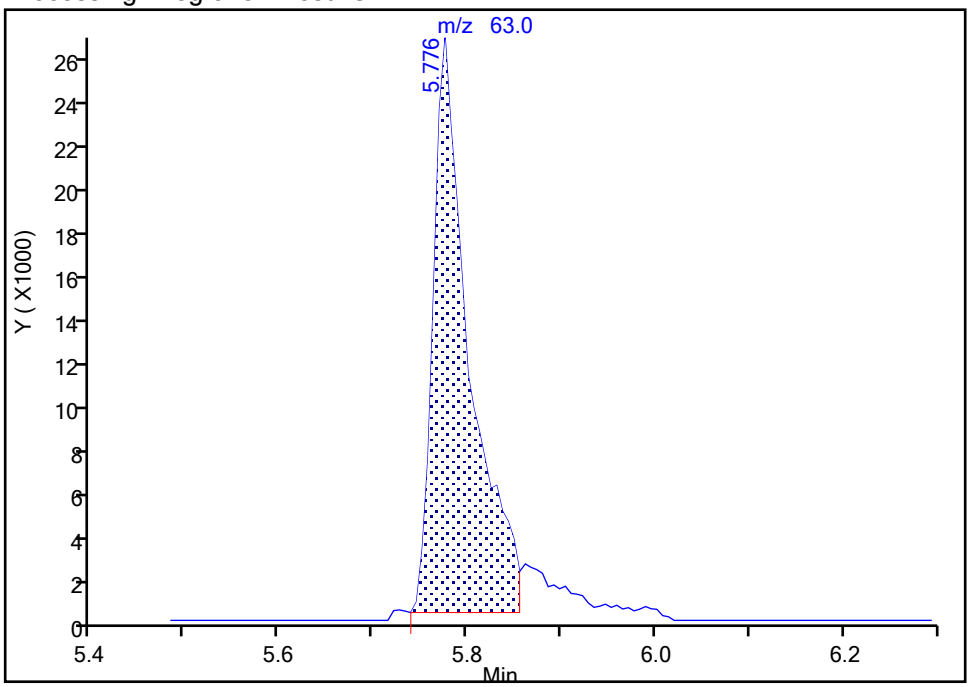
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

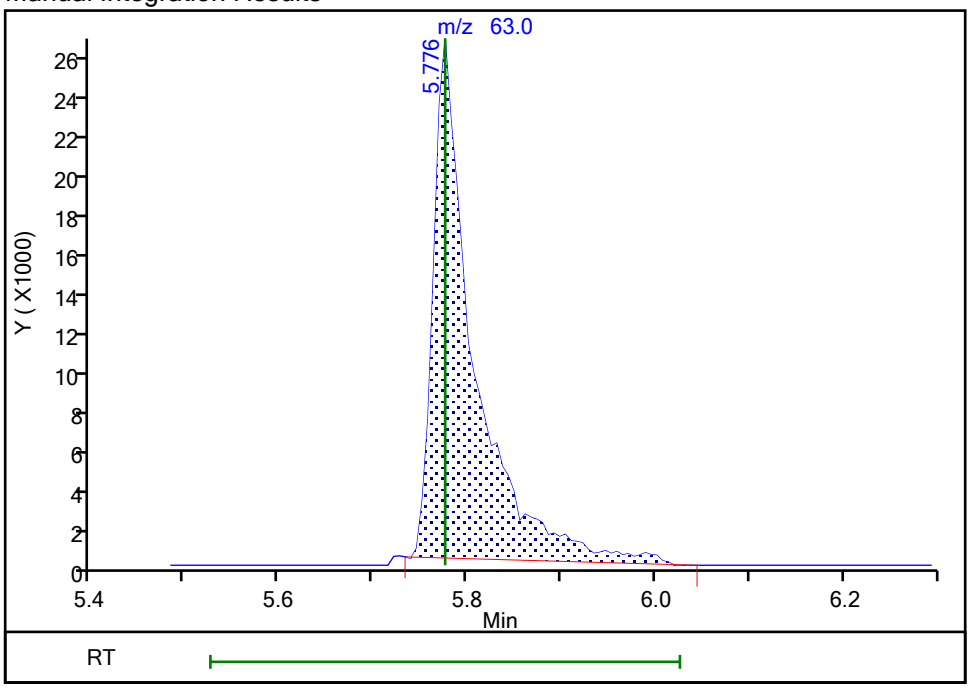
Processing Integration Results

RT: 5.78
Area: 68763
Amount: 39.038832
Amount Units: ug/l



Manual Integration Results

RT: 5.78
Area: 77325
Amount: 43.899738
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:33:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

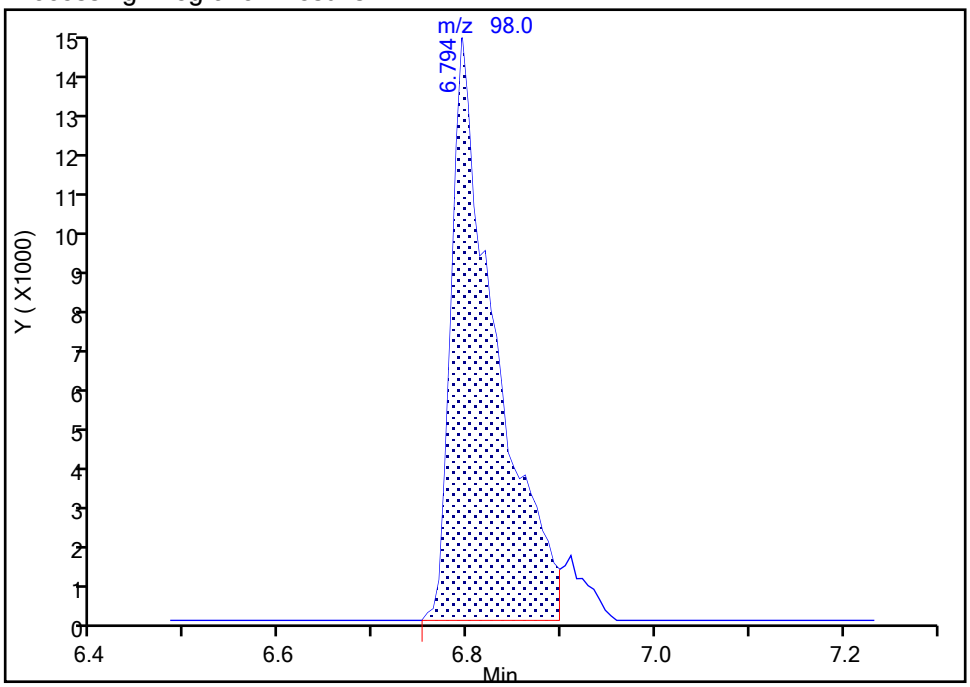
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

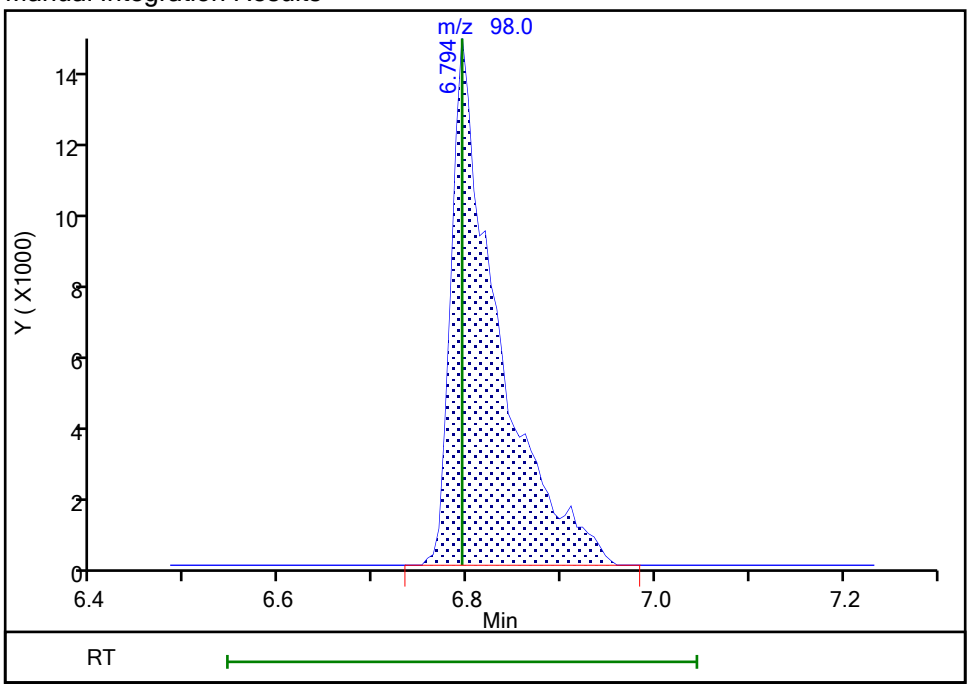
Processing Integration Results

RT: 6.79
Area: 46892
Amount: 48.519615
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 49648
Amount: 51.371275
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:16:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

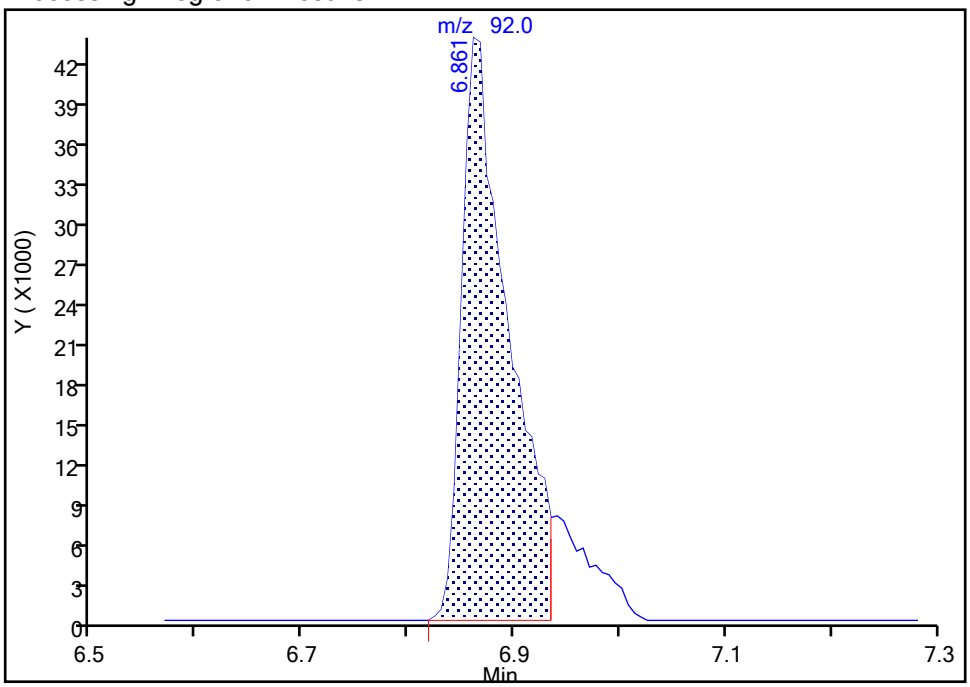
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 1

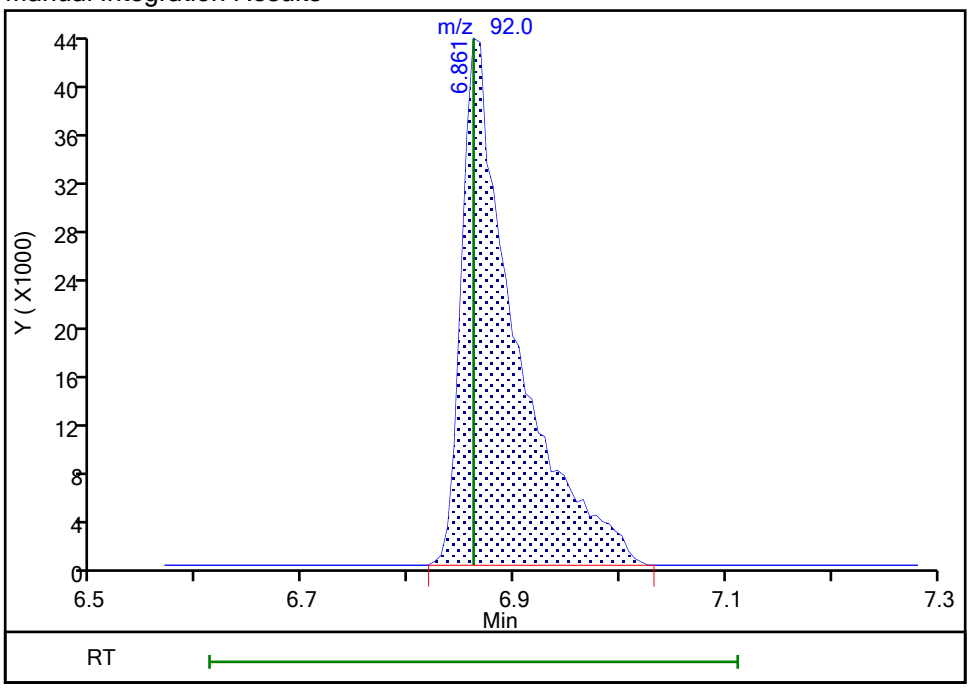
Processing Integration Results

RT: 6.86
Area: 135150
Amount: 36.065369
Amount Units: ug/l



Manual Integration Results

RT: 6.86
Area: 155117
Amount: 41.393651
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:34:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

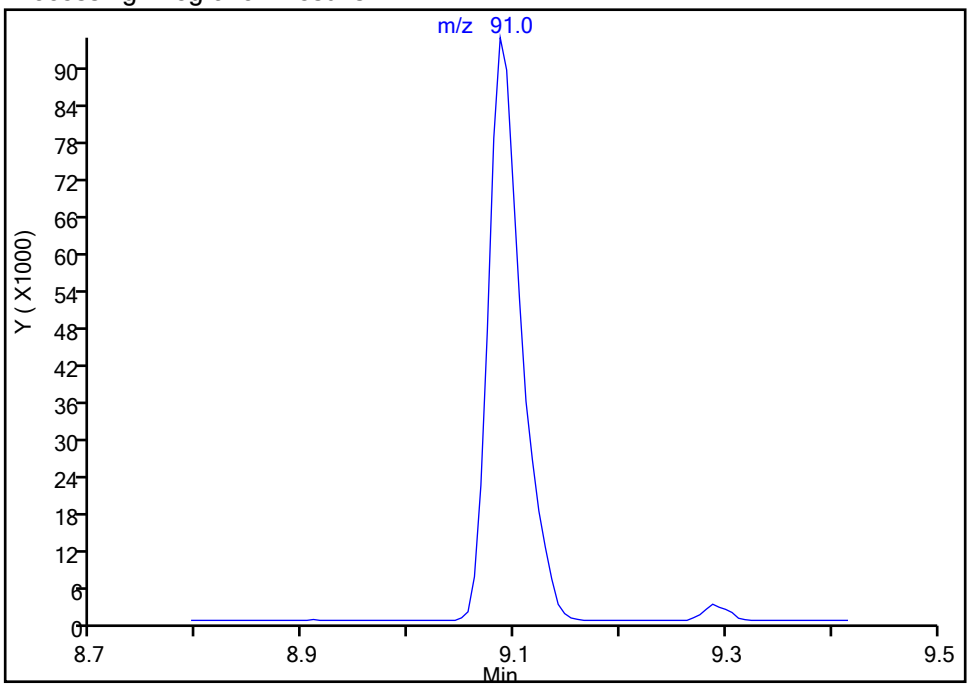
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4275.D
Injection Date: 19-Nov-2020 01:43:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

75 o-Xylene, CAS: 95-47-6

Signal: 1

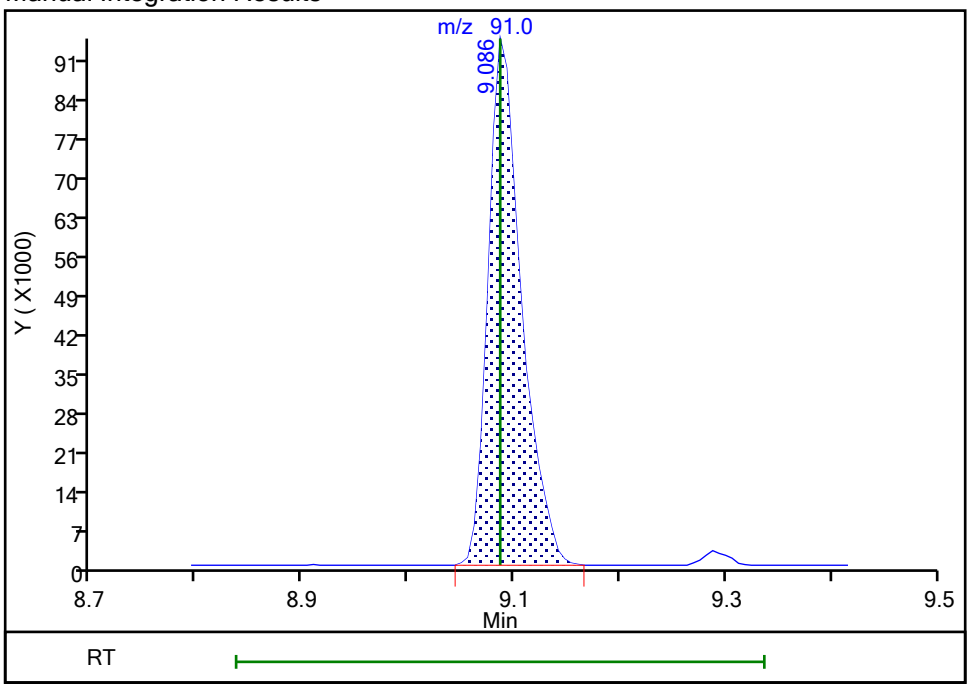
Not Detected
Expected RT: 9.09

Processing Integration Results



Manual Integration Results

RT: 9.09
Area: 206858
Amount: 45.233383
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:34:10
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Lab Sample ID: CCV 310-299687/4 Calibration Date: 11/19/2020 02:06

Instrument ID: Hobbes Calib Start Date: 11/09/2020 03:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 11/09/2020 15:00

Lab File ID: H4276.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.704	1.347	0.1000	15.8	20.0	-20.9	50.0
Chloromethane	Ave	4.537	4.431	0.1000	19.5	20.0	-2.3	50.0
Vinyl chloride	Ave	2.546	2.117	0.1000	16.6	20.0	-16.8	20.0
1,3-Butadiene	Ave	2.895	2.448		16.9	20.0	-15.4	20.0
Bromomethane	Ave	0.8139	0.6970	0.1000	17.1	20.0	-14.4	50.0
Chloroethane	Ave	1.185	1.019	0.1000	17.2	20.0	-14.0	20.0
Dichlorofluoromethane	Ave	2.180	2.141		19.6	20.0	-1.8	20.0
Trichlorofluoromethane	Ave	1.907	1.832	0.1000	19.2	20.0	-3.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2084	0.2261		54.3	50.0	8.5	20.0
Toluene-d8 (Surr)	Ave	1.124	1.092		48.6	50.0	-2.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6434	0.6516		50.6	50.0	1.3	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Nov-2020 02:06:30 ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-003
Operator ID: Instrument ID: Hobbes
Sublist: chrom-HVOA8260NEW*sub25

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:14:56 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 03:32:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.984	-0.006	0	45614	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	96	54347	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	87	5213	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	91	50496	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	33025	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	92	12290	50.0	54.3	M
$ 6 Toluene-d8 (Surr)	98	6.788	6.794	-0.006	96	55126	50.0	48.6	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	21519	50.0	50.6	
$ 8 BFB	95	9.678	9.684	-0.006	80	27921	NR	NR	8
9 Dichlorodifluoromethane	85	1.118	1.124	-0.006	98	29291	20.0	15.8	M
10 Chloromethane	50	1.259	1.265	-0.006	99	96331	20.0	19.5	
11 Vinyl chloride	62	1.344	1.350	-0.006	96	46030	20.0	16.6	M
12 Butadiene	54	1.381	1.387	-0.006	91	53226	20.0	16.9	M
13 Bromomethane	94	1.612	1.612	0.000	90	15152	20.0	17.1	M
14 Chloroethane	64	1.704	1.698	0.006	92	22147	20.0	17.2	M
15 Dichlorofluoromethane	67	1.893	1.893	0.000	95	46541	20.0	19.6	M
16 Trichlorofluoromethane	101	1.929	1.929	0.000	98	39832	20.0	19.2	M

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test
Review Flags
M - Manually Integrated

Reagents:

VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_GASES_00414	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:14:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D

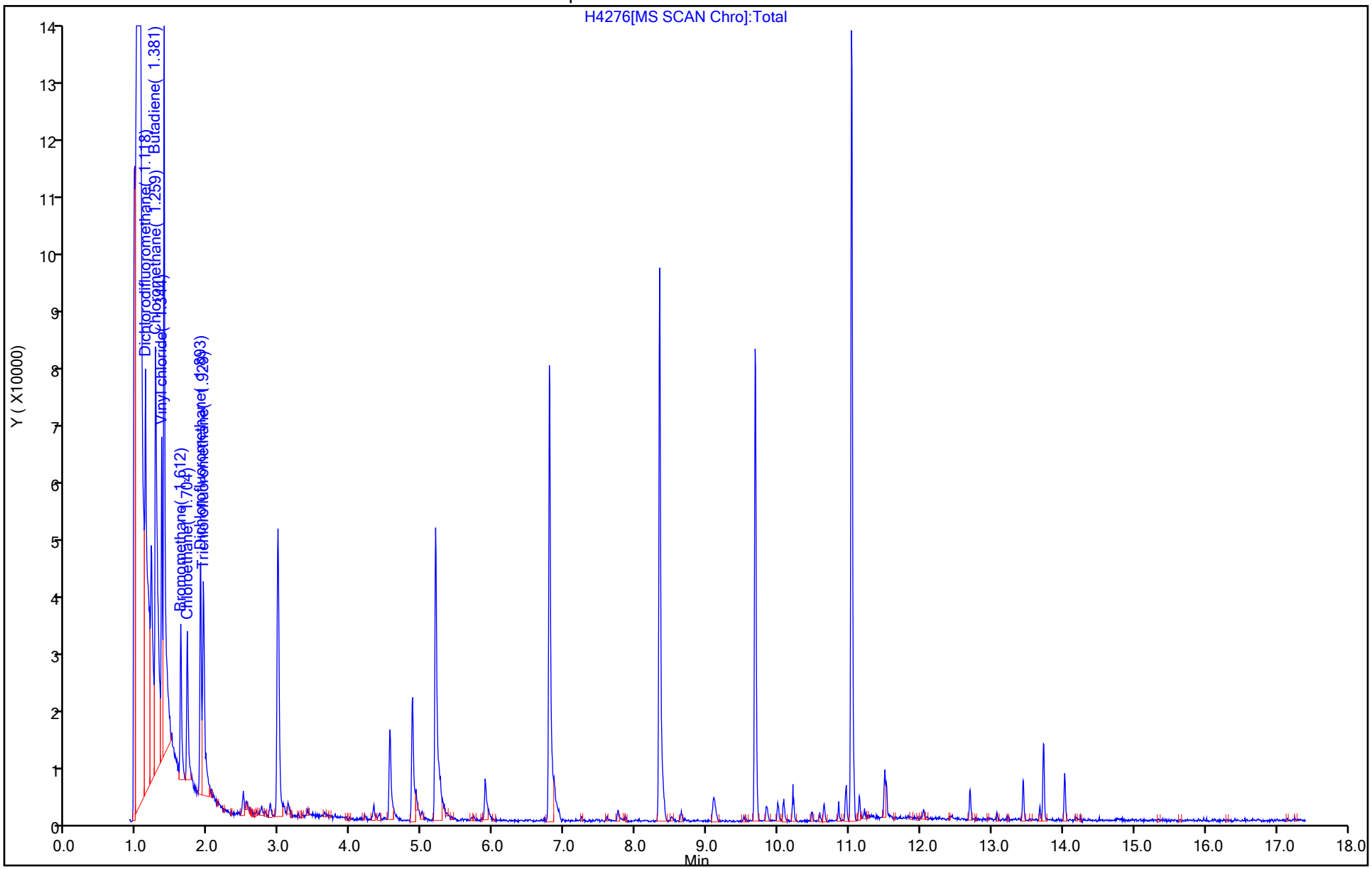
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes Operator ID:

Lims ID: CCV Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

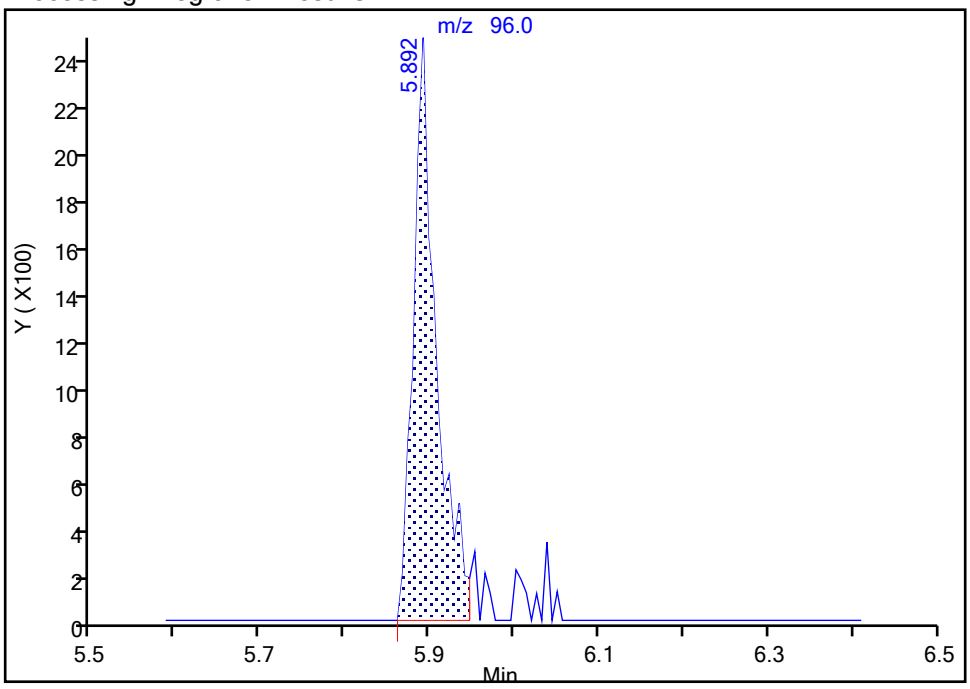
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

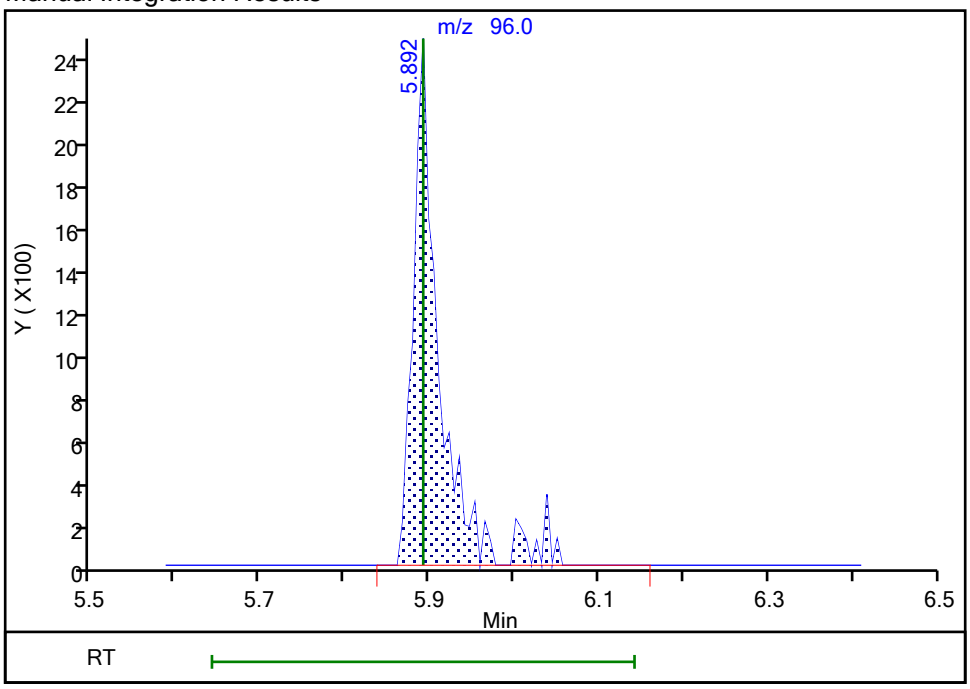
Processing Integration Results

RT: 5.89
Area: 4603
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5213
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:18:39
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

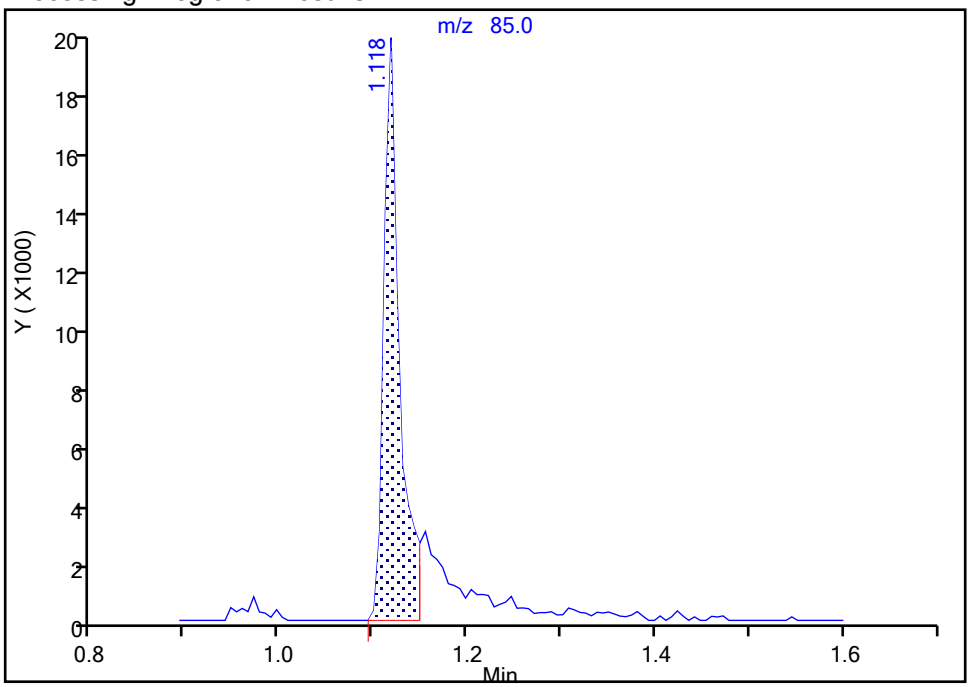
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

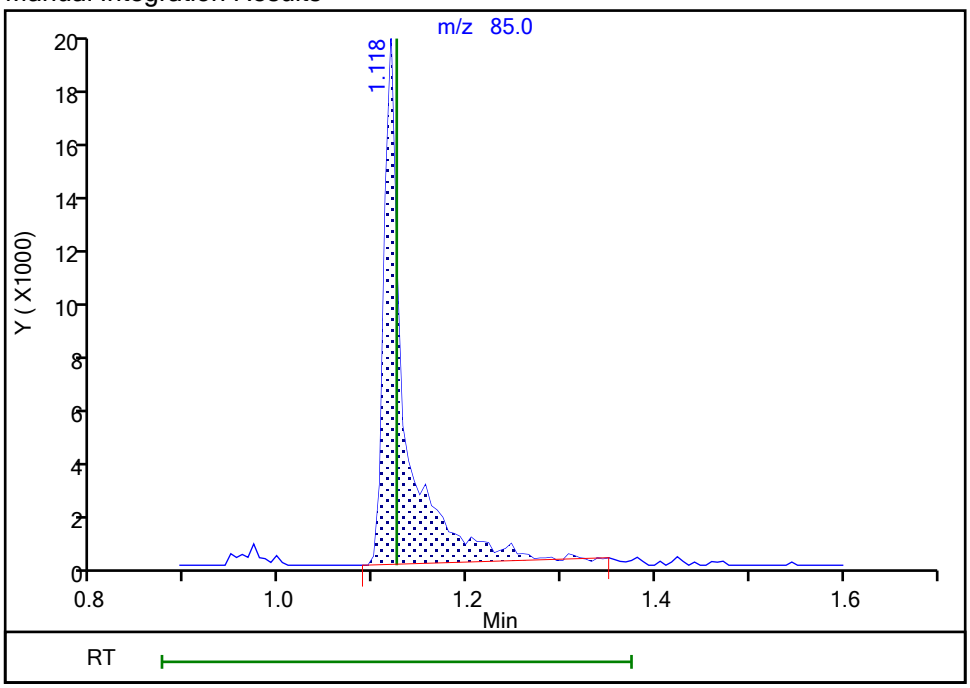
Processing Integration Results

RT: 1.12
Area: 22765
Amount: 12.291485
Amount Units: ug/l



Manual Integration Results

RT: 1.12
Area: 29291
Amount: 15.815062
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:18:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

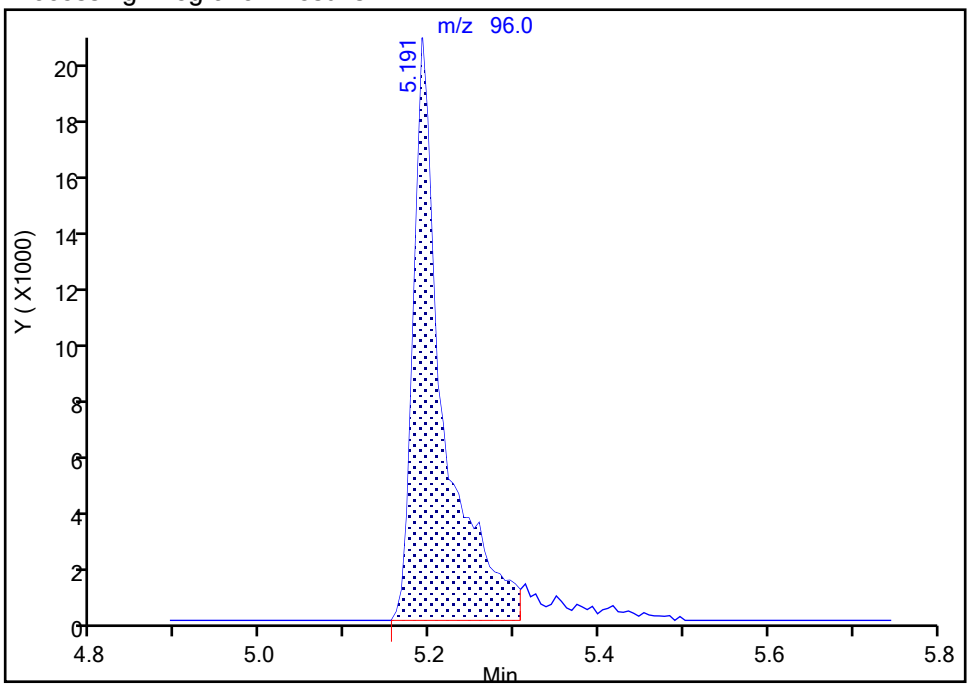
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

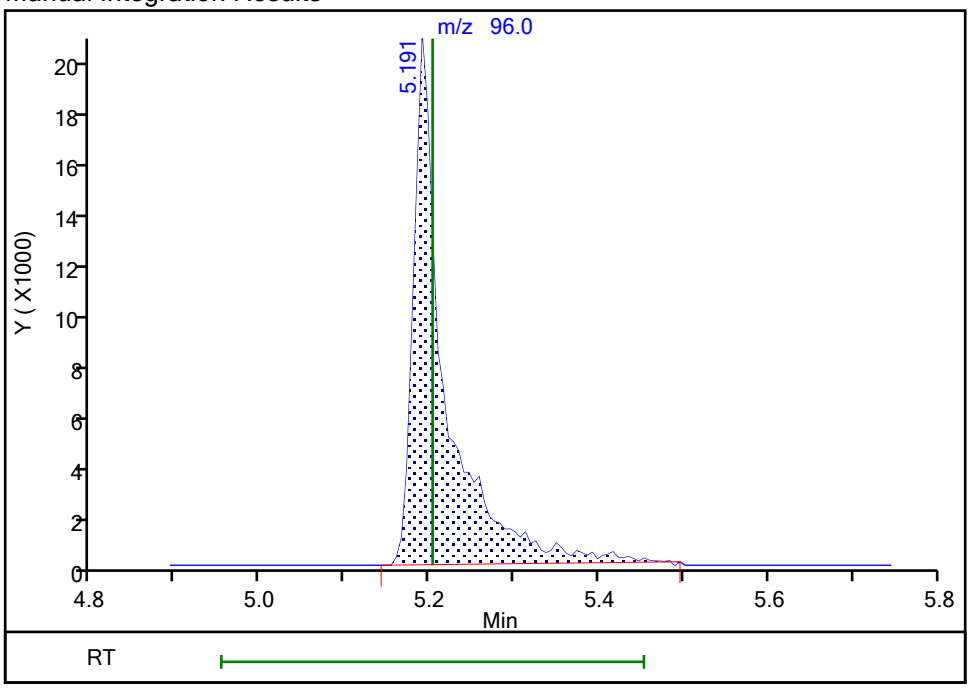
Processing Integration Results

RT: 5.19
Area: 50999
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 54347
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:35:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

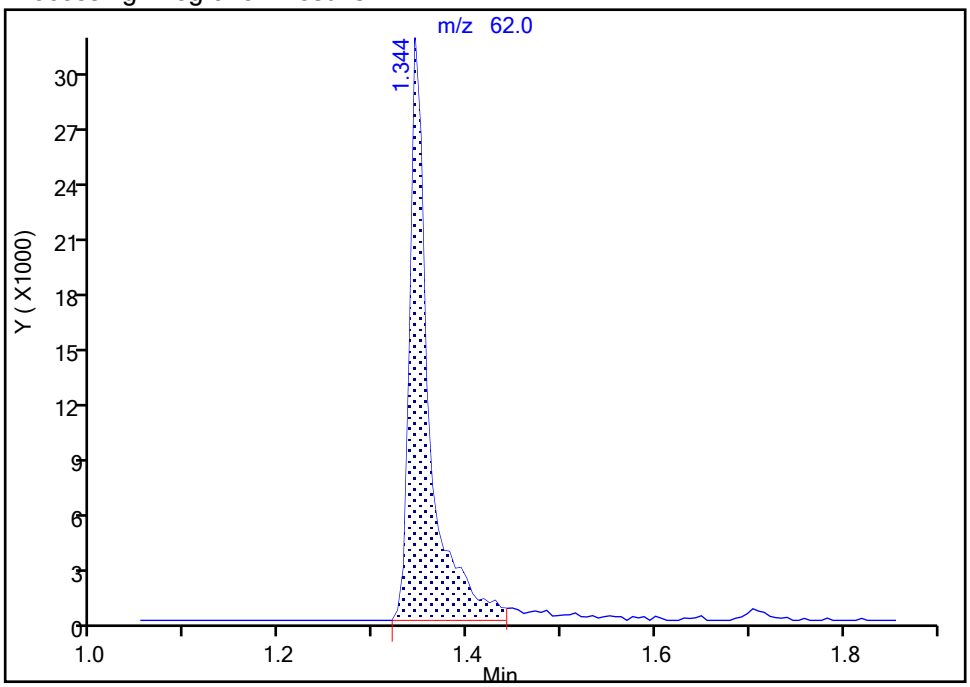
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

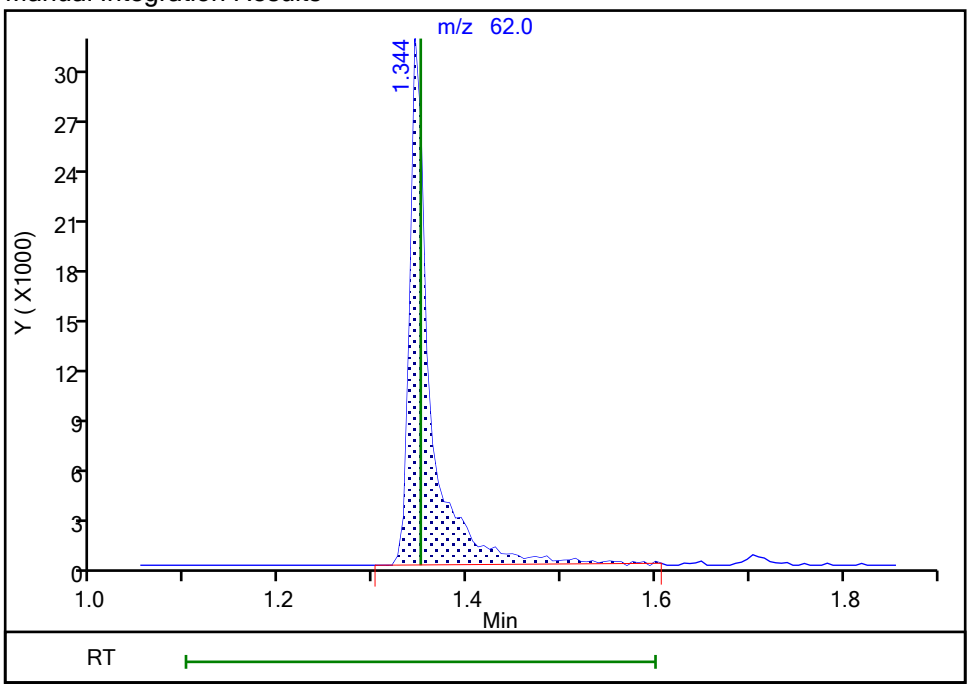
Processing Integration Results

RT: 1.34
Area: 44395
Amount: 16.044805
Amount Units: ug/l



Manual Integration Results

RT: 1.34
Area: 46030
Amount: 16.635711
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:18:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

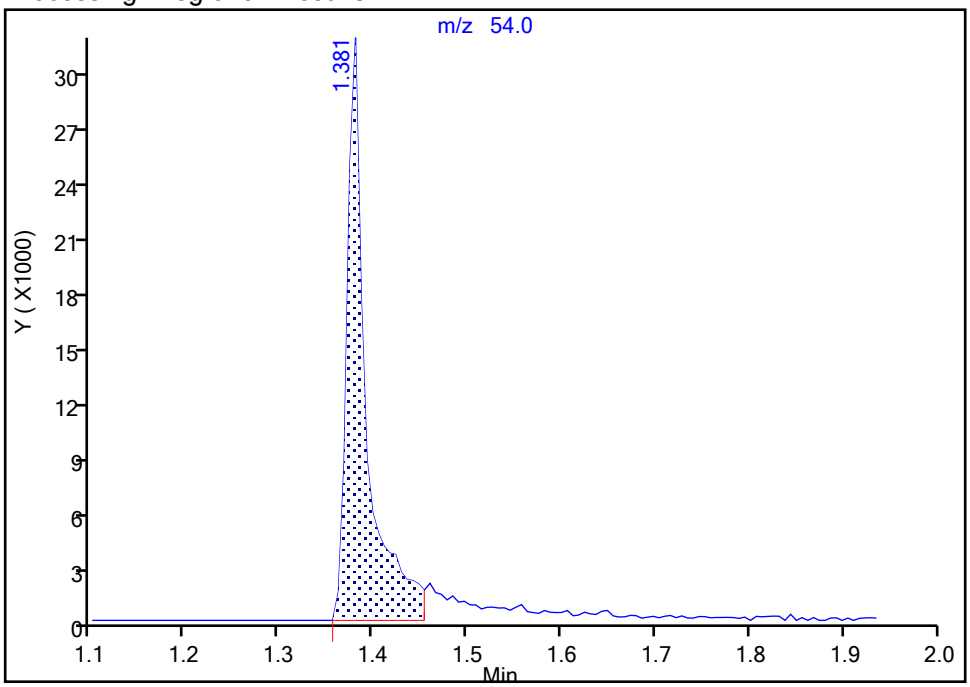
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

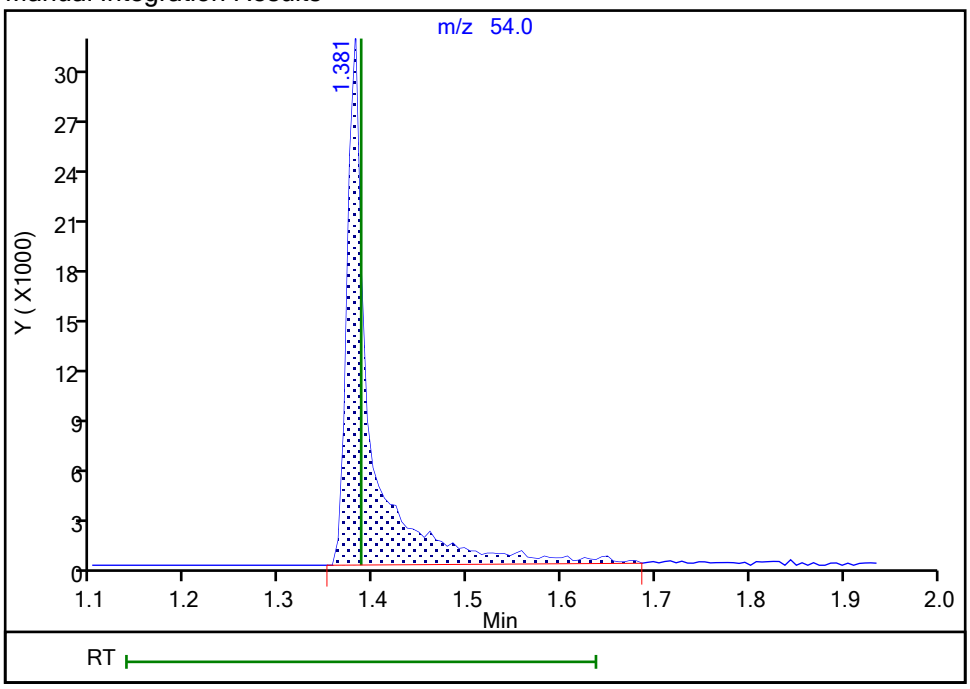
Processing Integration Results

RT: 1.38
Area: 45615
Amount: 14.497134
Amount Units: ug/l



Manual Integration Results

RT: 1.38
Area: 53226
Amount: 16.916024
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:35:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

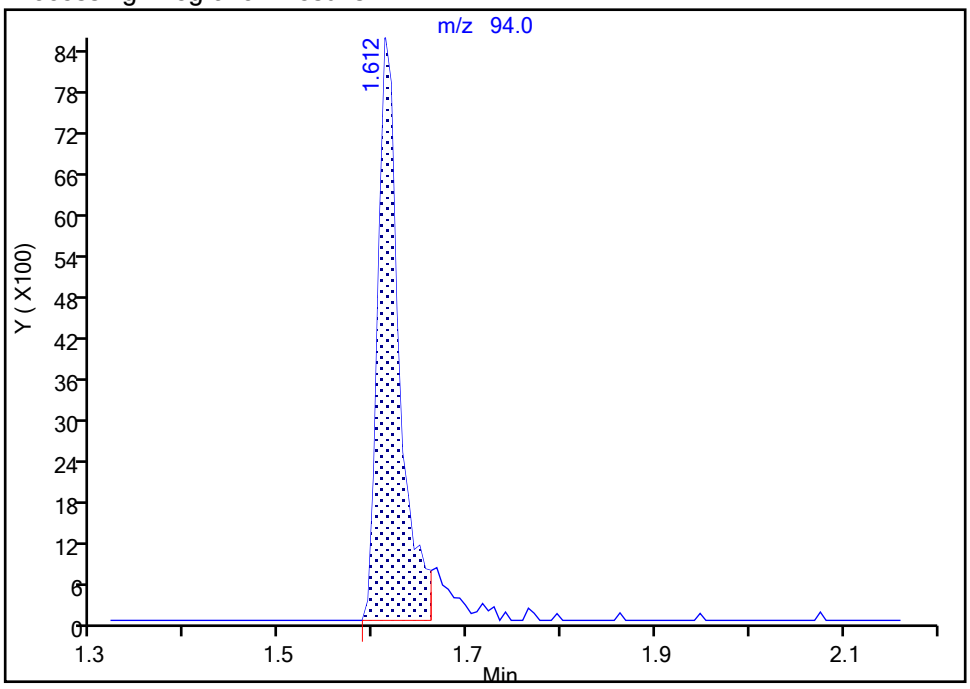
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

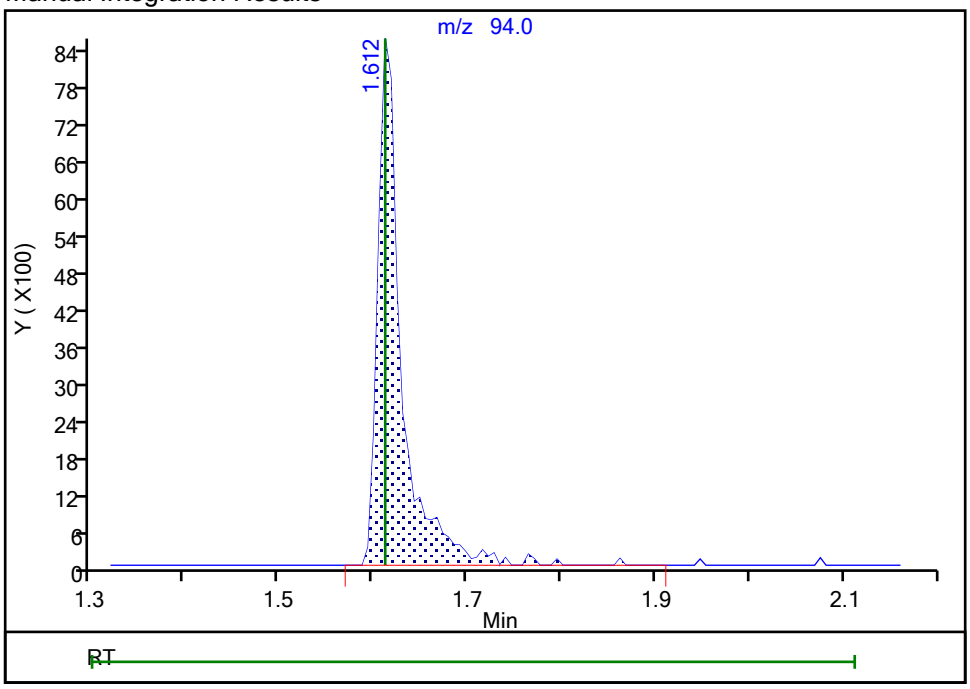
Processing Integration Results

RT: 1.61
Area: 13656
Amount: 15.435993
Amount Units: ug/l



Manual Integration Results

RT: 1.61
Area: 15152
Amount: 17.126989
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:18:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

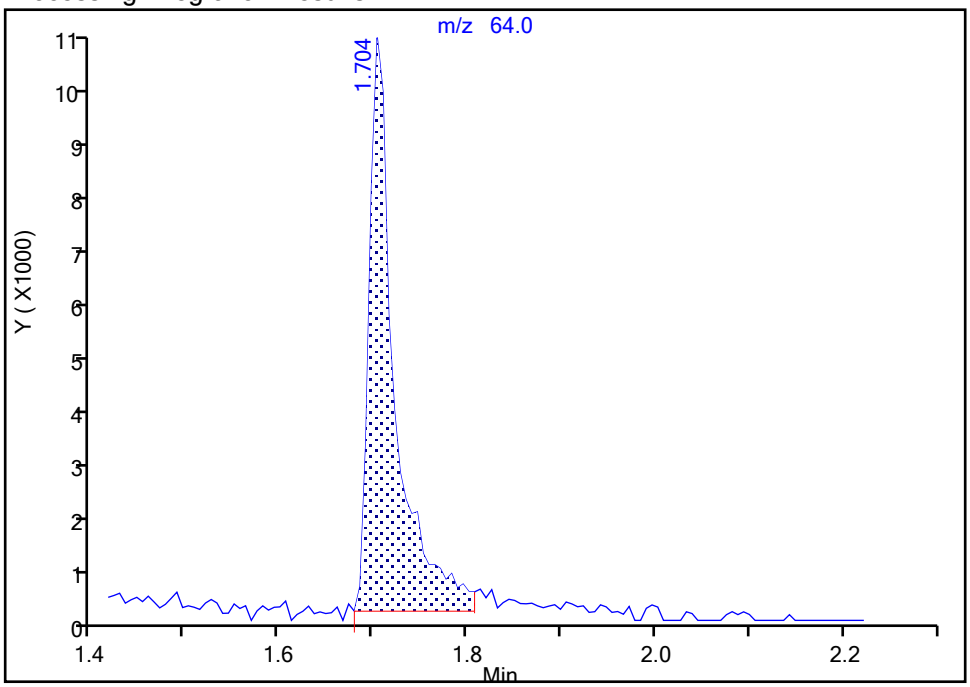
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

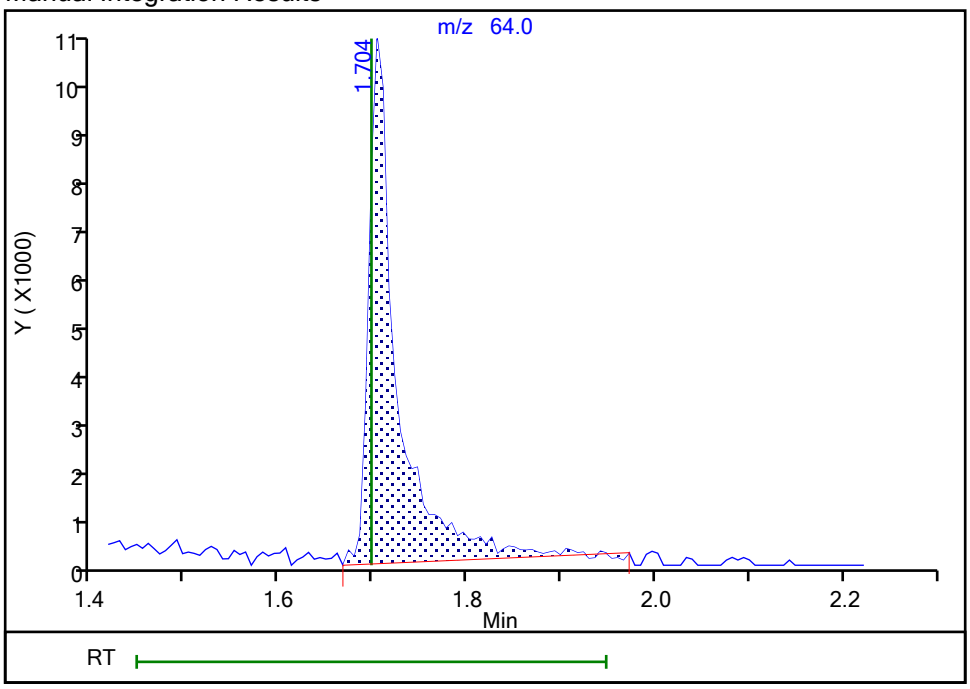
Processing Integration Results

RT: 1.70
Area: 20238
Amount: 15.710476
Amount Units: ug/l



Manual Integration Results

RT: 1.70
Area: 22147
Amount: 17.192406
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:35:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

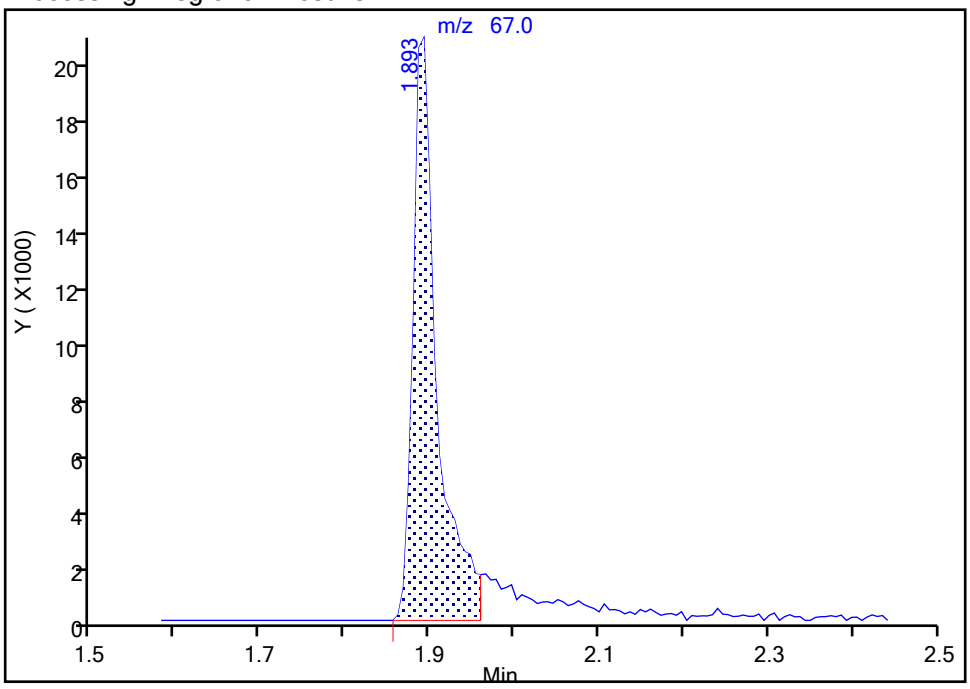
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

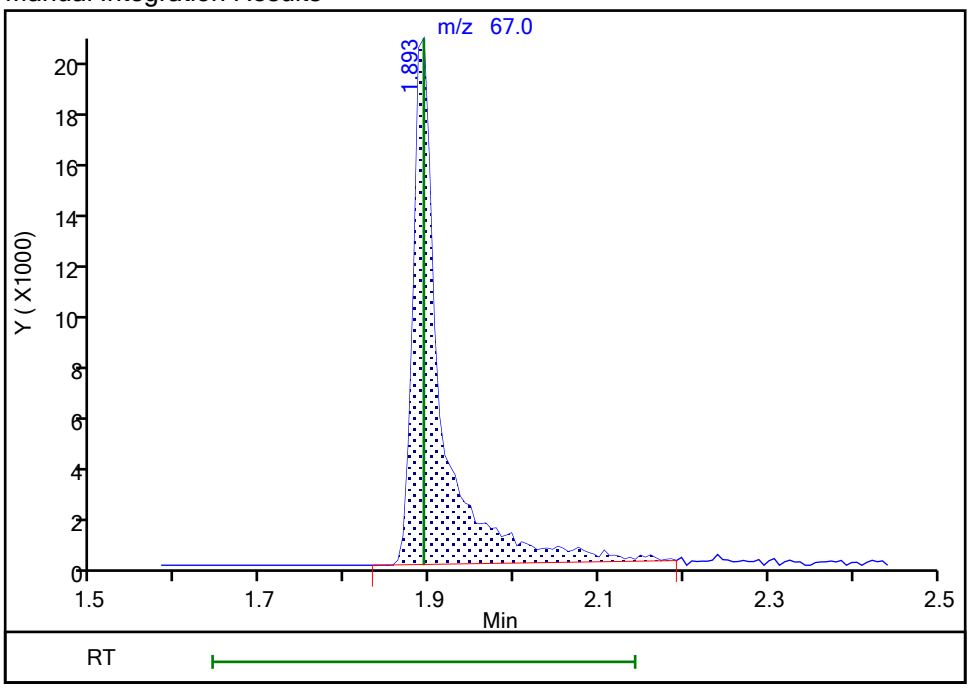
Processing Integration Results

RT: 1.89
Area: 40105
Amount: 16.921909
Amount Units: ug/l



Manual Integration Results

RT: 1.89
Area: 46541
Amount: 19.637515
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:17:59
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

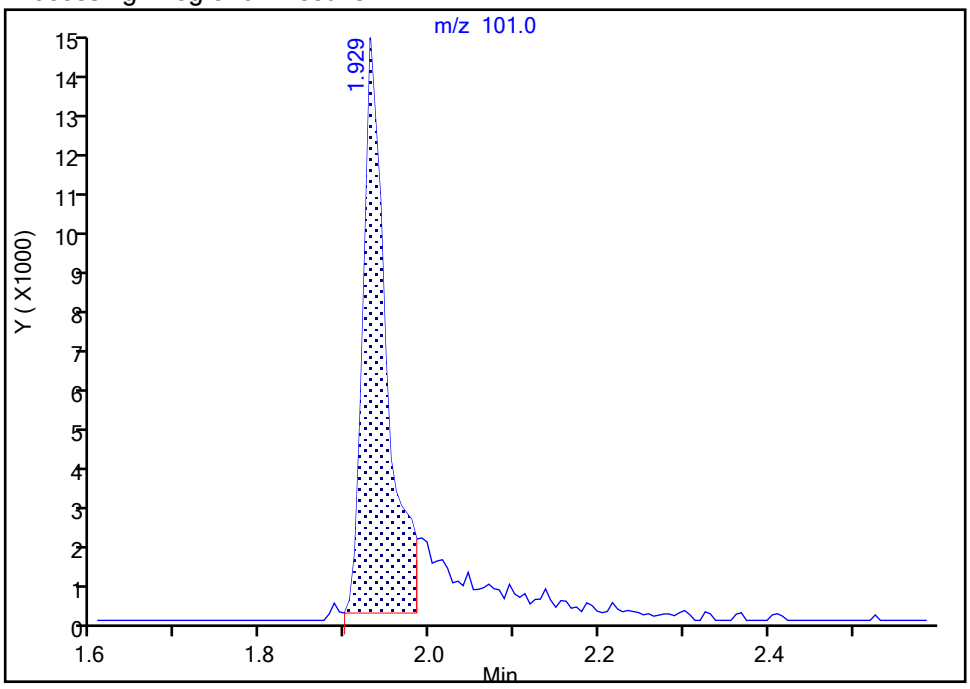
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

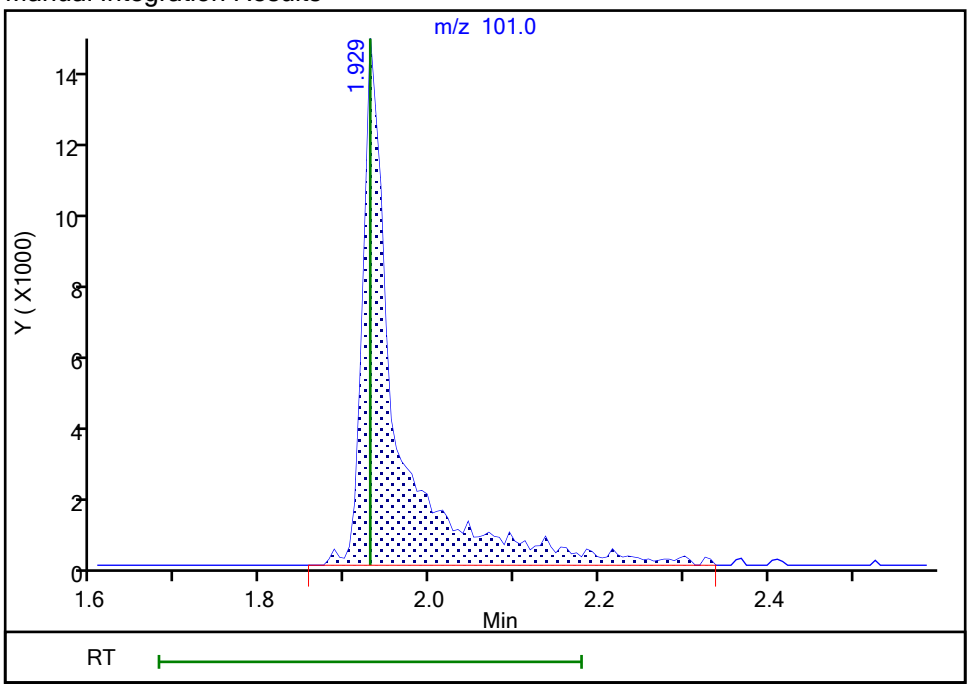
Processing Integration Results

RT: 1.93
Area: 27170
Amount: 13.109677
Amount Units: ug/l



Manual Integration Results

RT: 1.93
Area: 39832
Amount: 19.219163
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 02:35:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

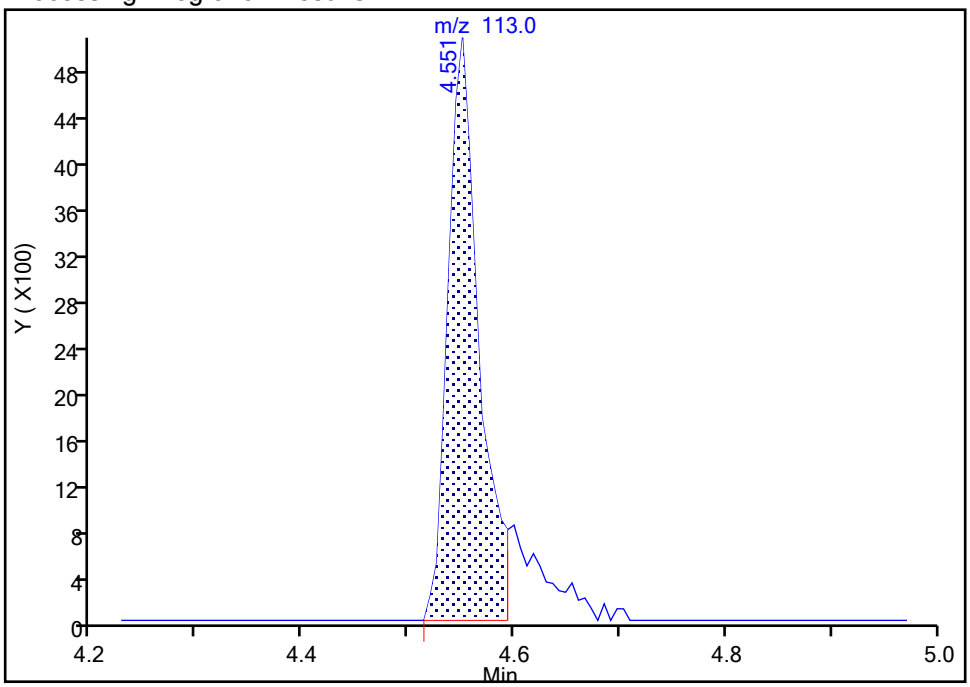
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

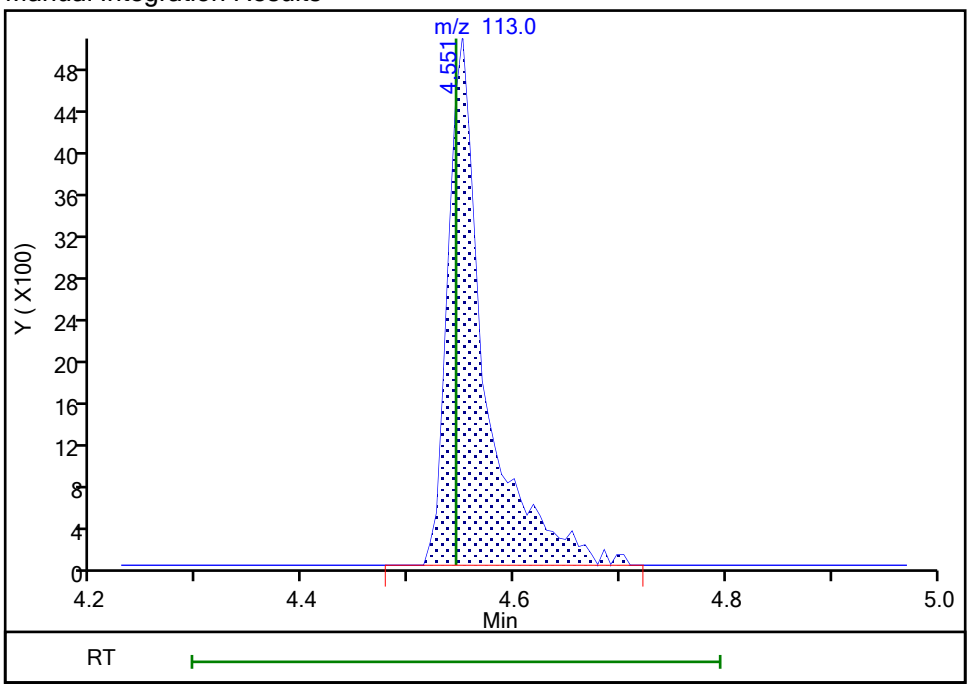
Processing Integration Results

RT: 4.55
Area: 10359
Amount: 45.742326
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 12290
Amount: 54.269060
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:18:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

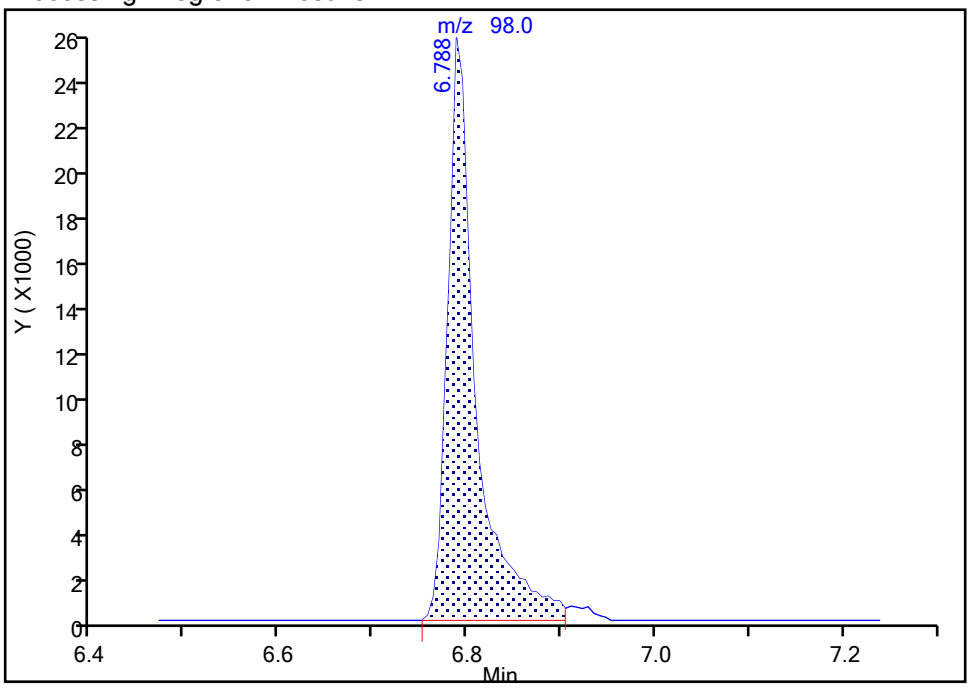
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4276.D
Injection Date: 19-Nov-2020 02:06:30 Instrument ID: Hobbes
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

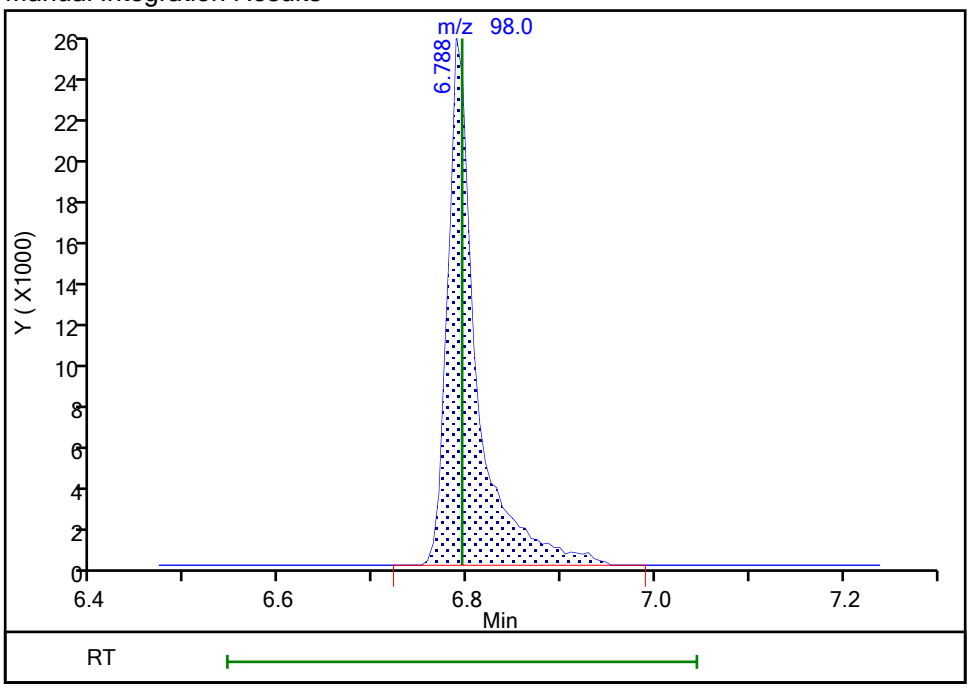
Processing Integration Results

RT: 6.79
Area: 54020
Amount: 47.601983
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 55126
Amount: 48.576581
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:18:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 01-Oct-2020 23:45:30 ALS Bottle#: 33 Worklist Smp#: 23
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:14 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:51:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	201068	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	98	7944	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	161388	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	79656	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	47052	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	200903	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	94	63574	50.0	49.2	
$ 8 BFB	95	9.914	9.914	0.000	88	75126	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

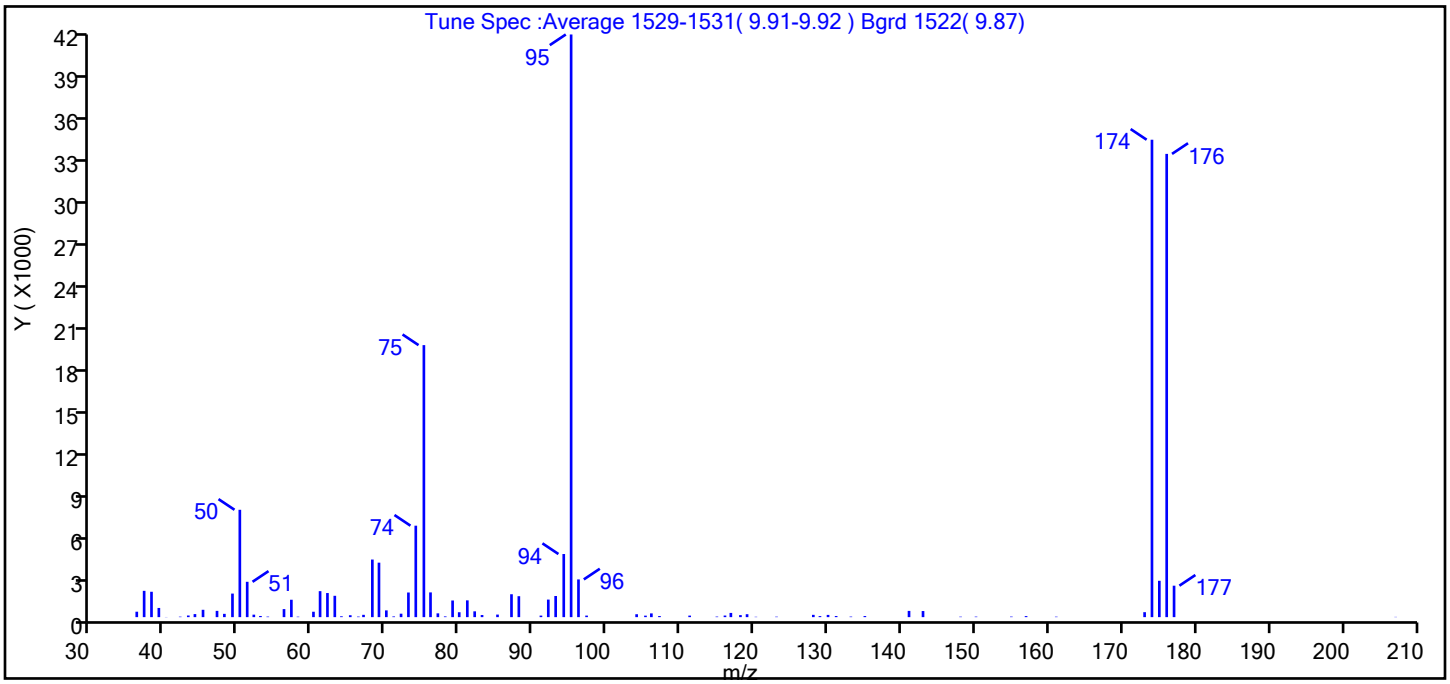
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D
Injection Date: 01-Oct-2020 23:45:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 33 Worklist Smp#: 23
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.4
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	81.9
175	5 to 9% of m/z 174	6.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	79.5 (97.0)
177	5 to 9% of m/z 176	5.4 (6.8)

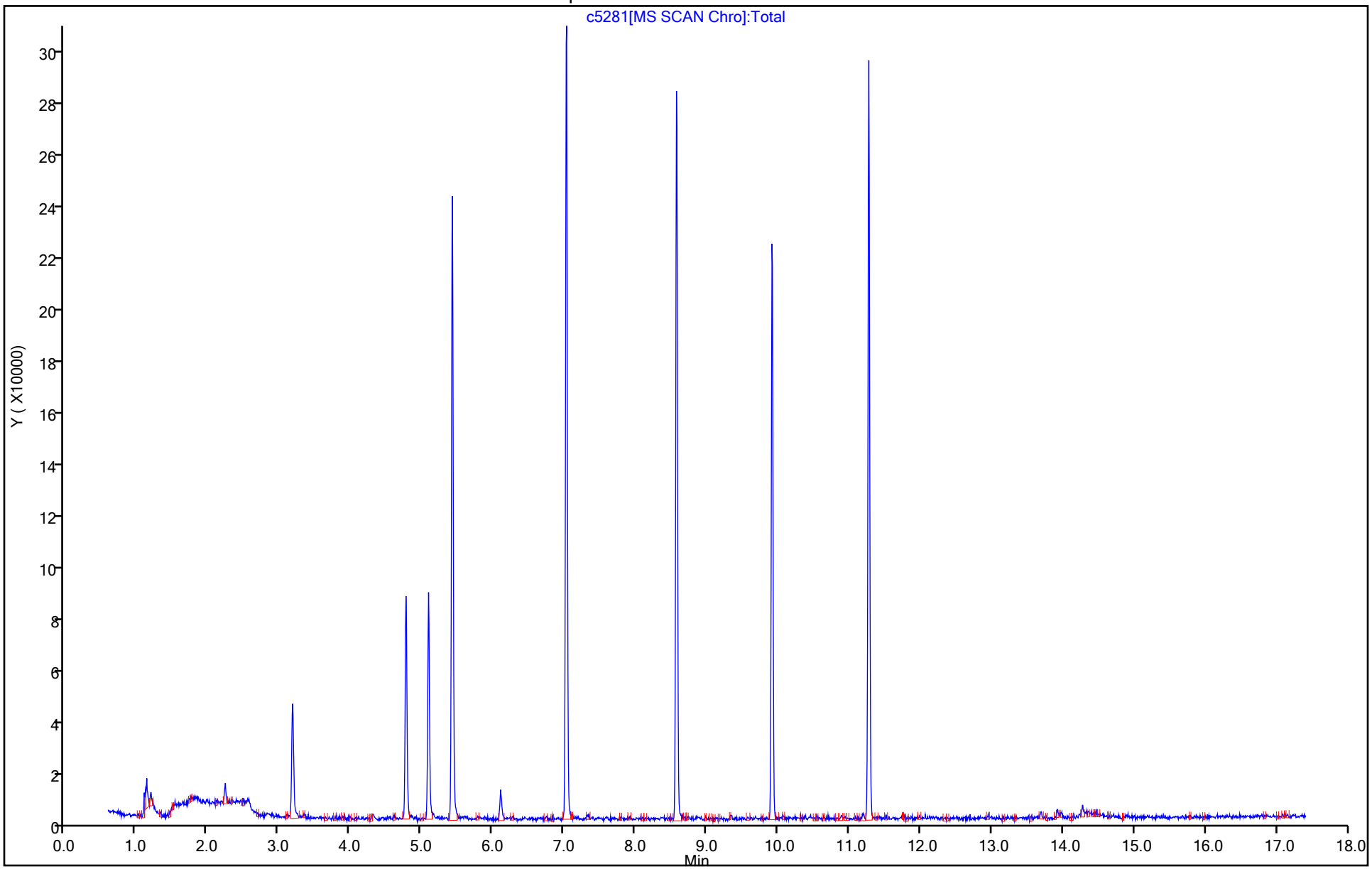
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 01-Oct-2020 23:45:30
Spectrum: Tune Spec :Average 1529-1531(9.91-9.92) Bgrd 1522(9.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	384	62.00	1702	85.00	181	128.00	163
37.00	1858	63.00	1507	87.00	1617	129.00	73
38.00	1792	64.00	60	88.00	1479	130.00	158
39.00	649	65.00	135	91.00	109	131.00	79
40.00	11	66.00	39	92.00	1240	133.00	39
42.00	34	67.00	164	93.00	1493	135.00	77
43.00	116	68.00	4067	94.00	4457	141.00	441
44.00	216	69.00	3847	95.00	41144	143.00	431
45.00	519	70.00	477	96.00	2664	148.00	33
47.00	443	71.00	50	97.00	110	150.00	37
48.00	233	72.00	244	104.00	206	155.00	38
49.00	1664	73.00	1740	105.00	106	157.00	74
50.00	7581	74.00	6458	106.00	265	161.00	33
51.00	2496	75.00	19208	107.00	77	173.00	351
52.00	176	76.00	1747	111.00	109	174.00	33712
53.00	82	77.00	268	115.00	40	175.00	2567
54.00	38	78.00	51	116.00	113	176.00	32712
56.00	569	79.00	1176	117.00	298	177.00	2221
57.00	1229	80.00	346	118.00	143	207.00	18
58.00	33	81.00	1186	119.00	207		
60.00	382	82.00	410	120.00	25		
61.00	1835	83.00	149	123.00	33		

Report Date: 02-Oct-2020 08:11:14 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D				
Injection Date:	01-Oct-2020 23:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	23
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Oct-2020 07:51:30 ALS Bottle#: 4 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:25:39 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 14:47:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	134932	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	106914	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	50650	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	29558	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	134436	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	89	40070	NC	NC	
$ 8 BFB	95	9.914	9.914	0.000	88	48432	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
NC - Not Calibrated

Reagents:

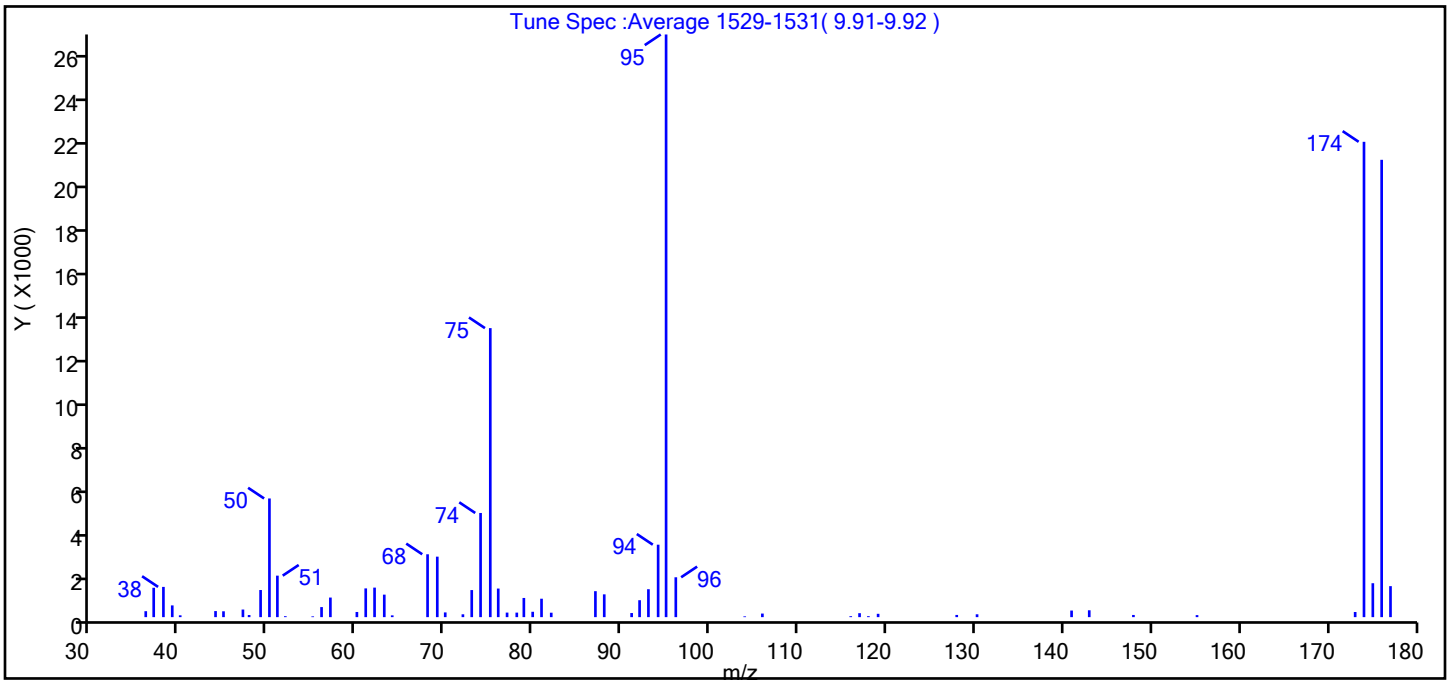
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D
Injection Date: 13-Oct-2020 07:51:30 Instrument ID: Calvin
Lims ID: BFB
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.4
75	30 to 60% of m/z 95	49.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	81.6
175	5 to 9% of m/z 174	5.8 (7.1)
176	Greater than 95% but less than 101% of m/z 174	78.5 (96.2)
177	5 to 9% of m/z 176	5.3 (6.8)

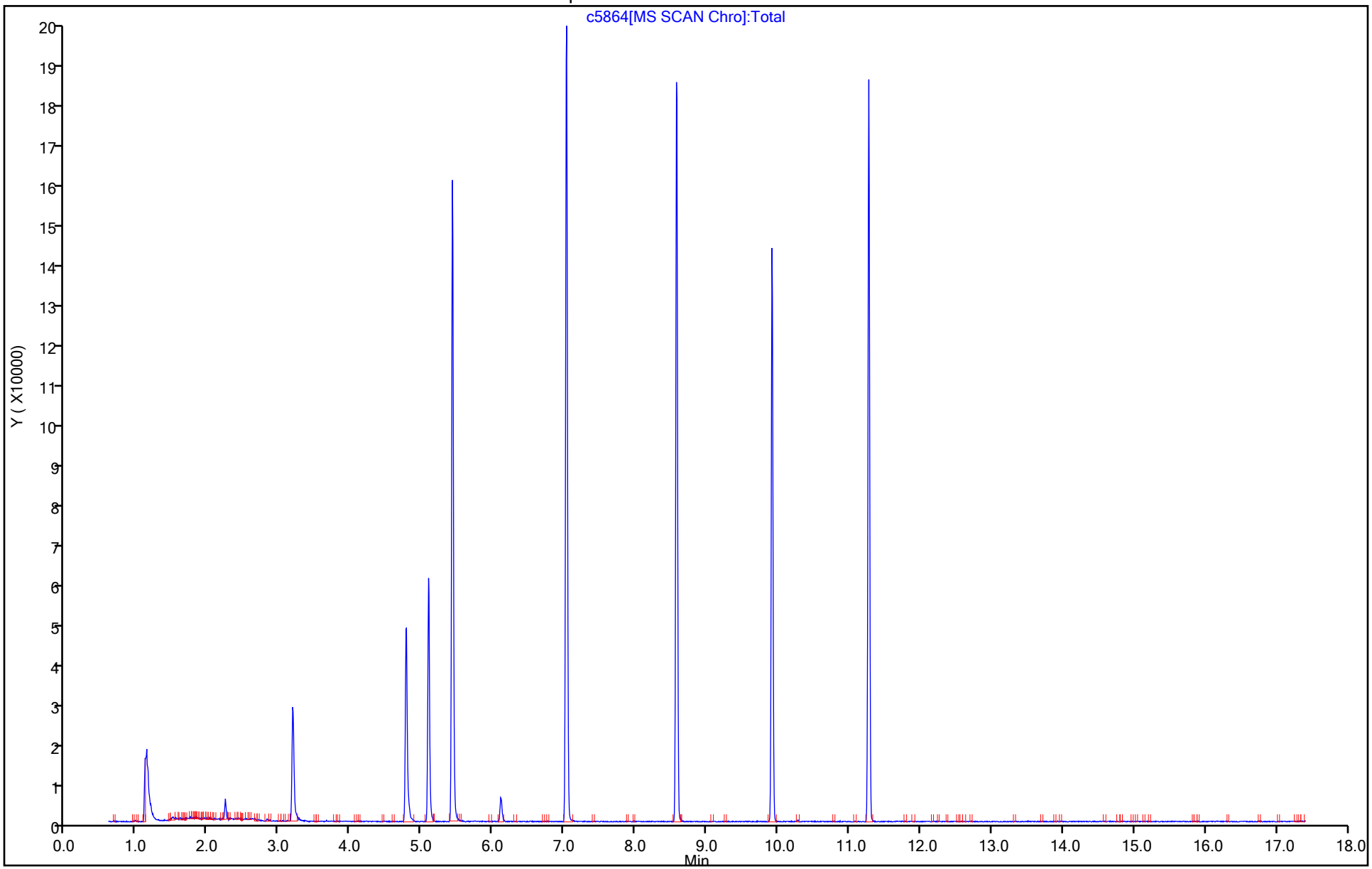
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 13-Oct-2020 07:51:30
Spectrum: Tune Spec :Average 1529-1531(9.91-9.92)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	267	57.00	879	78.00	203	116.00	42
37.00	1318	60.00	232	79.00	861	117.00	178
38.00	1357	61.00	1290	80.00	241	118.00	43
39.00	527	62.00	1325	81.00	827	119.00	150
40.00	82	63.00	1010	82.00	199	128.00	99
44.00	272	64.00	80	87.00	1165	130.00	128
45.00	263	68.00	2821	88.00	1023	141.00	296
47.00	341	69.00	2714	91.00	184	143.00	308
48.00	95	70.00	212	92.00	760	148.00	98
49.00	1217	72.00	128	93.00	1253	155.00	91
50.00	5325	73.00	1215	94.00	3251	173.00	231
51.00	1862	74.00	4674	95.00	26144	174.00	21328
52.00	42	75.00	12968	96.00	1789	175.00	1522
55.00	34	76.00	1283	104.00	34	176.00	20520
56.00	451	77.00	204	106.00	161	177.00	1391

Report Date: 13-Oct-2020 18:25:40 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D				
Injection Date:	13-Oct-2020 07:51:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Oct-2020 04:17:30 ALS Bottle#: 42 Worklist Smp#: 22
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:02 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	173072	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	128645	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	60039	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	91	39061	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.024	7.024	0.000	95	168088	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	85	49733	50.0	50.6	
$ 8 BFB	95	9.914	9.914	0.000	84	63180	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

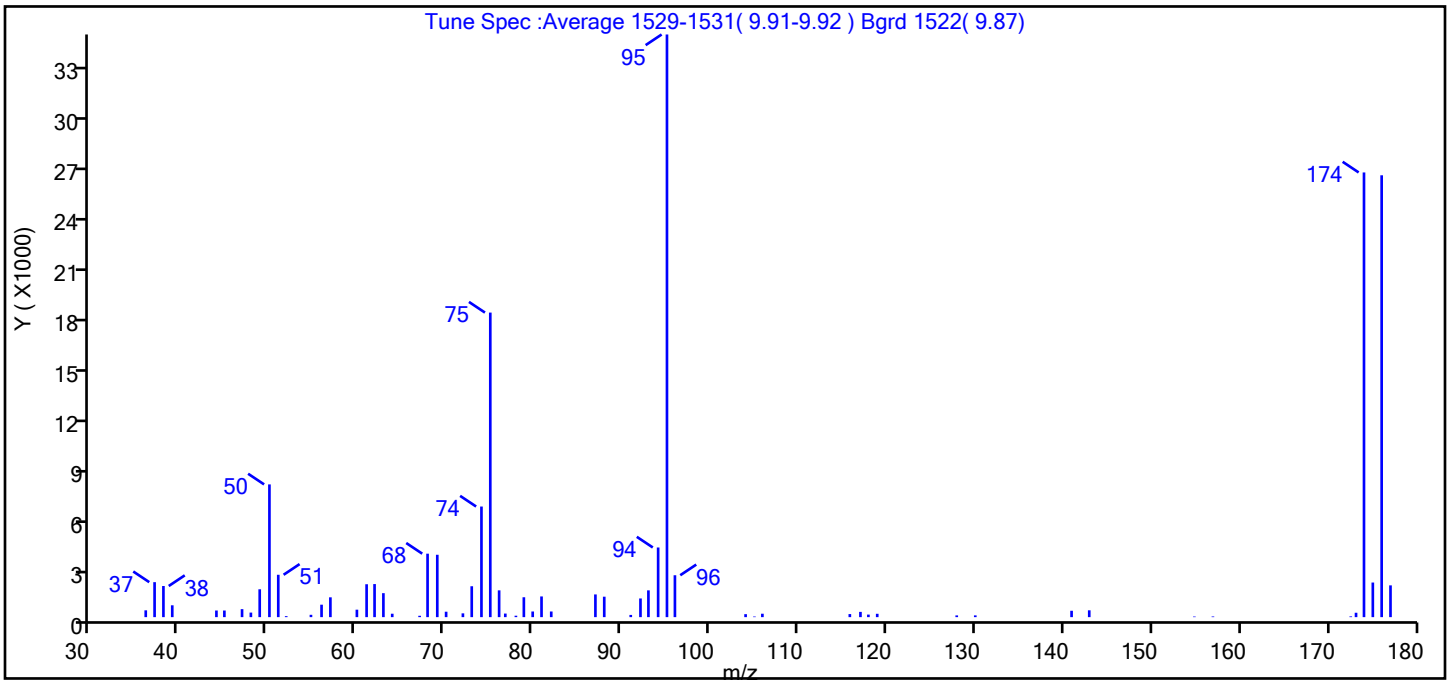
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D
Injection Date: 14-Oct-2020 04:17:30 Instrument ID: Calvin
Lims ID: BFB
Client ID:
Operator ID: sjn ALS Bottle#: 42 Worklist Smp#: 22
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.8
75	30 to 60% of m/z 95	52.3
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.9 (1.2)
174	50 to 120% of m/z 95	76.3
175	5 to 9% of m/z 174	5.9 (7.8)
176	Greater than 95% but less than 101% of m/z 174	75.8 (99.4)
177	5 to 9% of m/z 176	5.5 (7.2)

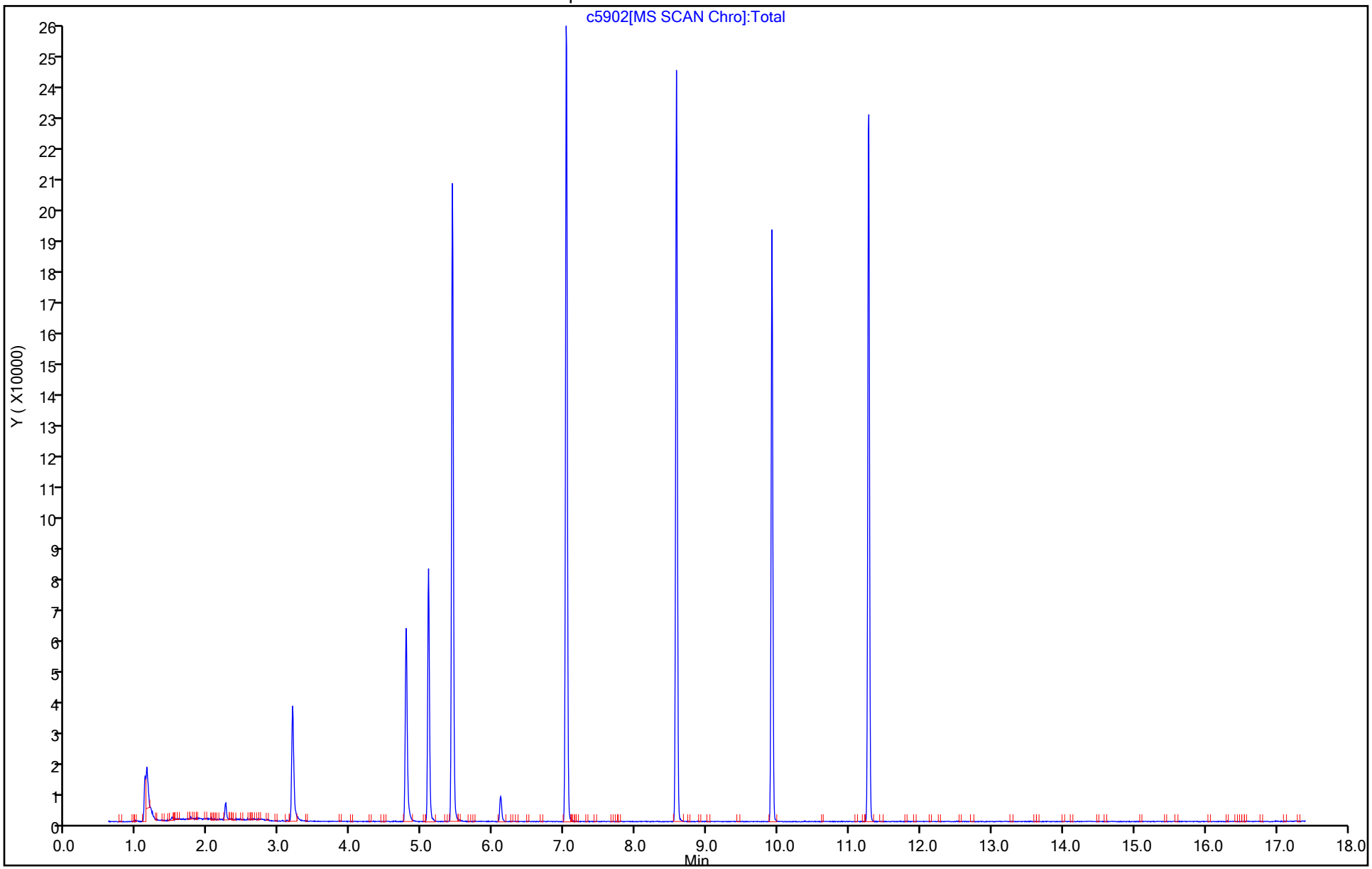
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 14-Oct-2020 04:17:30
Spectrum: Tune Spec :Average 1529-1531(9.91-9.92) Bgrd 1522(9.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	404	61.00	1950	80.00	335	118.00	151
37.00	2073	62.00	1960	81.00	1227	119.00	199
38.00	1845	63.00	1421	82.00	335	128.00	103
39.00	702	64.00	203	87.00	1346	130.00	104
44.00	393	67.00	81	88.00	1212	141.00	378
45.00	393	68.00	3761	91.00	132	143.00	405
47.00	474	69.00	3696	92.00	1107	155.00	35
48.00	270	70.00	322	93.00	1587	157.00	39
49.00	1651	72.00	225	94.00	4128	172.00	44
50.00	7866	73.00	1831	95.00	34528	173.00	260
51.00	2511	74.00	6555	96.00	2483	174.00	26352
52.00	59	75.00	18048	104.00	177	175.00	2051
55.00	139	76.00	1588	105.00	36	176.00	26184
56.00	738	77.00	212	106.00	203	177.00	1883
57.00	1175	78.00	85	116.00	182		
60.00	442	79.00	1179	117.00	312		

Report Date: 15-Oct-2020 01:19:03 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D				
Injection Date:	14-Oct-2020 04:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	BFB			Worklist Smp#:	22
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8225.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 18-Nov-2020 04:19:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:53:08 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:08:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.367	3.367	0.000	0	135	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	177132	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	128941	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	56274	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	92	41222	50.0	51.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168180	50.0	50.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	44458	50.0	48.3	
$ 8 BFB	95	9.920	9.920	0.000	82	61986	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

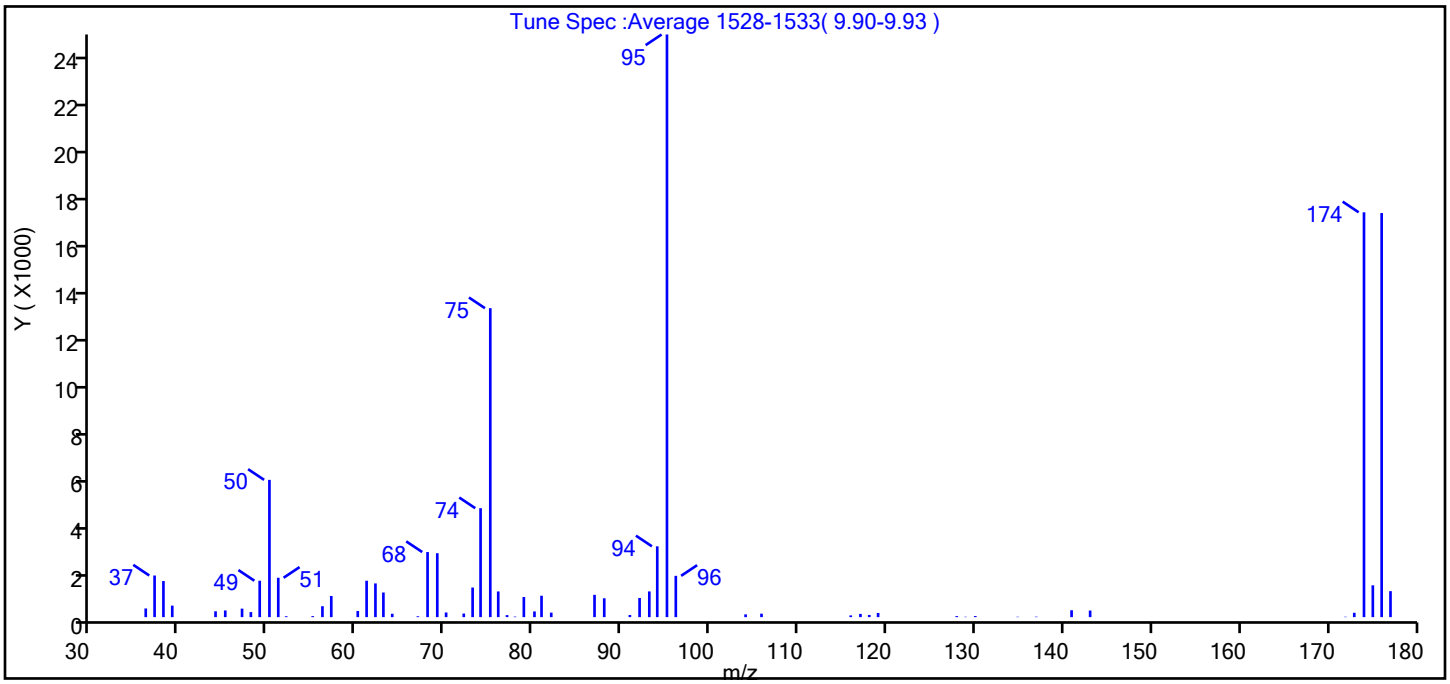
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8225.D
Injection Date: 18-Nov-2020 04:19:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.6
75	30 to 60% of m/z 95	53.0
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.7 (1.1)
174	50 to 120% of m/z 95	69.5
175	5 to 9% of m/z 174	5.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	69.4 (99.8)
177	5 to 9% of m/z 176	4.5 (6.4)

Report Date: 19-Nov-2020 06:53:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8225.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 18-Nov-2020 04:19:30
Spectrum: Tune Spec :Average 1528-1533(9.90-9.93)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 62

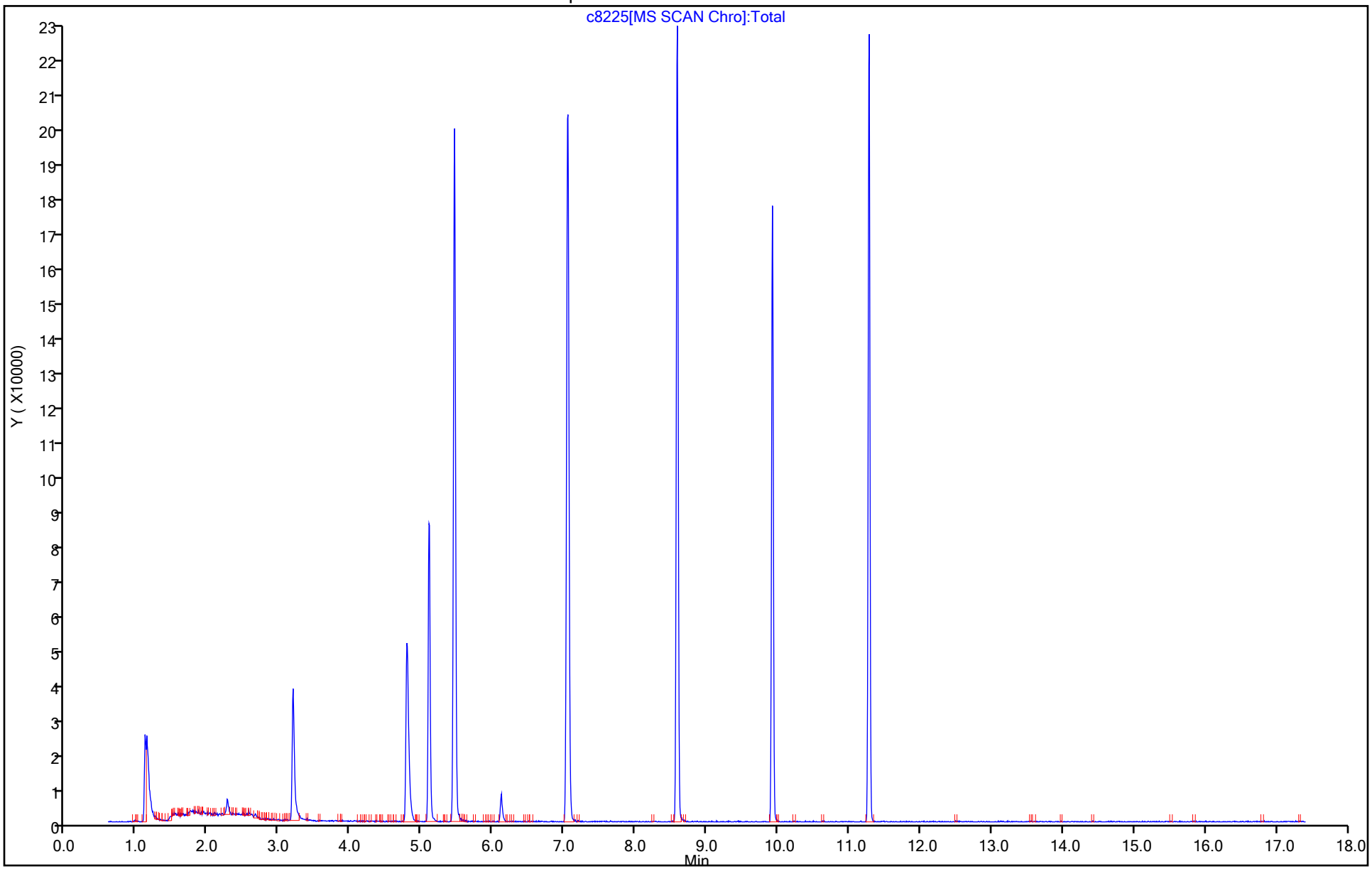
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	370	61.00	1551	80.00	244	119.00	179
37.00	1774	62.00	1437	81.00	913	128.00	44
38.00	1538	63.00	1050	82.00	192	129.00	16
39.00	490	64.00	144	87.00	951	130.00	46
44.00	249	67.00	37	88.00	804	135.00	16
45.00	285	68.00	2773	91.00	93	137.00	20
47.00	363	69.00	2724	92.00	816	141.00	294
48.00	216	70.00	199	93.00	1096	143.00	281
49.00	1552	72.00	153	94.00	3017	172.00	17
50.00	5849	73.00	1261	95.00	24824	173.00	186
51.00	1678	74.00	4642	96.00	1760	174.00	17248
52.00	38	75.00	13163	104.00	118	175.00	1356
55.00	44	76.00	1095	106.00	148	176.00	17216
56.00	466	77.00	87	116.00	74	177.00	1108
57.00	902	78.00	23	117.00	139		
60.00	261	79.00	859	118.00	94		

Report Date: 19-Nov-2020 06:53:09 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8225.D

Injection Date:	18-Nov-2020 04:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8257.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 18-Nov-2020 17:30:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-003
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:27 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:35:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	198	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	98	185660	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	132974	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	58978	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	91	43489	50.0	52.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	175208	50.0	51.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	82	45649	50.0	47.3	
$ 8 BFB	95	9.920	9.920	0.000	81	63443	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

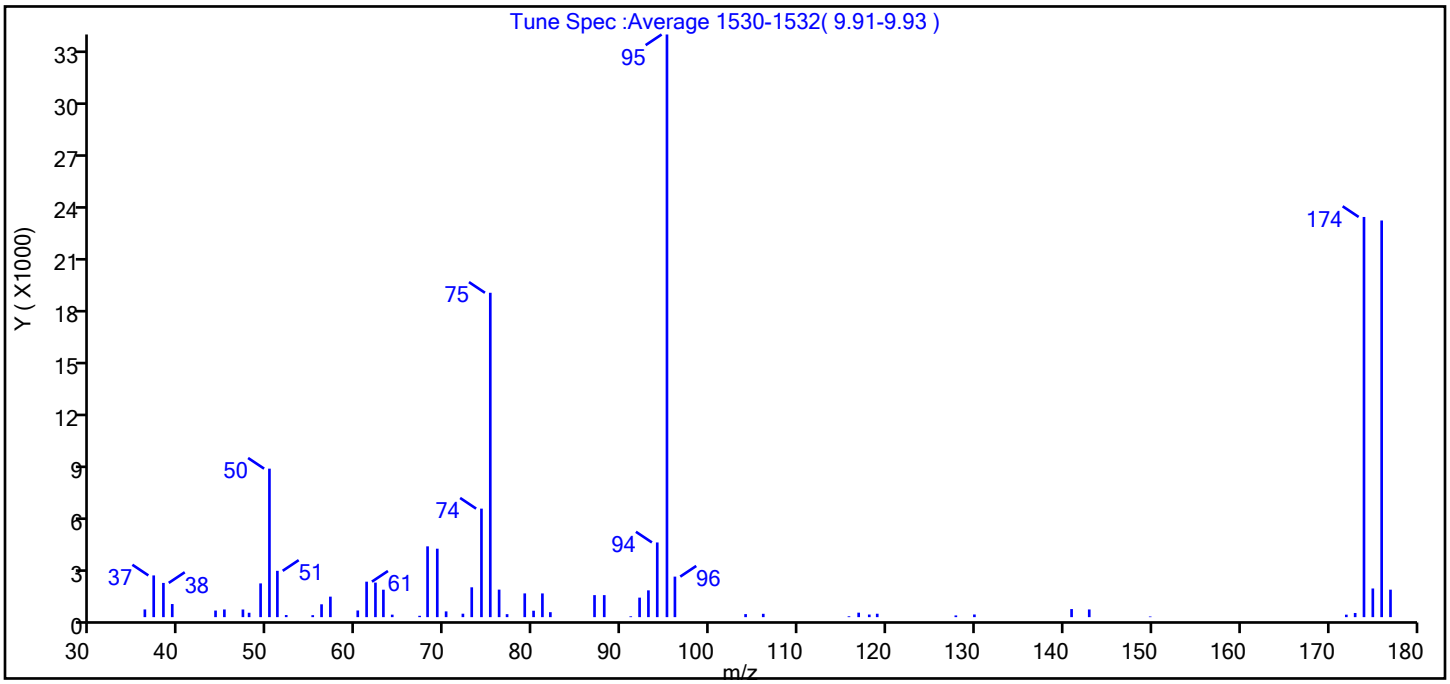
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8257.D
Injection Date: 18-Nov-2020 17:30:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	25.5
75	30 to 60% of m/z 95	55.7
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.7 (1.0)
174	50 to 120% of m/z 95	68.7
175	5 to 9% of m/z 174	4.9 (7.2)
176	Greater than 95% but less than 101% of m/z 174	68.1 (99.1)
177	5 to 9% of m/z 176	4.7 (6.9)

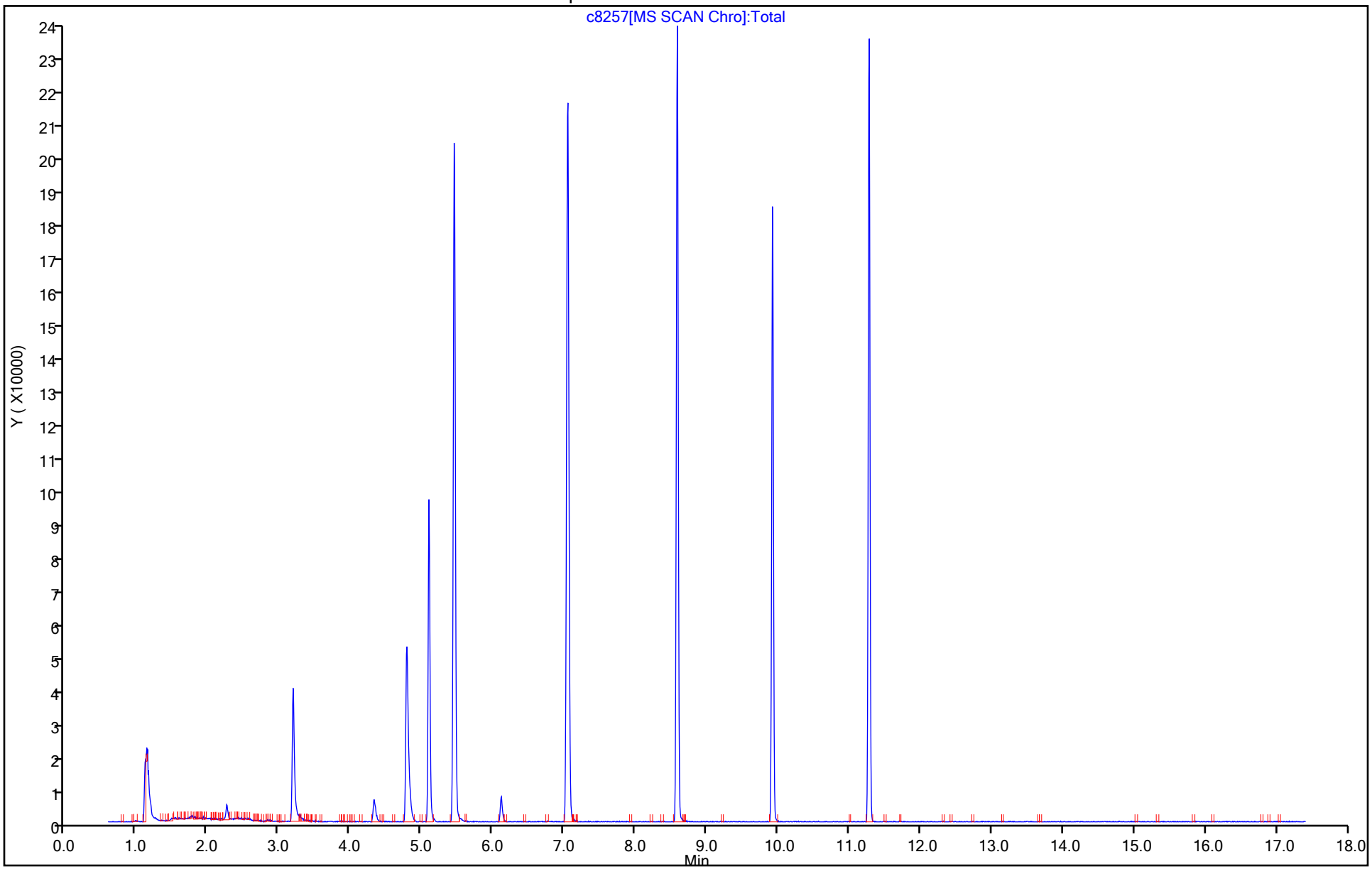
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8257.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 18-Nov-2020 17:30:30
Spectrum: Tune Spec :Average 1530-1532(9.91-9.93)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	438	60.00	379	79.00	1348	117.00	254
37.00	2369	61.00	2014	80.00	364	118.00	148
38.00	1943	62.00	1963	81.00	1347	119.00	194
39.00	744	63.00	1559	82.00	282	128.00	97
44.00	374	64.00	142	87.00	1250	130.00	151
45.00	436	67.00	77	88.00	1250	141.00	459
47.00	434	68.00	4020	91.00	46	143.00	436
48.00	249	69.00	3886	92.00	1108	150.00	36
49.00	1916	70.00	327	93.00	1521	172.00	141
50.00	8430	72.00	196	94.00	4241	173.00	236
51.00	2630	73.00	1694	95.00	33080	174.00	22720
52.00	119	74.00	6161	96.00	2301	175.00	1627
55.00	112	75.00	18416	104.00	173	176.00	22520
56.00	729	76.00	1563	106.00	190	177.00	1560
57.00	1164	77.00	169	116.00	48		

Report Date: 19-Nov-2020 11:15:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8257.D				
Injection Date:	18-Nov-2020 17:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8288.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 19-Nov-2020 05:00:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:13:57 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 19-Nov-2020 05:51:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.379	3.379	0.000	0	94	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	98	169783	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.116				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	123753	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	97	54717	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	40180	50.0	52.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	161504	50.0	50.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	42348	50.0	47.3	
$ 8 BFB	95	9.920	9.920	0.000	80	59042	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

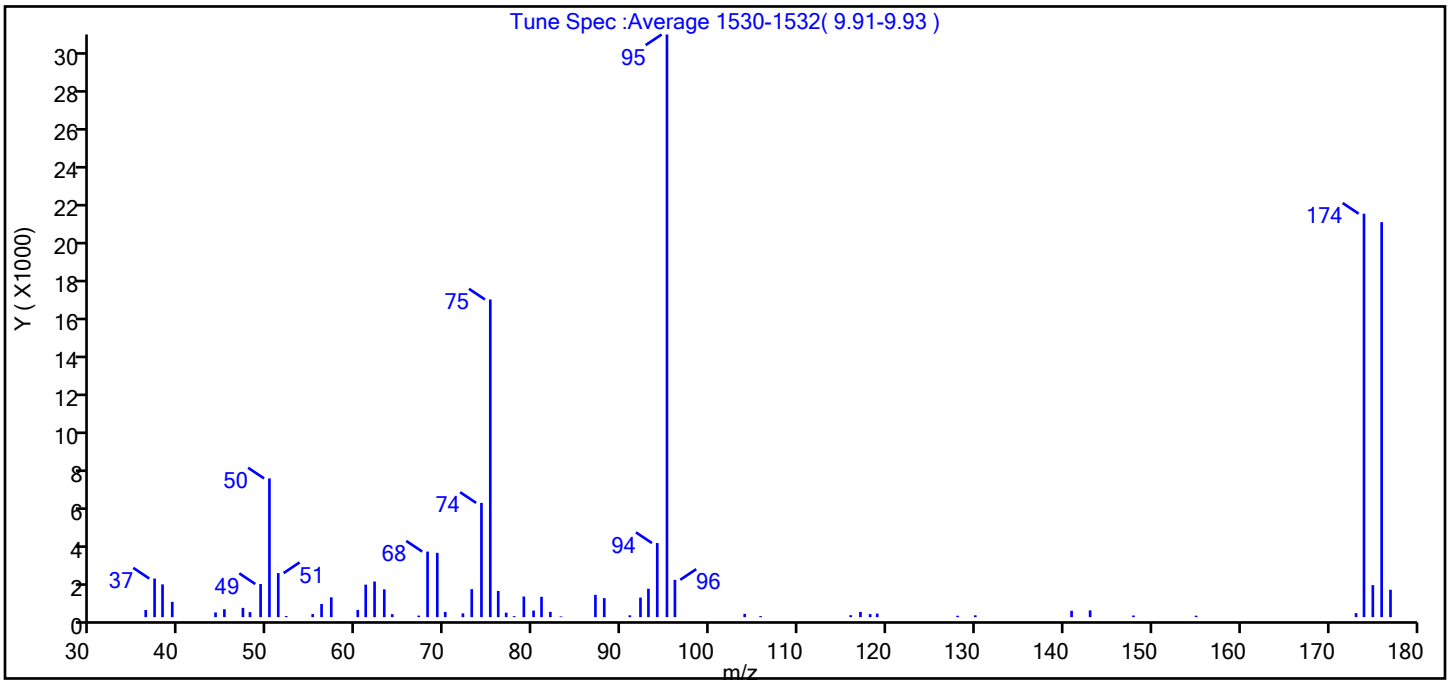
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8288.D
Injection Date: 19-Nov-2020 05:00:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.8
75	30 to 60% of m/z 95	54.5
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.7 (1.0)
174	50 to 120% of m/z 95	69.2
175	5 to 9% of m/z 174	5.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	67.8 (97.9)
177	5 to 9% of m/z 176	4.7 (6.9)

Report Date: 20-Nov-2020 12:13:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

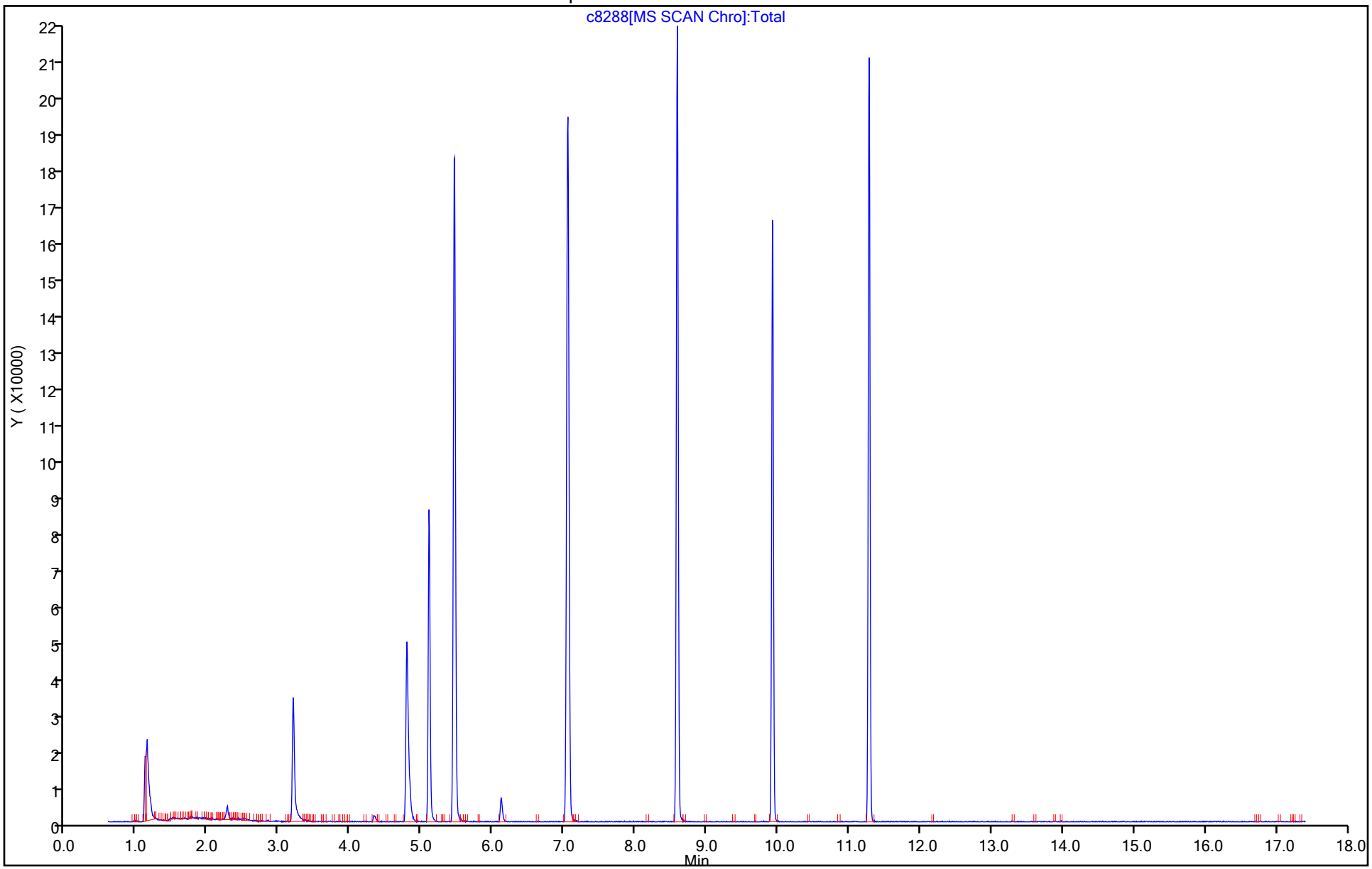
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8288.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 19-Nov-2020 05:00:30
Spectrum: Tune Spec :Average 1530-1532(9.91-9.93)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	381	61.00	1729	80.00	350	118.00	163
37.00	2053	62.00	1893	81.00	1080	119.00	189
38.00	1742	63.00	1476	82.00	281	128.00	74
39.00	814	64.00	157	83.00	38	130.00	98
44.00	251	67.00	82	87.00	1186	141.00	338
45.00	422	68.00	3485	88.00	1013	143.00	361
47.00	492	69.00	3418	91.00	98	148.00	87
48.00	266	70.00	276	92.00	1039	155.00	78
49.00	1762	72.00	199	93.00	1512	173.00	213
50.00	7374	73.00	1489	94.00	3940	174.00	21448
51.00	2343	74.00	6075	95.00	30976	175.00	1702
52.00	59	75.00	16888	96.00	1985	176.00	21000
55.00	165	76.00	1393	104.00	176	177.00	1457
56.00	701	77.00	239	106.00	56		
57.00	1055	78.00	55	116.00	104		
60.00	383	79.00	1096	117.00	279		

Report Date: 20-Nov-2020 12:13:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8288.D				
Injection Date:	19-Nov-2020 05:00:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8318.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 19-Nov-2020 17:17:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-003
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 02:59:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	246	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	183537	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	131745	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	59244	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	92	43034	50.0	52.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	172327	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.927	0.000	86	45744	50.0	47.2	
$ 8 BFB	95	9.920	9.920	0.000	82	62421	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

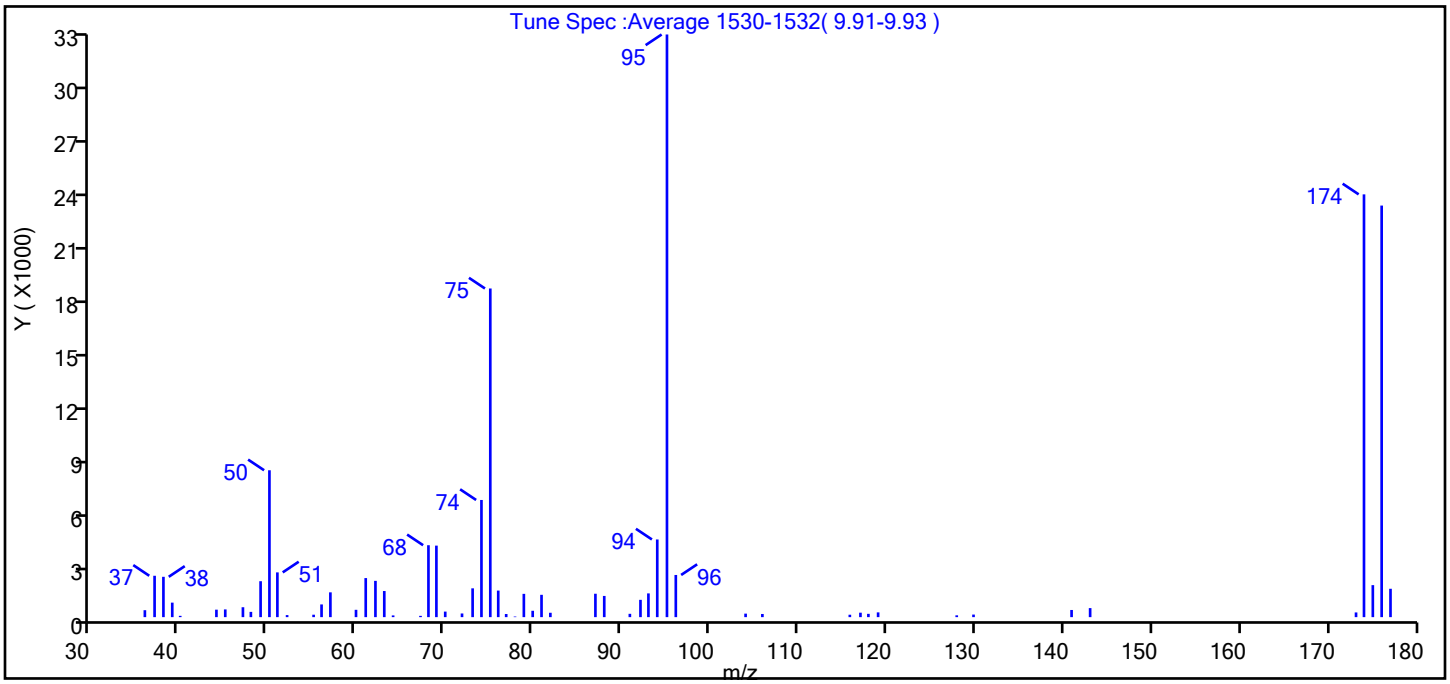
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8318.D
Injection Date: 19-Nov-2020 17:17:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	25.2
75	30 to 60% of m/z 95	56.4
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.8 (1.1)
174	50 to 120% of m/z 95	72.6
175	5 to 9% of m/z 174	5.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	70.6 (97.4)
177	5 to 9% of m/z 176	4.9 (6.9)

Report Date: 20-Nov-2020 07:09:36 Chrom Revision: 2.3 12-Nov-2020 21:52:08

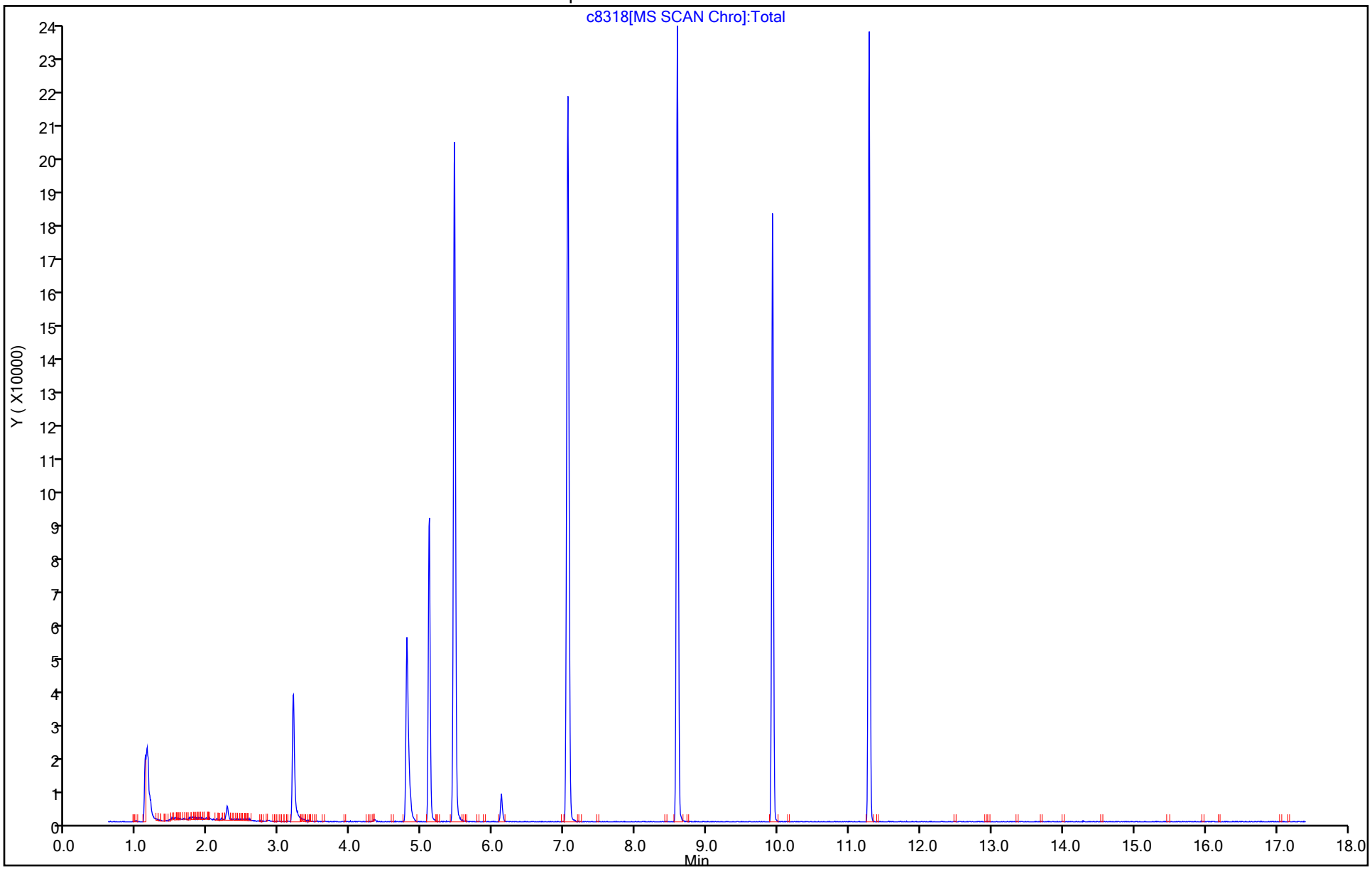
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8318.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 19-Nov-2020 17:17:30
Spectrum: Tune Spec :Average 1530-1532(9.91-9.93)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	382	57.00	1364	77.00	172	106.00	174
37.00	2275	60.00	403	78.00	33	116.00	133
38.00	2218	61.00	2148	79.00	1281	117.00	245
39.00	798	62.00	1995	80.00	350	118.00	182
40.00	72	63.00	1436	81.00	1228	119.00	262
44.00	411	64.00	95	82.00	241	128.00	100
45.00	425	67.00	71	87.00	1287	130.00	142
47.00	545	68.00	3955	88.00	1166	141.00	394
48.00	290	69.00	3933	91.00	183	143.00	497
49.00	1976	70.00	305	92.00	952	173.00	259
50.00	8077	72.00	202	93.00	1306	174.00	23248
51.00	2461	73.00	1584	94.00	4271	175.00	1760
52.00	113	74.00	6443	95.00	32040	176.00	22632
55.00	134	75.00	18072	96.00	2319	177.00	1560
56.00	699	76.00	1461	104.00	193		

Report Date: 20-Nov-2020 07:09:36 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8318.D				
Injection Date:	19-Nov-2020 17:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3725.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Nov-2020 02:54:30 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:37:57 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	53754	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	80203	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	89	5028	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.337	8.337	0.000	91	69369	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	39941	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	92	17072	50.0	51.1	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	96	76493	50.0	49.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.678	0.000	0	24910	50.0	48.5	
$ 8 BFB	95	9.684	9.684	0.000	81	34646	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

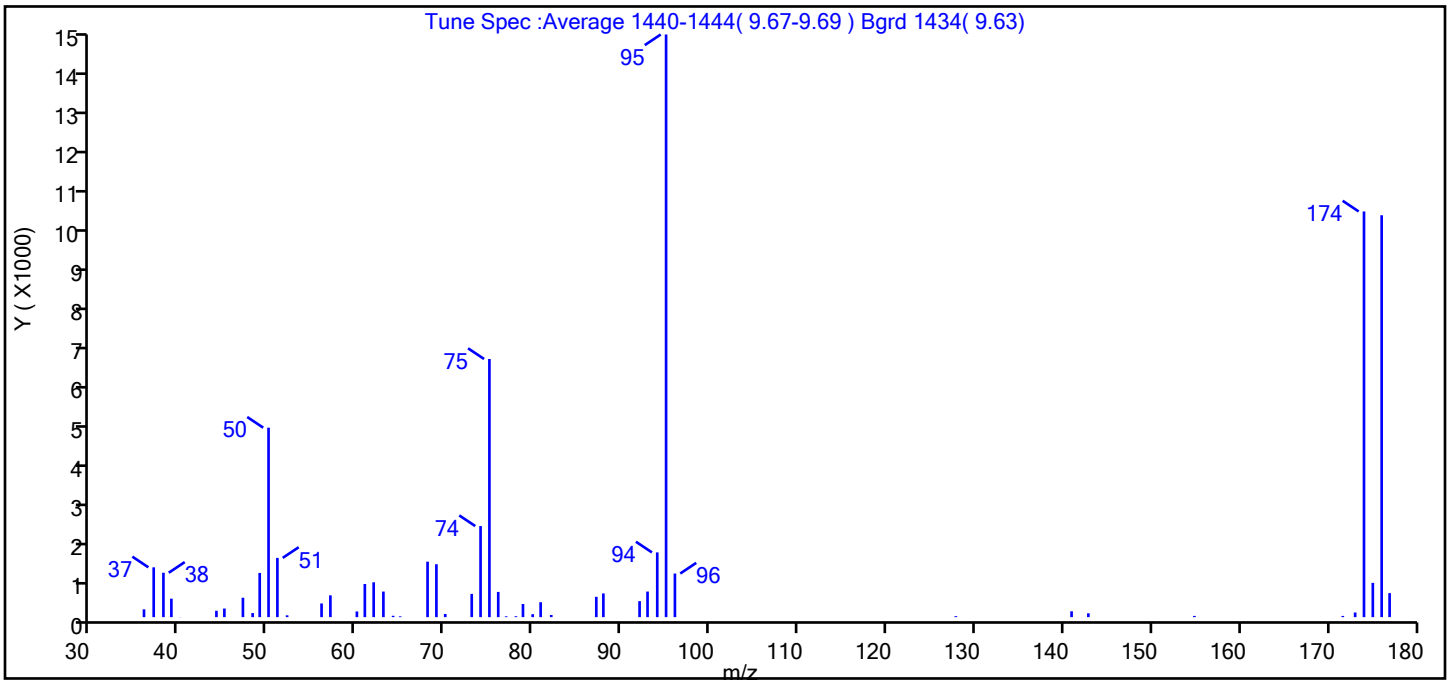
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3725.D
Injection Date: 09-Nov-2020 02:54:30 Instrument ID: Hobbes
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.5
75	30 to 60% of m/z 95	44.3
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.8 (1.1)
174	50 to 120% of m/z 95	69.6
175	5 to 9% of m/z 174	5.9 (8.4)
176	Greater than 95% but less than 101% of m/z 174	69.0 (99.1)
177	5 to 9% of m/z 176	4.1 (6.0)

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3725.D\HVOA8260NEW.rslt\spectra.d
Injection Date: 09-Nov-2020 02:54:30
Spectrum: Tune Spec :Average 1440-1444(9.67-9.69) Bgrd 1434(9.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 51

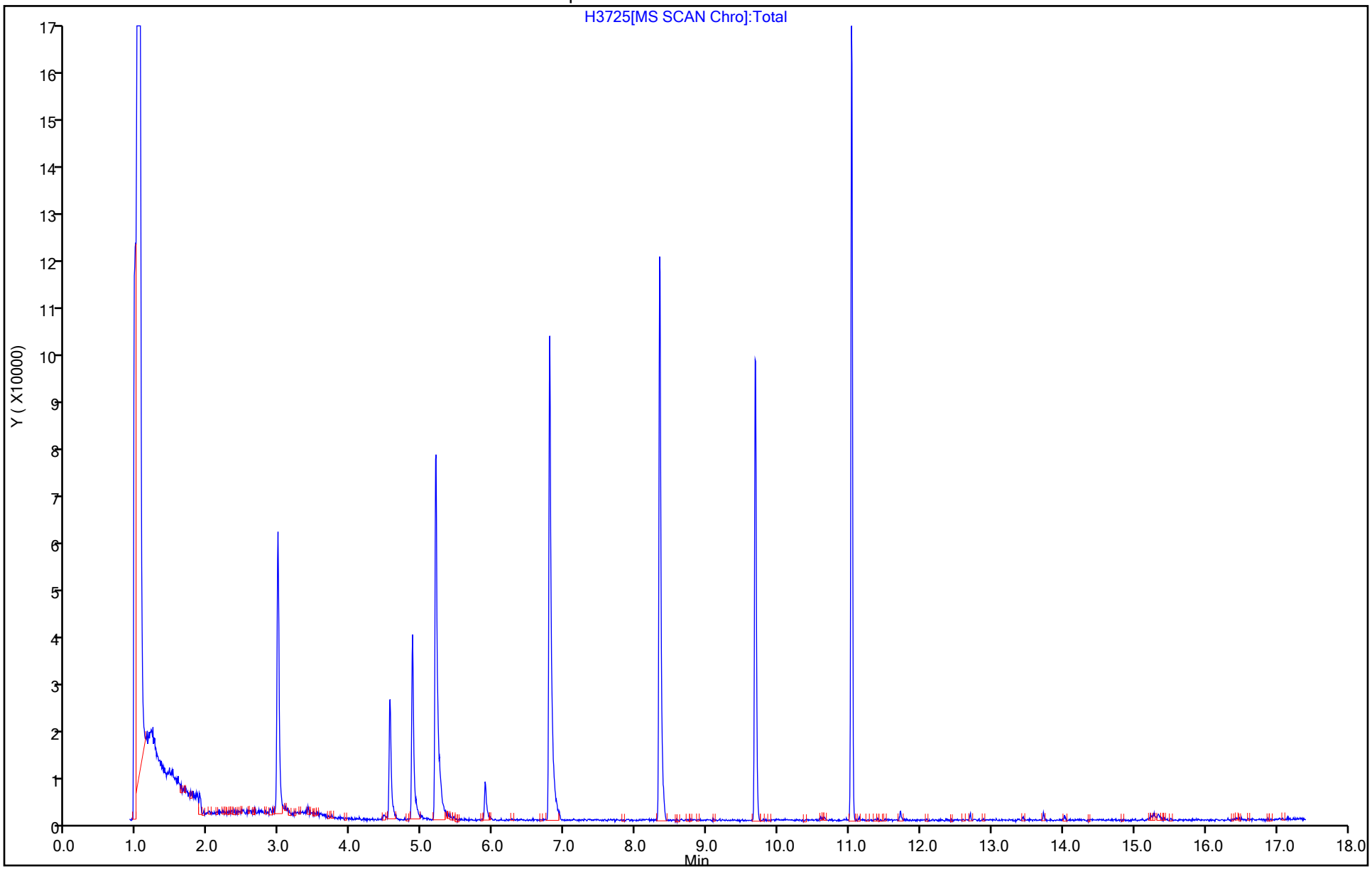
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	199	56.00	348	75.00	6570	95.00	14829
37.00	1268	57.00	555	76.00	642	96.00	1110
38.00	1130	60.00	145	77.00	21	128.00	25
39.00	470	61.00	844	78.00	23	141.00	149
40.00	3	62.00	887	79.00	334	143.00	98
44.00	162	63.00	651	80.00	76	155.00	31
45.00	219	64.00	35	81.00	380	172.00	31
47.00	494	65.00	20	82.00	55	173.00	118
48.00	104	68.00	1412	87.00	517	174.00	10325
49.00	1125	69.00	1347	88.00	604	175.00	872
50.00	4822	70.00	80	92.00	408	176.00	10228
51.00	1508	73.00	592	93.00	651	177.00	611
52.00	47	74.00	2318	94.00	1648		

Report Date: 10-Nov-2020 04:37:57 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3725.D

Injection Date:	09-Nov-2020 02:54:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3745.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Nov-2020 10:33:30 ALS Bottle#: 24 Worklist Smp#: 23
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:42:48 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 02:54:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.972	0.000	0	54688	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	72550	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	88	5320	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.343	8.343	0.000	91	62795	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.037	11.037	0.000	95	37762	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	91	13937	50.0	46.1	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	69878	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24576	50.0	50.6	
$ 8 BFB	95	9.684	9.684	0.000	85	31877	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

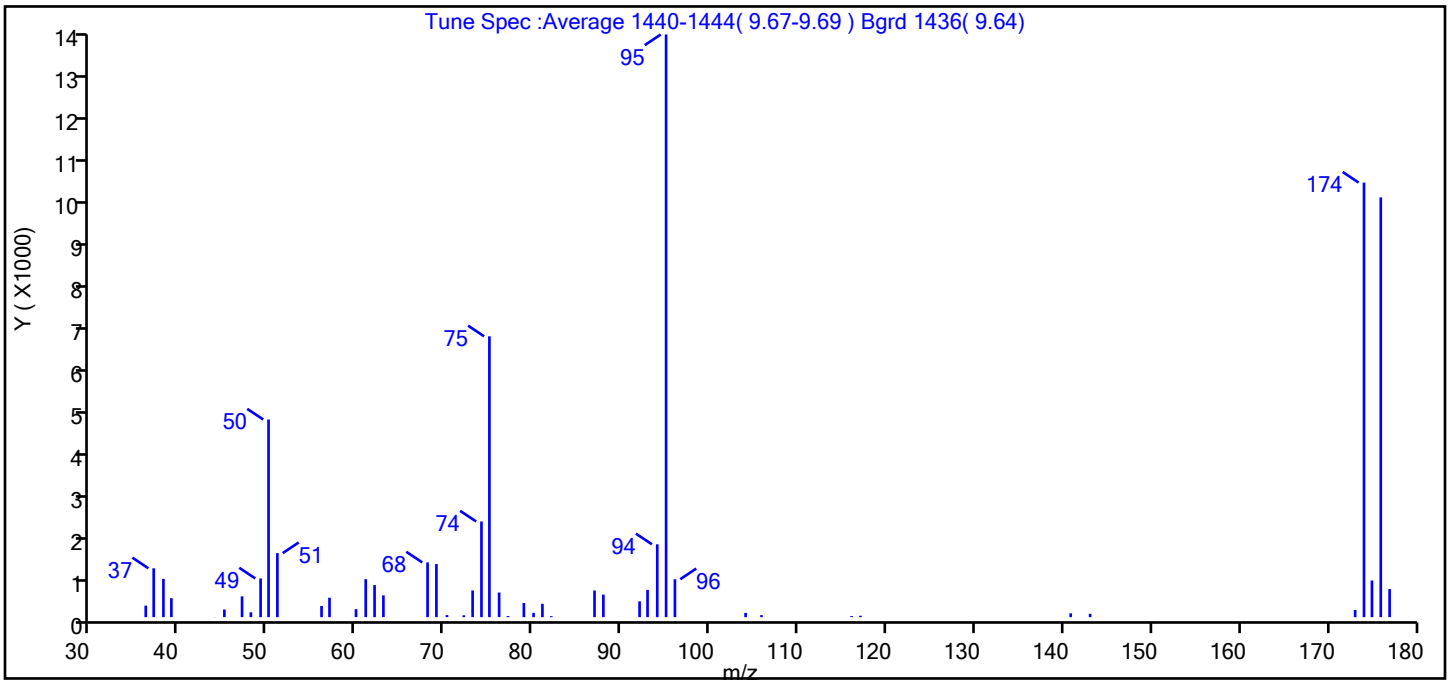
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3745.D				
Injection Date:	09-Nov-2020 10:33:30	Instrument ID:	Hobbes		
Lims ID:	BFB				
Client ID:					
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	23
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	33.9
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.2 (1.7)
174	50 to 120% of m/z 95	74.6
175	5 to 9% of m/z 174	6.3 (8.4)
176	Greater than 95% but less than 101% of m/z 174	72.0 (96.6)
177	5 to 9% of m/z 176	4.8 (6.7)

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3745.D\HVOA8260NEW.rslt\spectra.d
Injection Date: 09-Nov-2020 10:33:30
Spectrum: Tune Spec :Average 1440-1444(9.67-9.69) Bgrd 1436(9.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

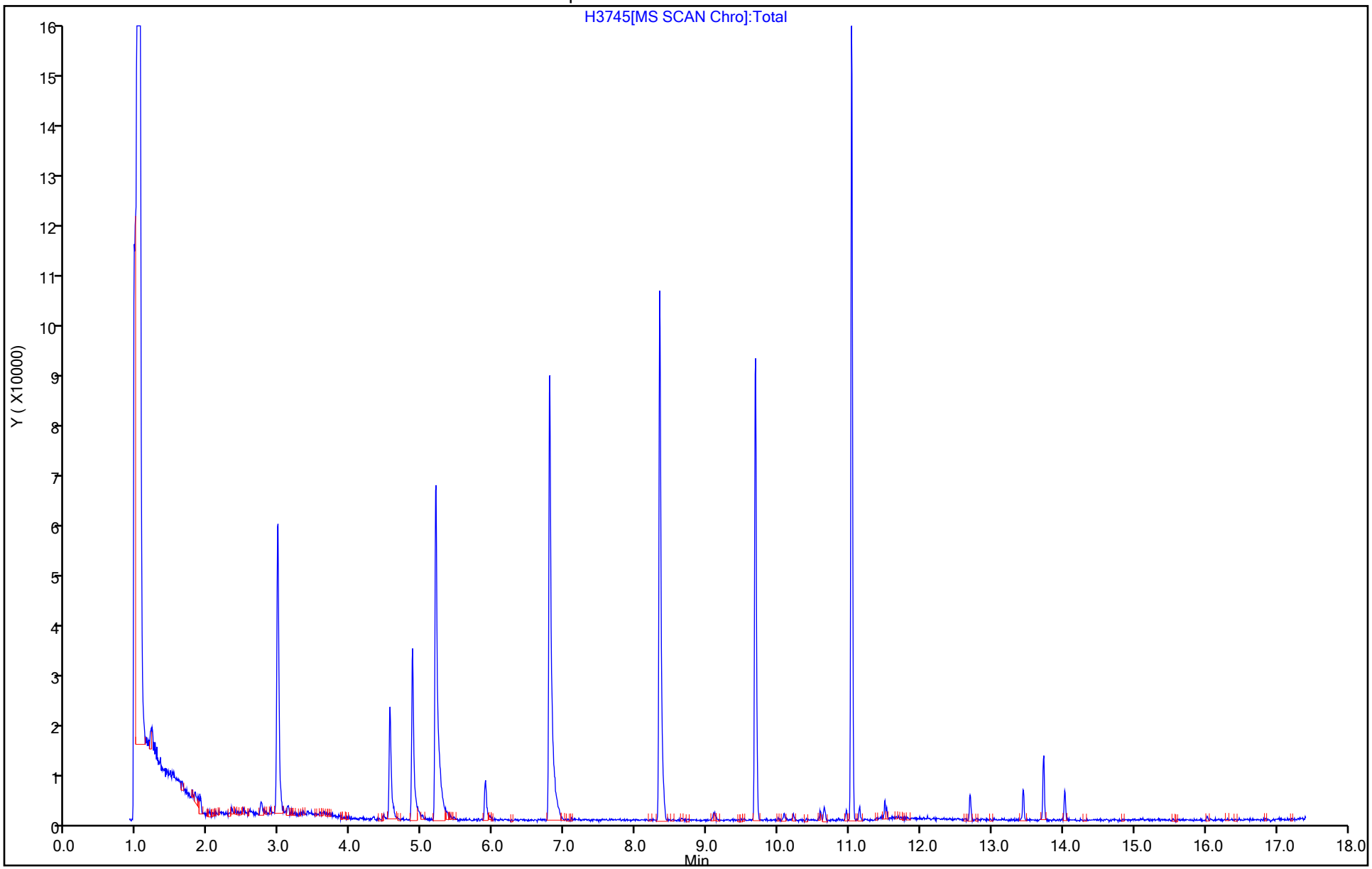
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	268	57.00	451	76.00	572	96.00	881
37.00	1135	60.00	187	77.00	26	104.00	98
38.00	889	61.00	882	79.00	329	106.00	47
39.00	441	62.00	746	80.00	100	116.00	24
44.00	3	63.00	506	81.00	310	117.00	33
45.00	178	68.00	1272	82.00	23	141.00	89
47.00	483	69.00	1234	87.00	620	143.00	78
48.00	113	70.00	48	88.00	524	173.00	167
49.00	899	72.00	43	92.00	367	174.00	10099
50.00	4593	73.00	620	93.00	634	175.00	852
51.00	1488	74.00	2223	94.00	1693	176.00	9756
56.00	260	75.00	6527	95.00	13542	177.00	653

Report Date: 10-Nov-2020 04:42:49 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3745.D

Injection Date:	09-Nov-2020 10:33:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	23
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3764.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 10-Nov-2020 03:19:30 ALS Bottle#: 2 Worklist Smp#: 41
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 10-Nov-2020 04:45:38 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: nelsonsa Date: 10-Nov-2020 04:35:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.972	2.972	0.000	0	49615	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.197	0.000	97	64014	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	81	3965	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.337	8.337	0.000	91	61033	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	36641	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	91	14501	50.0	54.4	
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	67991	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	24057	50.0	51.0	
$ 8 BFB	95	9.678	9.678	0.000	80	30844	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

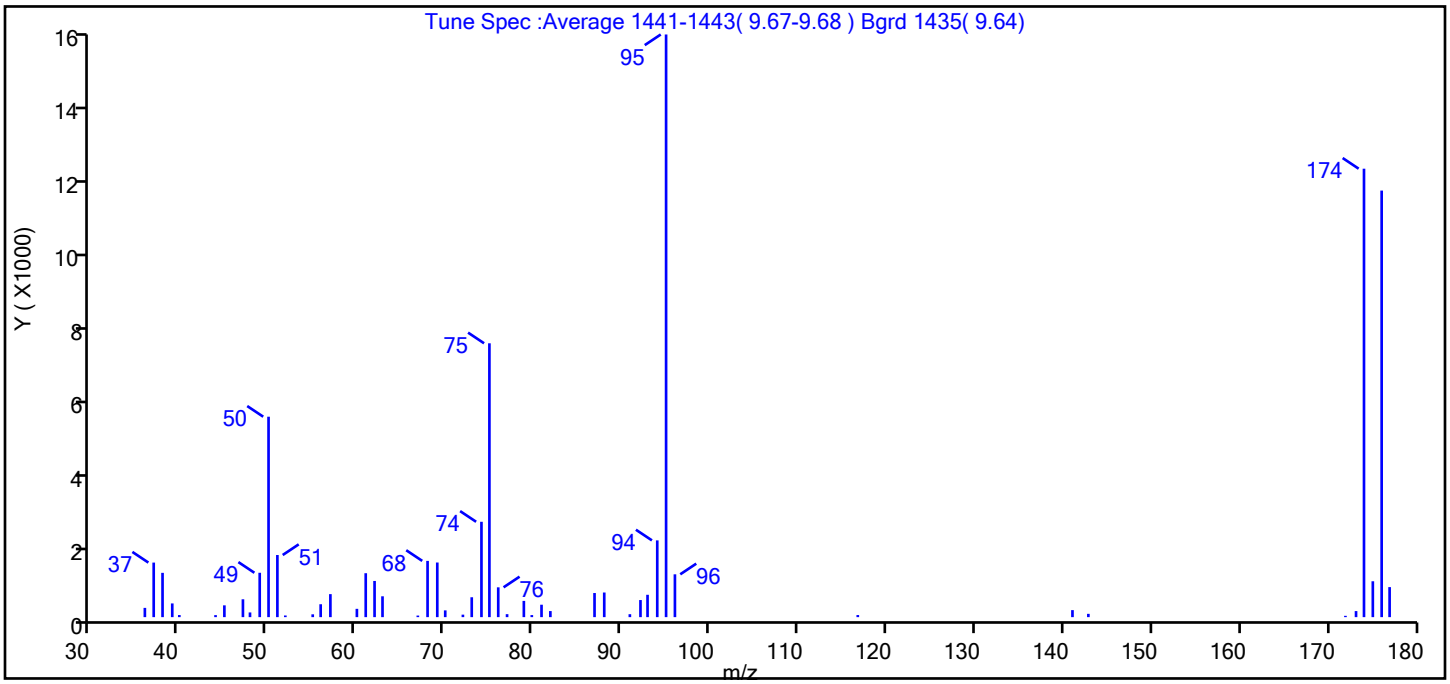
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3764.D
Injection Date: 10-Nov-2020 03:19:30 Instrument ID: Hobbes
Lims ID: bfb
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 41
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	34.4
75	30 to 60% of m/z 95	47.0
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	1.0 (1.4)
174	50 to 120% of m/z 95	77.0
175	5 to 9% of m/z 174	6.2 (8.0)
176	Greater than 95% but less than 101% of m/z 174	73.2 (95.1)
177	5 to 9% of m/z 176	5.2 (7.0)

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3764.D\HVOA8260NEW.rslt\spectra.d
Injection Date: 10-Nov-2020 03:19:30
Spectrum: Tune Spec :Average 1441-1443(9.67-9.68) Bgrd 1435(9.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 51

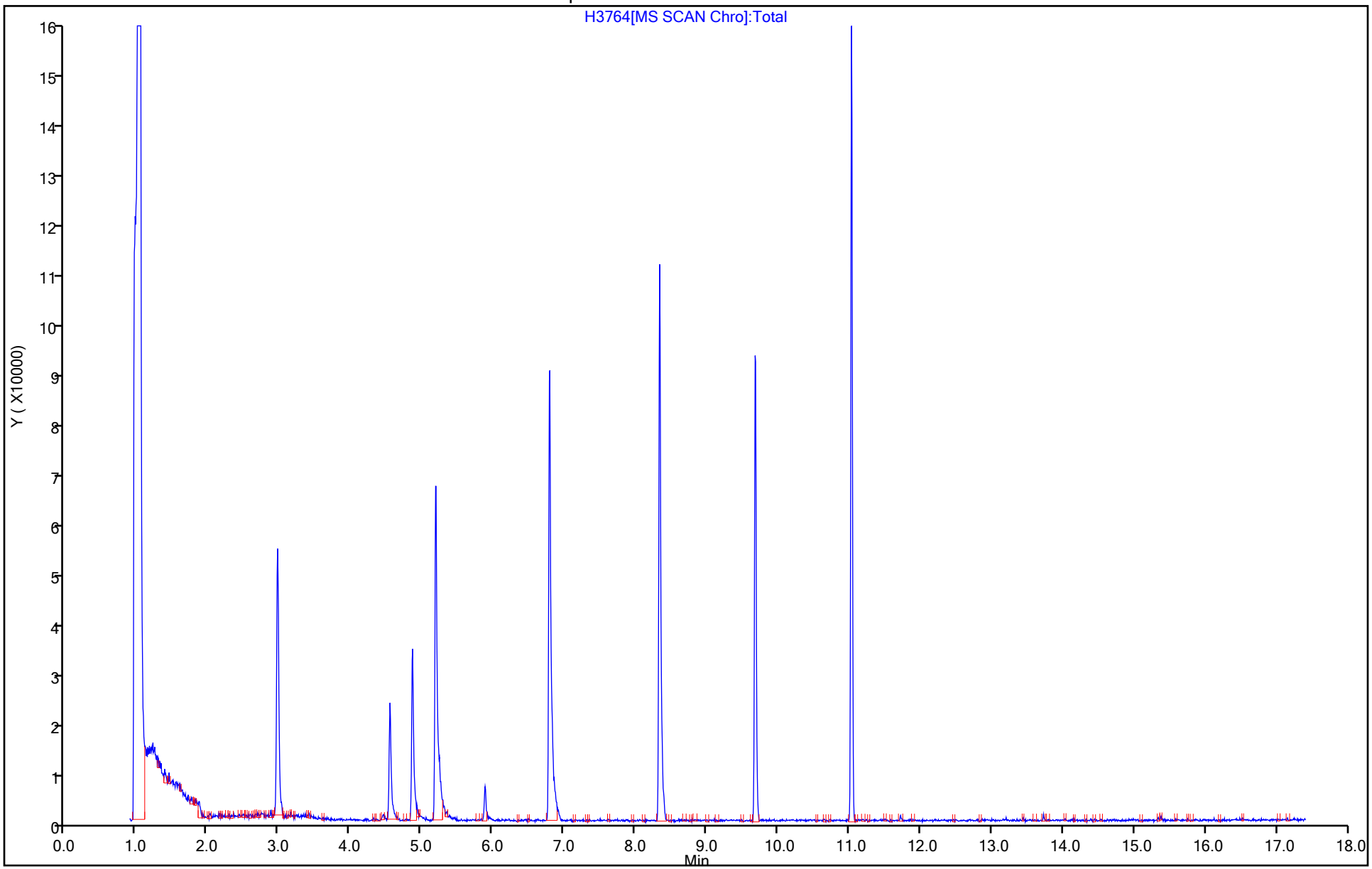
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	252	55.00	77	74.00	2594	94.00	2088
37.00	1484	56.00	351	75.00	7449	95.00	15849
38.00	1205	57.00	626	76.00	811	96.00	1165
39.00	373	60.00	226	77.00	81	117.00	57
40.00	57	61.00	1195	79.00	442	141.00	191
44.00	55	62.00	984	80.00	56	143.00	90
45.00	321	63.00	567	81.00	338	172.00	36
47.00	486	67.00	43	82.00	165	173.00	165
48.00	128	68.00	1530	87.00	656	174.00	12198
49.00	1207	69.00	1486	88.00	670	175.00	976
50.00	5452	70.00	184	91.00	80	176.00	11603
51.00	1690	72.00	68	92.00	465	177.00	817
52.00	45	73.00	541	93.00	608		

Report Date: 10-Nov-2020 04:45:38 Chrom Revision: 2.3 14-Oct-2020 14:51:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3764.D

Injection Date:	10-Nov-2020 03:19:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	bfb			Worklist Smp#:	41
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3769.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 10-Nov-2020 05:05:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 11-Nov-2020 07:38:56 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1640

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.965	2.965	0.000	0	46474	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.191	0.000	97	66586	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	80	4005	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.336	8.336	0.000	91	59839	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	35532	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.544	4.544	0.000	92	14103	50.0	50.8	
$ 6 Toluene-d8 (Surr)	98	6.788	6.788	0.000	96	54343	50.0	40.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	22566	50.0	49.4	
$ 8 BFB	95	9.678	9.678	0.000	79	29378	NR	NR	8

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test

Reagents:

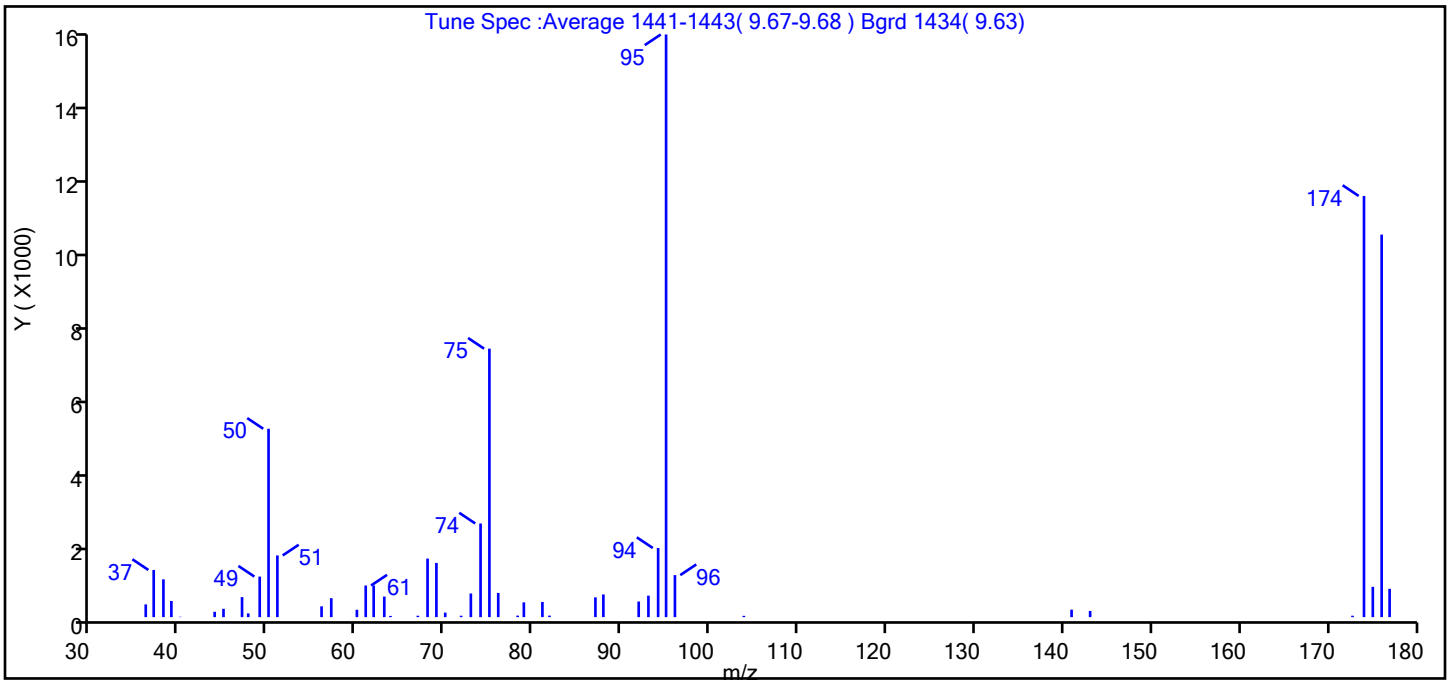
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3769.D
Injection Date: 10-Nov-2020 05:05:30 Instrument ID: Hobbes
Lims ID: bfb
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.3
75	30 to 60% of m/z 95	46.1
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	72.3
175	5 to 9% of m/z 174	5.2 (7.2)
176	Greater than 95% but less than 101% of m/z 174	65.7 (90.8)*
177	5 to 9% of m/z 176	4.9 (7.4)

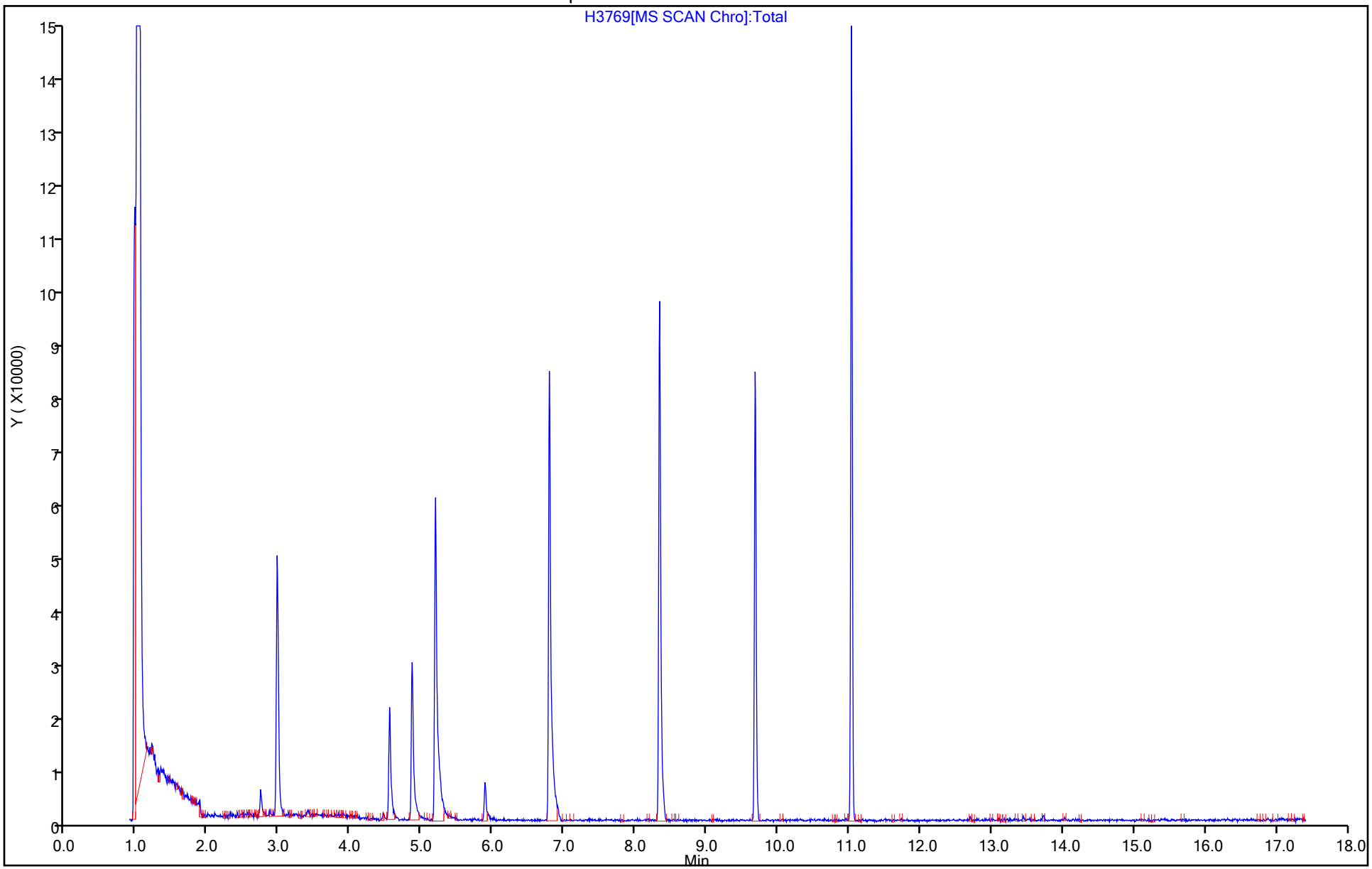
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3769.D\HVOA8260NEW.rslt\spectra.d
Injection Date: 10-Nov-2020 05:05:30
Spectrum: Tune Spec :Average 1441-1443(9.67-9.68) Bgrd 1434(9.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	349	56.00	296	73.00	648	94.00	1893
37.00	1292	57.00	519	74.00	2565	95.00	15953
38.00	1035	60.00	202	75.00	7351	96.00	1151
39.00	443	61.00	866	76.00	663	104.00	36
40.00	10	62.00	865	78.00	42	141.00	205
44.00	147	63.00	563	79.00	405	143.00	170
45.00	228	64.00	34	81.00	415	173.00	39
47.00	549	67.00	39	82.00	42	174.00	11532
48.00	102	68.00	1604	87.00	542	175.00	830
49.00	1110	69.00	1485	88.00	622	176.00	10474
50.00	5158	70.00	124	92.00	428	177.00	776
51.00	1690	72.00	39	93.00	589		

Report Date: 11-Nov-2020 07:38:56 Chrom Revision: 2.3 04-Nov-2020 10:46:10

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3769.D				
Injection Date:	10-Nov-2020 05:05:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	bfb			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3770.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 10-Nov-2020 05:27:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 11-Nov-2020 07:38:58 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: nelsonsa Date: 10-Nov-2020 06:13:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	50308	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.191	0.000	97	61008	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.886	5.886	0.000	88	4716	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.337	8.337	0.000	90	60662	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	37089	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	91	14279	50.0	56.2	
$ 6 Toluene-d8 (Surr)	98	6.788	6.788	0.000	95	66483	50.0	48.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	22679	50.0	47.5	
$ 8 BFB	95	9.684	9.684	0.000	83	30755	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

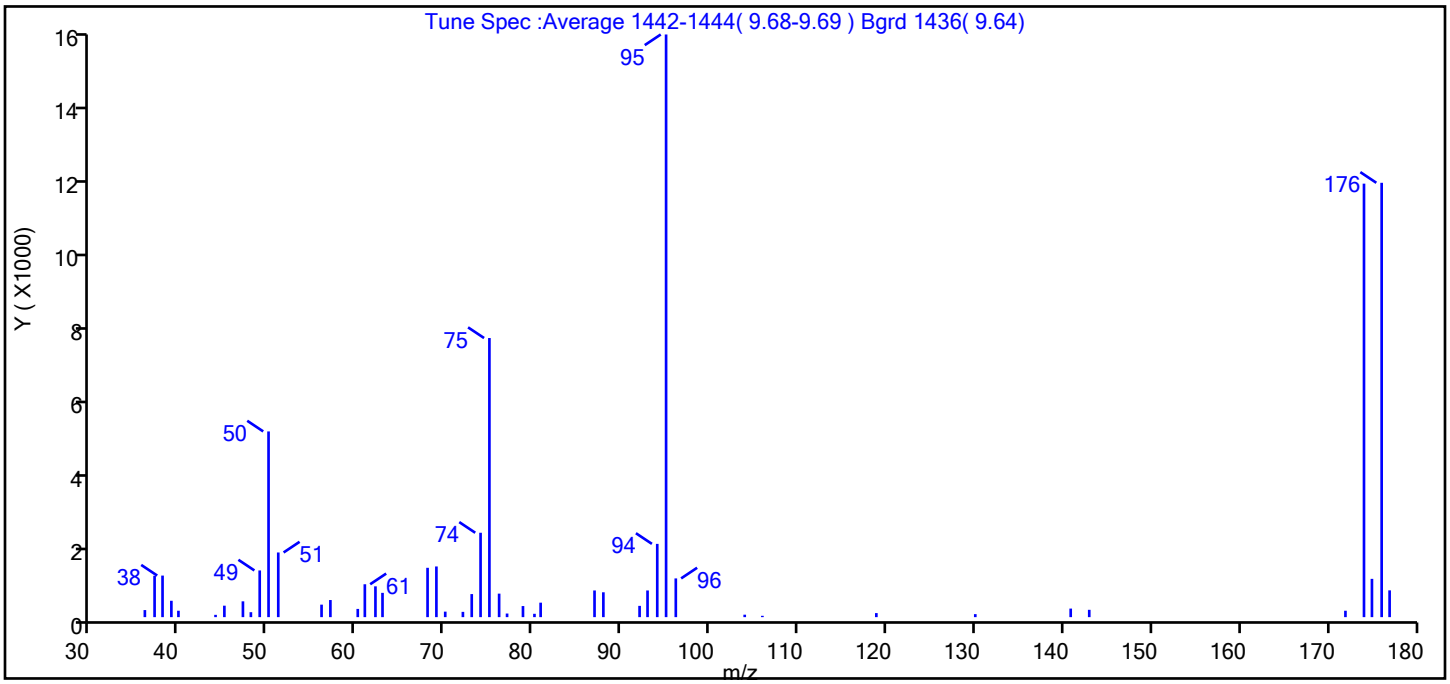
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3770.D
Injection Date: 10-Nov-2020 05:27:30 Instrument ID: Hobbes
Lims ID: bfb
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	31.9
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.4
175	5 to 9% of m/z 174	6.6 (8.8)
176	Greater than 95% but less than 101% of m/z 174	74.5 (100.2)
177	5 to 9% of m/z 176	4.6 (6.2)

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3770.D\HVOA8260NEW.rslt\spectra.d
Injection Date: 10-Nov-2020 05:27:30
Spectrum: Tune Spec :Average 1442-1444(9.68-9.69) Bgrd 1436(9.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

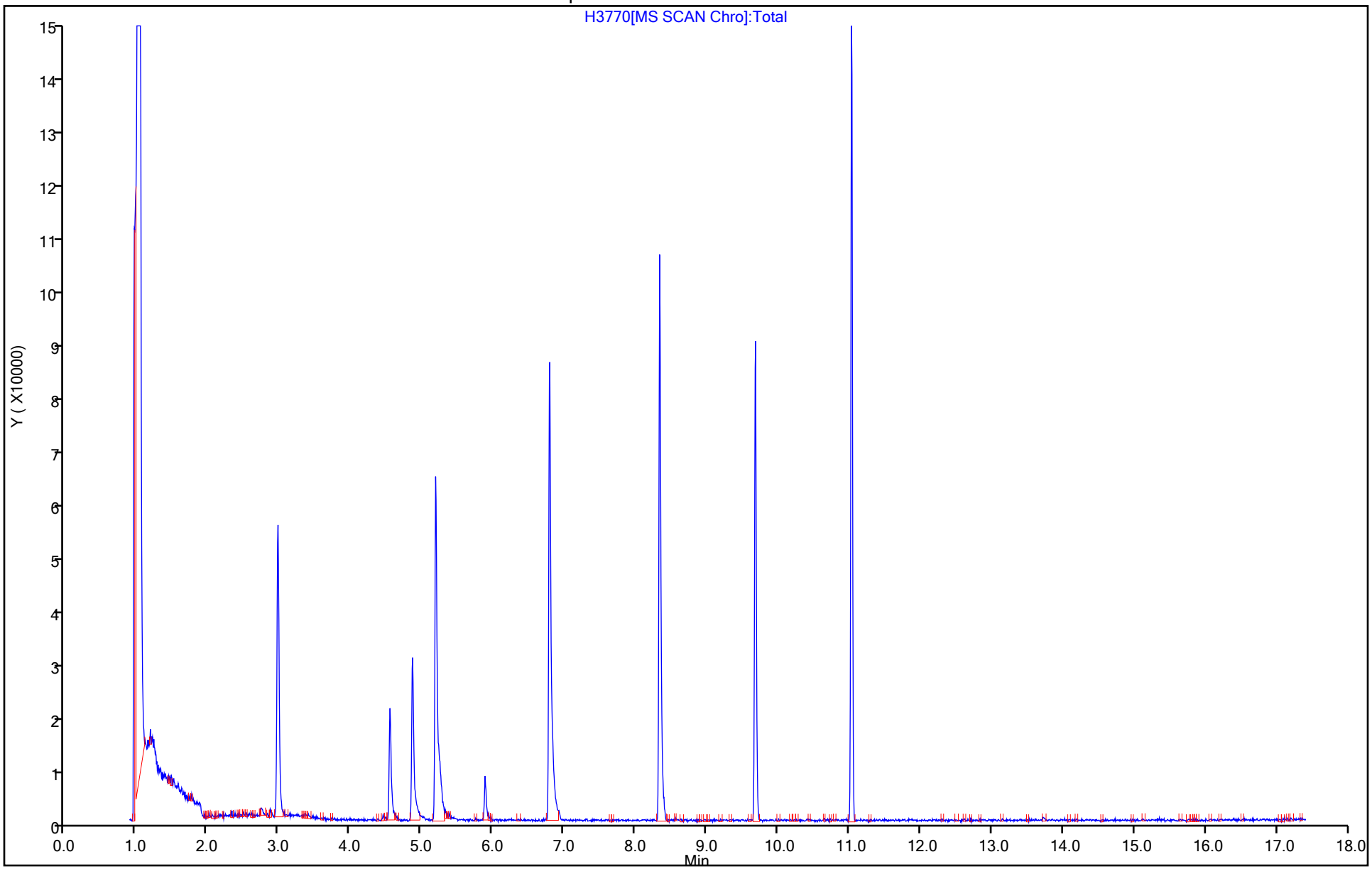
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	190	56.00	336	75.00	7501	96.00	1041
37.00	1113	57.00	460	76.00	632	104.00	66
38.00	1117	60.00	221	77.00	97	106.00	36
39.00	440	61.00	884	79.00	298	119.00	109
40.00	172	62.00	828	80.00	90	130.00	81
44.00	62	63.00	653	81.00	389	141.00	230
45.00	308	68.00	1326	87.00	717	143.00	197
47.00	425	69.00	1362	88.00	668	172.00	172
48.00	133	70.00	148	92.00	303	174.00	11650
49.00	1255	72.00	142	93.00	717	175.00	1029
50.00	4991	73.00	620	94.00	1969	176.00	11673
51.00	1738	74.00	2268	95.00	15659	177.00	720

Report Date: 11-Nov-2020 07:38:58 Chrom Revision: 2.3 04-Nov-2020 10:46:10

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201110-62542.b\H3770.D

Injection Date:	10-Nov-2020 05:27:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	bfb			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4274.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 19-Nov-2020 01:21:30 ALS Bottle#: 8 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-001
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:56:49 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 02:29:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.978	2.978	0.000	0	43970	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.191	0.000	97	49591	50.0	50.0	
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	83	4508	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.337	8.337	0.000	92	51824	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	33929	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.551	0.000	92	11230	50.0	54.3	
$ 6 Toluene-d8 (Surr)	98	6.788	6.788	0.000	96	52798	50.0	45.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	21847	50.0	50.0	
$ 8 BFB	95	9.678	9.678	0.000	80	27166	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

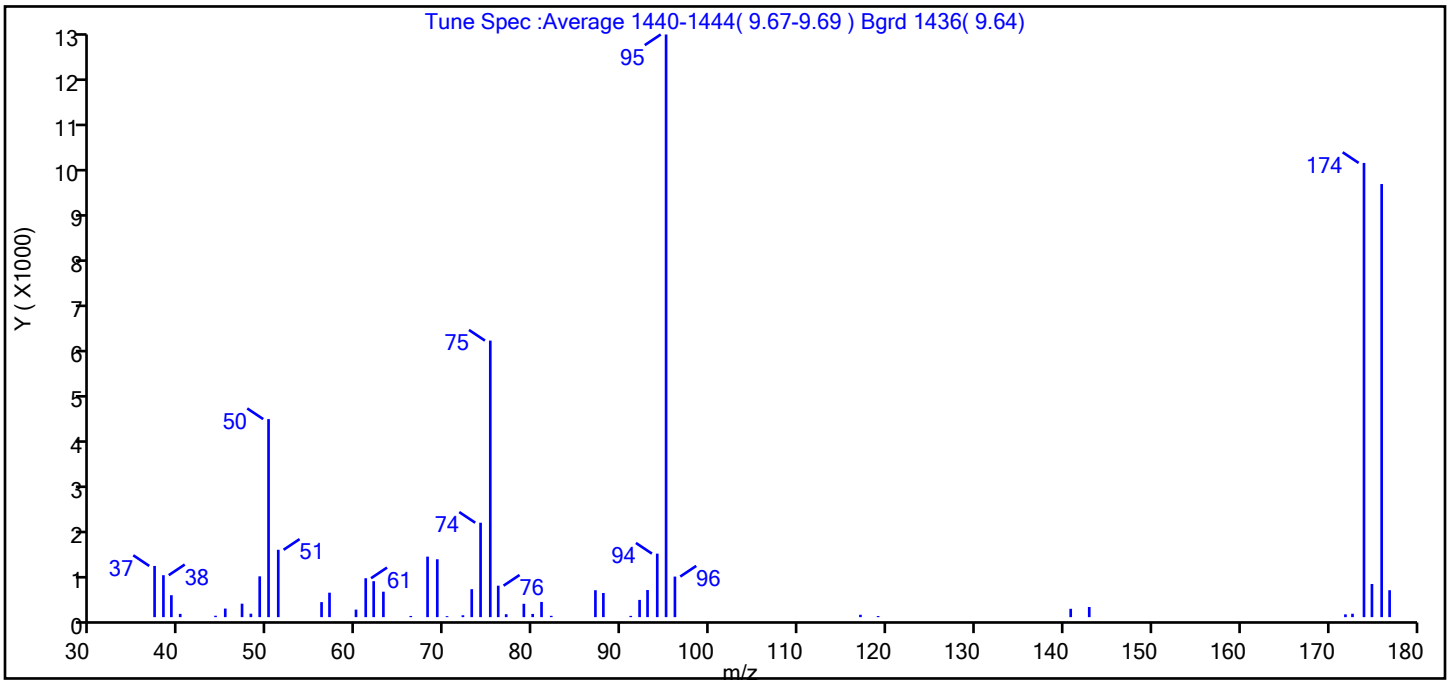
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4274.D
Injection Date: 19-Nov-2020 01:21:30 Instrument ID: Hobbes
Lims ID: bfb
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	34.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.6 (0.8)
174	50 to 120% of m/z 95	78.0
175	5 to 9% of m/z 174	5.7 (7.3)
176	Greater than 95% but less than 101% of m/z 174	74.3 (95.4)
177	5 to 9% of m/z 176	4.6 (6.2)

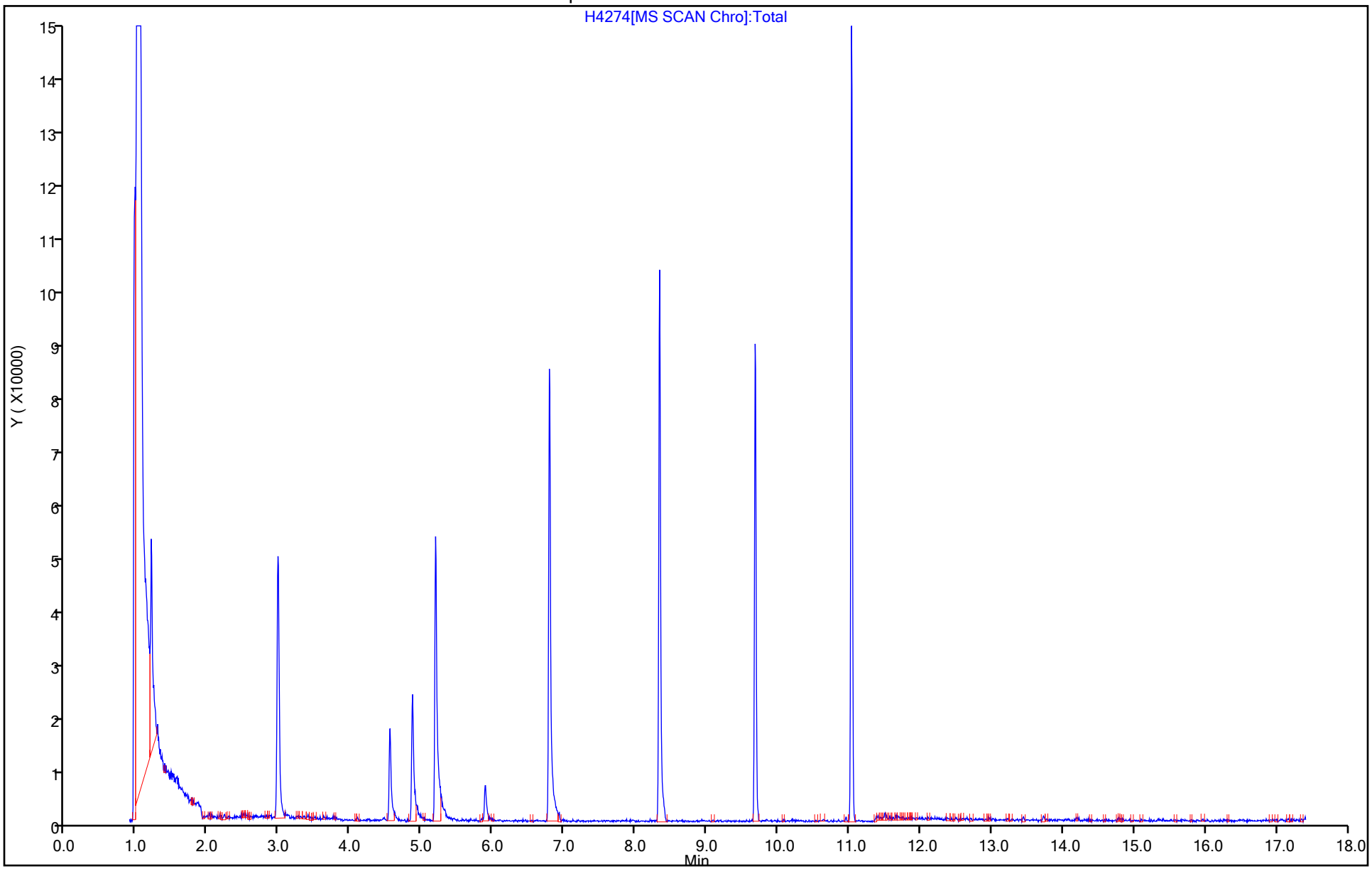
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4274.D\HVOA8260NEW.rslt\spectra.d
Injection Date: 19-Nov-2020 01:21:30
Spectrum: Tune Spec :Average 1440-1444(9.67-9.69) Bgrd 1436(9.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1080	60.00	159	77.00	62	117.00	50
38.00	885	61.00	821	79.00	282	119.00	23
39.00	463	62.00	759	80.00	68	141.00	176
40.00	69	63.00	537	81.00	321	143.00	214
44.00	30	66.00	25	82.00	28	172.00	59
45.00	181	68.00	1277	87.00	568	173.00	72
47.00	284	69.00	1221	88.00	509	174.00	9582
48.00	73	70.00	21	91.00	27	175.00	699
49.00	861	72.00	40	92.00	364	176.00	9137
50.00	4178	73.00	590	93.00	572	177.00	568
51.00	1421	74.00	1992	94.00	1340		
56.00	317	75.00	5834	95.00	12292		
57.00	516	76.00	664	96.00	856		

Report Date: 20-Nov-2020 06:56:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4274.D				
Injection Date:	19-Nov-2020 01:21:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	bfb			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299509/8

Matrix: Water Lab File ID: c8232.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299509/8

Matrix: Water Lab File ID: c8232.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8232.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2020 07:19:30 ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:53:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.361	3.385	-0.024	0	409	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	195643	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	95	5922	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	140268	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	62867	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	44756	50.0	51.0	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	96	184303	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	82	49337	50.0	48.0	
$ 8 BFB	95	9.920	9.920	0.000	82	68204		NR	
9 Dichlorodifluoromethane	85		1.288					ND	
10 Chloromethane	50		1.526					ND	
11 Vinyl chloride	62		1.532					ND	
12 Butadiene	54		1.568					ND	
13 Bromomethane	94		1.837					ND	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45		2.373					ND	
18 Ethyl ether	59		2.465					ND	
19 Acrolein	56		2.556					ND	
20 1,1-Dichloroethene	96		2.660					ND	
21 112TCTFE	101		2.678					ND	
22 Acetone	43		2.715					ND	
23 Iodomethane	142		2.775					ND	
24 Carbon disulfide	76		2.843					ND	
105 Isopropyl alcohol	45		2.885					ND	
118 Acetonitrile	40		2.964					ND	
25 3-Chloro-1-propene	76		3.007					ND	
26 Methyl acetate	43		3.038					ND	
27 Methylene Chloride	84		3.111					ND	
35 2-Methyl-2-propanol	59		3.269					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.349					ND	
28 trans-1,2-Dichloroethene	96		3.391					ND	
29 Methyl tert-butyl ether	73		3.403					ND	
31 Hexane	57		3.702					ND	
32 1,1-Dichloroethane	63		3.781					ND	
33 Vinyl acetate	86		3.848					ND	
34 2-Chloro-1,3-butadiene	53		3.879					ND	
36 Isopropyl ether	87		3.909					ND	
37 Tert-butyl ethyl ether	59		4.239					ND	
38 2,2-Dichloropropane	77		4.324					ND	
39 cis-1,2-Dichloroethene	96		4.330					ND	
40 2-Butanone (MEK)	43		4.348					ND	
41 Propionitrile	54		4.391					ND	
104 Ethyl acetate	61		4.428					ND	
43 Methacrylonitrile	67		4.543					ND	
42 Chlorobromomethane	128		4.550					ND	
44 Tetrahydrofuran	71		4.604					ND	
45 Chloroform	83		4.641					ND	
46 1,1,1-Trichloroethane	97		4.806					ND	
47 Cyclohexane	56		4.867					ND	
48 Carbon tetrachloride	117		4.970					ND	
49 1,1-Dichloropropene	75		4.976					ND	
108 Isobutyl alcohol	43		5.116					ND	
51 1,2-Dichloroethane	62		5.171					ND	
50 Benzene	78		5.177					ND	
116 n-Butanol	56		5.299					ND	
52 Tert-amyl methyl ether	73		5.312					ND	
53 n-Heptane	43		5.476					ND	
54 Trichloroethene	95		5.805					ND	
117 Ethyl acrylate	55		5.939					ND	
114 Methylcyclohexane	83		6.013					ND	
55 1,2-Dichloropropane	63		6.019					ND	
56 Dibromomethane	93		6.122					ND	
115 1,4-Dioxane	58	6.165	6.159	0.006	1	255			0
57 Methyl methacrylate	69		6.165					ND	
58 Dichlorobromomethane	83		6.293					ND	
106 2-Nitropropane	43		6.525					ND	
59 2-Chloroethyl vinyl ether	63		6.622					ND	
60 cis-1,3-Dichloropropene	75		6.756					ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933					ND	
62 Toluene	92		7.116					ND	
63 trans-1,3-Dichloropropene	75		7.342					ND	
64 Ethyl methacrylate	69		7.464					ND	
65 1,1,2-Trichloroethane	83		7.531					ND	
66 Tetrachloroethene	166		7.689					ND	
67 1,3-Dichloropropane	76		7.707					ND	
68 2-Hexanone	43		7.823					ND	
69 Chlorodibromomethane	129		7.945					ND	
109 n-Butyl acetate	43		7.976					ND	
70 Ethylene Dibromide	107		8.061					ND	
71 Chlorobenzene	112		8.616					ND	
72 1,1,1,2-Tetrachloroethane	131		8.707					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750					ND	
74 m-Xylene & p-Xylene	106		8.890					ND	
75 o-Xylene	106		9.329					ND	
76 Styrene	104		9.347					ND	
77 Bromoform	173		9.530					ND	
78 Isopropylbenzene	105		9.762					ND	
79 Bromobenzene	156		10.085					ND	
80 1,1,2,2-Tetrachloroethane	83		10.103					ND	
81 1,2,3-Trichloropropane	110		10.140					ND	
82 trans-1,4-Dichloro-2-butene	53		10.170					ND	
83 N-Propylbenzene	91		10.237					ND	
84 2-Chlorotoluene	91		10.323					ND	
85 4-Chlorotoluene	91		10.451					ND	
86 1,3,5-Trimethylbenzene	105		10.457					ND	
87 tert-Butylbenzene	119		10.835					ND	
88 1,2,4-Trimethylbenzene	105	10.884	10.890	-0.006	1	489		0.0502	a
89 sec-Butylbenzene	105	11.085	11.097	-0.012	84	601		0.0515	a
90 1,3-Dichlorobenzene	146	11.207	11.201	0.006	84	549		0.1071	Ma
91 4-Isopropyltoluene	119	11.280	11.280	0.000	47	574		0.0613	
92 1,4-Dichlorobenzene	146		11.304					ND	
110 1,2,3-Trimethylbenzene	105		11.384					ND	
113 Benzyl chloride	126		11.475					ND	
93 1,2-Dichlorobenzene	146	11.737	11.743	-0.006	18	774		0.1648	
94 n-Butylbenzene	91	11.762	11.768	-0.006	5	1072		0.1301	
95 1,2-Dibromo-3-Chloropropane	75		12.676					ND	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	89	1144		0.3988	
112 1,3,5-Trichlorobenzene	180	13.682	13.688	-0.006	90	1708		0.7128	
97 Hexachlorobutadiene	225	13.920	13.926	-0.006	85	697		0.5972	
98 Naphthalene	128	13.975	13.975	0.001	97	6648		1.27	
99 1,2,3-Trichlorobenzene	180	14.267	14.273	-0.006	91	2797		1.46	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
132 t-Amyl alcohol	1		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
133 Isooctane	57		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
138 Dodecane	57		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
139 C6-C12	1		0.000					ND	
136 n-Decane	57		0.000					ND	
131 1-Chlorohexane	55		0.000					ND	
137 C6-C10	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43		4.690					ND	
S 101 1,2-Dichloroethene, Total	1		0.000					ND	
S 100 Xylenes, Total	1		0.000					ND	
S 102 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

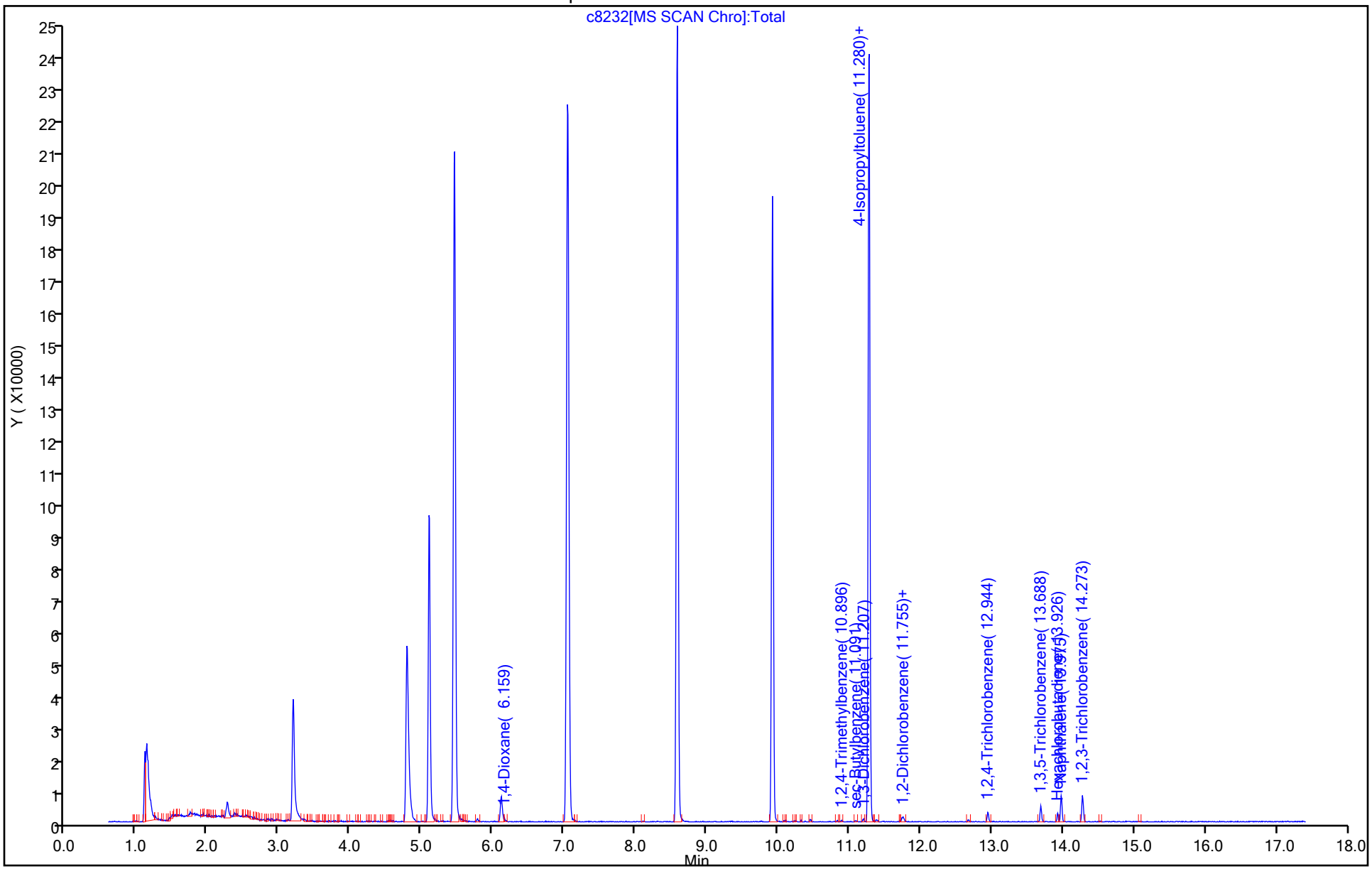
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8232.D

Injection Date:	18-Nov-2020 07:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	mb			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8232.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2020 07:19:30 ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:53:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.0	102.08
$ 6 Toluene-d8 (Surr)	50.0	51.2	102.50
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.0	95.94

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

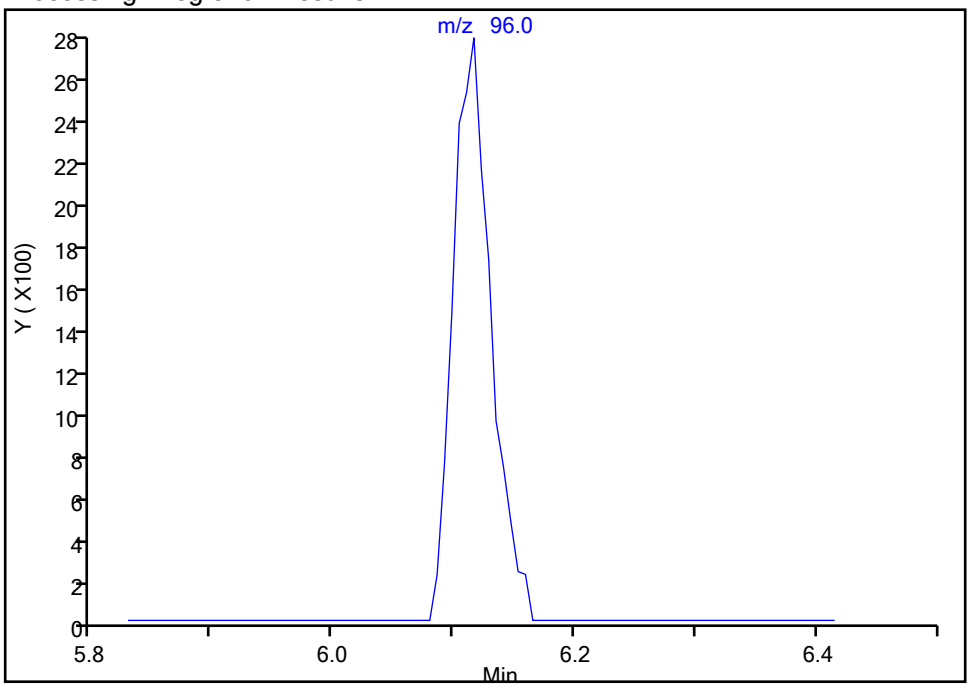
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8232.D
Injection Date: 18-Nov-2020 07:19:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

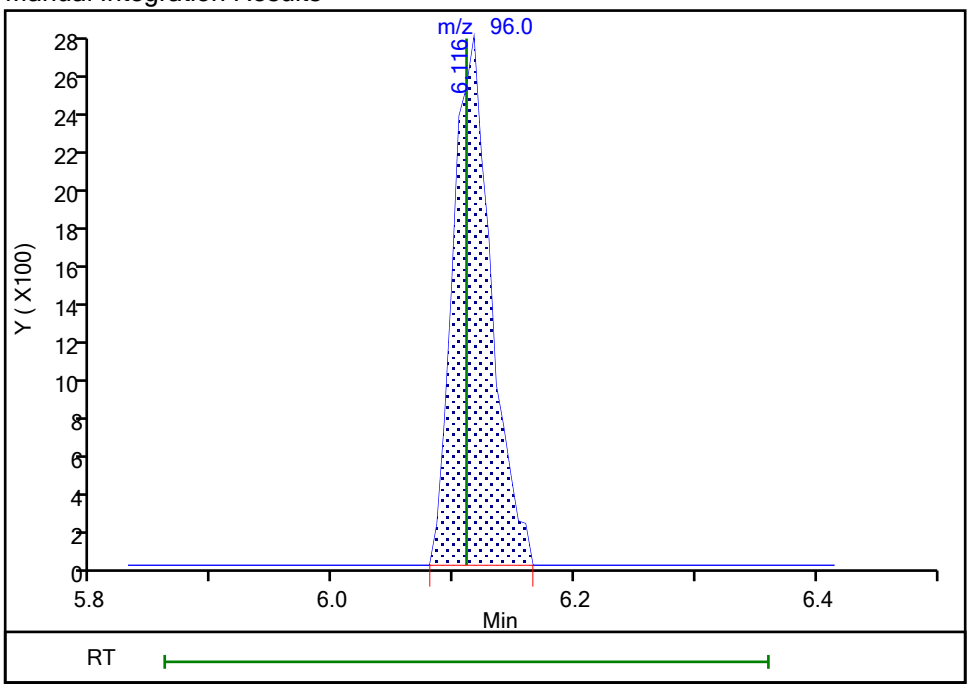
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5922
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:53:21
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299687/7

Matrix: Water Lab File ID: H4279.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 03:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299687/7

Matrix: Water Lab File ID: H4279.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 03:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	94		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Report Date: 20-Nov-2020 06:57:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2020 03:13:30 ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-007
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 11:29:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	42710	1000.0	1000.0	
* 134 1,2-Dichloroethane-d4 ISTD	65	4.868	4.868	0.000	0	17961		0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	97	58280	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	91	4961	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	90	54474	50.0	50.0	M
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	95	35169	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	92	12572	50.0	51.8	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	57397	50.0	46.9	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.678	9.684	-0.006	0	22283	50.0	49.2	
$ 8 BFB	95	9.678	9.684	-0.006	81	28589		NR	
9 Dichlorodifluoromethane	85		1.124					ND	U
10 Chloromethane	50		1.265					ND	
11 Vinyl chloride	62		1.350					ND	
12 Butadiene	54		1.387					ND	
13 Bromomethane	94		1.612					ND	
14 Chloroethane	64		1.698					ND	
15 Dichlorofluoromethane	67		1.893					ND	
16 Trichlorofluoromethane	101		1.929					ND	
17 Ethanol	45		2.161					ND	
18 Ethyl ether	59		2.222					ND	
19 Acrolein	56		2.332					ND	
20 1,1-Dichloroethene	96		2.411					ND	
21 112TCTFE	101		2.423					ND	
22 Acetone	43		2.490					ND	
23 Iodomethane	142		2.533					ND	
24 Carbon disulfide	76		2.582					ND	
105 Isopropyl alcohol	45		2.673					ND	
118 Acetonitrile	40		2.740					ND	
25 3-Chloro-1-propene	76		2.758					ND	
26 Methyl acetate	43		2.807					ND	
27 Methylene Chloride	84		2.874					ND	
35 2-Methyl-2-propanol	59		3.057					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.124					ND	
28 trans-1,2-Dichloroethene	96		3.130					ND	
29 Methyl tert-butyl ether	73		3.155					ND	
31 Hexane	57		3.392					ND	U
32 1,1-Dichloroethane	63		3.526					ND	
33 Vinyl acetate	86		3.618					ND	
34 2-Chloro-1,3-butadiene	53		3.618					ND	
36 Isopropyl ether	87		3.636					ND	
37 Tert-butyl ethyl ether	59		3.978					ND	
38 2,2-Dichloropropane	77		4.069					ND	
39 cis-1,2-Dichloroethene	96		4.087					ND	
40 2-Butanone (MEK)	43		4.136					ND	
41 Propionitrile	54		4.185					ND	
104 Ethyl acetate	43		4.203					ND	
42 Chlorobromomethane	128		4.307					ND	
43 Methacrylonitrile	67		4.325					ND	
44 Tetrahydrofuran	71		4.380					ND	
45 Chloroform	83		4.398					ND	
46 1,1,1-Trichloroethane	97		4.551					ND	
47 Cyclohexane	56		4.599					ND	
48 Carbon tetrachloride	117		4.709					ND	
49 1,1-Dichloropropene	75		4.721					ND	
50 Benzene	78		4.916					ND	
108 Isobutyl alcohol	43		4.923					ND	
51 1,2-Dichloroethane	62		4.941					ND	
116 n-Butanol	56		5.008					ND	
52 Tert-amyl methyl ether	73		5.057					ND	
53 n-Heptane	43		5.203					ND	
54 Trichloroethene	132		5.550					ND	
117 Ethyl acrylate	55		5.709					ND	
114 Methylcyclohexane	83		5.733					ND	
55 1,2-Dichloropropane	63		5.776					ND	
56 Dibromomethane	93		5.886					ND	
57 Methyl methacrylate	69		5.935					ND	
115 1,4-Dioxane	58		5.935					ND	
58 Dichlorobromomethane	83		6.063					ND	
106 2-Nitropropane	43		6.306					ND	
59 2-Chloroethyl vinyl ether	63		6.398					ND	
60 cis-1,3-Dichloropropene	75		6.520					ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.709					ND	
62 Toluene	92		6.861					ND	
63 trans-1,3-Dichloropropene	75		7.111					ND	
64 Ethyl methacrylate	69		7.239					ND	
65 1,1,2-Trichloroethane	83		7.300					ND	
66 Tetrachloroethene	166		7.434					ND	
67 1,3-Dichloropropane	76		7.477					ND	
68 2-Hexanone	43		7.599					ND	
69 Chlorodibromomethane	129		7.709					ND	
109 n-Butyl acetate	43		7.751					ND	
70 Ethylene Dibromide	107		7.818					ND	
71 Chlorobenzene	112		8.373					ND	
72 1,1,1,2-Tetrachloroethane	131		8.471					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.507					ND	
74 m-Xylene & p-Xylene	106		8.647					ND	
75 o-Xylene	106		9.086					ND	
120 Methyl n-amyl ketone TIC	1		9.100					ND	
76 Styrene	104		9.105					ND	
77 Bromoform	173		9.294					ND	
78 Isopropylbenzene	105		9.519					ND	
79 Bromobenzene	156		9.842					ND	
80 1,1,2,2-Tetrachloroethane	83		9.873					ND	
81 1,2,3-Trichloropropane	75		9.909					ND	
82 trans-1,4-Dichloro-2-butene	53		9.940					ND	
83 N-Propylbenzene	91		10.001					ND	
84 2-Chlorotoluene	91		10.080					ND	
85 4-Chlorotoluene	91		10.208					ND	
86 1,3,5-Trimethylbenzene	105		10.214					ND	
87 tert-Butylbenzene	119		10.586					ND	
88 1,2,4-Trimethylbenzene	105		10.647					ND	
89 sec-Butylbenzene	105		10.854					ND	
90 1,3-Dichlorobenzene	146		10.952					ND	
91 4-Isopropyltoluene	119		11.037					ND	
92 1,4-Dichlorobenzene	146		11.062					ND	
110 1,2,3-Trimethylbenzene	105		11.141					ND	
113 Benzyl chloride	126		11.232					ND	
93 1,2-Dichlorobenzene	146	11.507	11.501	0.006	1	630		0.1542	
94 n-Butylbenzene	91	11.519	11.519	0.000	1	204		0.0398	a
95 1,2-Dibromo-3-Chloropropane	75		12.439					ND	
112 1,3,5-Trichlorobenzene	180	12.702	12.695	0.007	1	260		-0.2924	a
96 1,2,4-Trichlorobenzene	180	13.451	13.445	0.006	1	346		0.1643	M
97 Hexachlorobutadiene	225		13.671					ND	
98 Naphthalene	128	13.726	13.726	0.000	88	1372		0.2016	a
99 1,2,3-Trichlorobenzene	180		14.024					ND	
138 Dodecane	57		0.000					ND	
131 1-Chlorohexane	55		0.000					ND	
132 t-Amyl alcohol	1		0.000					ND	
139 C6-C12	1		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
133 Isooctane	57		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
137 C6-C10	1		0.000					ND	
136 n-Decane	57		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
S 101 1,2-Dichloroethene, Total	1		0.000					ND	
S 100 Xylenes, Total	1		0.000					ND	
S 102 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 06:57:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D

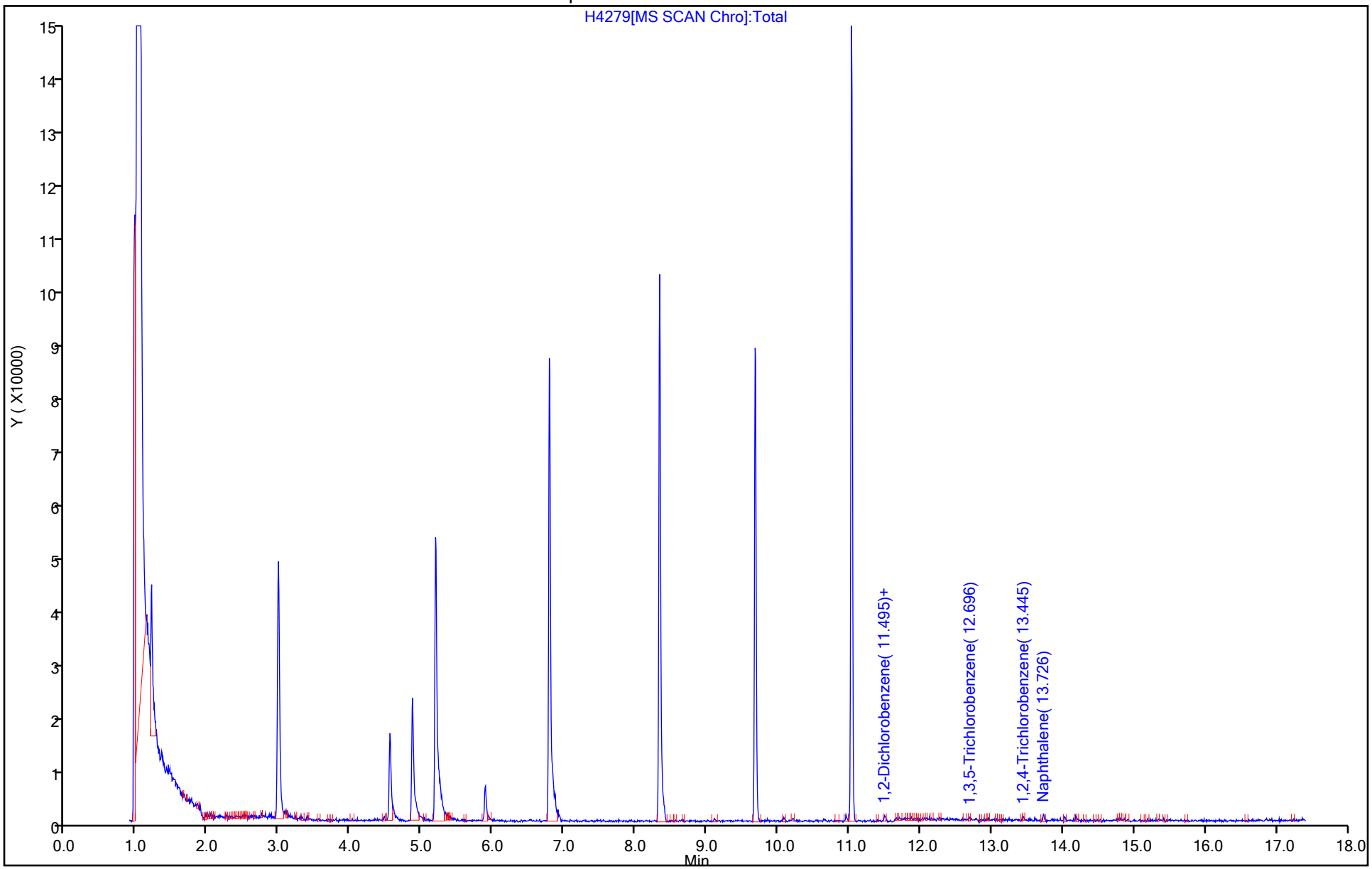
Injection Date: 19-Nov-2020 03:13:30 Instrument ID: Hobbes Operator ID:

Lims ID: mb Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2020 03:13:30 ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-007
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 11:29:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.8	103.54
$ 6 Toluene-d8 (Surr)	50.0	46.9	93.77
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.2	98.47

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

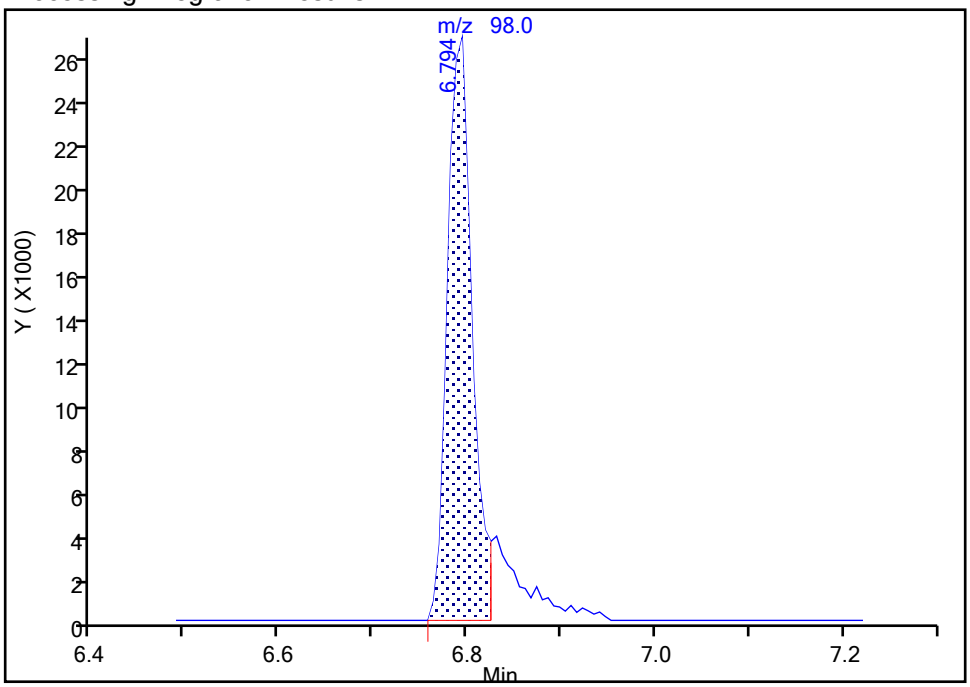
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Injection Date: 19-Nov-2020 03:13:30 Instrument ID: Hobbes
Lims ID: mb
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

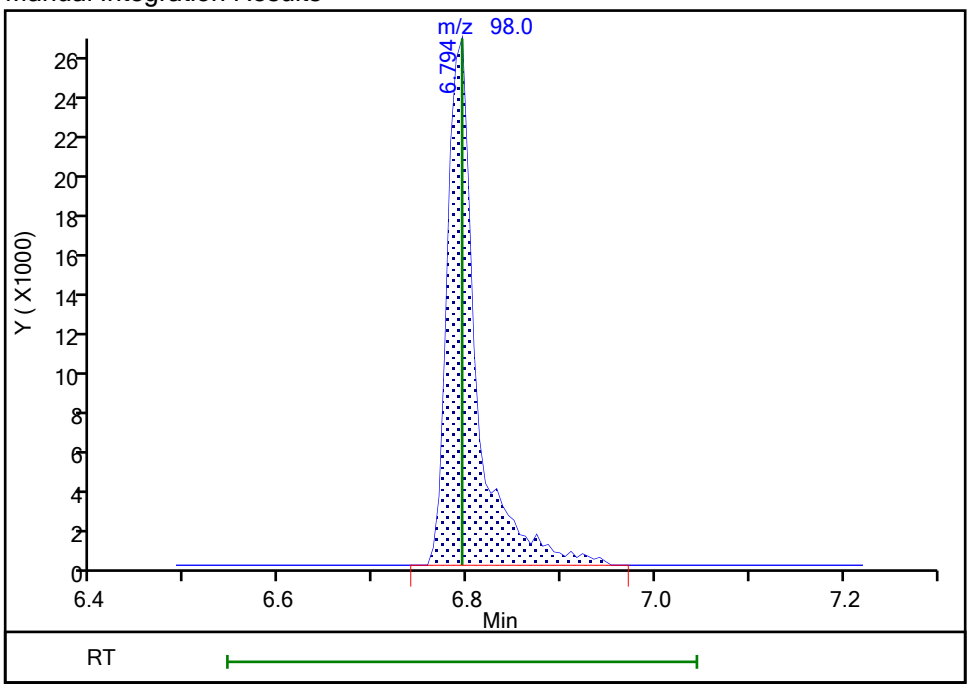
Processing Integration Results

RT: 6.79
Area: 48731
Amount: 39.805538
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 57397
Amount: 46.884293
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:28:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

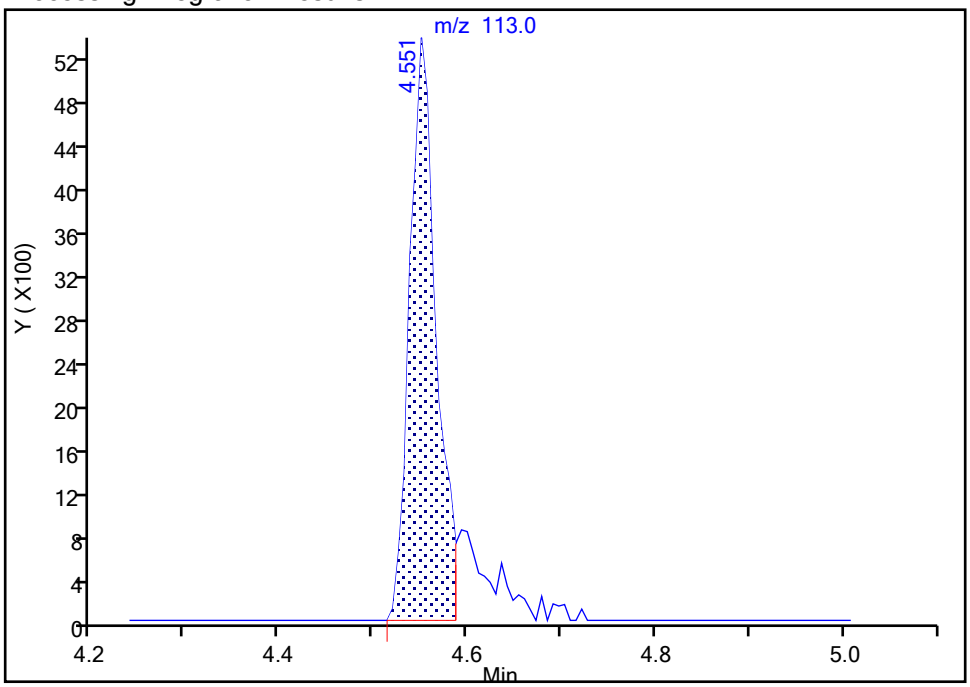
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Injection Date: 19-Nov-2020 03:13:30 Instrument ID: Hobbes
Lims ID: mb
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

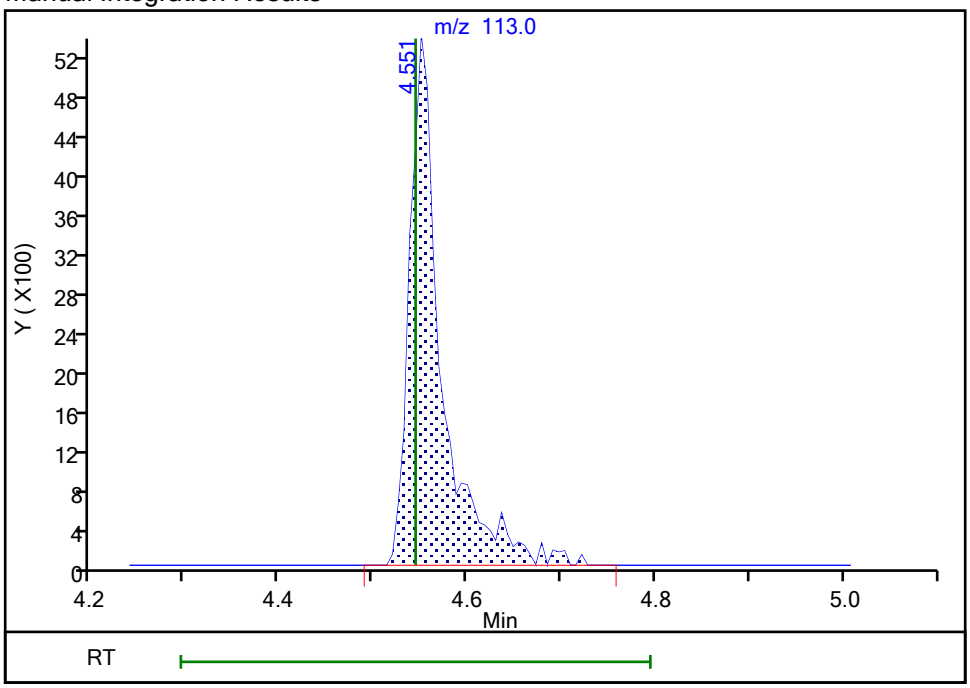
Processing Integration Results

RT: 4.55
Area: 10381
Amount: 42.746015
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 12572
Amount: 51.767932
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:28:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

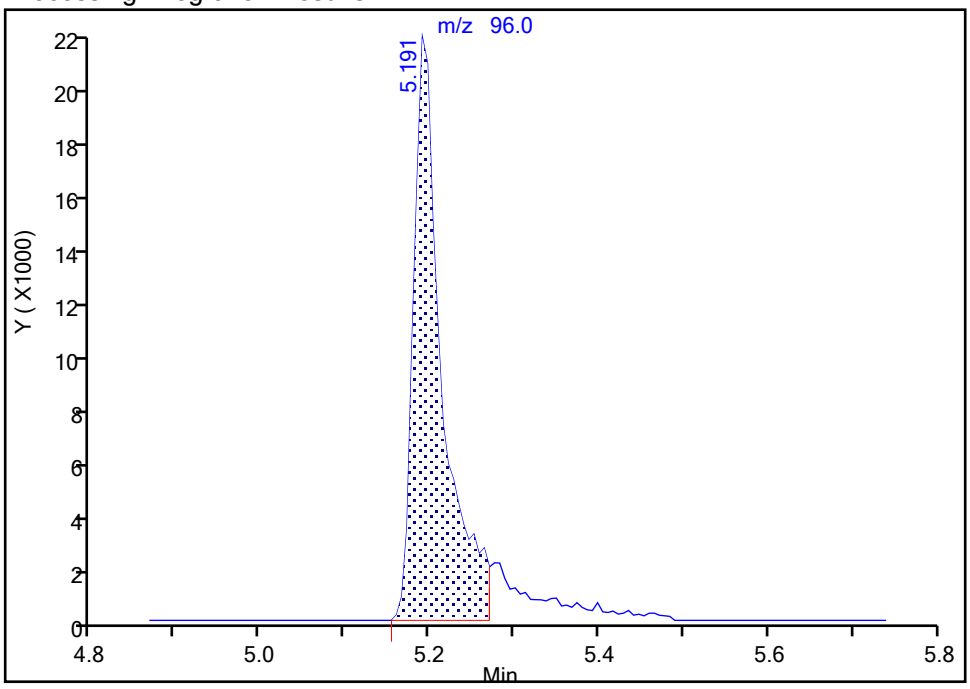
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Injection Date: 19-Nov-2020 03:13:30 Instrument ID: Hobbes
Lims ID: mb
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

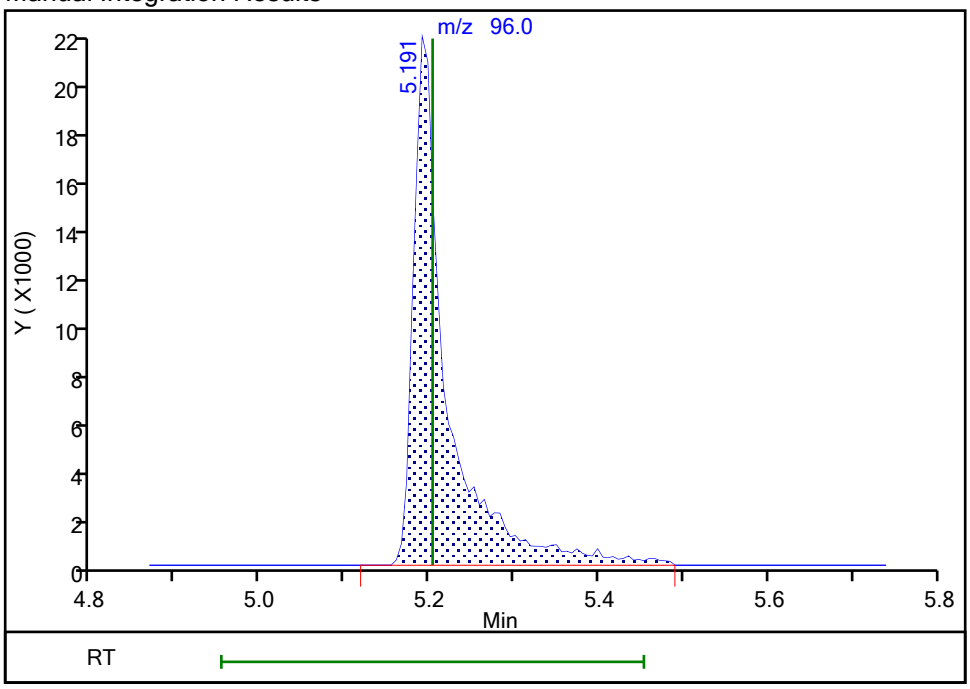
Processing Integration Results

RT: 5.19
Area: 50175
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 58280
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:28:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

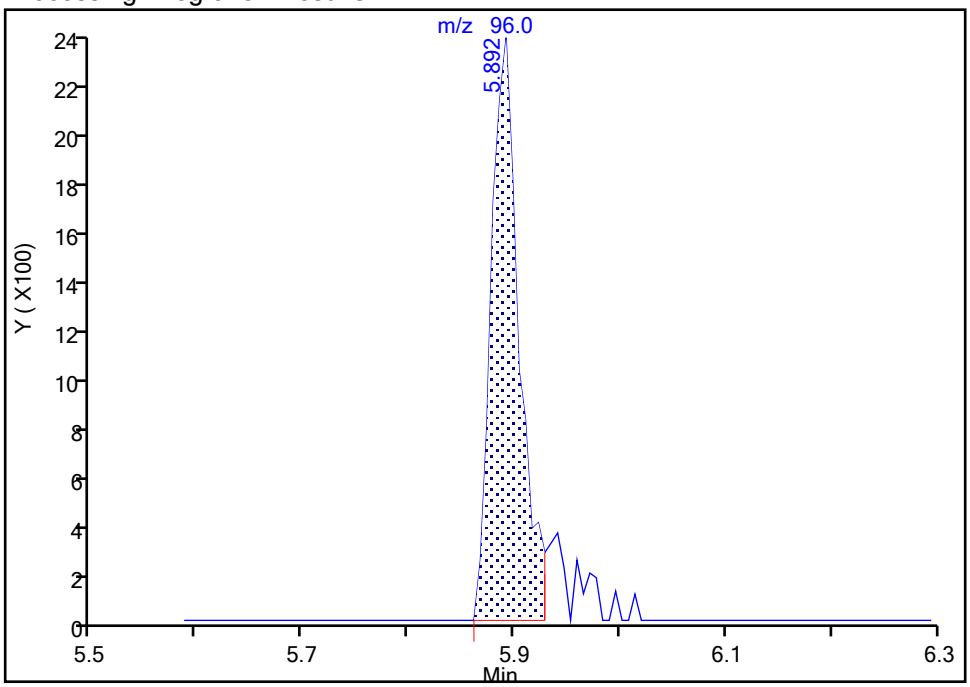
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Injection Date: 19-Nov-2020 03:13:30 Instrument ID: Hobbes
Lims ID: mb
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

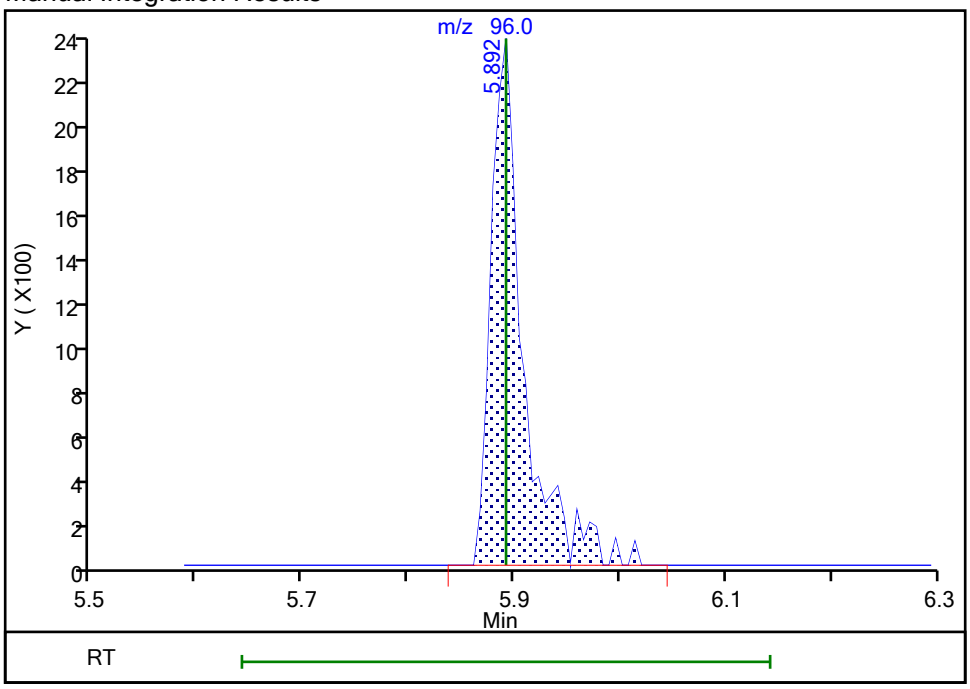
Processing Integration Results

RT: 5.89
Area: 4302
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 4961
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:28:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

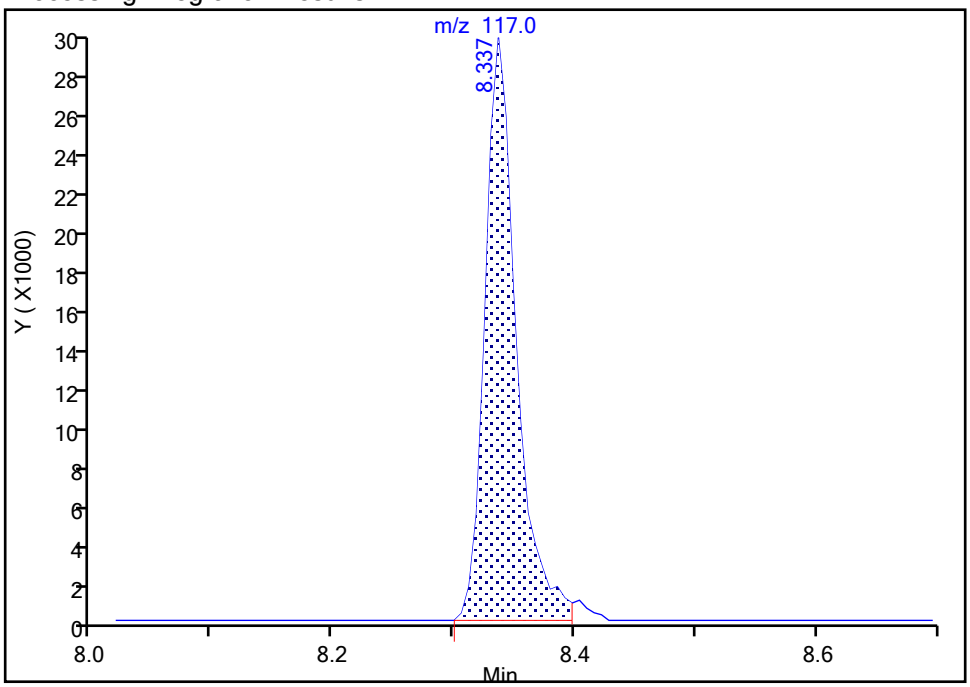
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4279.D
Injection Date: 19-Nov-2020 03:13:30 Instrument ID: Hobbes
Lims ID: mb
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 3 Chlorobenzene-d5, CAS: 3114-55-4

Signal: 1

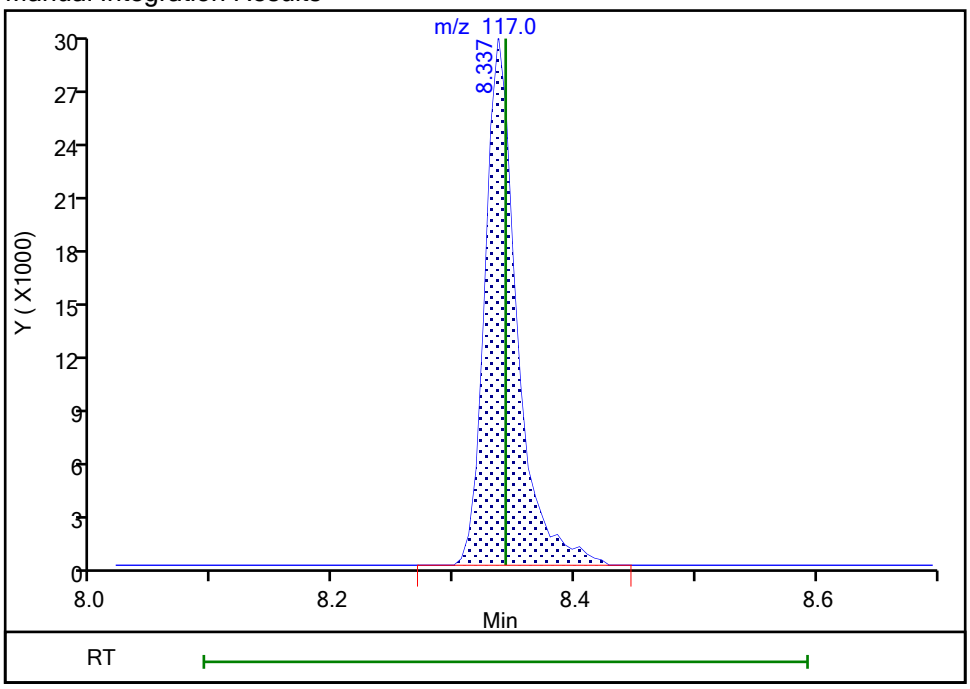
Processing Integration Results

RT: 8.34
Area: 53624
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 8.34
Area: 54474
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:28:22
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299697/8

Matrix: Water Lab File ID: c8262.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 19:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299697/8

Matrix: Water Lab File ID: c8262.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 19:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	105		79-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8262.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2020 19:34:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:34:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.391	3.409	-0.018	0	60	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.452	0.006	98	173381	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	94	5705	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	121255	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	54813	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	92	40063	50.0	51.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	162521	50.0	52.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	83	43132	50.0	48.1	
$ 8 BFB	95	9.920	9.920	0.000	80	59801		NR	
9 Dichlorodifluoromethane	85		1.288					ND	
10 Chloromethane	50		1.526					ND	
11 Vinyl chloride	62		1.532					ND	
12 Butadiene	54		1.568					ND	
13 Bromomethane	94		1.837					ND	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45		2.373					ND	
18 Ethyl ether	59		2.458					ND	
19 Acrolein	56		2.562					ND	
20 1,1-Dichloroethene	96		2.653					ND	
21 112TCTFE	101		2.672					ND	
22 Acetone	43		2.714					ND	
23 Iodomethane	142		2.775					ND	
24 Carbon disulfide	76	2.830	2.836	-0.006	43	640		0.1212	a
105 Isopropyl alcohol	45		2.885					ND	
118 Acetonitrile	40		2.958					ND	
25 3-Chloro-1-propene	76		3.007					ND	
26 Methyl acetate	43		3.037					ND	
27 Methylene Chloride	84		3.111					ND	
35 2-Methyl-2-propanol	59		3.269					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348					ND	
28 trans-1,2-Dichloroethene	96		3.385					ND	
29 Methyl tert-butyl ether	73		3.397					ND	
31 Hexane	57		3.702					ND	
32 1,1-Dichloroethane	63		3.775					ND	
33 Vinyl acetate	86		3.848					ND	
34 2-Chloro-1,3-butadiene	53		3.873					ND	
36 Isopropyl ether	87		3.909					ND	
37 Tert-butyl ethyl ether	59		4.238					ND	
38 2,2-Dichloropropane	77		4.324					ND	
39 cis-1,2-Dichloroethene	96	4.324	4.330	-0.006	80	1239		0.5322	M
40 2-Butanone (MEK)	43		4.348					ND	
41 Propionitrile	54		4.391					ND	
104 Ethyl acetate	61		4.421					ND	
43 Methacrylonitrile	67		4.543					ND	
42 Chlorobromomethane	128		4.549					ND	
44 Tetrahydrofuran	71		4.604					ND	
45 Chloroform	83		4.641					ND	
46 1,1,1-Trichloroethane	97		4.805					ND	
47 Cyclohexane	56		4.860					ND	
48 Carbon tetrachloride	117		4.964					ND	
49 1,1-Dichloropropene	75		4.976					ND	
108 Isobutyl alcohol	43		5.122					ND	
51 1,2-Dichloroethane	62		5.171					ND	
50 Benzene	78		5.177					ND	
116 n-Butanol	56		5.293					ND	
52 Tert-amyl methyl ether	73		5.311					ND	
53 n-Heptane	43		5.482					ND	
54 Trichloroethene	95		5.805					ND	
117 Ethyl acrylate	55		5.933					ND	
114 Methylcyclohexane	83		6.012					ND	
55 1,2-Dichloropropane	63		6.019					ND	
56 Dibromomethane	93		6.122					ND	
57 Methyl methacrylate	69		6.165					ND	
115 1,4-Dioxane	58		6.165					ND	
58 Dichlorobromomethane	83		6.293					ND	
106 2-Nitropropane	43		6.525					ND	
59 2-Chloroethyl vinyl ether	63		6.622					ND	
60 cis-1,3-Dichloropropene	75		6.756					ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939					ND	
62 Toluene	92		7.116					ND	
63 trans-1,3-Dichloropropene	75		7.341					ND	
64 Ethyl methacrylate	69		7.463					ND	
65 1,1,2-Trichloroethane	83		7.530					ND	
66 Tetrachloroethene	166		7.689					ND	
67 1,3-Dichloropropane	76		7.707					ND	
68 2-Hexanone	43		7.823					ND	
69 Chlorodibromomethane	129		7.945					ND	
109 n-Butyl acetate	43		7.975					ND	
70 Ethylene Dibromide	107		8.061					ND	
71 Chlorobenzene	112		8.616					ND	
72 1,1,1,2-Tetrachloroethane	131		8.713					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756					ND	
74 m-Xylene & p-Xylene	106		8.890					ND	
75 o-Xylene	106		9.335					ND	
76 Styrene	104		9.347					ND	
77 Bromoform	173		9.530					ND	
78 Isopropylbenzene	105		9.762					ND	
79 Bromobenzene	156		10.085					ND	
80 1,1,2,2-Tetrachloroethane	83		10.103					ND	
81 1,2,3-Trichloropropane	110		10.140					ND	
82 trans-1,4-Dichloro-2-butene	53		10.170					ND	
83 N-Propylbenzene	91		10.243					ND	
84 2-Chlorotoluene	91		10.323					ND	
85 4-Chlorotoluene	91		10.451					ND	
86 1,3,5-Trimethylbenzene	105		10.457					ND	
87 tert-Butylbenzene	119		10.835					ND	
88 1,2,4-Trimethylbenzene	105		10.896					ND	
89 sec-Butylbenzene	105		11.097					ND	
90 1,3-Dichlorobenzene	146		11.200					ND	
91 4-Isopropyltoluene	119		11.280					ND	
92 1,4-Dichlorobenzene	146		11.304					ND	
110 1,2,3-Trimethylbenzene	105		11.389					ND	
113 Benzyl chloride	126		11.475					ND	
93 1,2-Dichlorobenzene	146		11.743					ND	
94 n-Butylbenzene	91		11.767					ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682					ND	
96 1,2,4-Trichlorobenzene	180		12.950					ND	
112 1,3,5-Trichlorobenzene	180		13.694					ND	
97 Hexachlorobutadiene	225		13.926					ND	
98 Naphthalene	128		13.980					ND	
99 1,2,3-Trichlorobenzene	180		14.279					ND	
139 C6-C12	1		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
138 Dodecane	57		0.000					ND	
131 1-Chlorohexane	55		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
136 n-Decane	57		0.000					ND	
132 t-Amyl alcohol	1		0.000					ND	
137 C6-C10	1		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
133 Isooctane	57		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43		4.690					ND	
S 101 1,2-Dichloroethene, Total	1				0			0.5322	
S 100 Xylenes, Total	1		0.000					ND	
S 102 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags
M - Manually Integrated
a - User Assigned ID

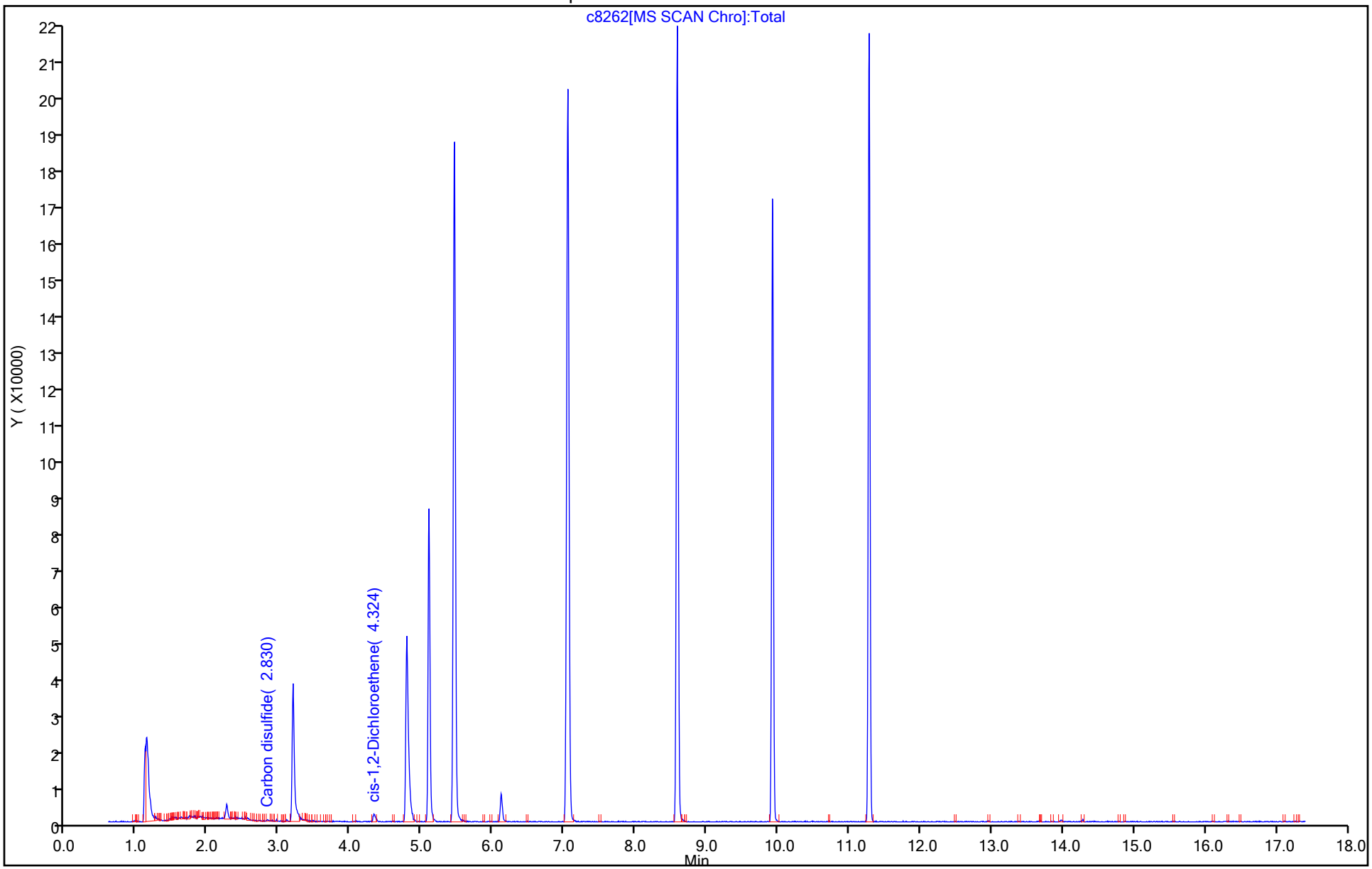
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 11:16:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8262.D				
Injection Date:	18-Nov-2020 19:34:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	mb			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8262.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2020 19:34:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:34:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.6	103.11
$ 6 Toluene-d8 (Surr)	50.0	52.3	104.55
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.1	96.20

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

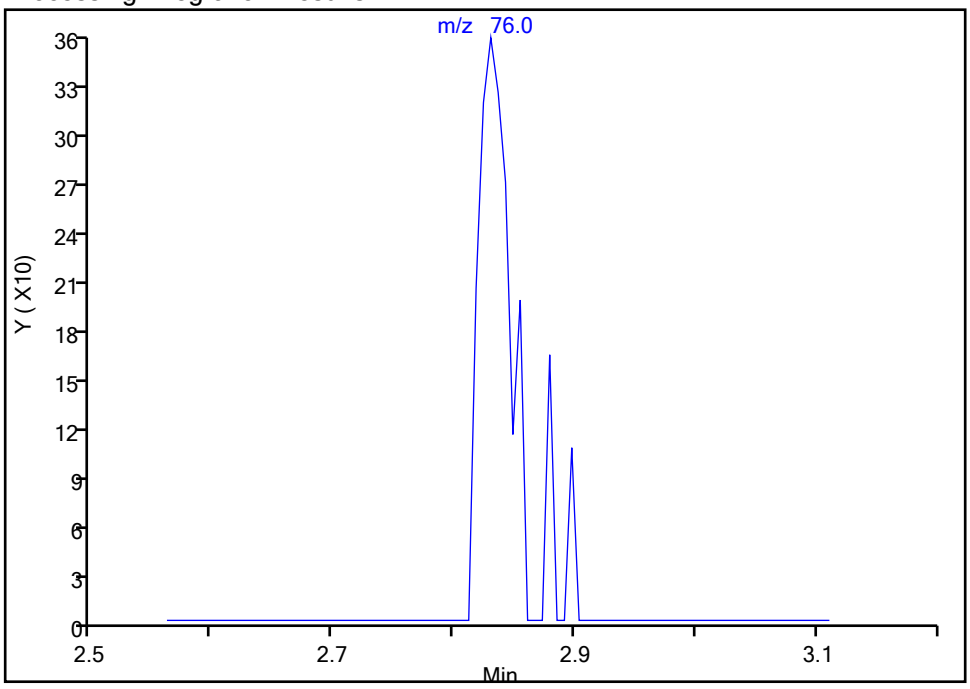
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8262.D
Injection Date: 18-Nov-2020 19:34:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

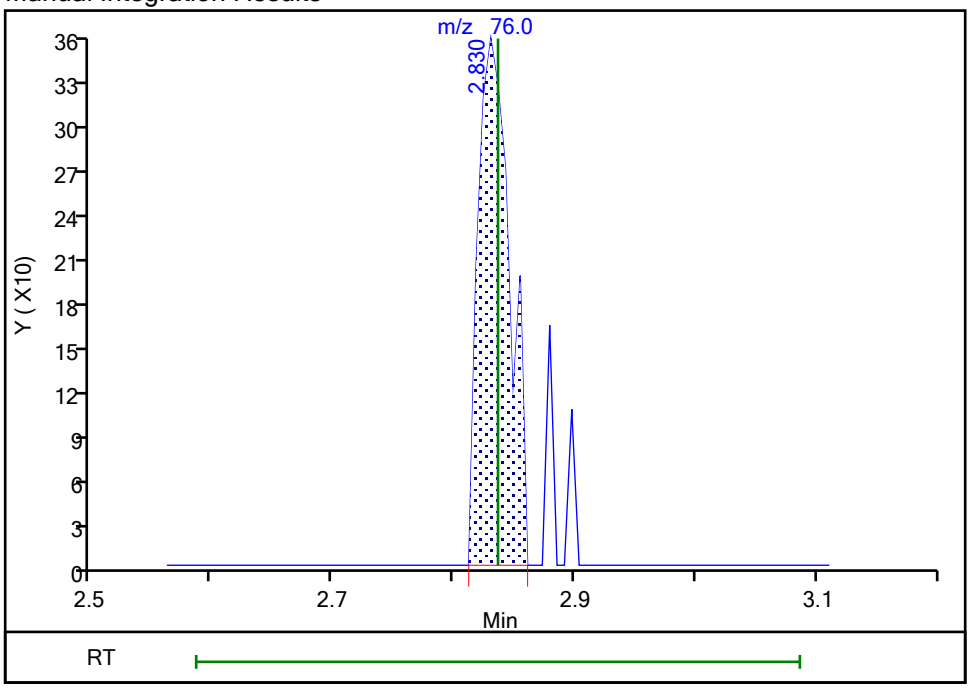
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.83
Area: 640
Amount: 0.121209
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:33:54
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

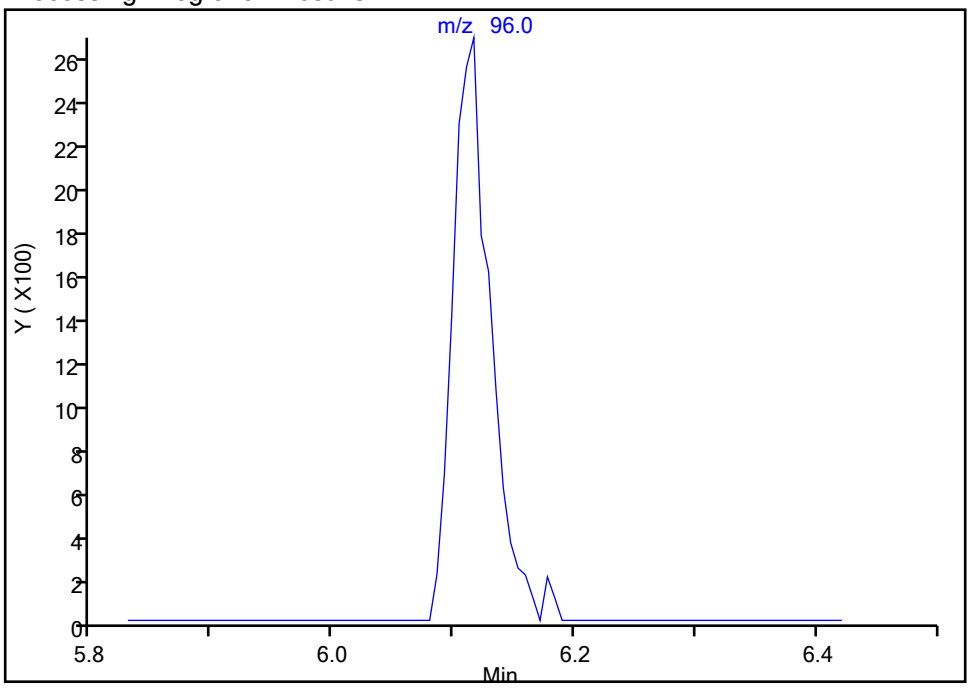
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8262.D
Injection Date: 18-Nov-2020 19:34:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

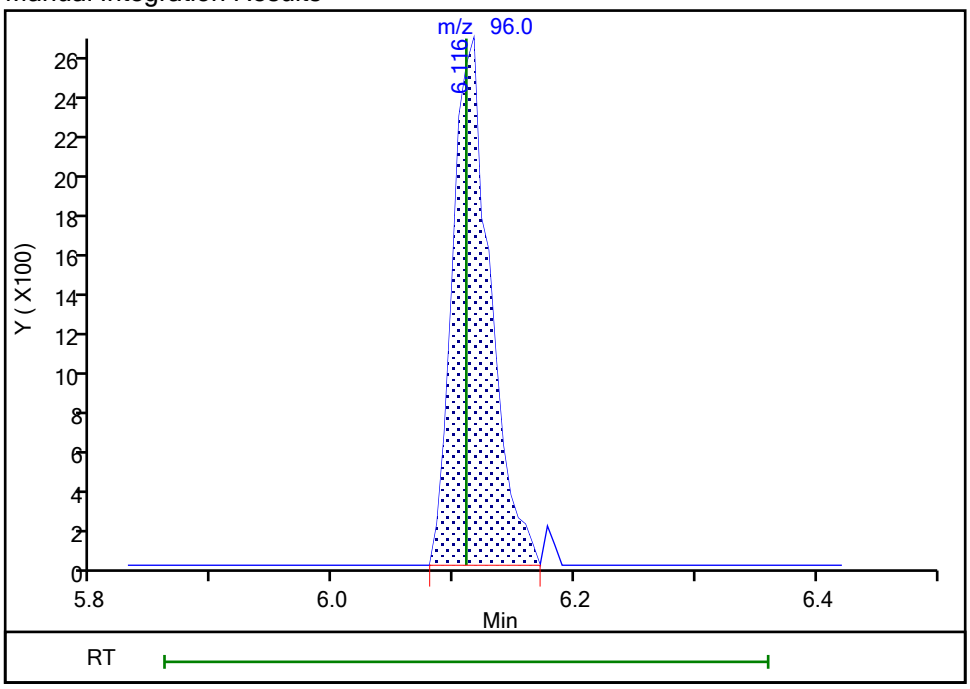
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 5705
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:34:11
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299701/8

Matrix: Water Lab File ID: c8293.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 07:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
156-59-2	cis-1,2-Dichloroethene	0.350	J	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299701/8

Matrix: Water Lab File ID: c8293.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 07:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Report Date: 20-Nov-2020 14:10:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8293.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2020 07:03:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 14:09:24 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:24:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.373	3.373	0.000	0	37	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	170360	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	94	5638	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	122956	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53909	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	39965	50.0	52.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	161416	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.001	85	43206	50.0	49.0	
$ 8 BFB	95	9.920	9.920	0.000	80	58720		NR	
9 Dichlorodifluoromethane	85		1.288					ND	U
10 Chloromethane	50		1.526					ND	
11 Vinyl chloride	62		1.532					ND	
12 Butadiene	54		1.568					ND	
13 Bromomethane	94		1.837					ND	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45		2.373					ND	
18 Ethyl ether	59		2.471					ND	
19 Acrolein	56		2.562					ND	
20 1,1-Dichloroethene	96		2.659					ND	
21 112TCTFE	101		2.684					ND	
22 Acetone	43		2.714					ND	
23 Iodomethane	142		2.775					ND	
24 Carbon disulfide	76	2.836	2.842	-0.006	62	539		0.1039	a
105 Isopropyl alcohol	45		2.885					ND	
118 Acetonitrile	40		2.964					ND	
25 3-Chloro-1-propene	76		3.001					ND	
26 Methyl acetate	43		3.037					ND	
27 Methylene Chloride	84		3.111					ND	
35 2-Methyl-2-propanol	59		3.269					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348					ND	
28 trans-1,2-Dichloroethene	96		3.391					ND	
29 Methyl tert-butyl ether	73		3.403					ND	
31 Hexane	57		3.702					ND	
32 1,1-Dichloroethane	63		3.781					ND	
33 Vinyl acetate	86		3.848					ND	
34 2-Chloro-1,3-butadiene	53		3.879					ND	
36 Isopropyl ether	87		3.909					ND	
37 Tert-butyl ethyl ether	59		4.238					ND	
38 2,2-Dichloropropane	77		4.324					ND	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	2	800		0.3497	M
40 2-Butanone (MEK)	43		4.348					ND	
41 Propionitrile	54		4.397					ND	
104 Ethyl acetate	61		4.427					ND	
43 Methacrylonitrile	67		4.543					ND	
42 Chlorobromomethane	128		4.549					ND	
44 Tetrahydrofuran	71		4.604					ND	
45 Chloroform	83		4.641					ND	
46 1,1,1-Trichloroethane	97		4.805					ND	
47 Cyclohexane	56		4.866					ND	
48 Carbon tetrachloride	117		4.970					ND	
49 1,1-Dichloropropene	75		4.976					ND	
108 Isobutyl alcohol	43		5.122					ND	
50 Benzene	78		5.177					ND	
51 1,2-Dichloroethane	62		5.177					ND	
116 n-Butanol	56		5.299					ND	
52 Tert-amyl methyl ether	73		5.311					ND	
53 n-Heptane	43		5.482					ND	
54 Trichloroethene	95		5.805					ND	
117 Ethyl acrylate	55		5.939					ND	
114 Methylcyclohexane	83		6.013					ND	
55 1,2-Dichloropropane	63		6.019					ND	
56 Dibromomethane	93		6.122					ND	
115 1,4-Dioxane	58		6.165					ND	
57 Methyl methacrylate	69		6.171					ND	
58 Dichlorobromomethane	83		6.293					ND	
106 2-Nitropropane	43		6.525					ND	
59 2-Chloroethyl vinyl ether	63		6.622					ND	
60 cis-1,3-Dichloropropene	75		6.756					ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939					ND	
62 Toluene	92		7.116					ND	
63 trans-1,3-Dichloropropene	75		7.342					ND	
64 Ethyl methacrylate	69		7.463					ND	
65 1,1,2-Trichloroethane	83		7.530					ND	
66 Tetrachloroethene	166		7.695					ND	
67 1,3-Dichloropropane	76		7.707					ND	
68 2-Hexanone	43		7.823					ND	
69 Chlorodibromomethane	129		7.945					ND	
109 n-Butyl acetate	43		7.976					ND	
70 Ethylene Dibromide	107		8.061					ND	
71 Chlorobenzene	112		8.616					ND	
72 1,1,1,2-Tetrachloroethane	131		8.713					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756					ND	
74 m-Xylene & p-Xylene	106		8.890					ND	
75 o-Xylene	106		9.335					ND	
76 Styrene	104		9.347					ND	
77 Bromoform	173		9.530					ND	
78 Isopropylbenzene	105		9.762					ND	
79 Bromobenzene	156		10.085					ND	
80 1,1,2,2-Tetrachloroethane	83		10.103					ND	
81 1,2,3-Trichloropropane	110		10.140					ND	
82 trans-1,4-Dichloro-2-butene	53		10.170					ND	
83 N-Propylbenzene	91		10.243					ND	
84 2-Chlorotoluene	91		10.323					ND	
85 4-Chlorotoluene	91		10.451					ND	
86 1,3,5-Trimethylbenzene	105		10.457					ND	
87 tert-Butylbenzene	119		10.835					ND	
88 1,2,4-Trimethylbenzene	105		10.896					ND	
89 sec-Butylbenzene	105		11.097					ND	
90 1,3-Dichlorobenzene	146		11.201					ND	
91 4-Isopropyltoluene	119		11.280					ND	
92 1,4-Dichlorobenzene	146		11.310					ND	
110 1,2,3-Trimethylbenzene	105		11.390					ND	
113 Benzyl chloride	126		11.475					ND	
93 1,2-Dichlorobenzene	146		11.743					ND	
94 n-Butylbenzene	91		11.767					ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676					ND	
96 1,2,4-Trichlorobenzene	180		12.950					ND	
112 1,3,5-Trichlorobenzene	180		13.694					ND	
97 Hexachlorobutadiene	225		13.926					ND	
98 Naphthalene	128		13.980					ND	
99 1,2,3-Trichlorobenzene	180		14.279					ND	
124 Acetaldehyde TIC	1		0.000					ND	
139 C6-C12	1		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
131 1-Chlorohexane	55		0.000					ND	
137 C6-C10	1		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
133 Isooctane	57		0.000					ND	
136 n-Decane	57		0.000					ND	
132 t-Amyl alcohol	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43		4.690					ND	
S 101 1,2-Dichloroethene, Total	1				0			0.3497	
S 100 Xylenes, Total	1		0.000					ND	
S 102 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

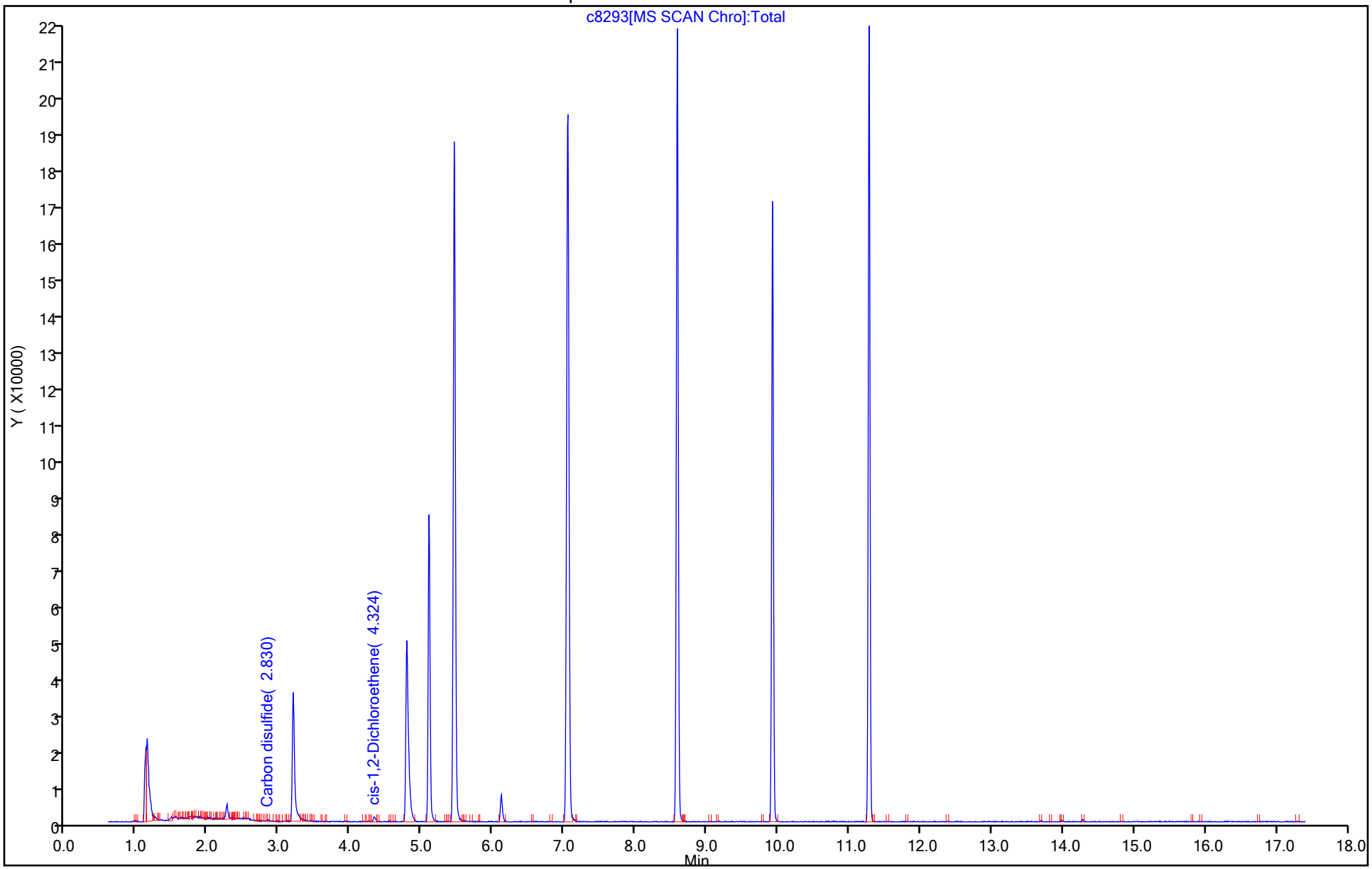
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 14:10:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8293.D				
Injection Date:	19-Nov-2020 07:03:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	mb			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8293.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2020 07:03:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 14:09:24 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:24:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.3	104.69
$ 6 Toluene-d8 (Surr)	50.0	51.2	102.41
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	97.98

Report Date: 20-Nov-2020 14:10:06 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8293.D

Injection Date: 19-Nov-2020 07:03:30 Instrument ID: Calvin

Lims ID: mb

Client ID:

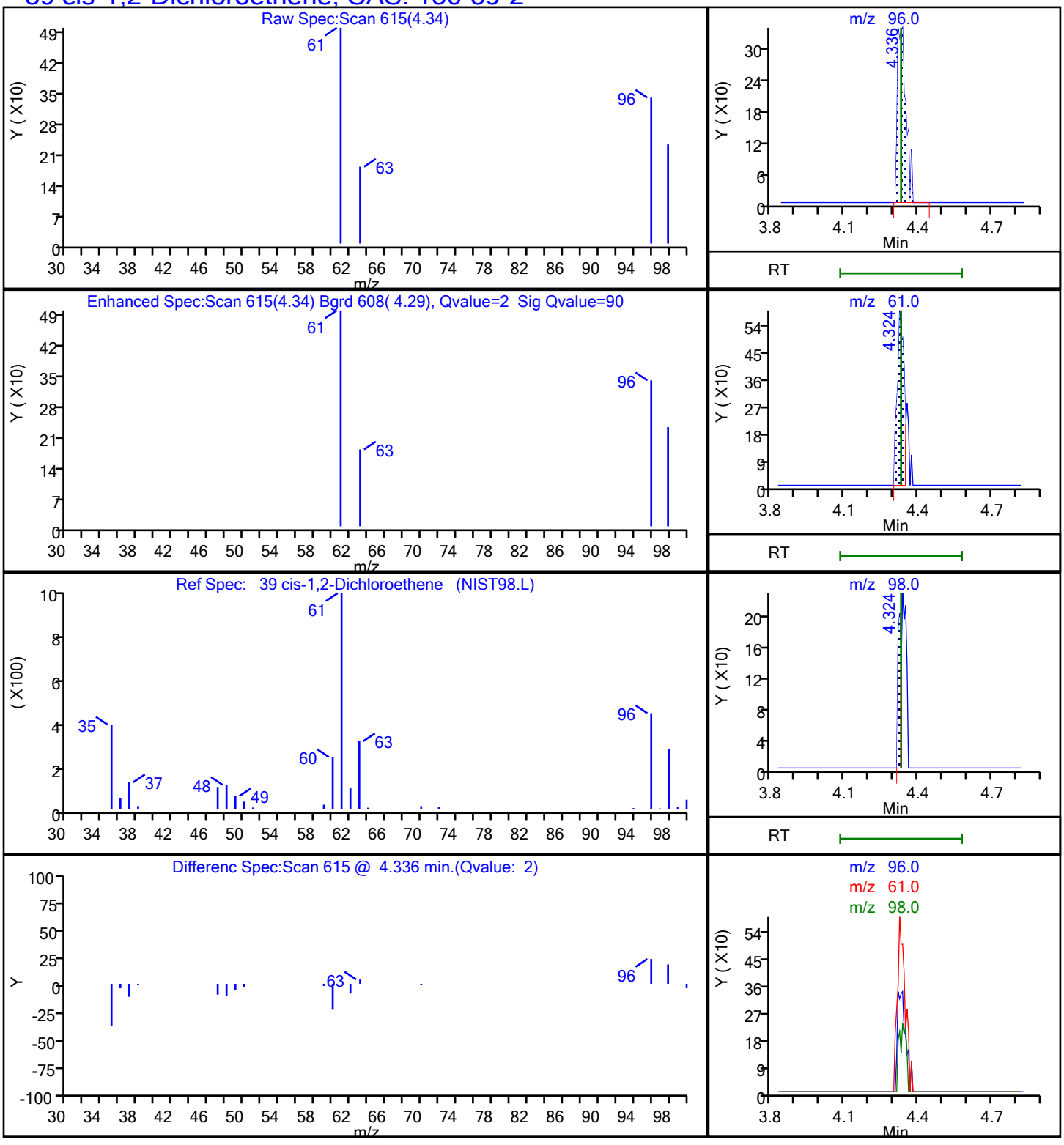
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL

Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

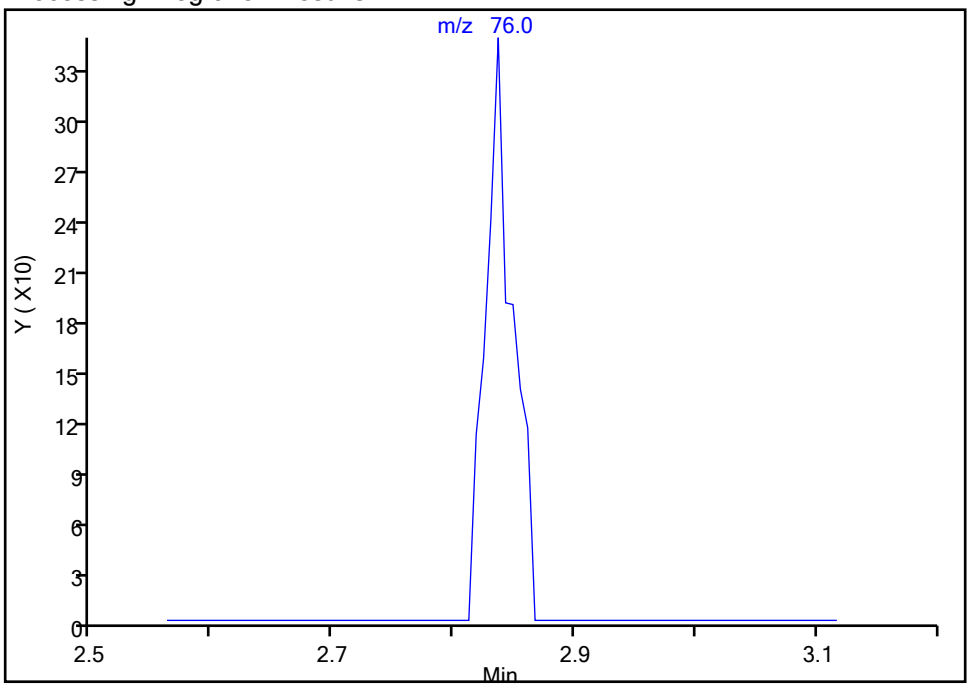
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8293.D
Injection Date: 19-Nov-2020 07:03:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

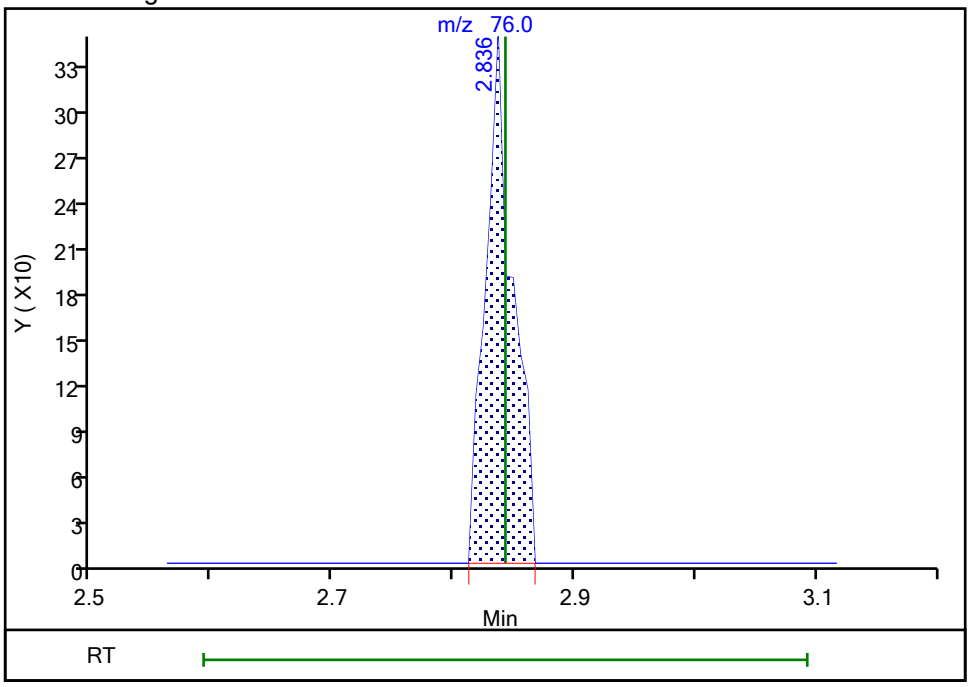
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 539
Amount: 0.103891
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:24:30
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

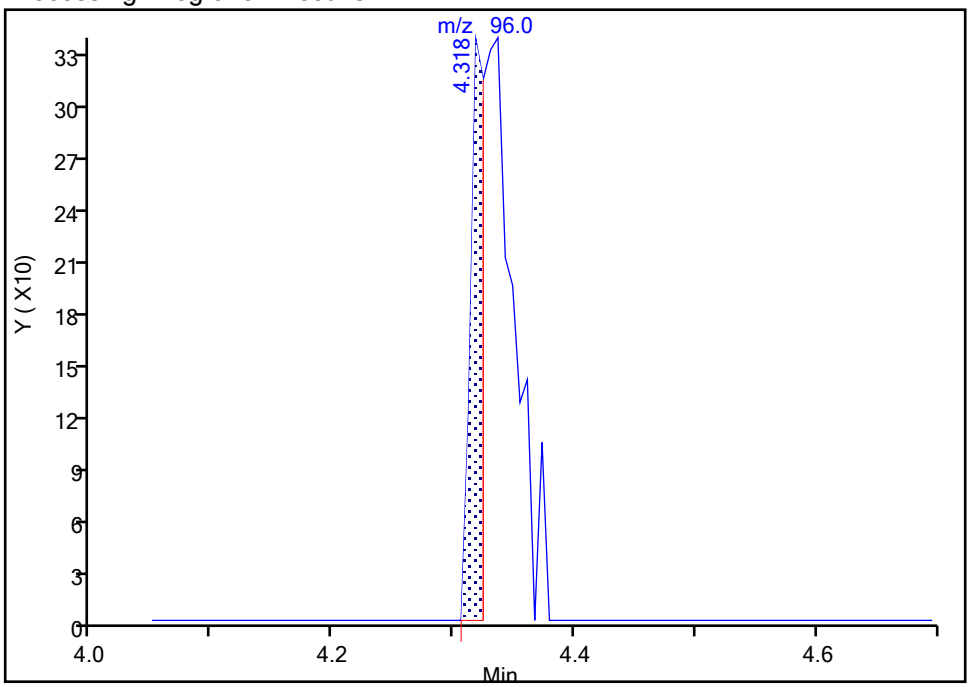
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8293.D
Injection Date: 19-Nov-2020 07:03:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

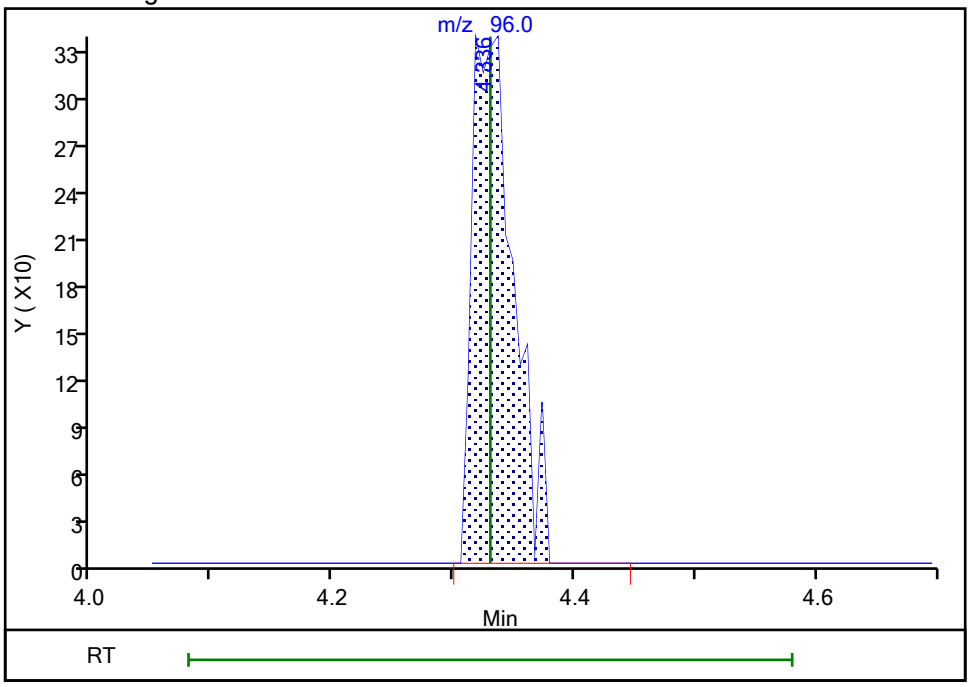
Processing Integration Results

RT: 4.32
Area: 279
Amount: 0.121973
Amount Units: ug/l



Manual Integration Results

RT: 4.34
Area: 800
Amount: 0.349744
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:24:15
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299826/8

Matrix: Water Lab File ID: c8323.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 19:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.13
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	0.50	U	0.50	0.22
75-25-2	Bromoform	5.0	U	5.0	0.78
74-83-9	Bromomethane	2.0	U	2.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	3.0	U	3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	1.0	U	1.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	3.0	U	3.0	0.40
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-299826/8

Matrix: Water Lab File ID: c8323.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 19:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8323.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2020 19:20:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:01:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.397	3.391	0.006	0	86	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	167581	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	80	5522	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	119671	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	53227	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	39319	50.0	52.4	M
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	158959	50.0	51.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	83	41959	50.0	48.2	
$ 8 BFB	95	9.920	9.920	0.000	79	58744		NR	
9 Dichlorodifluoromethane	85		1.288					ND	
10 Chloromethane	50		1.526					ND	
11 Vinyl chloride	62		1.532					ND	
12 Butadiene	54		1.568					ND	
13 Bromomethane	94		1.837					ND	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45		2.373					ND	
18 Ethyl ether	59		2.464					ND	
19 Acrolein	56		2.562					ND	
20 1,1-Dichloroethene	96		2.659					ND	
21 112TCTFE	101		2.684					ND	
22 Acetone	43		2.714					ND	
23 Iodomethane	142		2.775					ND	
24 Carbon disulfide	76		2.842					ND	
105 Isopropyl alcohol	45		2.885					ND	
118 Acetonitrile	40		2.964					ND	
25 3-Chloro-1-propene	76		3.007					ND	
26 Methyl acetate	43		3.037					ND	
27 Methylene Chloride	84		3.111					ND	
35 2-Methyl-2-propanol	59		3.269					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348					ND	
28 trans-1,2-Dichloroethene	96		3.391					ND	
29 Methyl tert-butyl ether	73		3.403					ND	
31 Hexane	57		3.708					ND	
32 1,1-Dichloroethane	63		3.787					ND	
33 Vinyl acetate	86		3.848					ND	
34 2-Chloro-1,3-butadiene	53		3.879					ND	
36 Isopropyl ether	87		3.909					ND	
37 Tert-butyl ethyl ether	59		4.238					ND	
38 2,2-Dichloropropane	77		4.330					ND	
39 cis-1,2-Dichloroethene	96		4.336					ND	
40 2-Butanone (MEK)	43		4.354					ND	
41 Propionitrile	54		4.397					ND	
104 Ethyl acetate	61		4.427					ND	
43 Methacrylonitrile	67		4.543					ND	
42 Chlorobromomethane	128		4.549					ND	
44 Tetrahydrofuran	71		4.604					ND	
45 Chloroform	83		4.641					ND	
46 1,1,1-Trichloroethane	97		4.812					ND	
47 Cyclohexane	56		4.866					ND	
48 Carbon tetrachloride	117		4.970					ND	
49 1,1-Dichloropropene	75		4.976					ND	
108 Isobutyl alcohol	43		5.122					ND	
51 1,2-Dichloroethane	62		5.177					ND	
50 Benzene	78		5.177					ND	
53 n-Heptane	43		5.311					ND	
52 Tert-amyl methyl ether	73		5.311					ND	
116 n-Butanol	56		5.482					ND	
54 Trichloroethene	95		5.805					ND	
117 Ethyl acrylate	55		5.939					ND	
114 Methylcyclohexane	83		6.013					ND	
55 1,2-Dichloropropane	63		6.019					ND	
56 Dibromomethane	93		6.122					ND	
115 1,4-Dioxane	58		6.165					ND	
57 Methyl methacrylate	69		6.165					ND	
58 Dichlorobromomethane	83		6.293					ND	
106 2-Nitropropane	43		6.525					ND	
59 2-Chloroethyl vinyl ether	63		6.628					ND	
60 cis-1,3-Dichloropropene	75		6.756					ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.939					ND	
62 Toluene	92		7.116					ND	
63 trans-1,3-Dichloropropene	75		7.342					ND	
64 Ethyl methacrylate	69		7.470					ND	
65 1,1,2-Trichloroethane	83		7.530					ND	
66 Tetrachloroethene	166		7.695					ND	
67 1,3-Dichloropropane	76		7.707					ND	
68 2-Hexanone	43		7.823					ND	
69 Chlorodibromomethane	129		7.945					ND	
109 n-Butyl acetate	43		7.976					ND	
70 Ethylene Dibromide	107		8.061					ND	
71 Chlorobenzene	112		8.616					ND	
72 1,1,1,2-Tetrachloroethane	131		8.713					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.756					ND	
74 m-Xylene & p-Xylene	106		8.890					ND	
75 o-Xylene	106		9.335					ND	
76 Styrene	104		9.347					ND	
77 Bromoform	173		9.536					ND	
78 Isopropylbenzene	105		9.762					ND	
79 Bromobenzene	156		10.085					ND	
80 1,1,2,2-Tetrachloroethane	83		10.103					ND	
81 1,2,3-Trichloropropane	110		10.140					ND	
82 trans-1,4-Dichloro-2-butene	53		10.170					ND	
83 N-Propylbenzene	91		10.243					ND	
84 2-Chlorotoluene	91		10.323					ND	
85 4-Chlorotoluene	91		10.451					ND	
86 1,3,5-Trimethylbenzene	105		10.457					ND	
87 tert-Butylbenzene	119		10.835					ND	
88 1,2,4-Trimethylbenzene	105		10.890					ND	
89 sec-Butylbenzene	105		11.097					ND	
90 1,3-Dichlorobenzene	146		11.201					ND	
91 4-Isopropyltoluene	119		11.280					ND	
92 1,4-Dichlorobenzene	146		11.304					ND	
110 1,2,3-Trimethylbenzene	105		11.383					ND	
113 Benzyl chloride	126		11.475					ND	
93 1,2-Dichlorobenzene	146		11.743					ND	
94 n-Butylbenzene	91		11.767					ND	
95 1,2-Dibromo-3-Chloropropane	75		12.682					ND	
96 1,2,4-Trichlorobenzene	180		12.950					ND	
112 1,3,5-Trichlorobenzene	180		13.694					ND	
97 Hexachlorobutadiene	225		13.926					ND	
98 Naphthalene	128	13.974	13.980	-0.006	1	653		0.1476	a
99 1,2,3-Trichlorobenzene	180		14.279					ND	
136 n-Decane	57		0.000					ND	
133 Isooctane	57		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
137 C6-C10	1		0.000					ND	
131 1-Chlorohexane	55		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
132 t-Amyl alcohol	1		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
139 C6-C12	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43		4.690					ND	
S 101 1,2-Dichloroethene, Total	1		0.000					ND	
S 100 Xylenes, Total	1		0.000					ND	
S 102 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags
M - Manually Integrated
a - User Assigned ID

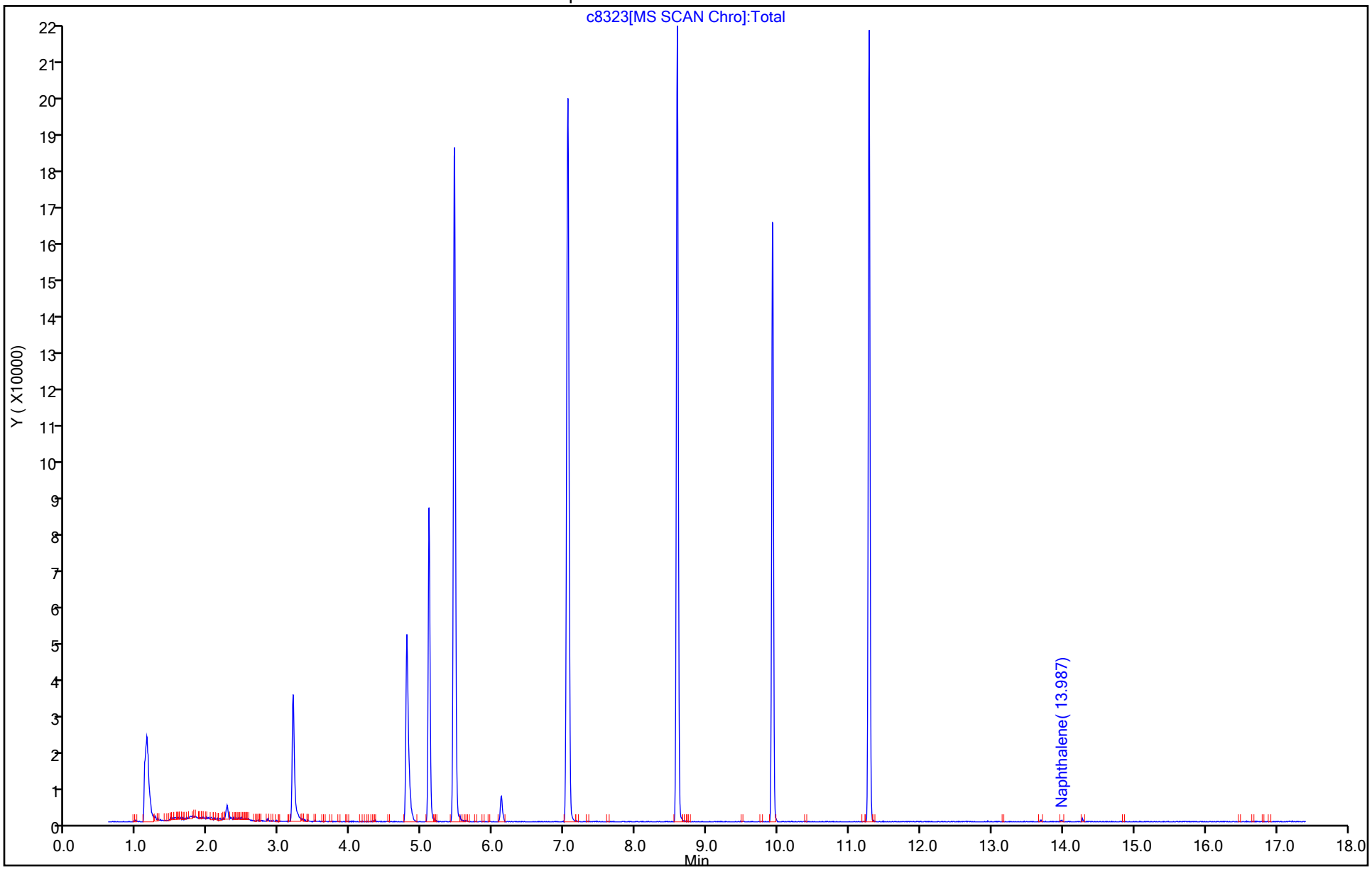
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 07:10:06 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8323.D				
Injection Date:	19-Nov-2020 19:20:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	mb			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8323.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2020 19:20:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:01:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.4	104.70
$ 6 Toluene-d8 (Surr)	50.0	51.8	103.62
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.2	96.37

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

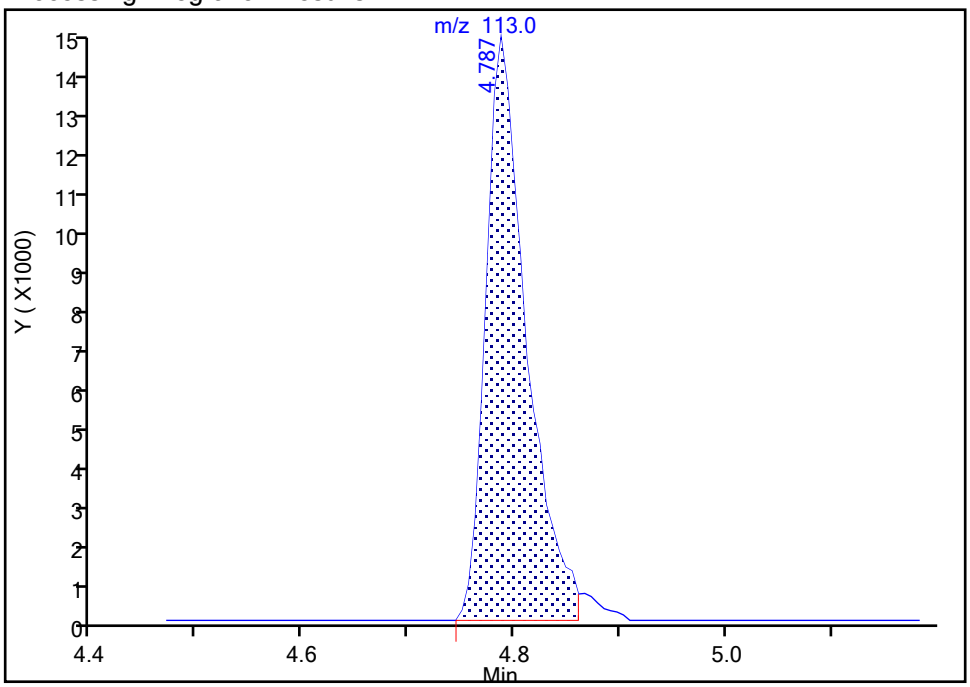
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8323.D
Injection Date: 19-Nov-2020 19:20:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

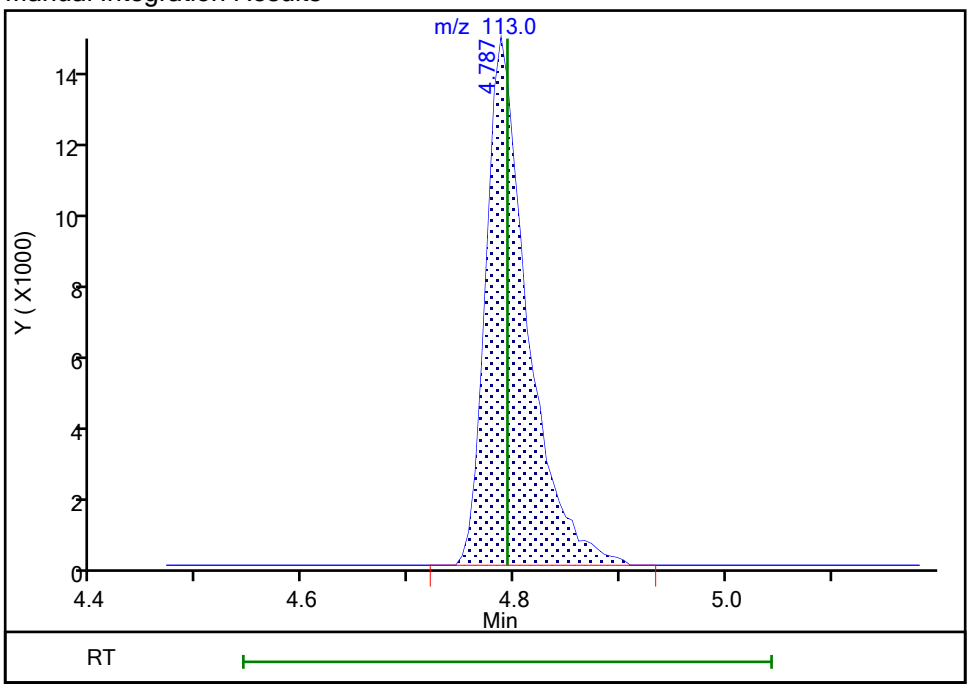
Processing Integration Results

RT: 4.79
Area: 38387
Amount: 51.109791
Amount Units: ug/l



Manual Integration Results

RT: 4.79
Area: 39319
Amount: 52.350689
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 07:01:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

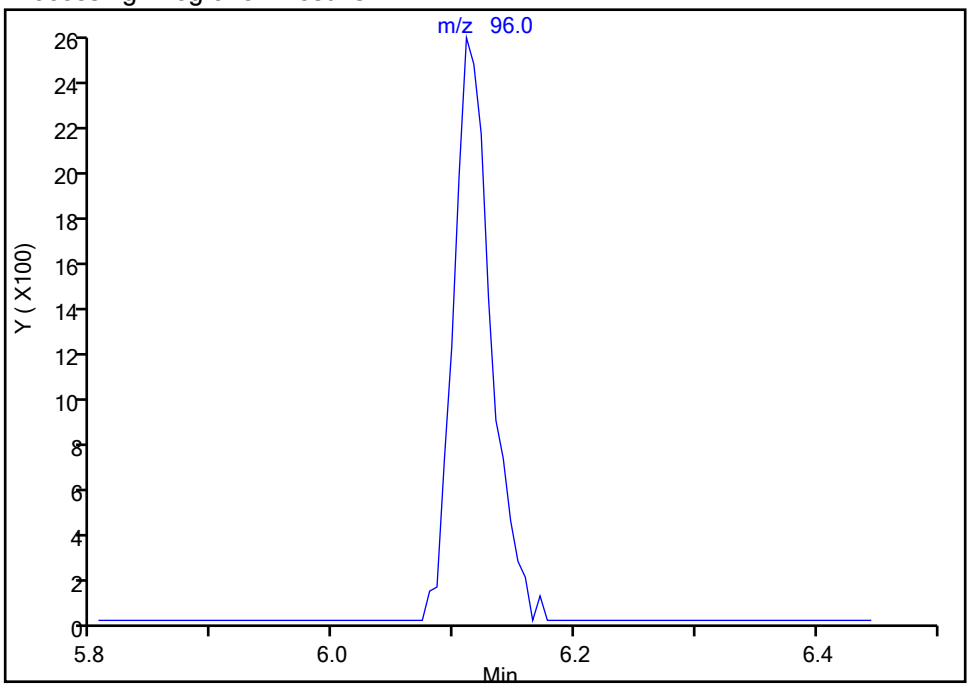
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8323.D
Injection Date: 19-Nov-2020 19:20:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

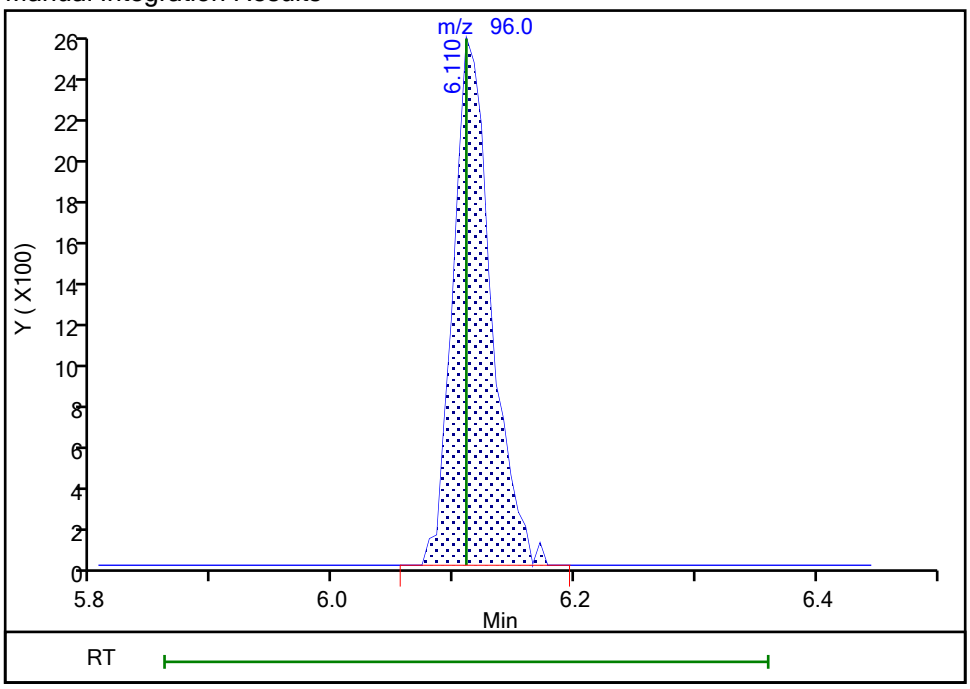
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5522
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 07:01:16
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299509/7

Matrix: Water Lab File ID: c8229.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 06:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	4.64		2.0	0.82
75-00-3	Chloroethane	8.27		4.0	0.79
74-87-3	Chloromethane	8.91		3.0	0.61
75-01-4	Vinyl chloride	8.00		1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8229.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 06:06:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:53:33 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 06:32:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.385	3.385	0.000	0	175	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	199138	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	94	5696	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	140066	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.280	-0.006	98	61994	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	46552	50.0	52.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	95	185355	50.0	51.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	49577	50.0	48.9	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	33438	10.0	8.21	
10 Chloromethane	50	1.526	1.526	0.000	88	26730	10.0	8.91	
11 Vinyl chloride	62	1.538	1.532	0.006	97	29362	10.0	8.00	
12 Butadiene	54	1.581	1.568	0.013	96	29332	10.0	7.90	
13 Bromomethane	94	1.837	1.837	0.000	92	4401	10.0	4.64	M
14 Chloroethane	64	1.922	1.916	0.006	99	17567	10.0	8.27	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	41518	10.0	8.17	
16 Trichlorofluoromethane	101	2.178	2.166	0.012	99	41418	10.0	8.53	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

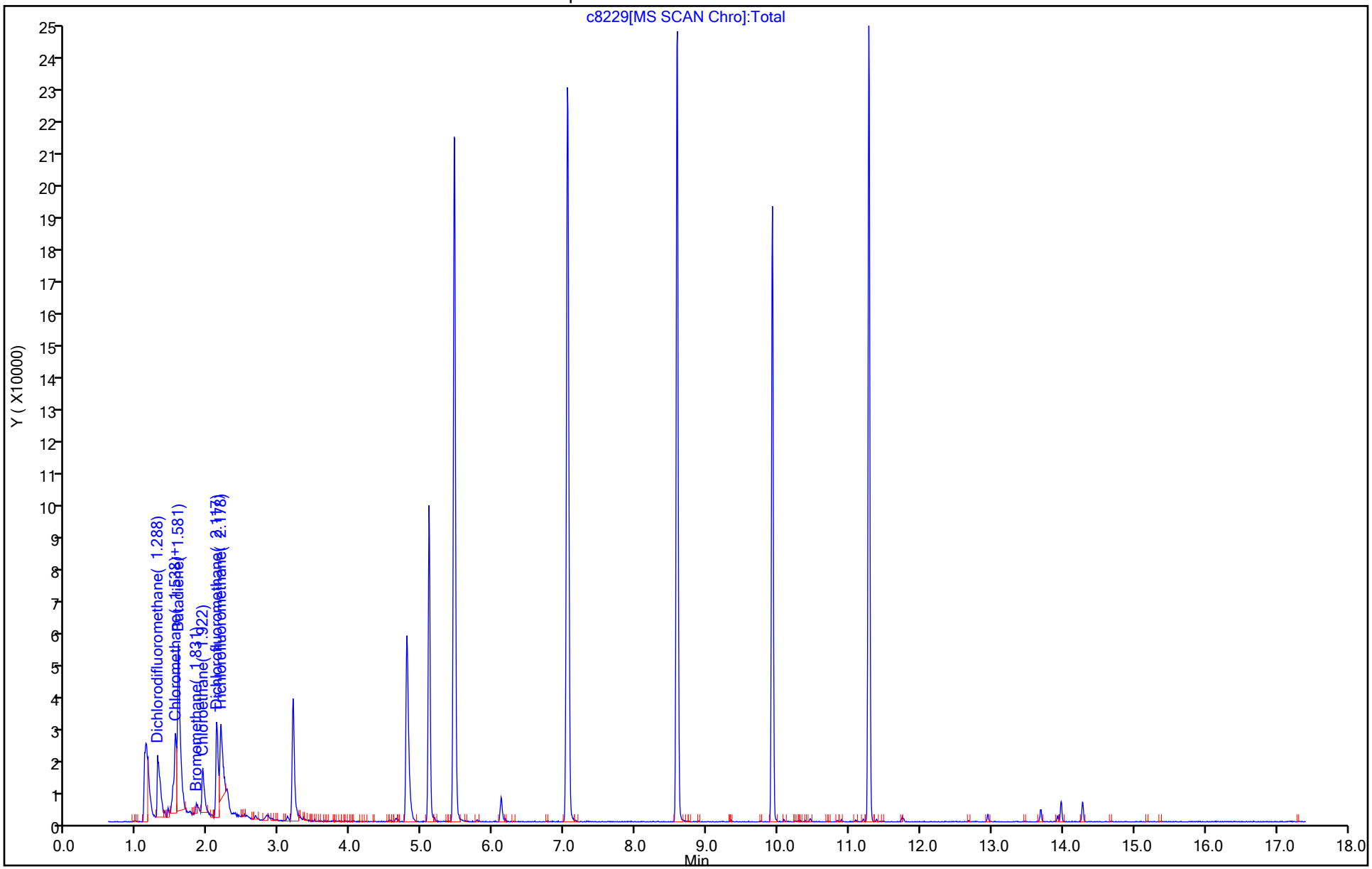
VV_I_GASES_00414 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 06:54:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8229.D

Injection Date:	18-Nov-2020 06:06:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8229.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 06:06:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:53:33 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 06:32:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.2	104.32
$ 6 Toluene-d8 (Surr)	50.0	51.6	103.23
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.9	97.76

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

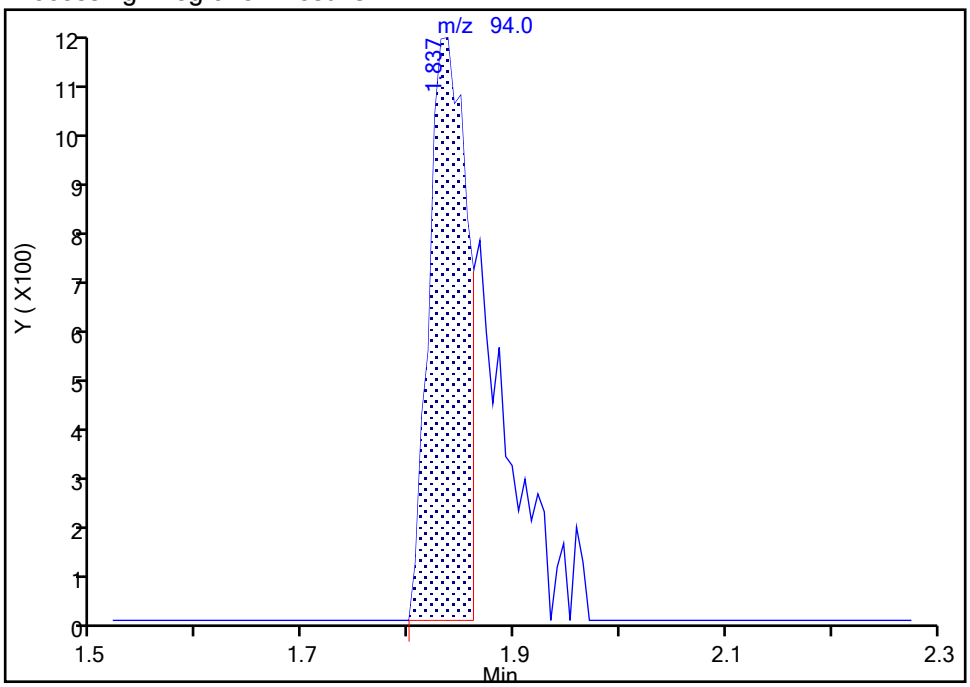
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8229.D
Injection Date: 18-Nov-2020 06:06:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

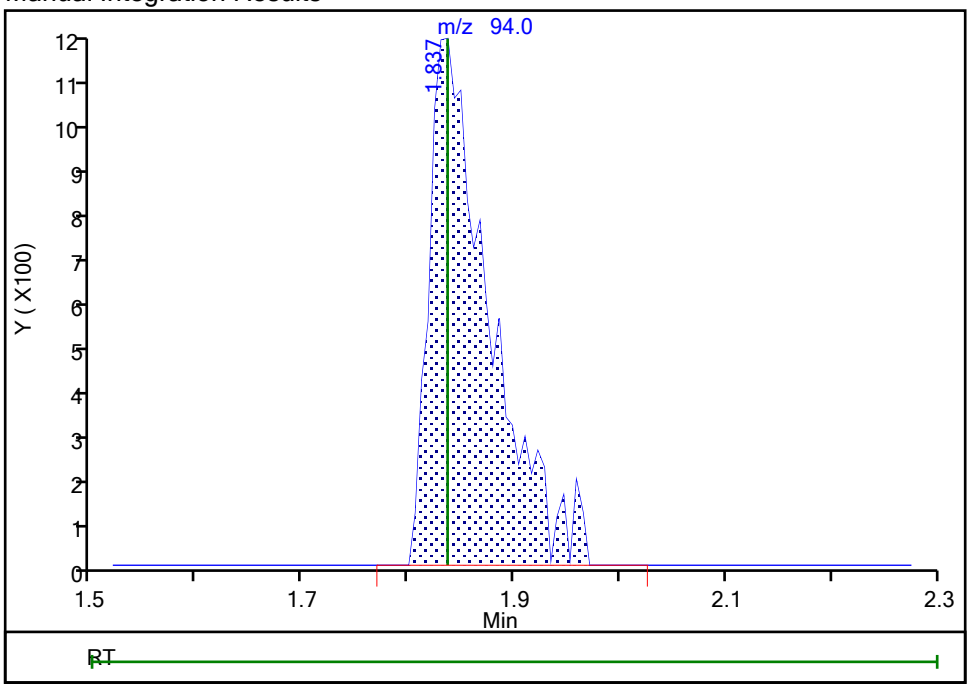
Processing Integration Results

RT: 1.84
Area: 2773
Amount: 3.094755
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 4401
Amount: 4.644867
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 06:32:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

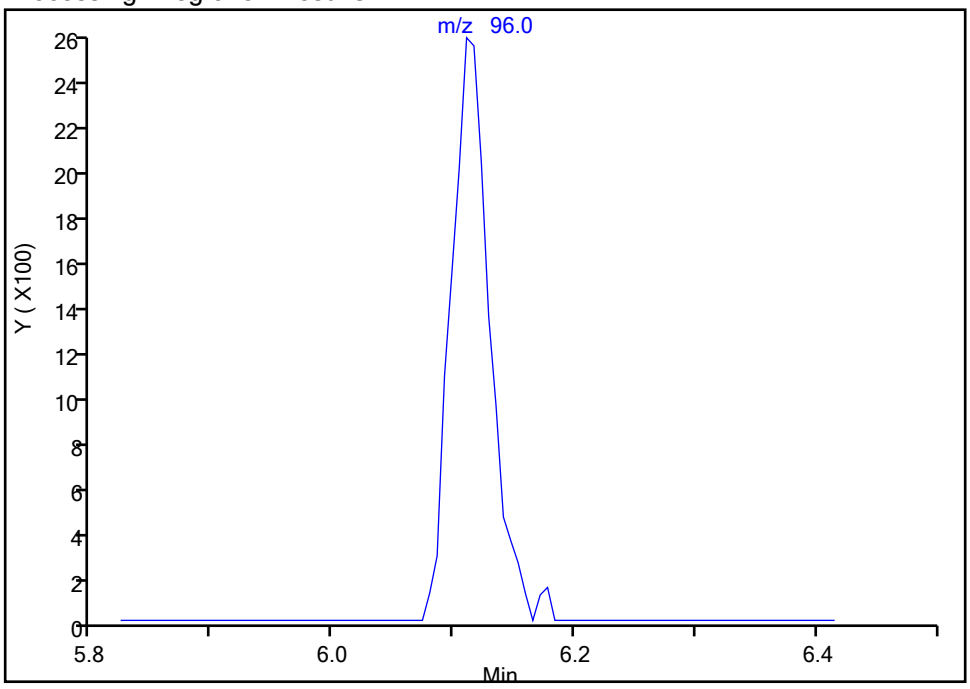
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8229.D
Injection Date: 18-Nov-2020 06:06:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

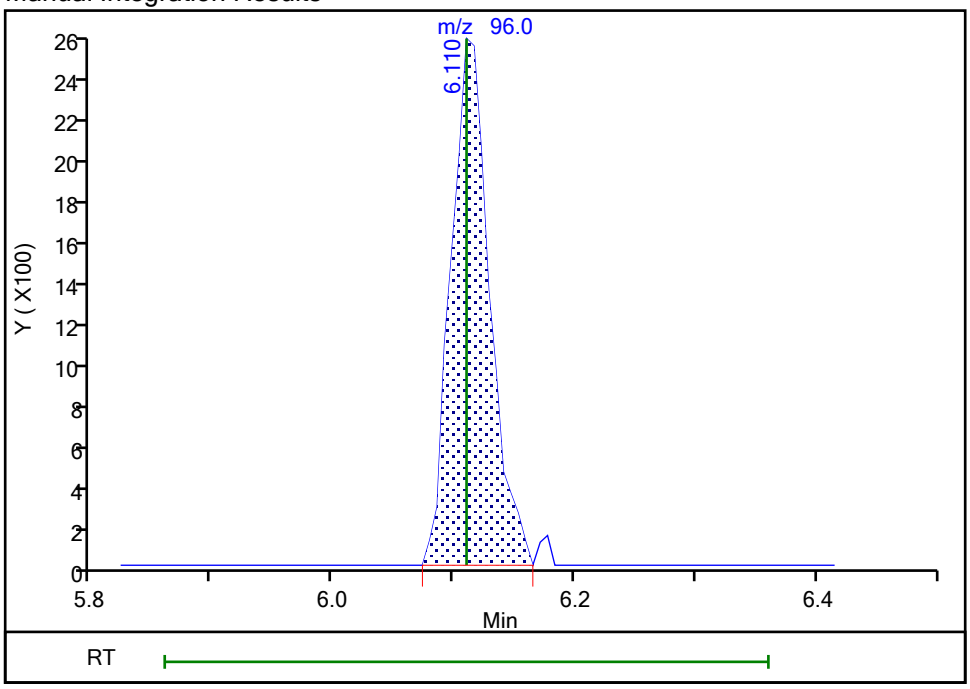
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5696
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 18-Nov-2020 11:32:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299509/32

Matrix: Water Lab File ID: c8231.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 06:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.6		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	17.9		0.50	0.13
79-00-5	1,1,2-Trichloroethane	18.1		0.50	0.22
75-34-3	1,1-Dichloroethane	21.5		1.0	0.22
75-35-4	1,1-Dichloroethene	21.2		2.0	0.56
107-06-2	1,2-Dichloroethane	23.6		1.0	0.39
78-87-5	1,2-Dichloropropane	20.2		1.0	0.27
591-78-6	2-Hexanone	38.1		10	2.0
67-64-1	Acetone	41.3		10	3.1
71-43-2	Benzene	20.1		0.50	0.22
75-25-2	Bromoform	14.9		5.0	0.78
75-15-0	Carbon disulfide	23.1		1.0	0.45
56-23-5	Carbon tetrachloride	20.8		2.0	0.65
108-90-7	Chlorobenzene	18.6		1.0	0.40
67-66-3	Chloroform	19.7		3.0	1.3
156-59-2	cis-1,2-Dichloroethene	19.5		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	18.6		0.50	0.20
75-27-4	Dichlorobromomethane	19.6		1.0	0.39
100-41-4	Ethylbenzene	20.0		1.0	0.31
78-93-3	2-Butanone (MEK)	42.3		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	38.2		10	2.1
75-09-2	Methylene Chloride	19.0		1.0	0.78
100-42-5	Styrene	17.7		1.0	0.37
127-18-4	Tetrachloroethene	18.5		1.0	0.48
108-88-3	Toluene	18.5		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	21.2		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	16.5		0.50	0.22
79-01-6	Trichloroethene	20.3		1.0	0.43
1330-20-7	Xylenes, Total	37.4		3.0	0.40
124-48-1	Chlorodibromomethane	16.5		2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299509/32

Matrix: Water Lab File ID: c8231.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 06:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	105		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8231.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 06:54:30 ALS Bottle#: 9 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:42:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.428	3.385	0.043	0	93	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	97	187506	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	94	6027	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	88	132849	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	75	61795	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	76	44695	50.0	53.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	179655	50.0	52.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	49699	50.0	49.2	
17 Ethanol	45	2.373	2.373	0.000	100	12867	800.0	789.1	
18 Ethyl ether	59	2.465	2.465	0.000	96	32702	20.0	20.6	
19 Acrolein	56	2.556	2.556	0.000	95	22694	95.3	94.1	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	93	40908	20.0	21.2	
21 112TCTFE	101	2.678	2.678	0.000	92	46622	20.0	24.4	
22 Acetone	43	2.708	2.715	-0.006	97	21221	40.0	41.3	
23 Iodomethane	142	2.775	2.775	0.000	99	20025	20.0	11.3	
24 Carbon disulfide	76	2.836	2.843	-0.007	99	131791	20.0	23.1	
105 Isopropyl alcohol	45	2.879	2.885	-0.006	95	12768	200.0	144.5	
118 Acetonitrile	40	2.958	2.964	-0.006	99	23560	200.0	130.1	
25 3-Chloro-1-propene	76	3.001	3.007	-0.006	80	24851	20.0	19.9	
26 Methyl acetate	43	3.038	3.038	0.000	99	53609	40.0	40.5	
27 Methylene Chloride	84	3.111	3.111	0.000	97	43273	20.0	19.0	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	19531	200.0	156.2	
30 Acrylonitrile	53	3.342	3.349	-0.007	98	136696	200.0	201.9	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	46631	20.0	21.2	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	99	104152	20.0	20.4	
31 Hexane	57	3.702	3.702	0.000	94	78408	20.0	26.3	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	88918	20.0	21.5	
33 Vinyl acetate	86	3.848	3.848	0.000	97	15035	40.0	36.8	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	95	102464	20.0	25.7	
36 Isopropyl ether	87	3.915	3.909	0.006	96	40857	20.0	20.3	
37 Tert-butyl ethyl ether	59	4.239	4.239	0.000	98	131962	20.0	20.5	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	78	64917	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	87	49000	20.0	19.5	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	33221	40.0	42.3	
41 Propionitrile	54	4.391	4.391	0.000	99	50426	200.0	187.3	
104 Ethyl acetate	61	4.421	4.428	-0.007	99	10319	40.0	33.5	
43 Methacrylonitrile	67	4.543	4.543	0.000	95	150578	200.0	188.5	
42 Chlorobromomethane	128	4.549	4.550	-0.001	43	18829	20.0	17.9	
44 Tetrahydrofuran	71	4.598	4.604	-0.006	93	6351	40.0	34.0	
45 Chloroform	83	4.635	4.641	-0.006	98	85219	20.0	19.7	
46 1,1,1-Trichloroethane	97	4.806	4.806	0.000	96	76450	20.0	21.6	
47 Cyclohexane	56	4.860	4.867	-0.007	96	101636	20.0	24.1	
48 Carbon tetrachloride	117	4.964	4.970	-0.006	96	63580	20.0	20.8	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	93	72851	20.0	22.0	
108 Isobutyl alcohol	43	5.123	5.116	0.007	92	26220	500.0	392.6	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	96	72309	20.0	23.6	
50 Benzene	78	5.177	5.177	0.000	98	194862	20.0	20.1	
116 n-Butanol	56	5.299	5.299	0.000	59	57138	500.0	606.7	
52 Tert-amyl methyl ether	73	5.312	5.312	0.000	96	99056	20.0	17.0	
53 n-Heptane	43	5.476	5.476	0.000	94	76328	20.0	25.3	
54 Trichloroethene	95	5.805	5.805	0.000	96	50363	20.0	20.3	
117 Ethyl acrylate	55	5.933	5.939	-0.006	99	44668	20.0	19.1	
114 Methylcyclohexane	83	6.013	6.013	0.000	95	83866	20.0	20.6	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	86	47903	20.0	20.2	
56 Dibromomethane	93	6.122	6.122	0.000	94	23995	20.0	19.1	
115 1,4-Dioxane	58	6.165	6.159	0.006	41	5985	400.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	48815	40.0	36.3	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	55939	20.0	19.6	
106 2-Nitropropane	43	6.525	6.525	0.000	97	12803	40.0	30.8	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	24475	20.0	18.6	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	88	63672	20.0	18.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.933	0.000	99	69009	40.0	38.2	
62 Toluene	92	7.116	7.116	0.000	97	121575	20.0	18.5	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	53951	20.0	16.5	
64 Ethyl methacrylate	69	7.464	7.464	0.000	93	42811	20.0	16.6	
65 1,1,2-Trichloroethane	83	7.531	7.531	0.000	96	28478	20.0	18.1	
66 Tetrachloroethene	166	7.689	7.689	0.000	93	50290	20.0	18.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	63032	20.0	18.7	
68 2-Hexanone	43	7.823	7.823	0.000	98	45069	40.0	38.1	
69 Chlorodibromomethane	129	7.945	7.945	0.000	89	34641	20.0	16.5	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	56805	20.0	18.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	33912	20.0	17.5	
71 Chlorobenzene	112	8.616	8.616	0.000	89	123950	20.0	18.6	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	91	37779	20.0	17.5	
73 Ethylbenzene	91	8.750	8.750	0.000	99	232698	20.0	20.0	
74 m-Xylene & p-Xylene	106	8.884	8.890	-0.006	98	86333	20.0	19.0	
75 o-Xylene	106	9.329	9.329	0.000	99	79392	20.0	18.4	
76 Styrene	104	9.347	9.347	0.000	91	126888	20.0	17.7	
77 Bromoform	173	9.530	9.530	0.000	94	17282	20.0	14.9	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	216767	20.0	19.3	
79 Bromobenzene	156	10.079	10.085	-0.006	99	46696	20.0	17.1	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	37598	20.0	17.9	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	89	12669	20.0	18.1	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	78	10916	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	100	254707	20.0	19.7	
84 2-Chlorotoluene	91	10.317	10.323	-0.006	95	148146	20.0	19.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	172283	20.0	19.3	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	172536	20.0	19.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	144537	20.0	18.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	97	170414	20.0	18.5	
89 sec-Butylbenzene	105	11.091	11.097	-0.006	95	214057	20.0	19.4	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	85915	20.0	17.7	
91 4-Isopropyltoluene	119	11.274	11.280	-0.006	94	178096	20.0	19.4	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	89219	20.0	18.2	
110 1,2,3-Trimethylbenzene	105	11.384	11.384	0.000	100	160788	20.0	18.4	
113 Benzyl chloride	126	11.475	11.475	0.000	99	7960	20.0	10.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	80128	20.0	17.4	
94 n-Butylbenzene	91	11.768	11.768	0.000	98	156217	20.0	19.3	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	71	5499	20.0	18.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	46580	20.0	16.5	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	95	35494	20.0	15.1	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	22022	20.0	19.2	
98 Naphthalene	128	13.974	13.975	0.000	98	81665	20.0	15.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.273	0.006	93	29971	20.0	15.9	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	40.7	
S 100 Xylenes, Total	1				0		40.0	37.4	
S 102 1,3-Dichloropropene, Total	1				0		40.0	35.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

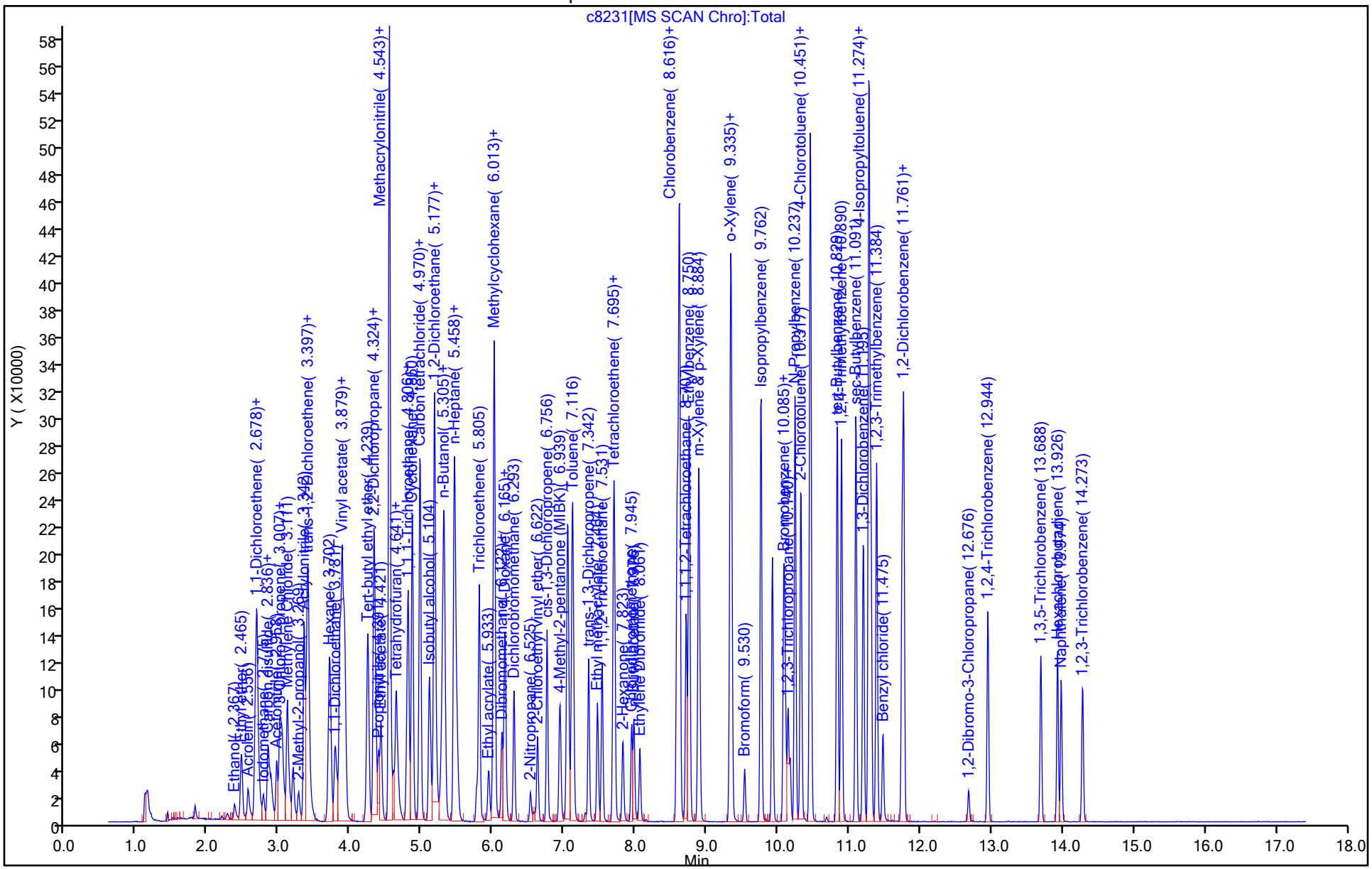
VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:54:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8231.D

Injection Date:	18-Nov-2020 06:54:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8231.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 06:54:30 ALS Bottle#: 9 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 18-Nov-2020 11:42:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.2	106.37
$ 6 Toluene-d8 (Surr)	50.0	52.7	105.49
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.2	98.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299687/5

Matrix: Water Lab File ID: H4277.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 02:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.6		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	20.3		0.50	0.13
79-00-5	1,1,2-Trichloroethane	20.3		0.50	0.22
75-34-3	1,1-Dichloroethane	16.8		1.0	0.22
75-35-4	1,1-Dichloroethene	14.7		2.0	0.56
107-06-2	1,2-Dichloroethane	20.7		1.0	0.39
78-87-5	1,2-Dichloropropane	18.0		1.0	0.27
591-78-6	2-Hexanone	39.3		10	2.0
67-64-1	Acetone	37.5		10	3.1
71-43-2	Benzene	18.7		0.50	0.22
75-25-2	Bromoform	21.0		5.0	0.78
56-23-5	Carbon tetrachloride	20.4		2.0	0.65
108-90-7	Chlorobenzene	18.4		1.0	0.40
67-66-3	Chloroform	16.6		3.0	1.3
156-59-2	cis-1,2-Dichloroethene	17.6		1.0	0.21
75-27-4	Dichlorobromomethane	18.8		1.0	0.39
100-41-4	Ethylbenzene	19.5		1.0	0.31
78-93-3	2-Butanone (MEK)	35.6		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	42.0		10	2.1
75-09-2	Methylene Chloride	14.5		1.0	0.78
100-42-5	Styrene	19.8		1.0	0.37
127-18-4	Tetrachloroethene	19.5		1.0	0.48
108-88-3	Toluene	17.6		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	15.4		1.0	0.27
79-01-6	Trichloroethene	18.4		1.0	0.43
1330-20-7	Xylenes, Total	40.2		3.0	0.40
124-48-1	Chlorodibromomethane	20.2		2.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	101		79-120
1868-53-7	Dibromofluoromethane (Surr)	109		79-120

Report Date: 20-Nov-2020 06:57:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 02:28:30 ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-005
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 03:33:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	42305	1000.0	1000.0	
* 122 Fluorobenzene	96	5.197	5.203	-0.006	97	57166	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	48	5379	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.343	8.343	0.000	92	43869	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	91	27591	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	47	12936	50.0	54.3	M
$ 6 Toluene-d8 (Surr)	98	6.794	6.794	0.000	95	49985	50.0	50.7	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	16883	50.0	47.5	
17 Ethanol	45	2.167	2.161	0.006	99	40576	800.0	758.7	
18 Ethyl ether	59	2.222	2.222	0.000	94	19982	20.0	13.5	M
19 Acrolein	56	2.332	2.332	0.000	98	41035	95.3	67.9	M
20 1,1-Dichloroethene	96	2.411	2.411	0.000	89	19095	20.0	14.7	M
21 112TCTFE	101	2.429	2.423	0.006	92	19425	20.0	18.6	M
22 Acetone	43	2.496	2.490	0.006	96	49098	40.0	37.5	M
23 Iodomethane	142	2.533	2.533	0.000	99	15294	20.0	12.8	M
24 Carbon disulfide	76	2.582	2.582	0.000	95	51938	20.0	14.6	M
105 Isopropyl alcohol	45	2.679	2.673	0.006	98	49718	200.0	218.2	M
118 Acetonitrile	40	2.746	2.740	0.006	94	68228	200.0	177.3	
25 3-Chloro-1-propene	76	2.758	2.758	0.000	82	9477	20.0	16.9	
26 Methyl acetate	43	2.807	2.807	0.000	99	107282	40.0	38.0	M
27 Methylene Chloride	84	2.874	2.874	0.000	84	20883	20.0	14.5	
35 2-Methyl-2-propanol	59	3.063	3.057	0.006	95	45414	200.0	227.7	
30 Acrylonitrile	53	3.124	3.124	0.000	98	272951	200.0	167.6	M
28 trans-1,2-Dichloroethene	96	3.130	3.130	0.000	89	22435	20.0	15.4	M
29 Methyl tert-butyl ether	73	3.161	3.155	0.006	90	61800	20.0	20.0	
31 Hexane	57	3.399	3.392	0.007	93	20831	20.0	13.1	M
32 1,1-Dichloroethane	63	3.527	3.526	0.001	96	55293	20.0	16.8	M
33 Vinyl acetate	86	3.612	3.618	-0.006	96	7706	40.0	28.0	
34 2-Chloro-1,3-butadiene	53	3.618	3.618	0.000	51	61517	20.0	17.7	M
36 Isopropyl ether	87	3.642	3.636	0.006	86	12009	20.0	18.5	
37 Tert-butyl ethyl ether	59	3.978	3.978	0.000	93	115966	20.0	20.2	M
38 2,2-Dichloropropane	77	4.075	4.069	0.006	76	26192	20.0	14.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.081	4.087	-0.006	89	31327	20.0	17.6	M
40 2-Butanone (MEK)	43	4.136	4.136	0.000	95	50135	40.0	35.6	
41 Propionitrile	54	4.185	4.185	0.000	99	125429	200.0	194.6	M
104 Ethyl acetate	43	4.203	4.203	0.000	97	110861	40.0	32.1	M
42 Chlorobromomethane	128	4.307	4.307	0.000	81	14088	20.0	18.3	M
43 Methacrylonitrile	67	4.325	4.325	0.000	95	149327	200.0	183.7	
44 Tetrahydrofuran	71	4.374	4.380	-0.006	82	7387	40.0	37.5	M
45 Chloroform	83	4.398	4.398	0.000	92	43312	20.0	16.6	M
46 1,1,1-Trichloroethane	97	4.557	4.551	0.006	95	42370	20.0	18.6	
47 Cyclohexane	56	4.600	4.599	0.001	90	71622	20.0	16.6	M
48 Carbon tetrachloride	117	4.709	4.709	0.000	96	30133	20.0	20.4	
49 1,1-Dichloropropene	75	4.715	4.721	-0.006	81	32029	20.0	16.1	M
50 Benzene	78	4.910	4.916	-0.006	81	110827	20.0	18.7	M
108 Isobutyl alcohol	43	4.917	4.923	-0.006	90	73588	500.0	554.5	
51 1,2-Dichloroethane	62	4.941	4.941	0.000	94	48120	20.0	20.7	M
116 n-Butanol	56	5.002	5.008	-0.006	52	46376	500.0	407.9	
52 Tert-amyl methyl ether	73	5.057	5.057	0.000	83	61796	20.0	19.2	
53 n-Heptane	43	5.203	5.203	0.000	90	30595	20.0	13.9	M
54 Trichloroethene	132	5.551	5.550	0.001	93	32587	20.0	18.4	M
117 Ethyl acrylate	55	5.721	5.709	0.012	98	44989	20.0	19.3	M
114 Methylcyclohexane	83	5.740	5.733	0.007	89	33855	20.0	17.1	M
55 1,2-Dichloropropane	63	5.776	5.776	0.000	92	31800	20.0	18.0	M
56 Dibromomethane	93	5.892	5.886	0.006	96	15186	20.0	20.5	M
57 Methyl methacrylate	69	5.929	5.935	-0.006	87	36732	40.0	35.3	M
115 1,4-Dioxane	58	5.941	5.935	0.006	34	11852	400.0	405.5	M
58 Dichlorobromomethane	83	6.057	6.063	-0.006	92	21624	20.0	18.8	
106 2-Nitropropane	43	6.306	6.306	0.000	96	22705	40.0	31.5	
59 2-Chloroethyl vinyl ether	63	6.392	6.398	-0.006	80	20919	20.0	18.8	M
60 cis-1,3-Dichloropropene	75	6.526	6.520	0.006	79	21609	20.0	21.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.709	6.709	0.000	96	126883	40.0	42.0	
62 Toluene	92	6.861	6.861	0.000	97	66148	20.0	17.6	M
63 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	88	17923	20.0	22.4	
64 Ethyl methacrylate	69	7.239	7.239	0.000	86	30642	20.0	18.9	
65 1,1,2-Trichloroethane	83	7.300	7.300	0.000	93	19241	20.0	20.3	M
66 Tetrachloroethene	166	7.434	7.434	0.000	96	27742	20.0	19.5	M
67 1,3-Dichloropropane	76	7.471	7.477	-0.006	85	33739	20.0	20.1	E
68 2-Hexanone	43	7.599	7.599	0.000	96	80290	40.0	39.3	
69 Chlorodibromomethane	129	7.709	7.709	0.000	88	13451	20.0	20.2	
109 n-Butyl acetate	43	7.751	7.751	0.000	96	83016	20.0	19.3	
70 Ethylene Dibromide	107	7.818	7.818	0.000	96	16035	20.0	18.1	
71 Chlorobenzene	112	8.373	8.373	0.000	90	75735	20.0	18.4	
72 1,1,1,2-Tetrachloroethane	131	8.471	8.471	0.000	92	30677	20.0	22.3	
73 Ethylbenzene	91	8.507	8.507	0.000	98	111016	20.0	19.5	
74 m-Xylene & p-Xylene	106	8.641	8.647	-0.006	98	43805	20.0	19.5	
75 o-Xylene	106	9.086	9.086	0.000	97	43936	20.0	20.7	a
76 Styrene	104	9.105	9.105	0.000	88	72488	20.0	19.8	
77 Bromoform	173	9.294	9.294	0.000	94	7168	20.0	21.0	
78 Isopropylbenzene	105	9.519	9.519	0.000	96	106449	20.0	21.2	
79 Bromobenzene	156	9.842	9.842	0.000	87	30498	20.0	20.3	
80 1,1,2,2-Tetrachloroethane	83	9.873	9.873	0.000	97	28150	20.0	20.3	
81 1,2,3-Trichloropropane	75	9.909	9.909	0.000	94	29035	20.0	25.9	
82 trans-1,4-Dichloro-2-butene	53	9.946	9.940	0.006	60	7866	20.0	28.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.001	10.001	0.000	99	120253	20.0	21.5	
84 2-Chlorotoluene	91	10.074	10.080	-0.006	95	81290	20.0	20.3	
85 4-Chlorotoluene	91	10.208	10.208	0.000	97	102085	20.0	21.9	
86 1,3,5-Trimethylbenzene	105	10.214	10.214	0.000	94	120807	20.0	25.6	
87 tert-Butylbenzene	119	10.586	10.586	0.000	96	139726	20.0	22.3	
88 1,2,4-Trimethylbenzene	105	10.647	10.647	0.000	98	111937	20.0	25.8	
89 sec-Butylbenzene	105	10.848	10.854	-0.006	95	127541	20.0	25.3	
90 1,3-Dichlorobenzene	146	10.952	10.952	0.000	97	61420	20.0	22.7	
91 4-Isopropyltoluene	119	11.037	11.037	0.000	96	110165	20.0	24.4	
92 1,4-Dichlorobenzene	146	11.062	11.062	0.000	94	64691	20.0	18.2	
110 1,2,3-Trimethylbenzene	105	11.141	11.141	0.000	98	124666	20.0	24.0	
113 Benzyl chloride	126	11.238	11.232	0.006	98	3802	20.0	13.8	
93 1,2-Dichlorobenzene	146	11.495	11.501	-0.007	97	59448	20.0	18.5	
94 n-Butylbenzene	91	11.519	11.519	0.000	98	93104	20.0	23.2	
95 1,2-Dibromo-3-Chloropropane	75	12.439	12.439	0.000	78	5317	20.0	26.0	
112 1,3,5-Trichlorobenzene	180	12.695	12.695	0.000	96	45658	20.0	22.8	
96 1,2,4-Trichlorobenzene	180	13.439	13.445	-0.006	95	32853	20.0	19.9	
97 Hexachlorobutadiene	225	13.677	13.671	0.006	94	15529	20.0	21.0	
98 Naphthalene	128	13.726	13.726	0.000	97	115337	20.0	21.6	
99 1,2,3-Trichlorobenzene	180	14.024	14.024	0.000	95	31003	20.0	20.8	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	32.9	
S 100 Xylenes, Total	1				0		40.0	40.2	
S 102 1,3-Dichloropropene, Total	1				0		40.0	43.5	

QC Flag Legend

Processing Flags
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated
- a - User Assigned ID

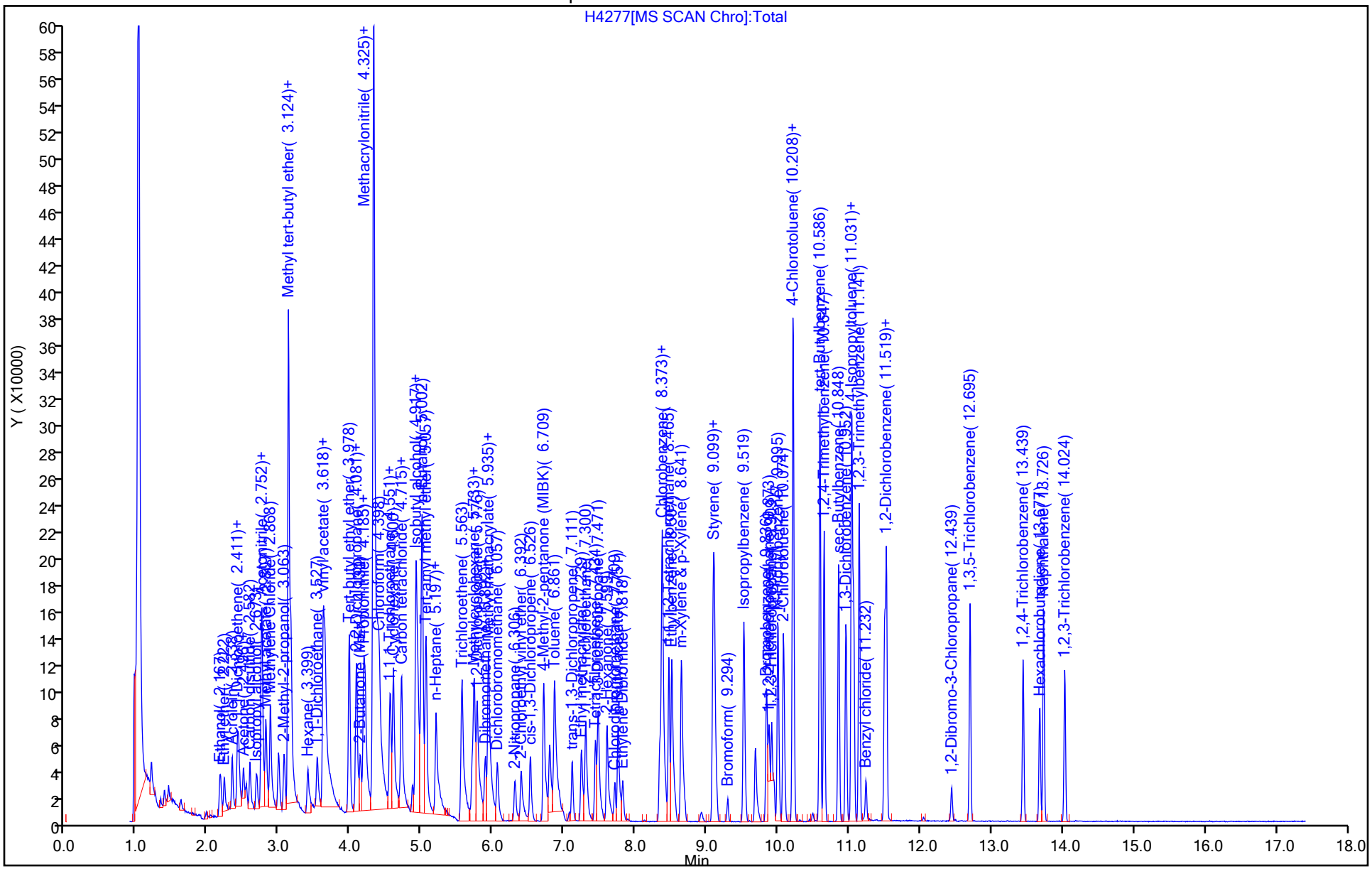
Reagents:

VV_I_MOSOL_00219	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 06:57:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D				
Injection Date:	19-Nov-2020 02:28:30	Instrument ID:	Hobbes	Operator ID:	
Lims ID:	lcs			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	HVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 02:28:30 ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-005
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 06:57:04 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 03:33:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.3	108.61
$ 6 Toluene-d8 (Surr)	50.0	50.7	101.40
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.5	95.10

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

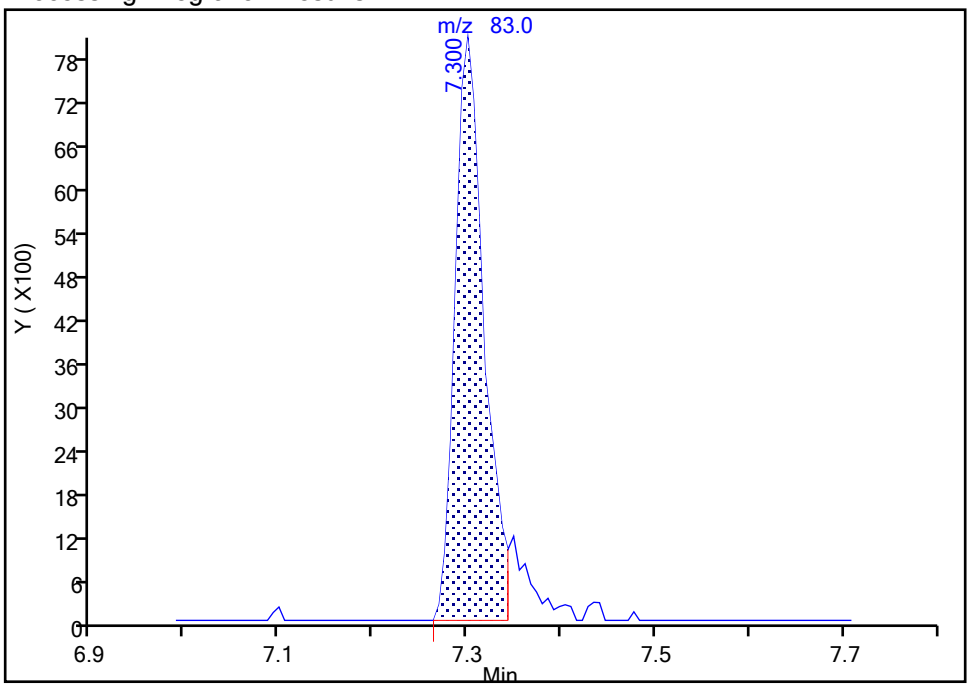
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

65 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

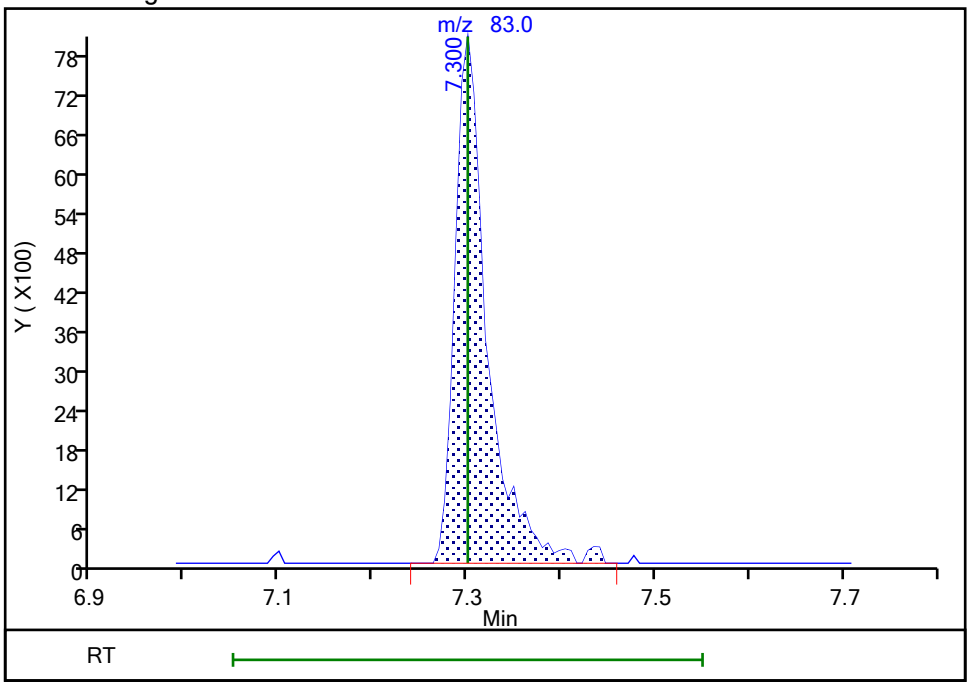
Processing Integration Results

RT: 7.30
Area: 17236
Amount: 18.171868
Amount Units: ug/l



Manual Integration Results

RT: 7.30
Area: 19241
Amount: 20.285734
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:25:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

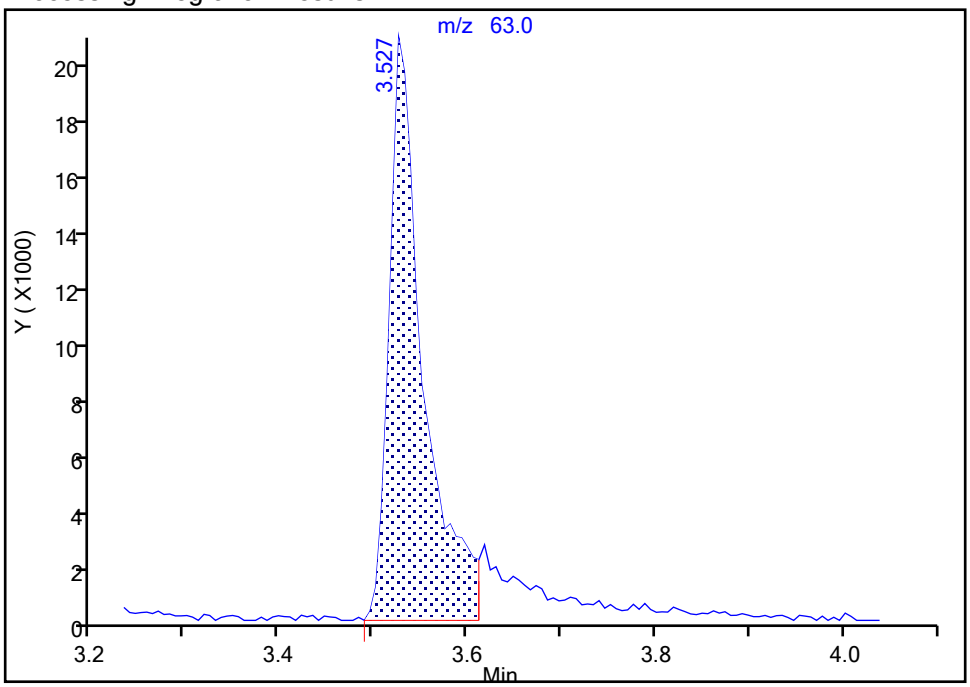
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

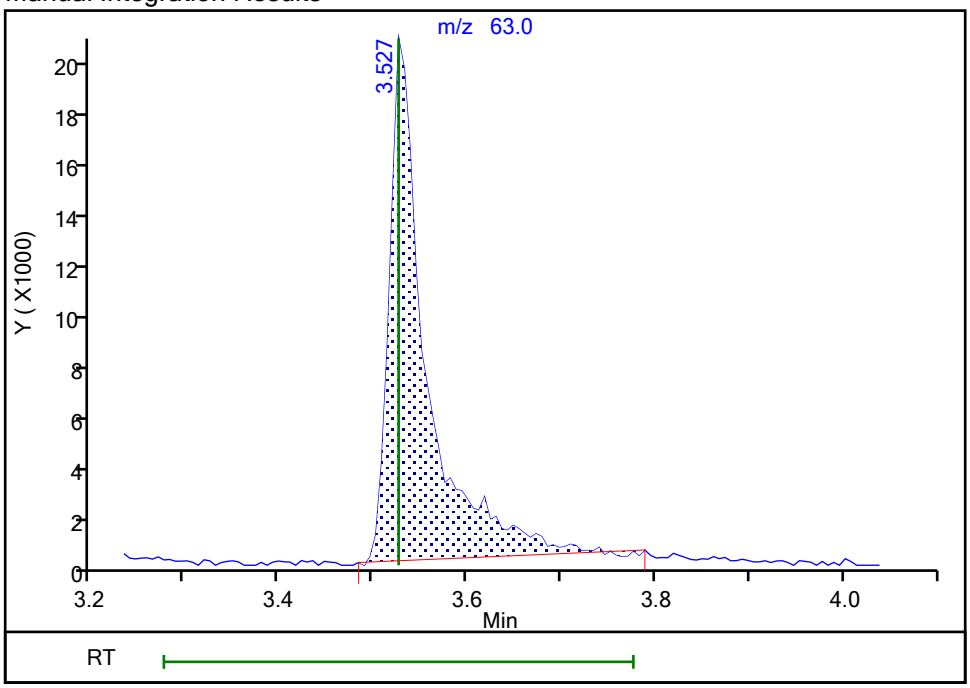
Processing Integration Results

RT: 3.53
Area: 51820
Amount: 15.701115
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 55293
Amount: 16.753411
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:21:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

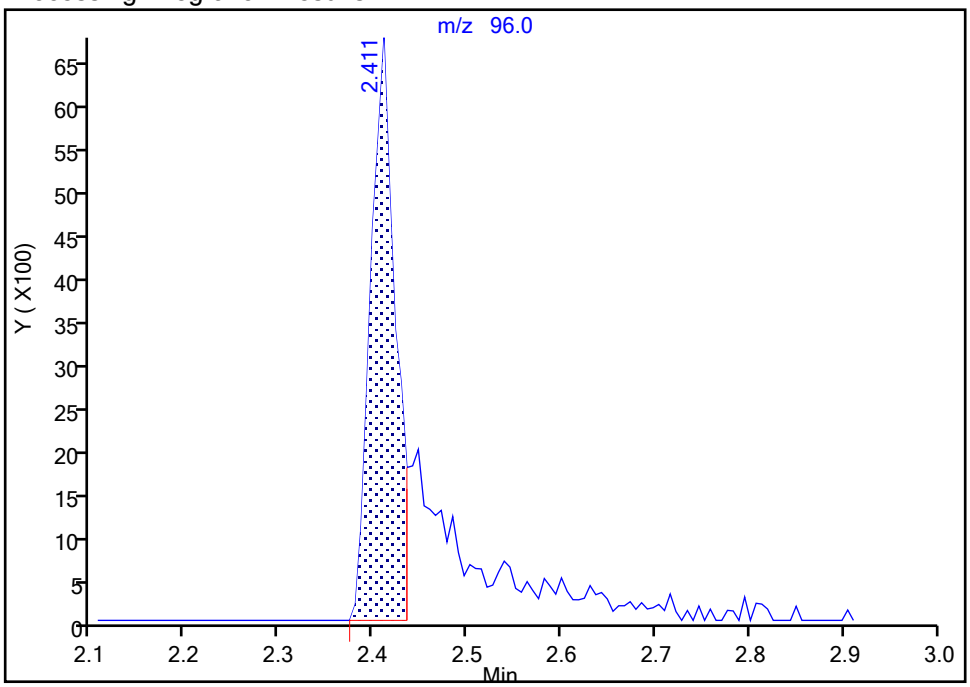
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

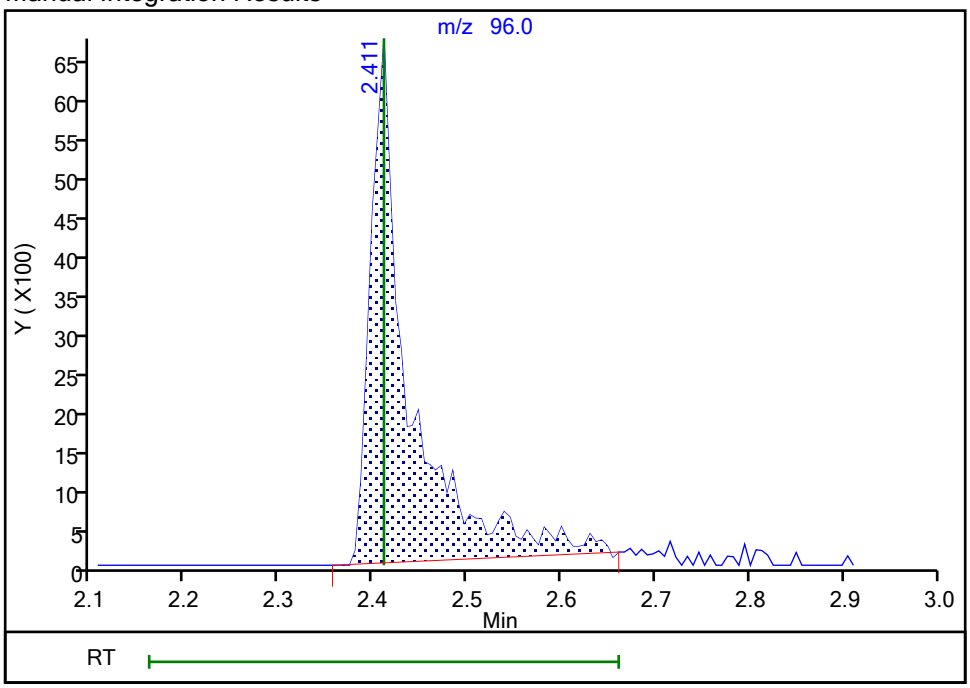
Processing Integration Results

RT: 2.41
Area: 12337
Amount: 9.668431
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 19095
Amount: 14.735604
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:19:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

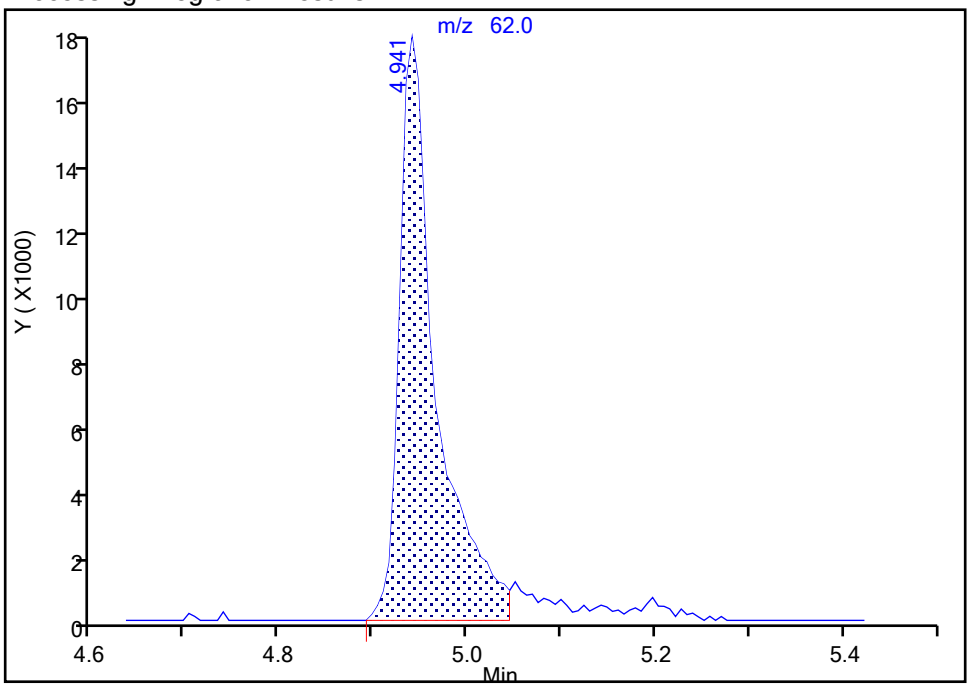
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

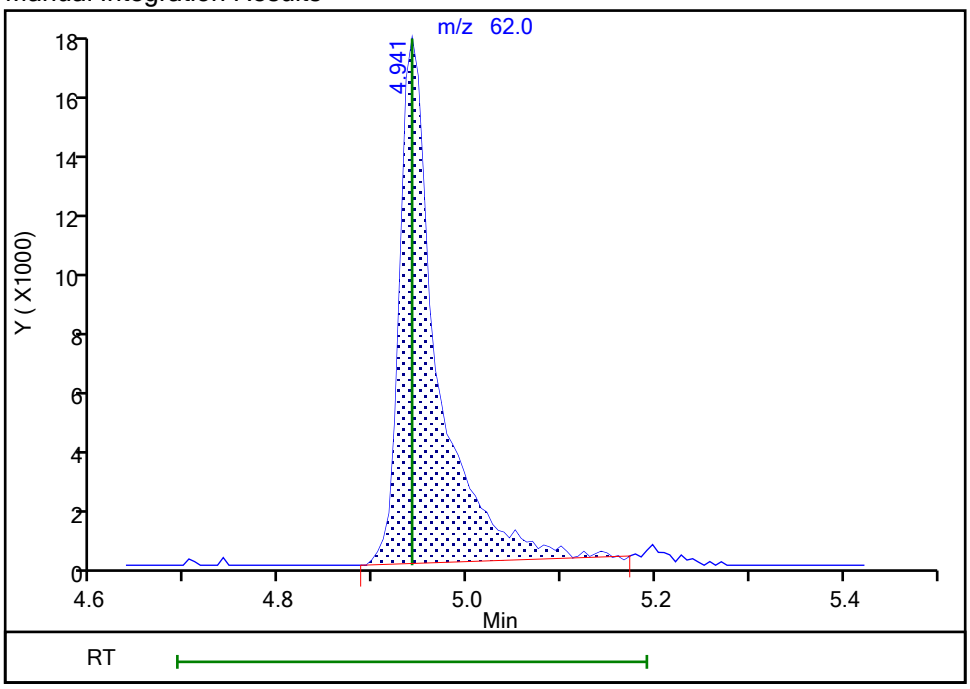
Processing Integration Results

RT: 4.94
Area: 46980
Amount: 20.193691
Amount Units: ug/l



Manual Integration Results

RT: 4.94
Area: 48120
Amount: 20.683704
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:23:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

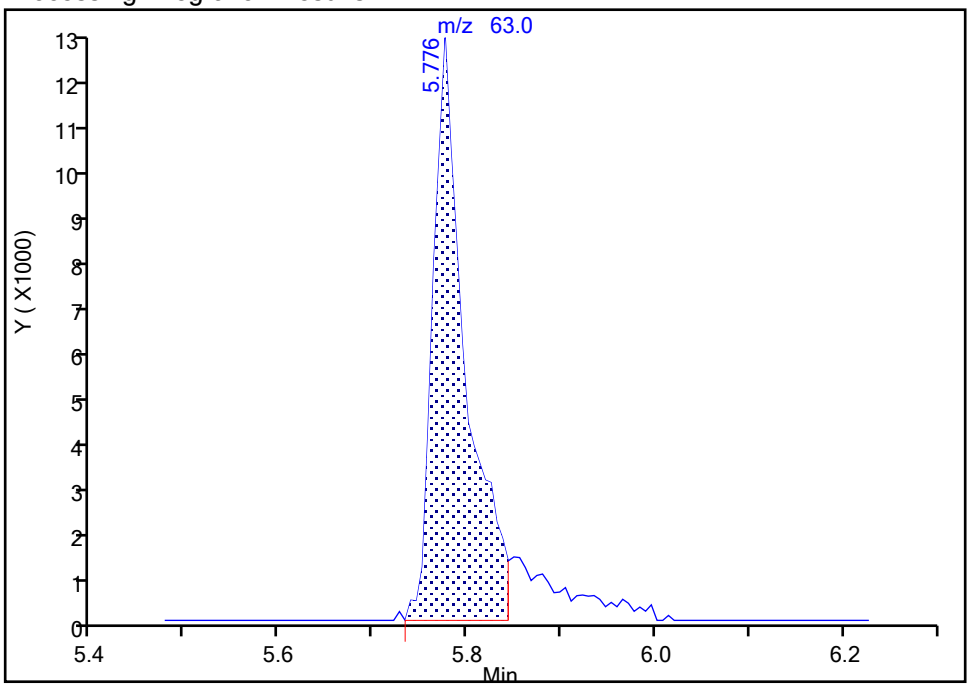
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

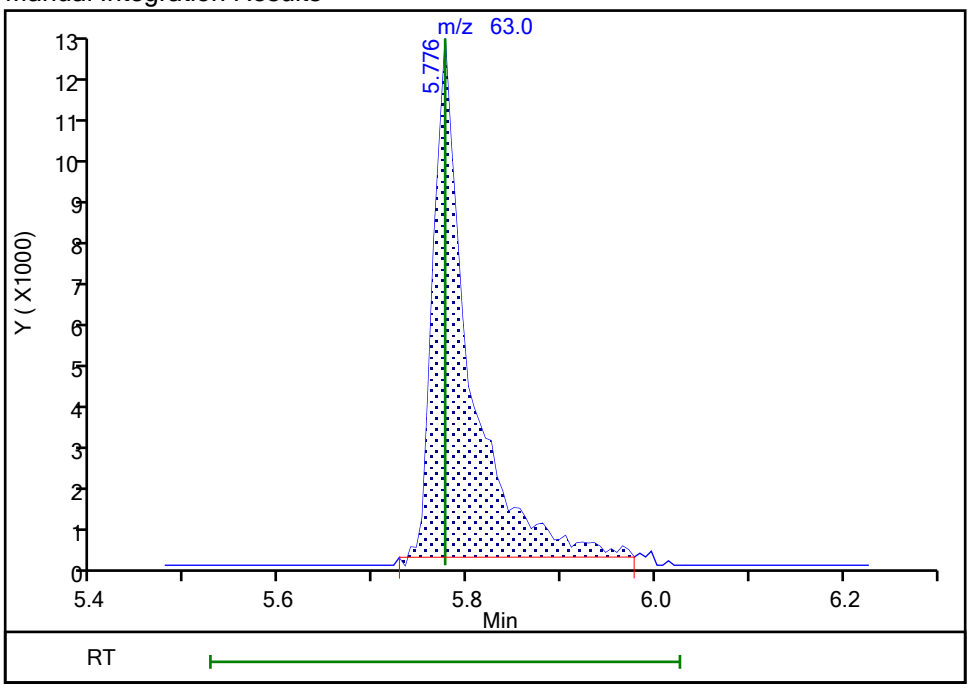
Processing Integration Results

RT: 5.78
Area: 29497
Amount: 16.664021
Amount Units: ug/l



Manual Integration Results

RT: 5.78
Area: 31800
Amount: 17.965077
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:24:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

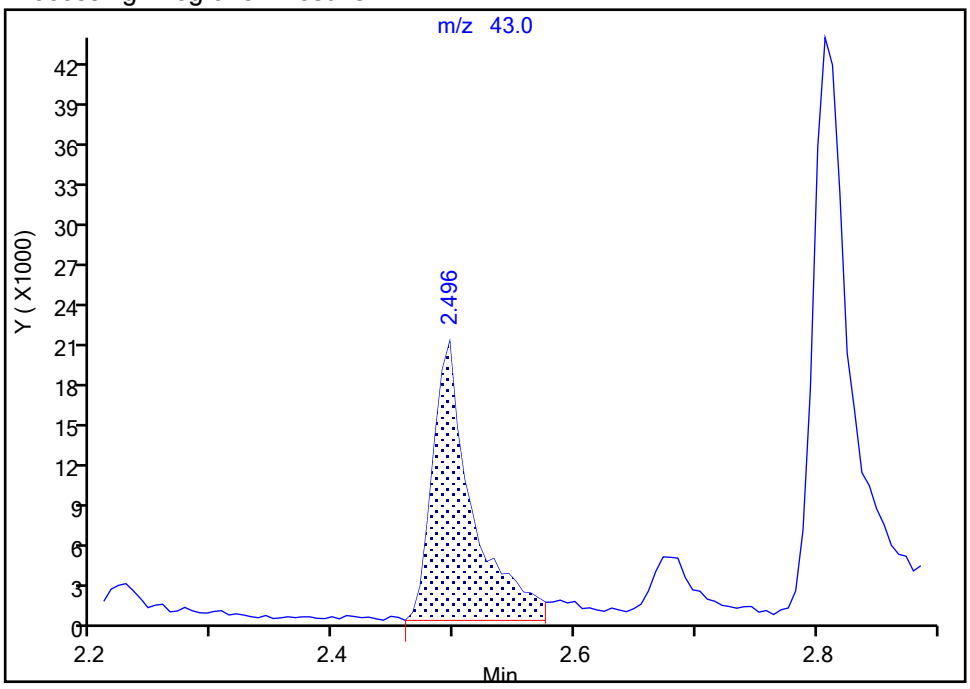
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

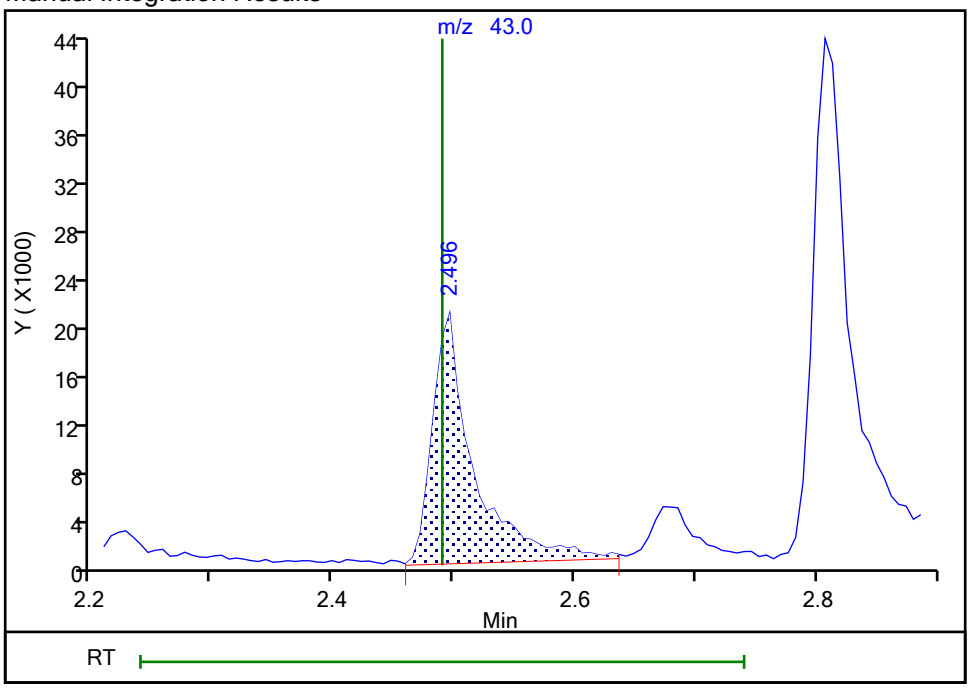
Processing Integration Results

RT: 2.50
Area: 47061
Amount: 35.902680
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 49098
Amount: 37.456701
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:20:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

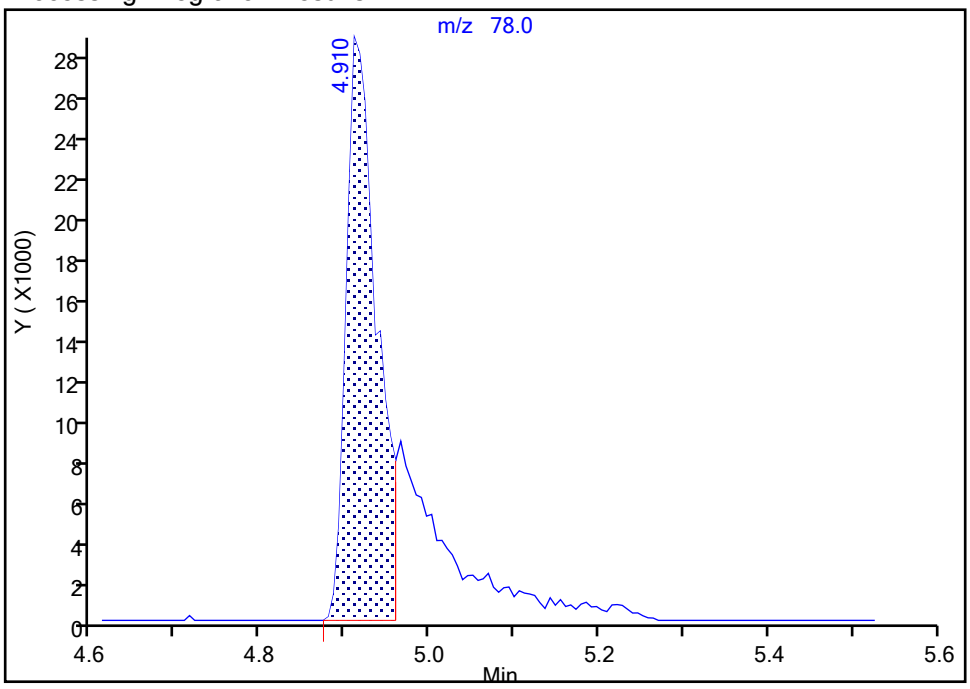
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

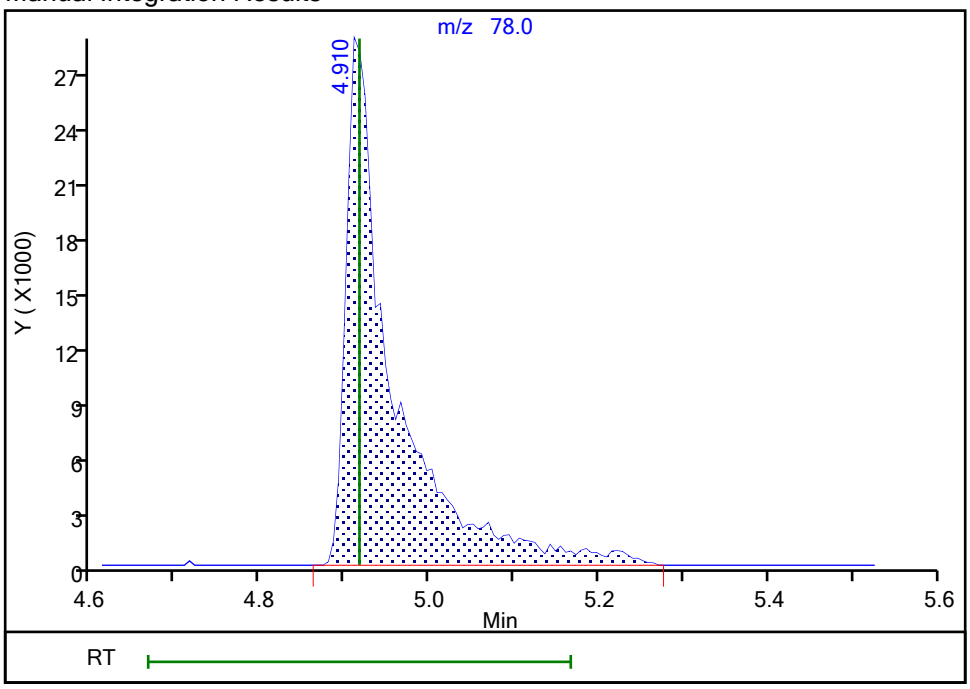
Processing Integration Results

RT: 4.91
Area: 72878
Amount: 12.297398
Amount Units: ug/l



Manual Integration Results

RT: 4.91
Area: 110827
Amount: 18.700893
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:23:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

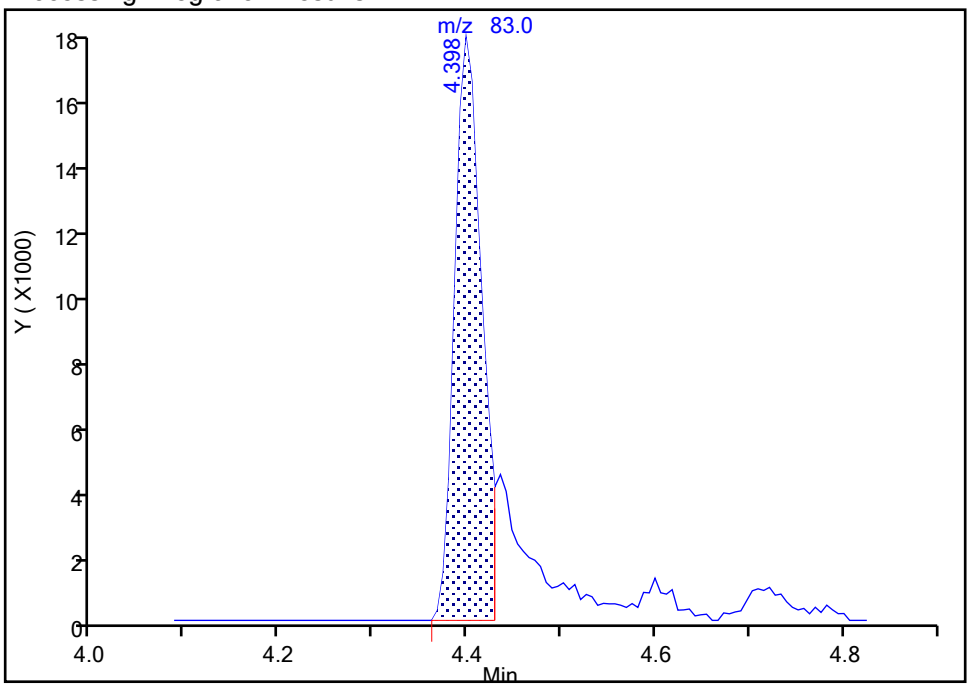
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

45 Chloroform, CAS: 67-66-3

Signal: 1

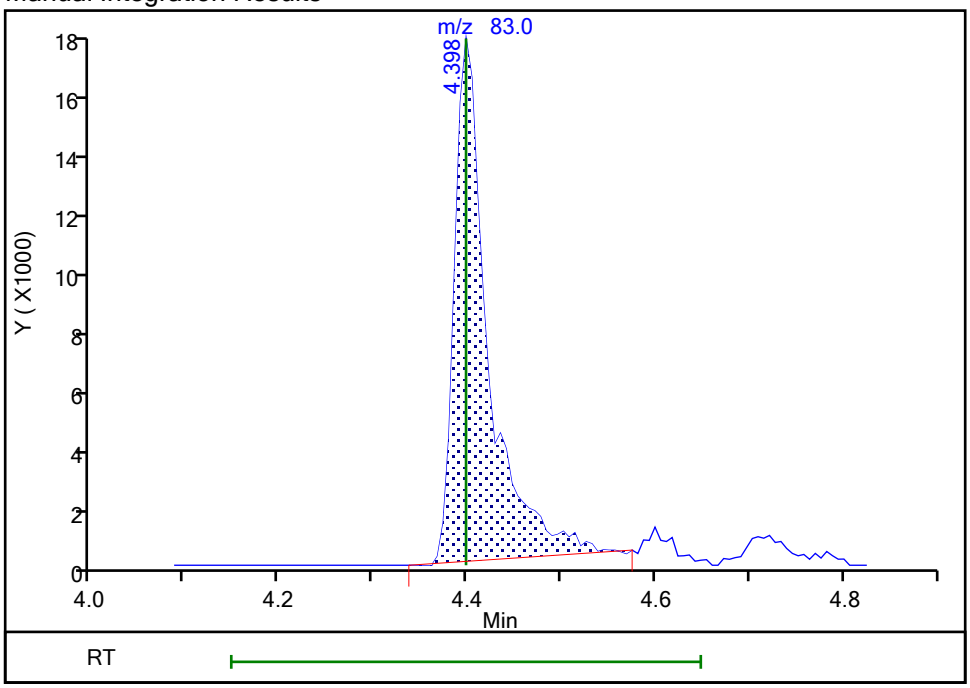
Processing Integration Results

RT: 4.40
Area: 35189
Amount: 13.504955
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 43312
Amount: 16.622428
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:22:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

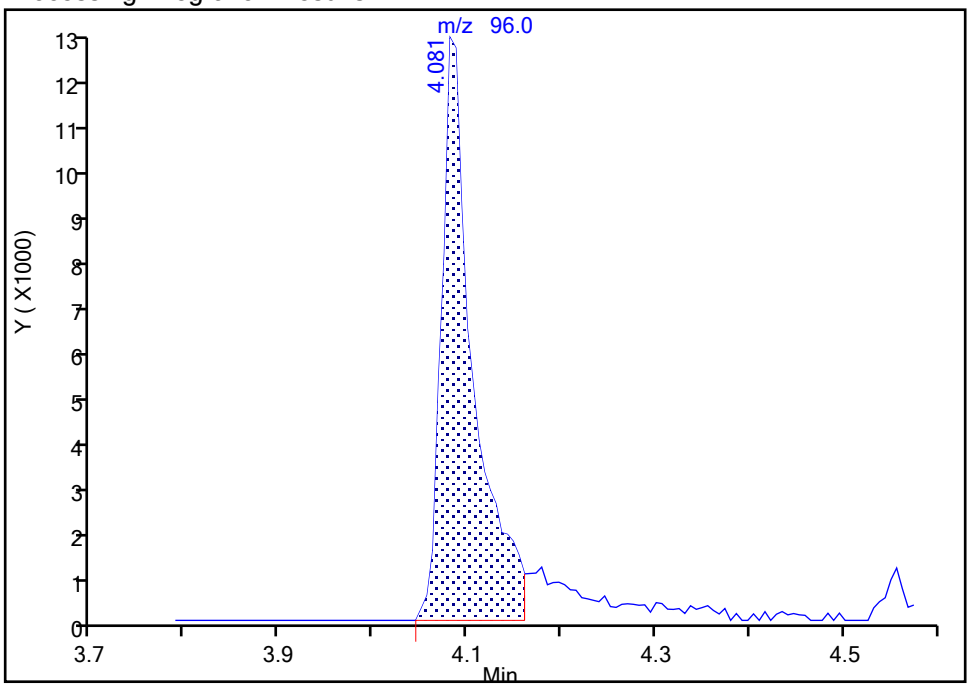
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

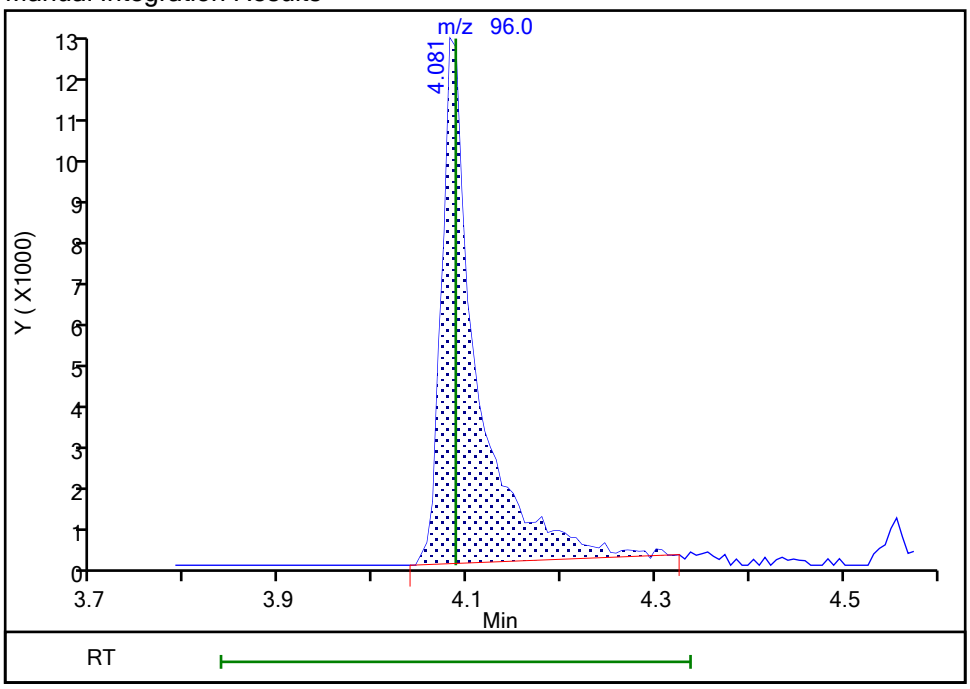
Processing Integration Results

RT: 4.08
Area: 28567
Amount: 16.035108
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 31327
Amount: 17.584339
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:21:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

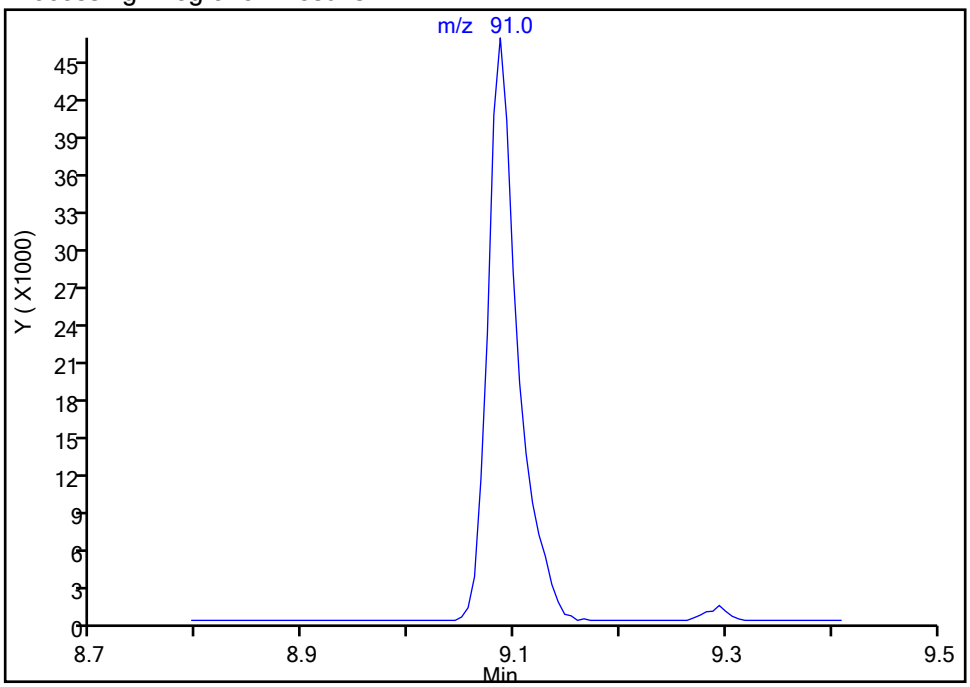
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

75 o-Xylene, CAS: 95-47-6

Signal: 1

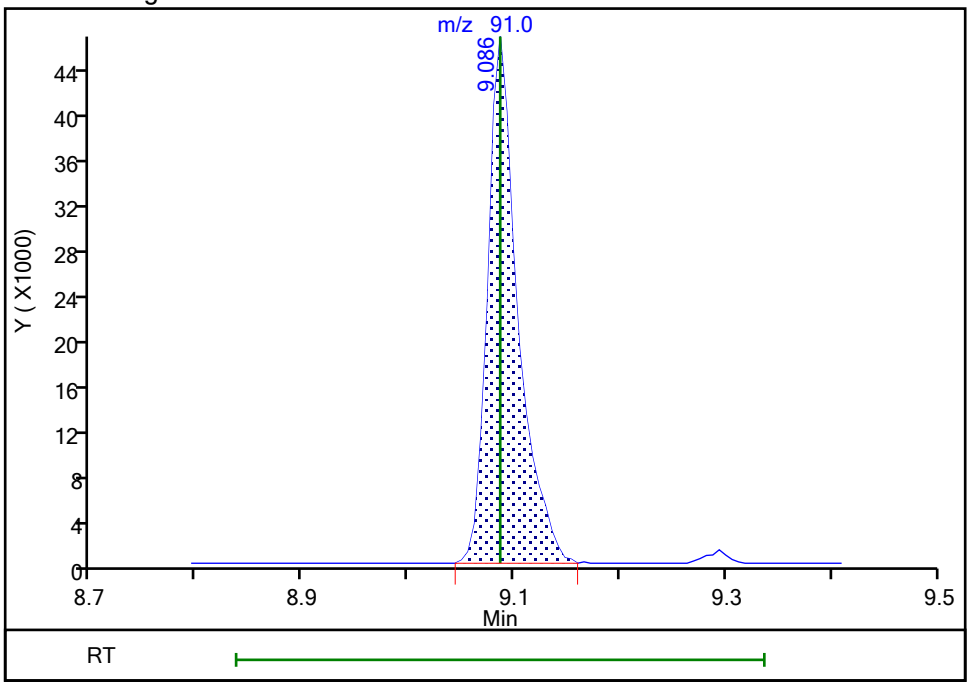
Not Detected
Expected RT: 9.09

Processing Integration Results



Manual Integration Results

RT: 9.09
Area: 92170
Amount: 20.698533
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:25:40
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

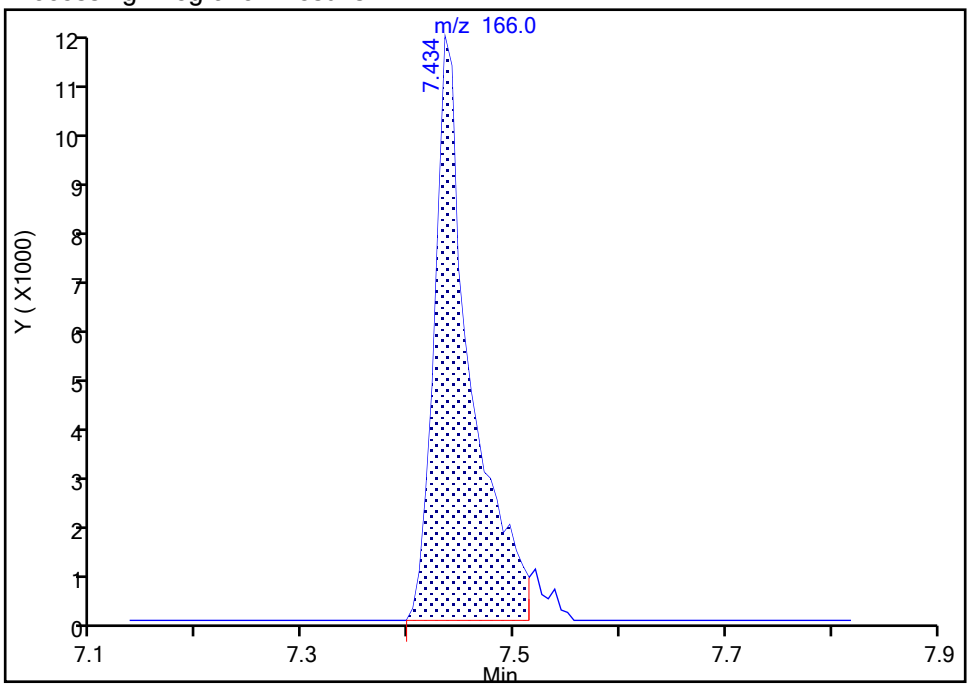
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

66 Tetrachloroethene, CAS: 127-18-4

Signal: 3

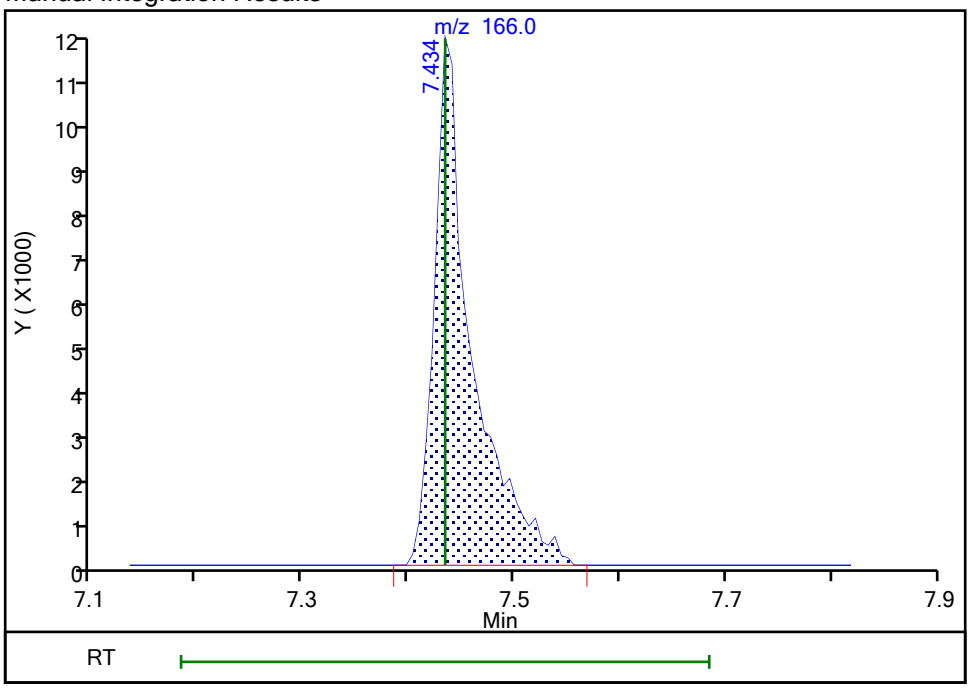
Processing Integration Results

RT: 7.43
Area: 26697
Amount: 18.796430
Amount Units: ug/l



Manual Integration Results

RT: 7.43
Area: 27742
Amount: 19.532178
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:25:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

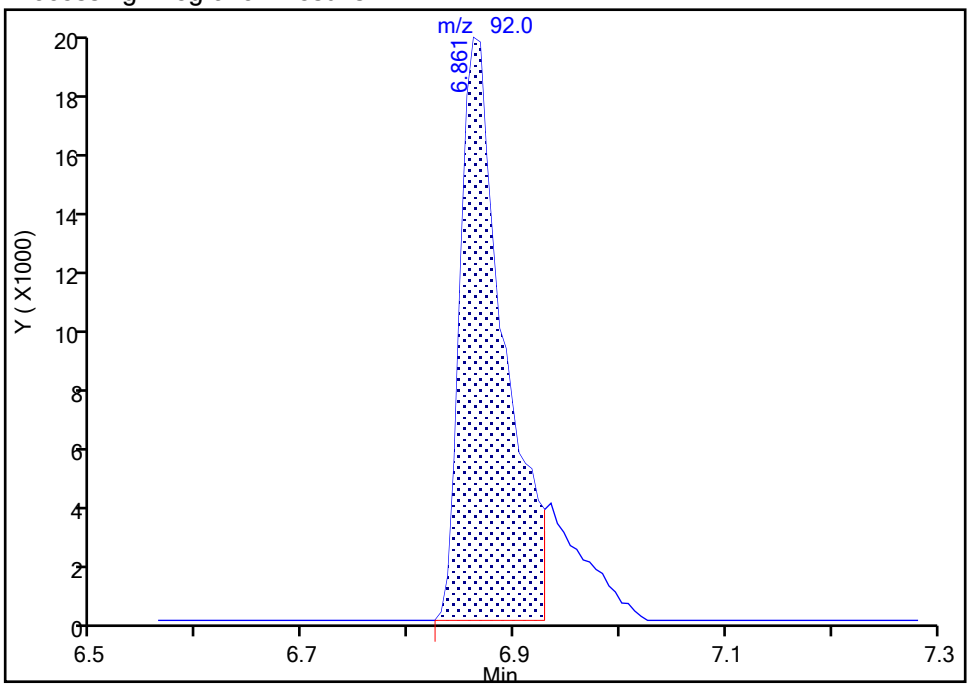
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

62 Toluene, CAS: 108-88-3

Signal: 1

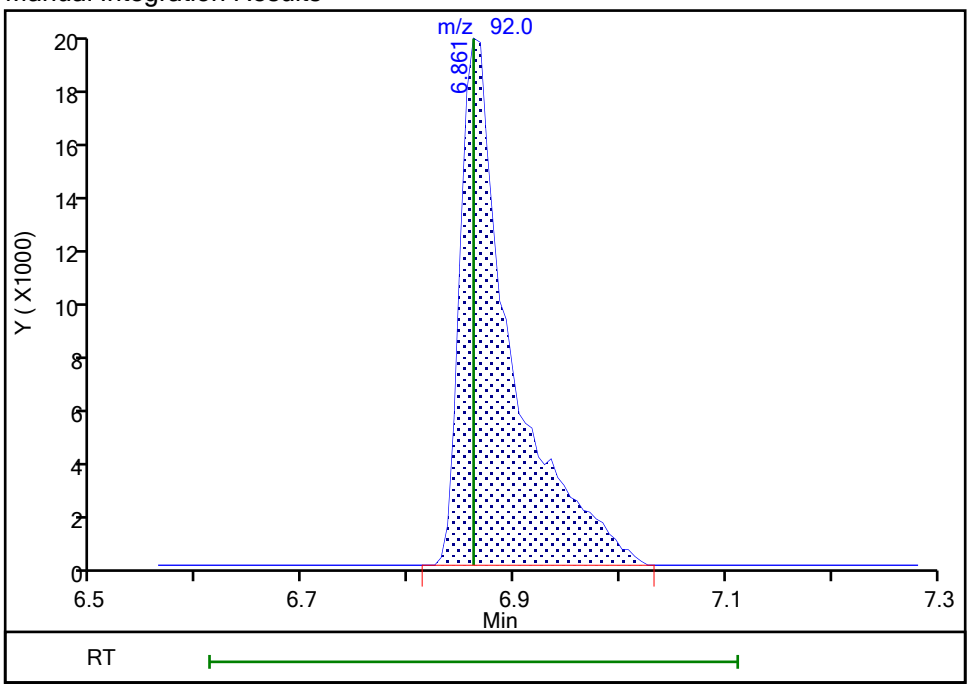
Processing Integration Results

RT: 6.86
Area: 56582
Amount: 15.024935
Amount Units: ug/l



Manual Integration Results

RT: 6.86
Area: 66148
Amount: 17.565116
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:25:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

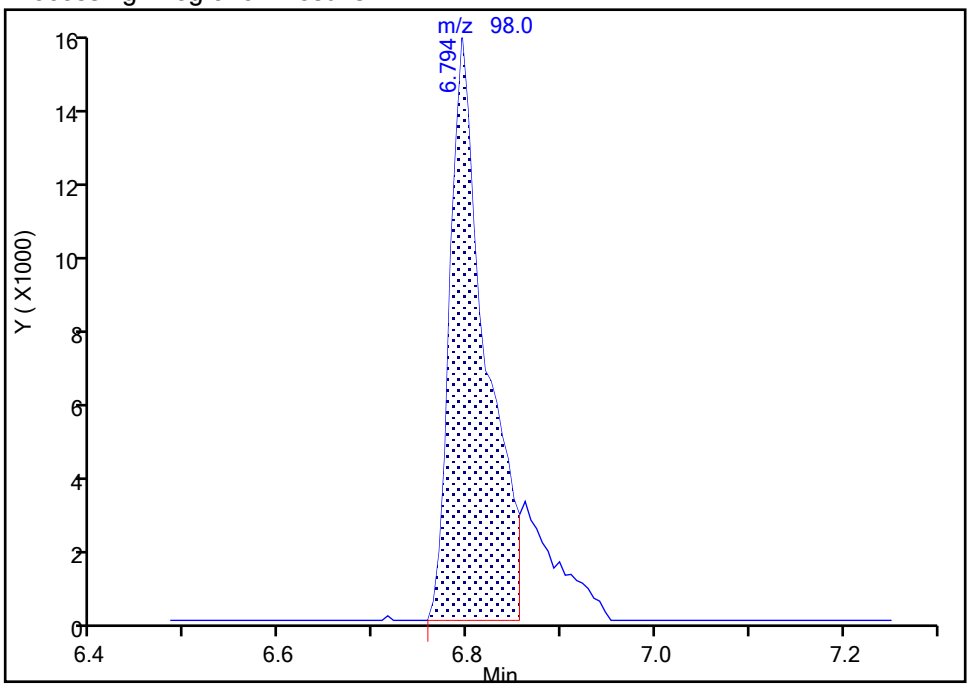
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

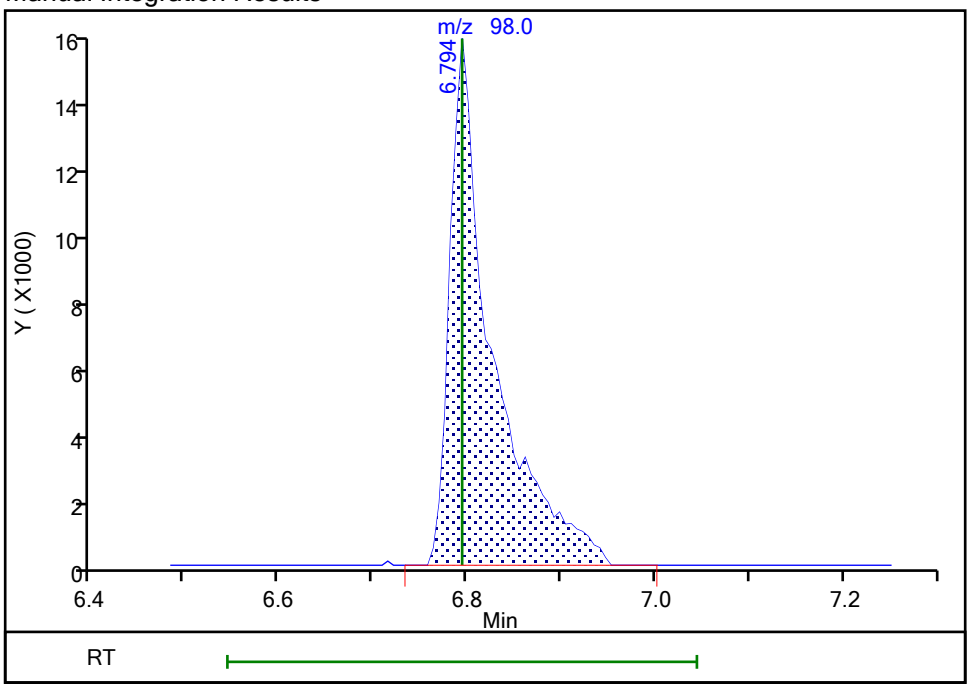
Processing Integration Results

RT: 6.79
Area: 41813
Amount: 42.411246
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 49985
Amount: 50.700169
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:19:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

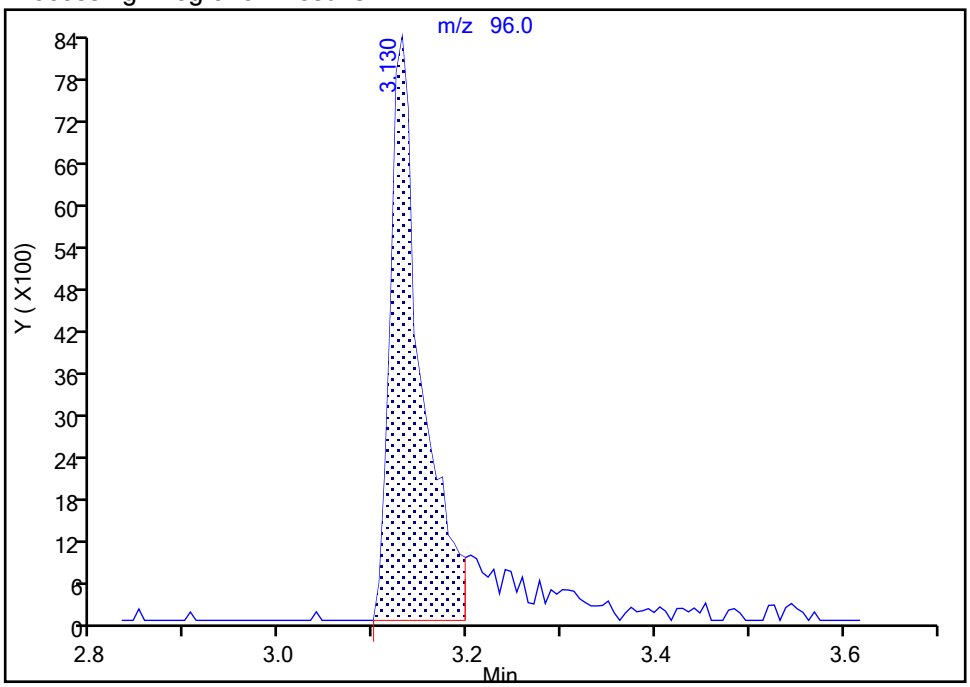
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

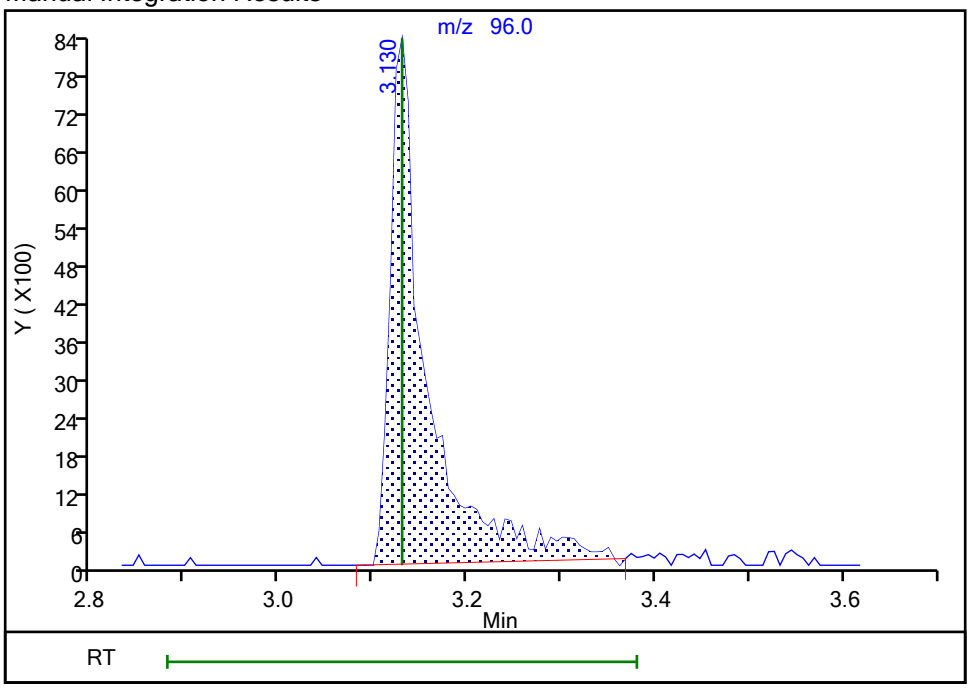
Processing Integration Results

RT: 3.13
Area: 19050
Amount: 13.040661
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 22435
Amount: 15.357860
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:21:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

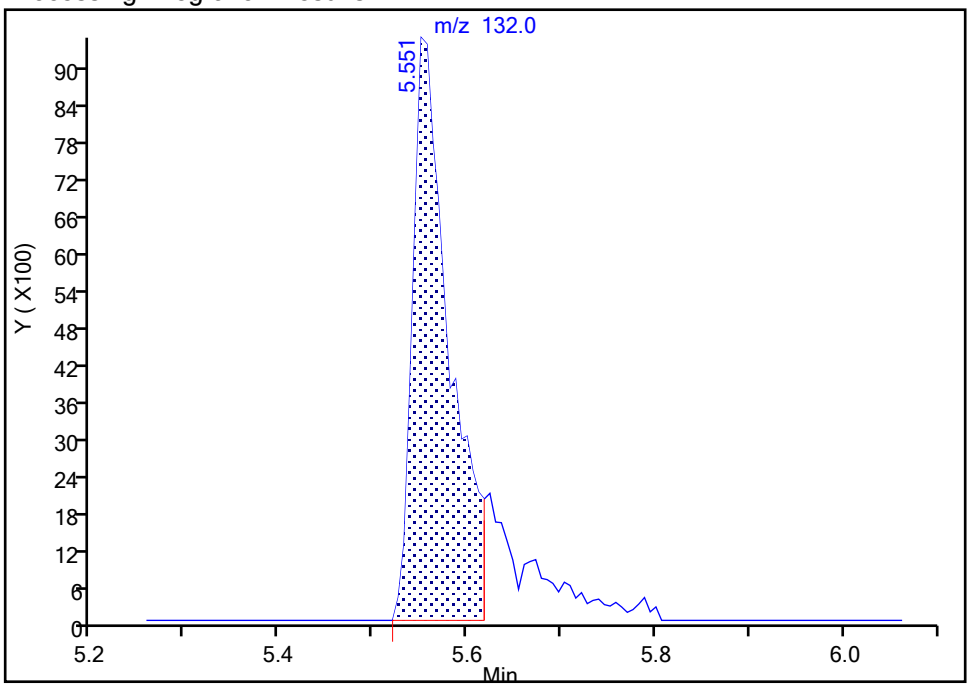
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

54 Trichloroethene, CAS: 79-01-6

Signal: 2

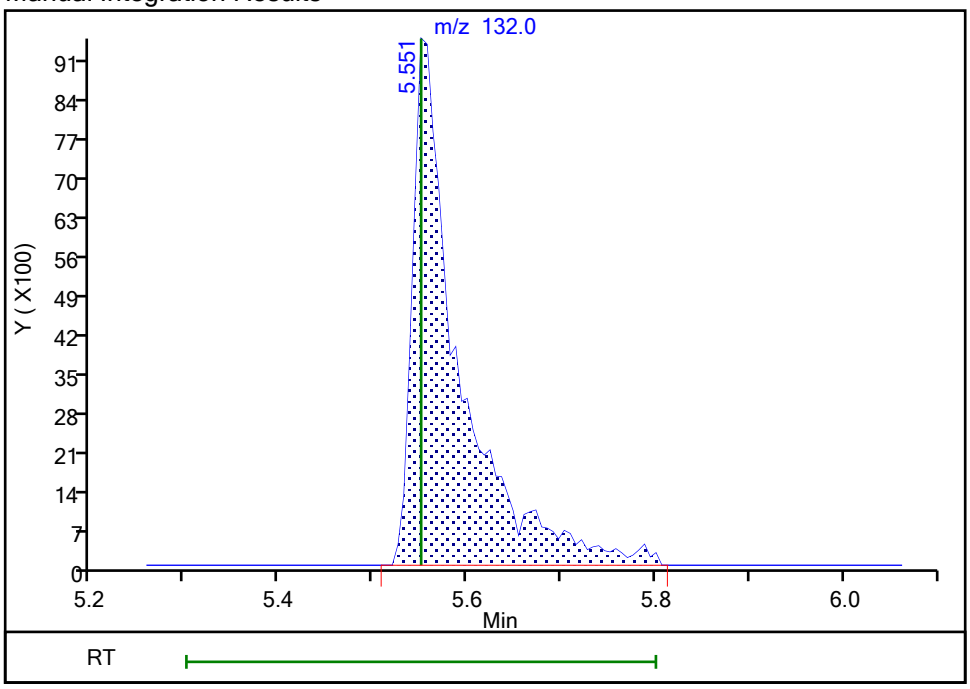
Processing Integration Results

RT: 5.55
Area: 25837
Amount: 14.597282
Amount Units: ug/l



Manual Integration Results

RT: 5.55
Area: 32587
Amount: 18.410870
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:23:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

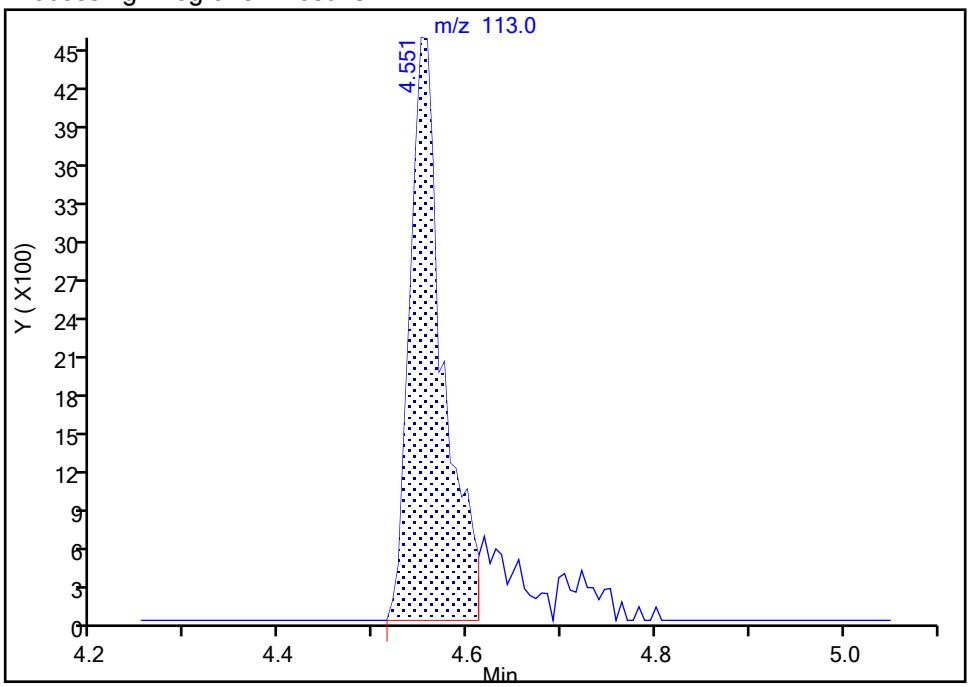
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

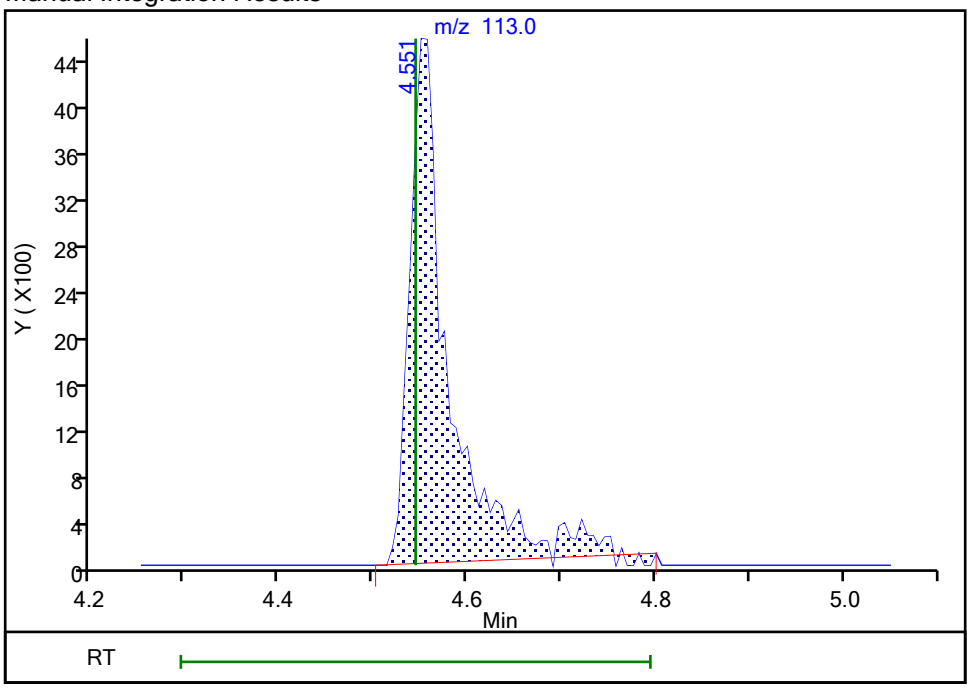
Processing Integration Results

RT: 4.55
Area: 11170
Amount: 46.891201
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 12936
Amount: 54.304797
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:19:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

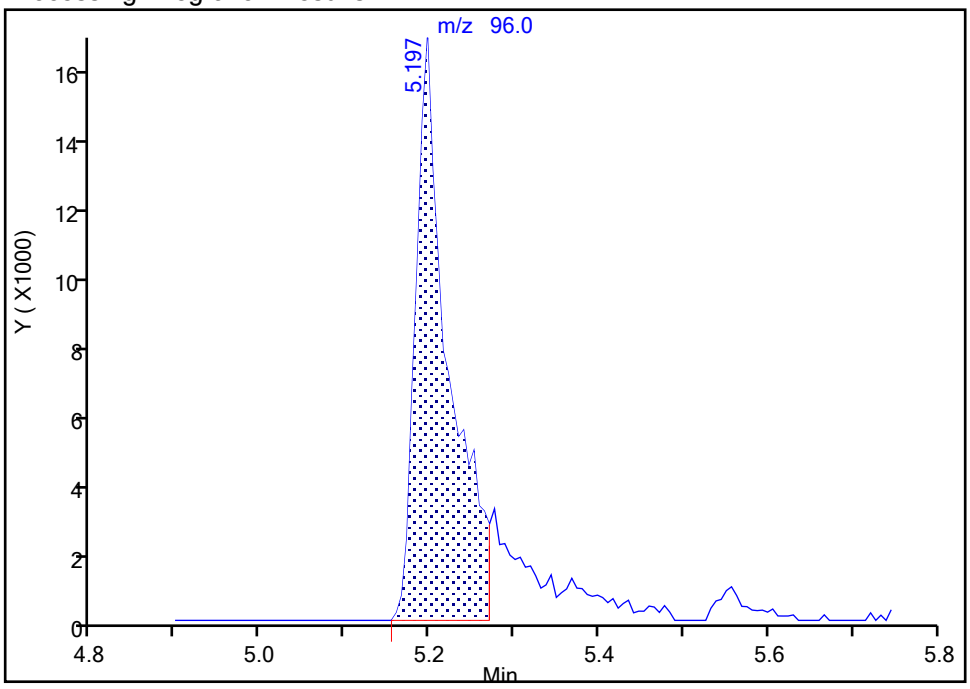
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

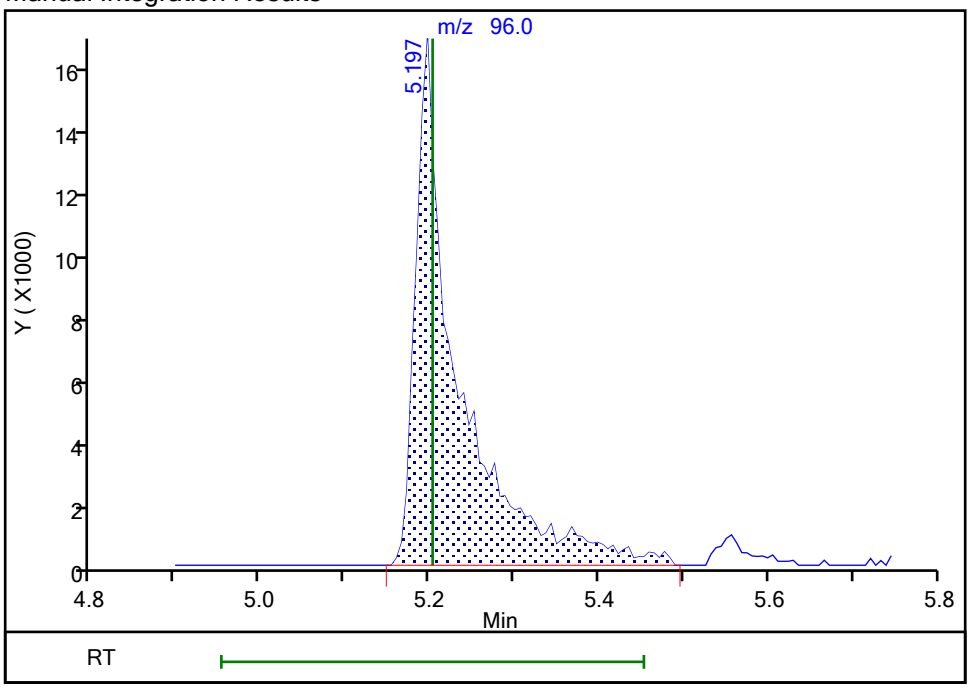
Processing Integration Results

RT: 5.20
Area: 44974
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 57166
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 03:33:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

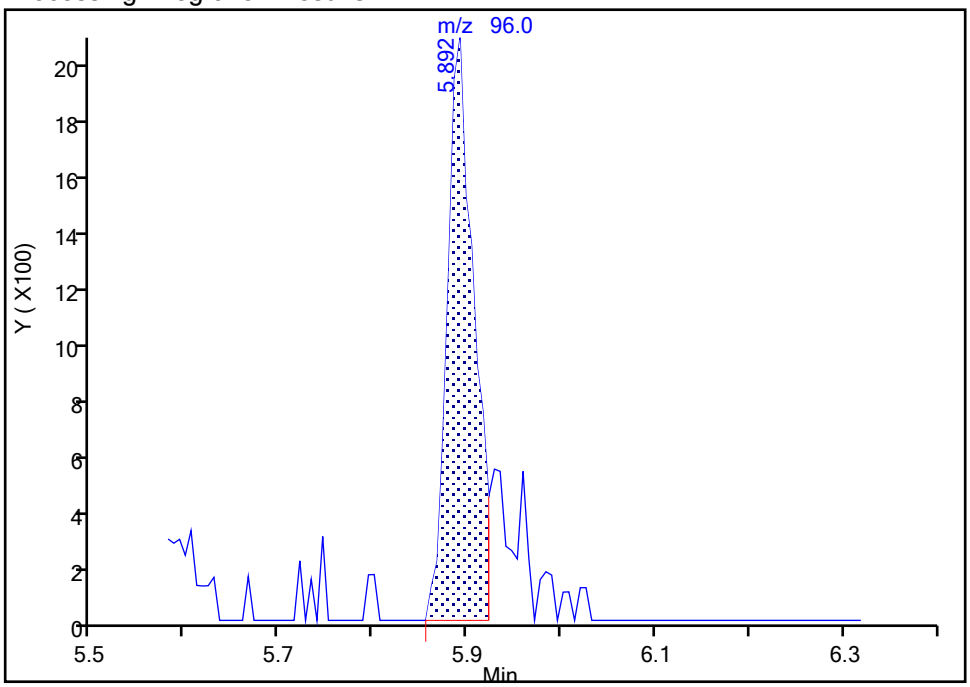
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4277.D
Injection Date: 19-Nov-2020 02:28:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

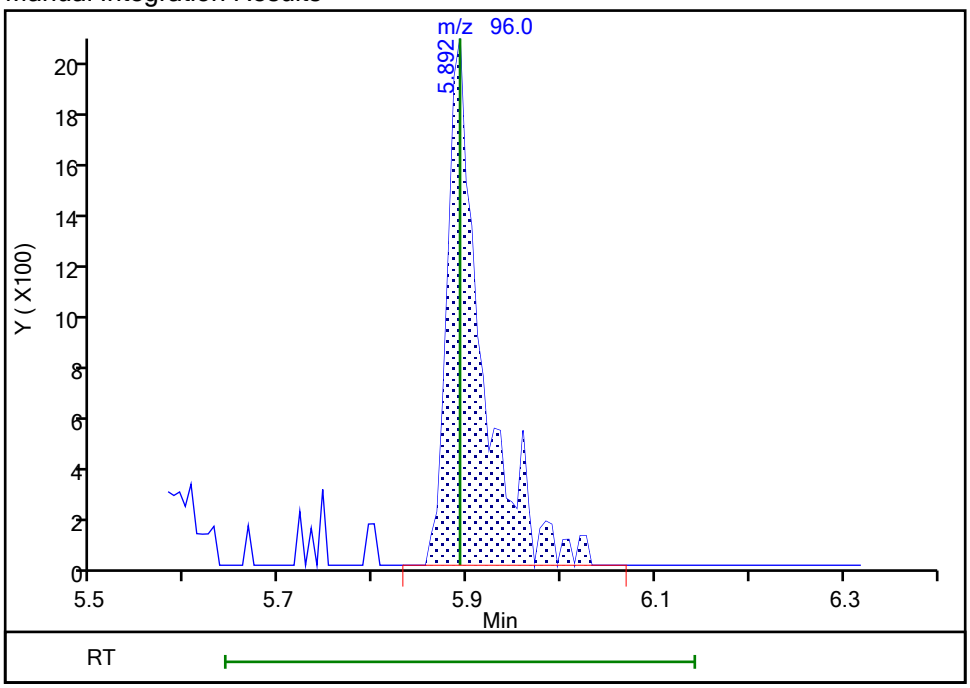
Processing Integration Results

RT: 5.89
Area: 4105
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 5379
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:19:01
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299687/6

Matrix: Water Lab File ID: H4278.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 02:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	20.3		2.0	0.82
75-00-3	Chloroethane	19.2		4.0	0.79
74-87-3	Chloromethane	19.3		3.0	0.61
75-01-4	Vinyl chloride	18.5		1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	94		79-120
1868-53-7	Dibromofluoromethane (Surr)	109		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 02:51:30 ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-005
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:15:22 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 03:34:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	2.984	2.984	0.000	0	47351	1000.0	1000.0	
* 122 Fluorobenzene	96	5.191	5.203	-0.012	96	57934	50.0	50.0	M
* 121 1,4-Dioxane-d8	96	5.892	5.892	0.000	81	4648	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.337	8.343	-0.006	90	57848	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.031	11.031	0.000	96	34739	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.551	4.545	0.006	93	13156	50.0	54.5	M
$ 6 Toluene-d8 (Surr)	98	6.788	6.794	-0.006	95	61352	50.0	47.2	M
$ 7 4-Bromofluorobenzene (Surr)	174	9.684	9.684	0.000	0	23452	50.0	52.5	
9 Dichlorodifluoromethane	85	1.125	1.124	0.001	97	32793	20.0	16.6	M
10 Chloromethane	50	1.265	1.265	0.000	99	101448	20.0	19.3	
11 Vinyl chloride	62	1.350	1.350	0.000	97	54569	20.0	18.5	M
12 Butadiene	54	1.387	1.387	0.000	94	60432	20.0	18.0	M
13 Bromomethane	94	1.618	1.612	0.006	91	19191	20.0	20.3	M
14 Chloroethane	64	1.710	1.698	0.012	92	26419	20.0	19.2	M
15 Dichlorofluoromethane	67	1.899	1.893	0.006	97	57284	20.0	22.7	M
16 Trichlorofluoromethane	101	1.935	1.929	0.006	98	45975	20.0	20.8	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

VV_I_GASES_00414 Amount Added: 8.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 07:22:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D

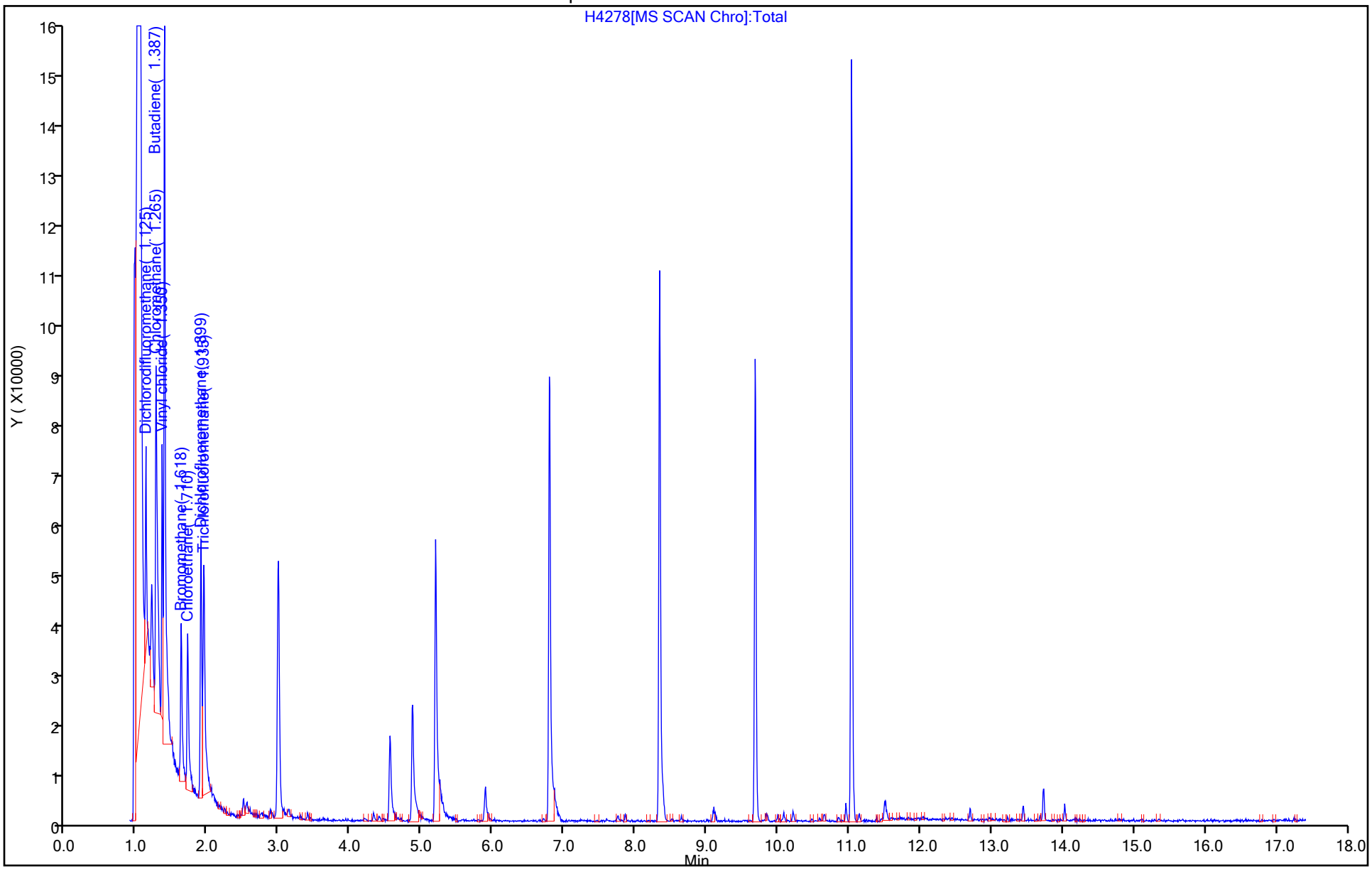
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes Operator ID:

Lims ID: lcs Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: HVOA8260NEW Limit Group: MSV 8260D ICAL



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 02:51:30 ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062726-005
Operator ID: Instrument ID: Hobbes

Method: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\HVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:15:22 Calib Date: 09-Nov-2020 15:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Hobbes\20201109-62519.b\H3757.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 19-Nov-2020 03:34:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.5	108.99
$ 6 Toluene-d8 (Surr)	50.0	47.2	94.38
$ 7 4-Bromofluorobenzene (Surr)	50.0	52.5	104.92

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

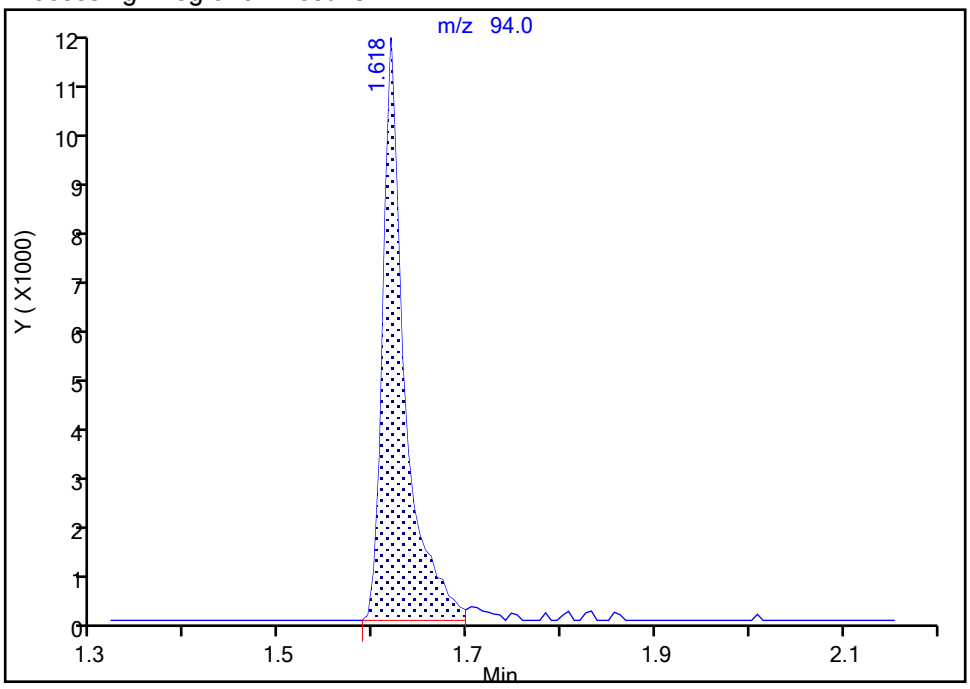
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

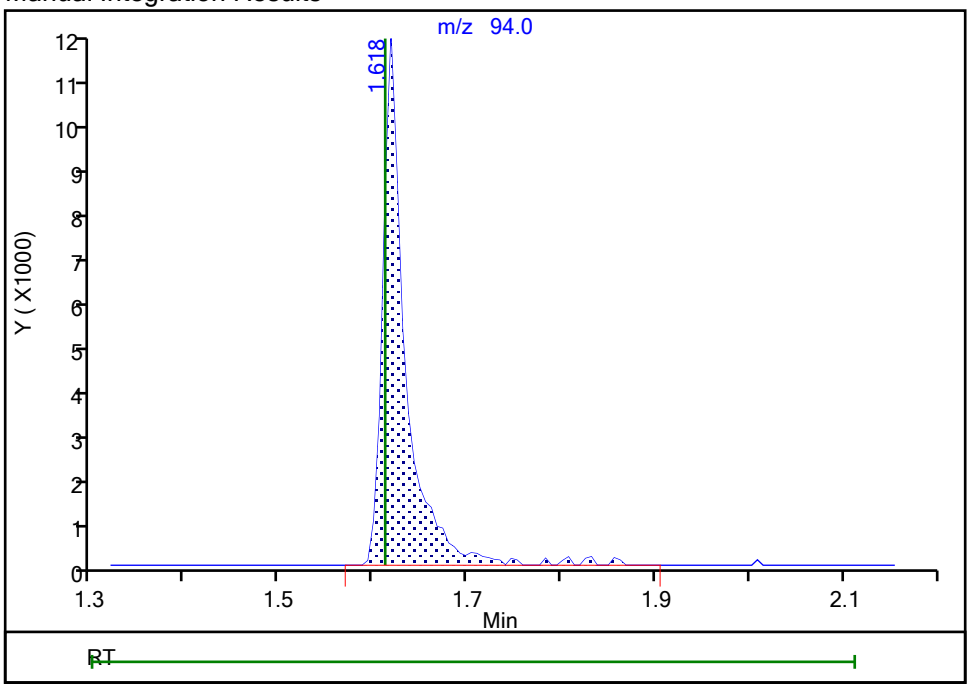
Processing Integration Results

RT: 1.62
Area: 18325
Amount: 19.431087
Amount Units: ug/l



Manual Integration Results

RT: 1.62
Area: 19191
Amount: 20.349358
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:26:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

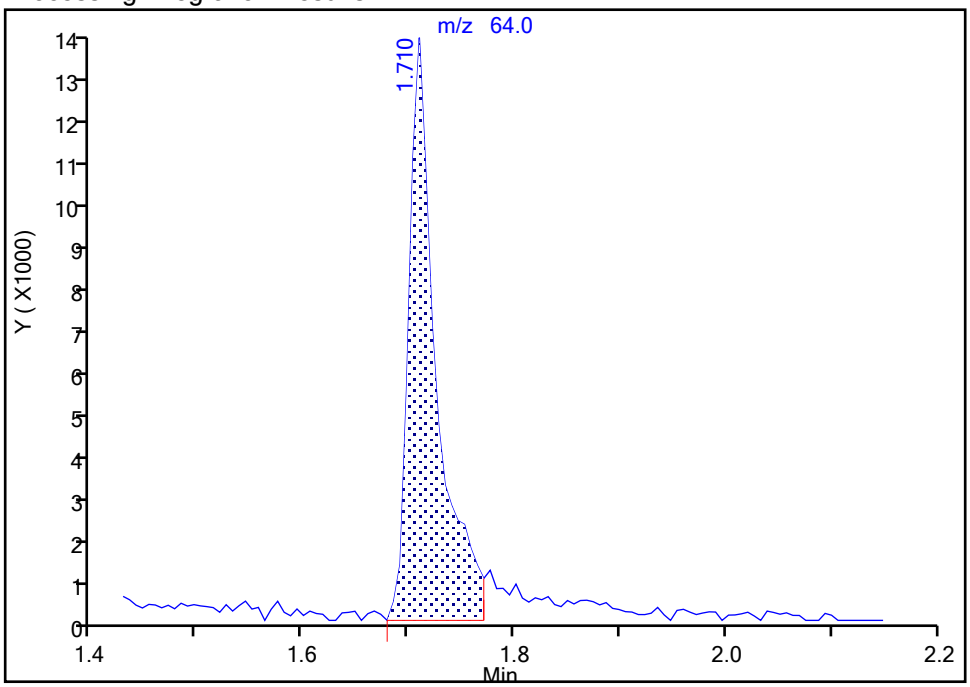
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

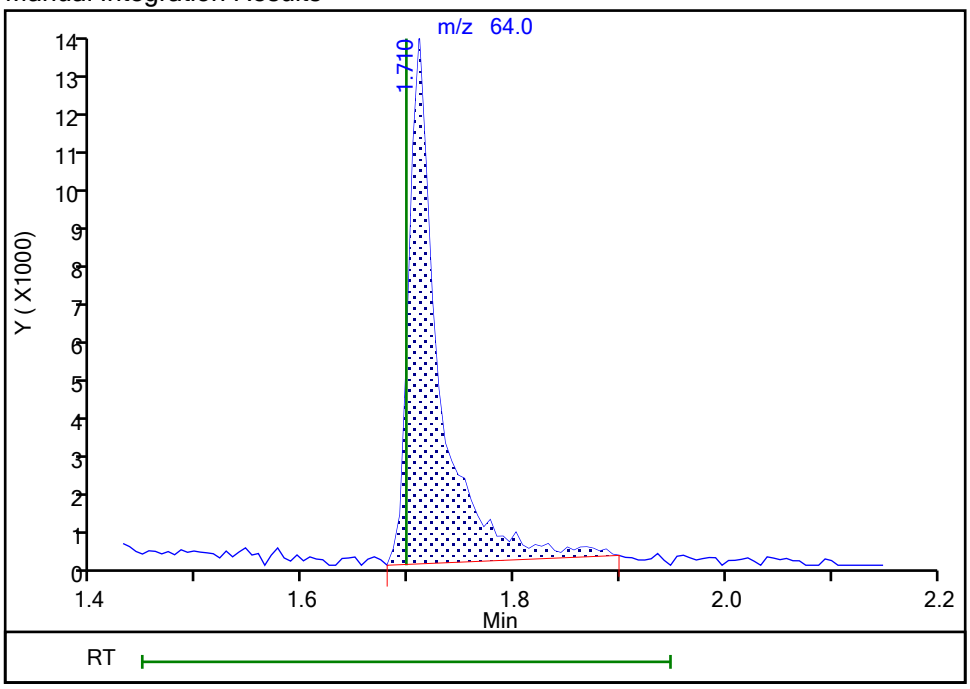
Processing Integration Results

RT: 1.71
Area: 24225
Amount: 17.641179
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 26419
Amount: 19.238898
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:26:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

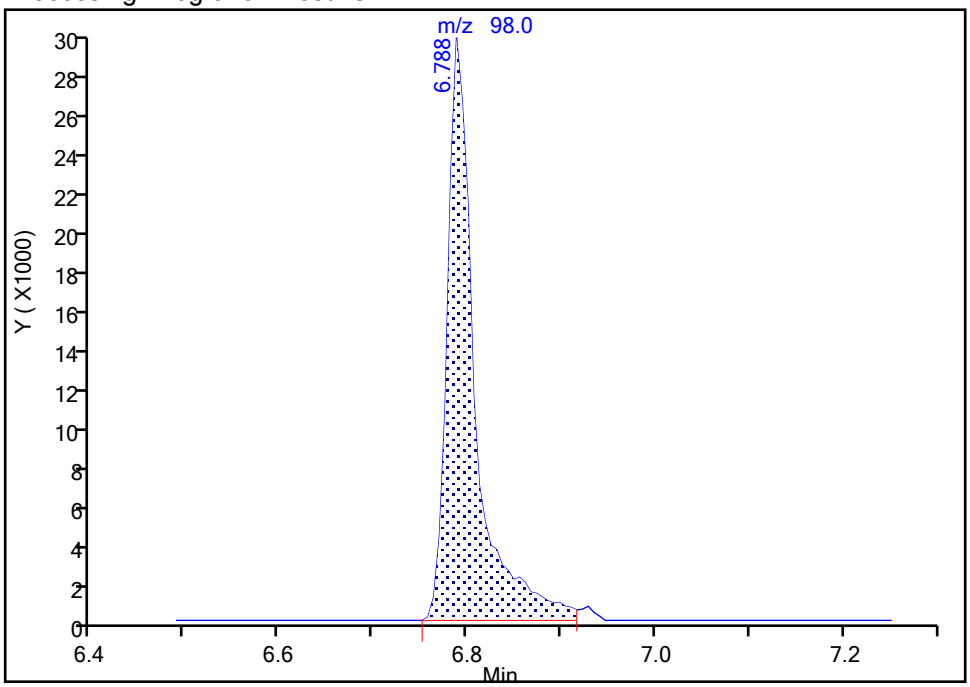
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 6 Toluene-d8 (Surr), CAS: 2037-26-5

Signal: 1

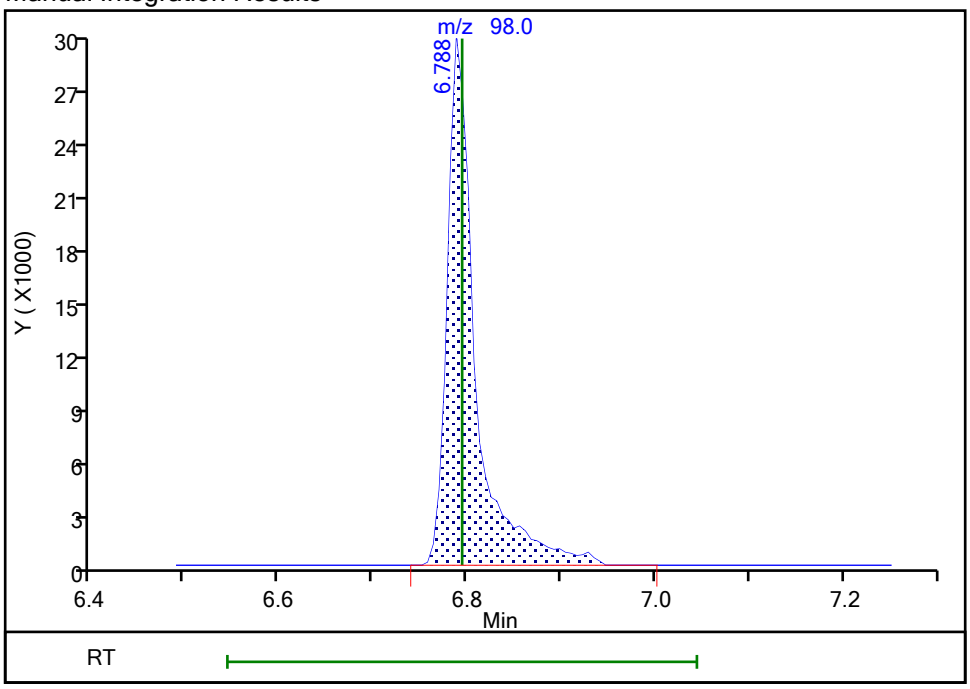
Processing Integration Results

RT: 6.79
Area: 60661
Amount: 46.660422
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 61352
Amount: 47.191939
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:27:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

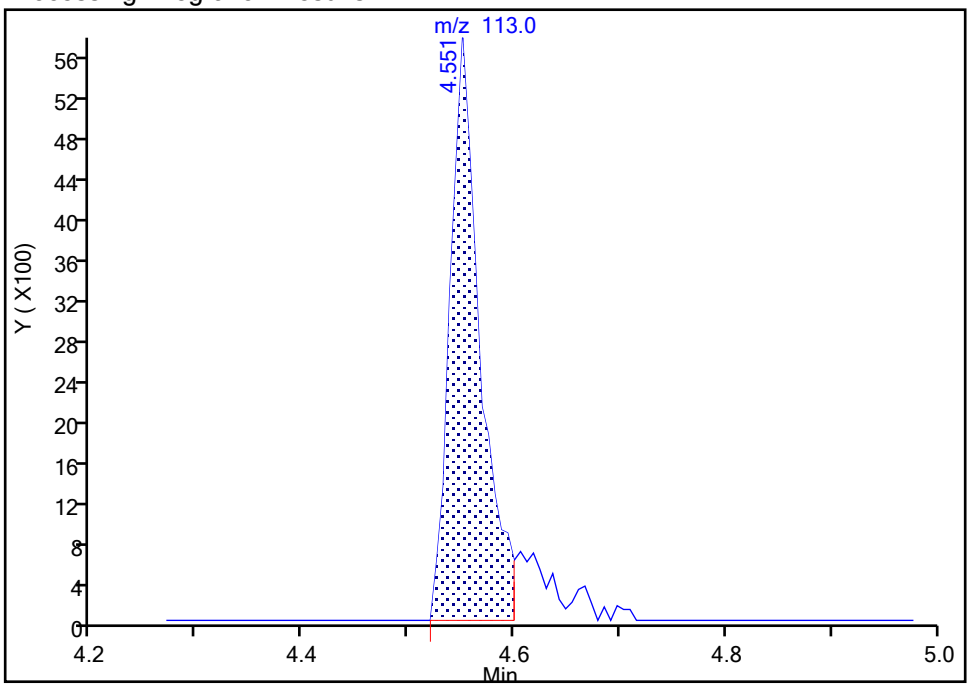
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

$ 5 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

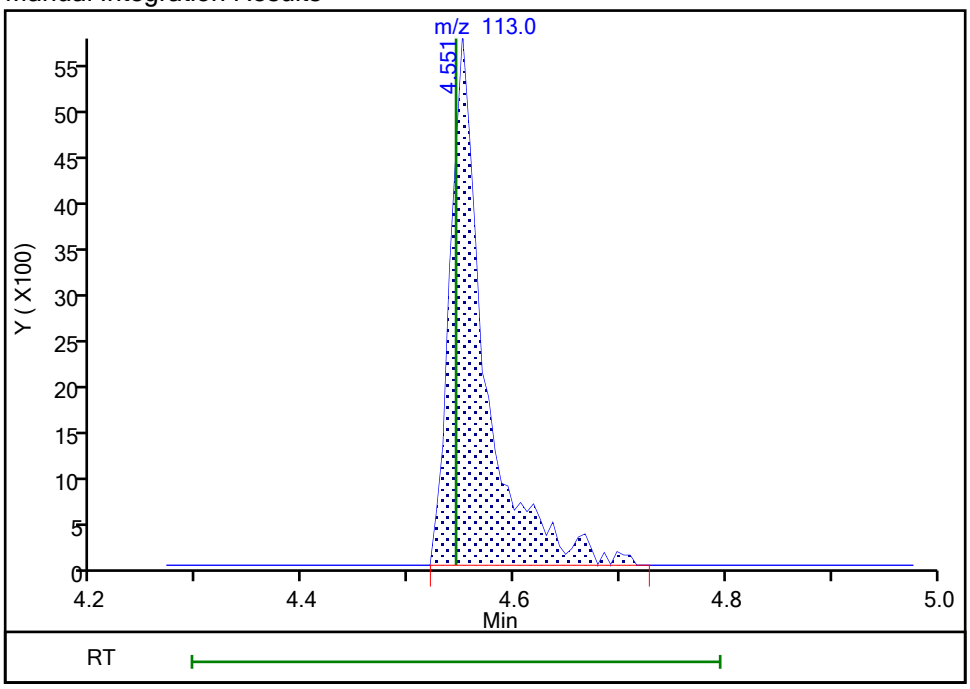
Processing Integration Results

RT: 4.55
Area: 11334
Amount: 46.948928
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 13156
Amount: 54.496215
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:27:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

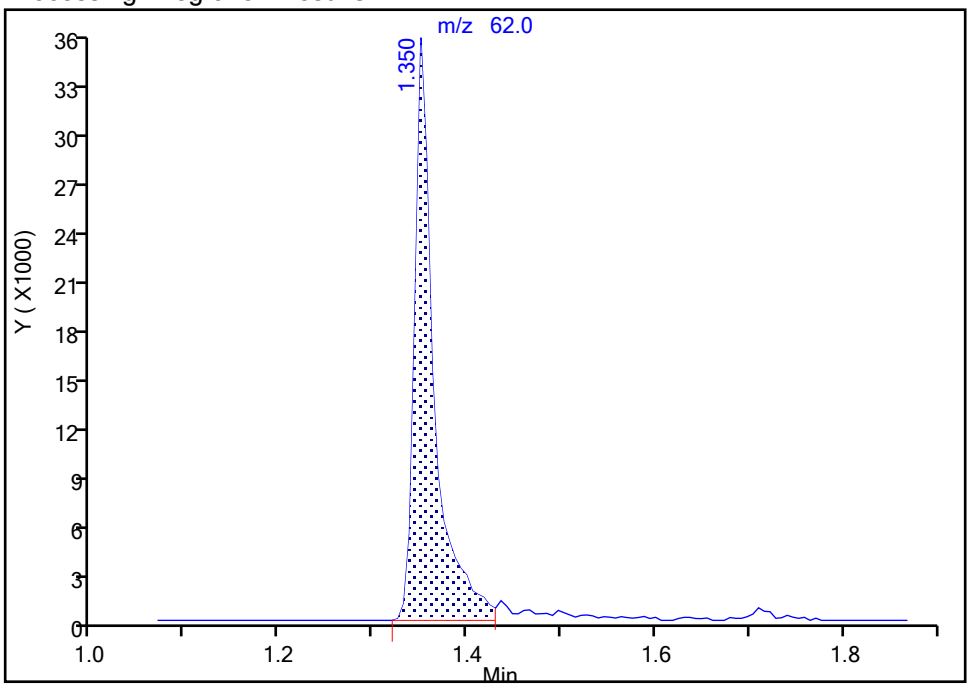
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

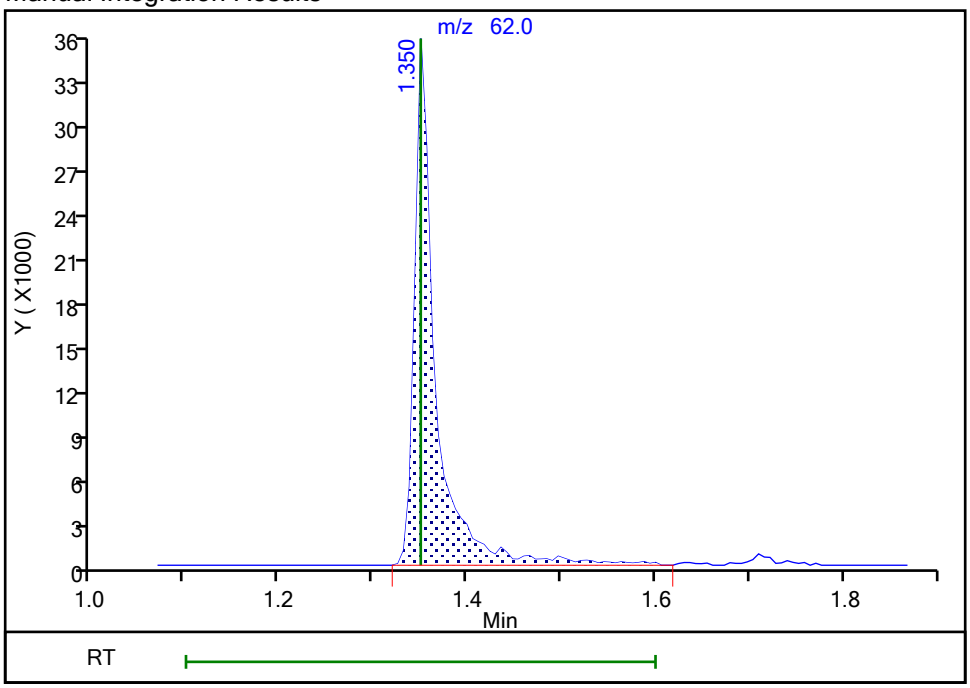
Processing Integration Results

RT: 1.35
Area: 50906
Amount: 17.258833
Amount Units: ug/l



Manual Integration Results

RT: 1.35
Area: 54569
Amount: 18.500712
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:27:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

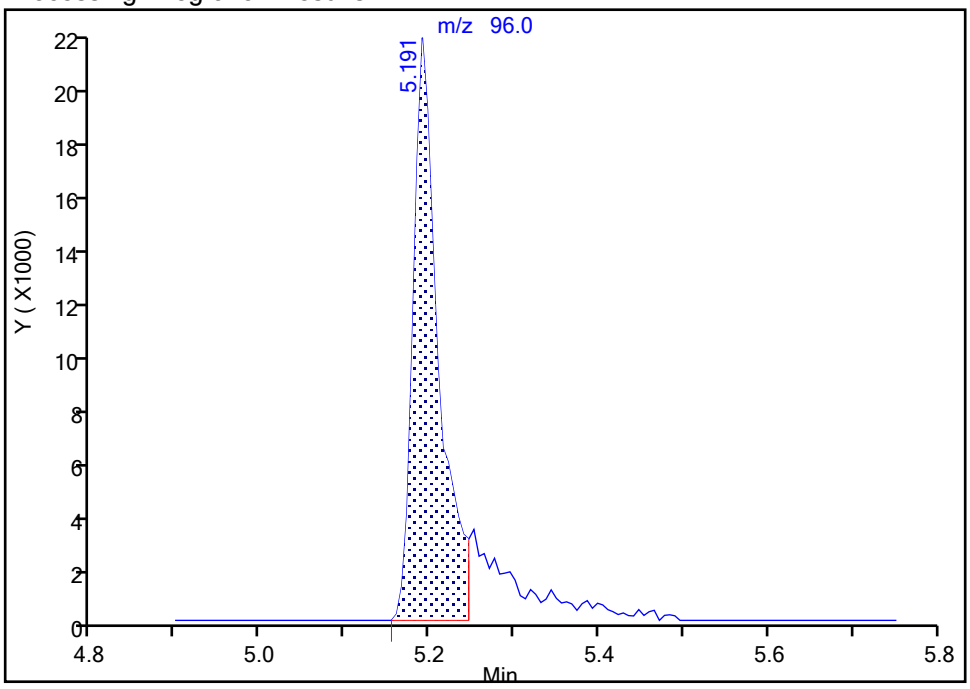
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 122 Fluorobenzene, CAS: 462-06-6

Signal: 1

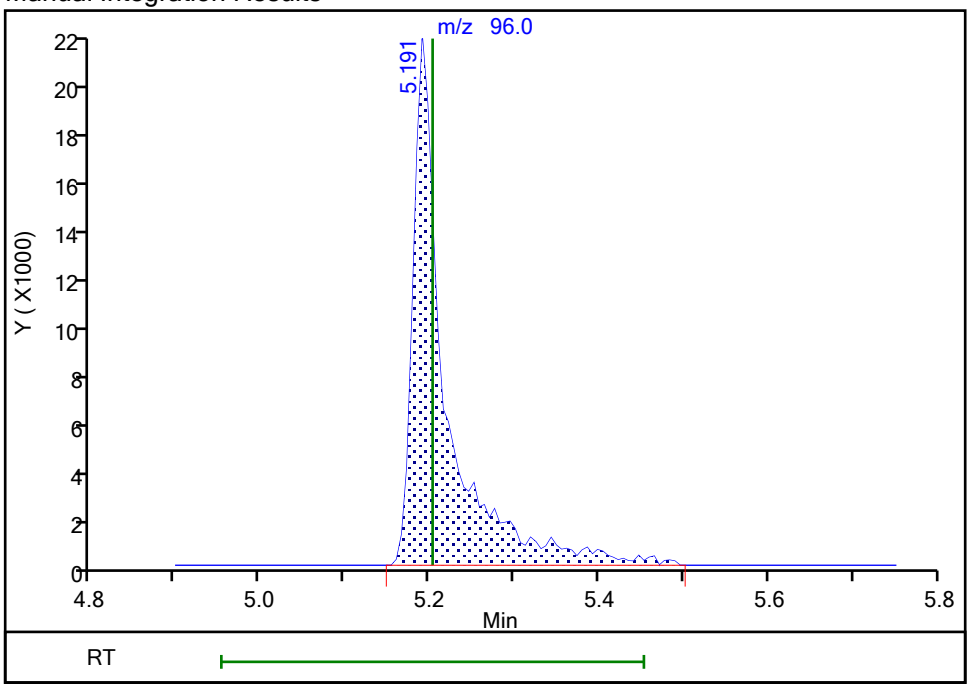
Processing Integration Results

RT: 5.19
Area: 45163
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 57934
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 03:33:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

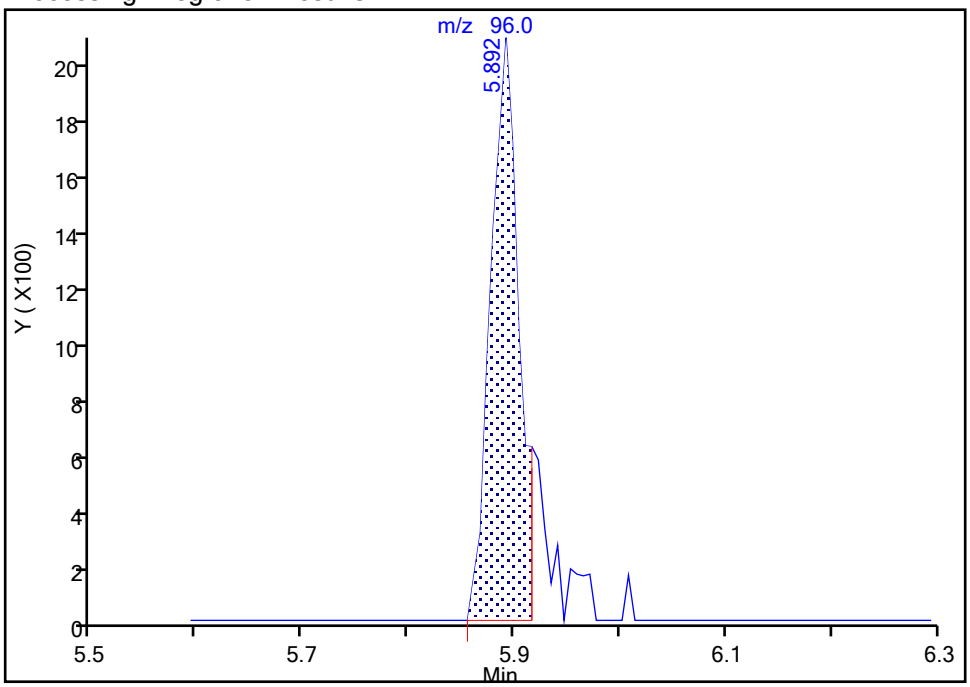
Data File: \\chromfs\CedarFalls\ChromData\Hobbes\20201118-62726.b\H4278.D
Injection Date: 19-Nov-2020 02:51:30 Instrument ID: Hobbes
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: HVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

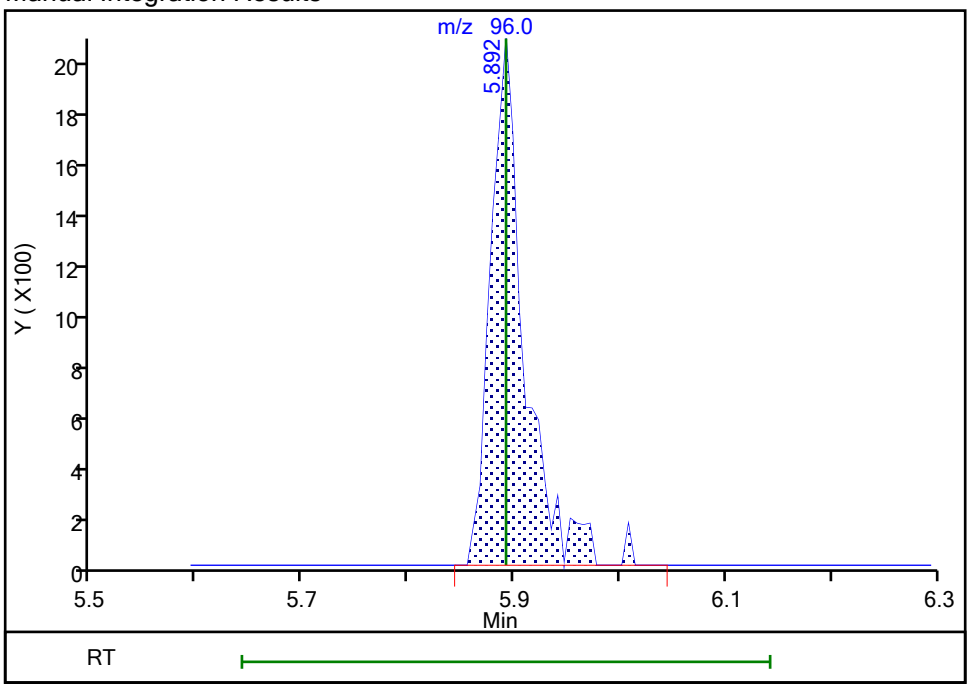
Processing Integration Results

RT: 5.89
Area: 3867
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 4648
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 11:27:49
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299697/6

Matrix: Water Lab File ID: c8260.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.8		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	19.1		0.50	0.13
79-00-5	1,1,2-Trichloroethane	19.5		0.50	0.22
75-34-3	1,1-Dichloroethane	21.3		1.0	0.22
75-35-4	1,1-Dichloroethene	20.4		2.0	0.56
107-06-2	1,2-Dichloroethane	23.8		1.0	0.39
78-87-5	1,2-Dichloropropane	20.3		1.0	0.27
591-78-6	2-Hexanone	42.3		10	2.0
67-64-1	Acetone	48.4		10	3.1
71-43-2	Benzene	20.0		0.50	0.22
75-25-2	Bromoform	14.9		5.0	0.78
75-15-0	Carbon disulfide	22.0		1.0	0.45
56-23-5	Carbon tetrachloride	19.7		2.0	0.65
108-90-7	Chlorobenzene	18.3		1.0	0.40
67-66-3	Chloroform	19.9		3.0	1.3
10061-01-5	cis-1,3-Dichloropropene	18.2		0.50	0.20
75-27-4	Dichlorobromomethane	19.4		1.0	0.39
100-41-4	Ethylbenzene	19.7		1.0	0.31
78-93-3	2-Butanone (MEK)	43.8		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	42.4		10	2.1
75-09-2	Methylene Chloride	18.7		1.0	0.78
100-42-5	Styrene	17.7		1.0	0.37
127-18-4	Tetrachloroethene	18.0		1.0	0.48
108-88-3	Toluene	18.0		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	20.5		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	15.8		0.50	0.22
79-01-6	Trichloroethene	20.5		1.0	0.43
1330-20-7	Xylenes, Total	37.1		3.0	0.40
124-48-1	Chlorodibromomethane	16.8		2.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Report Date: 19-Nov-2020 11:15:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8260.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 18:45:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:32:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.409	3.409	0.000	0	140	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	97	177723	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	39	6598	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	88	125759	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	77	59783	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	92	41809	50.0	52.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	168350	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.000	83	46800	50.0	47.9	
17 Ethanol	45	2.373	2.373	0.000	98	12449	800.0	805.5	a
18 Ethyl ether	59	2.458	2.458	0.000	97	30368	20.0	20.2	
19 Acrolein	56		2.562				ND	ND	
20 1,1-Dichloroethene	96	2.654	2.653	0.001	93	37270	20.0	20.4	
21 112TCTFE	101	2.672	2.672	0.000	95	40456	20.0	22.3	
22 Acetone	43	2.708	2.714	-0.006	98	23293	40.0	48.4	
23 Iodomethane	142	2.769	2.775	-0.006	99	18060	20.0	10.8	
24 Carbon disulfide	76	2.836	2.836	0.000	100	118929	20.0	22.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	12728	200.0	152.0	
118 Acetonitrile	40	2.958	2.958	0.000	98	25744	200.0	150.0	
25 3-Chloro-1-propene	76	3.001	3.007	-0.006	75	21268	20.0	18.0	
26 Methyl acetate	43	3.032	3.037	-0.005	99	54771	40.0	43.6	
27 Methylene Chloride	84	3.105	3.111	-0.006	97	40416	20.0	18.7	
35 2-Methyl-2-propanol	59	3.263	3.269	-0.006	94	19905	200.0	167.9	
30 Acrylonitrile	53	3.342	3.348	-0.006	98	139943	200.0	218.0	
28 trans-1,2-Dichloroethene	96	3.385	3.385	0.000	95	42799	20.0	20.5	
29 Methyl tert-butyl ether	73	3.397	3.397	0.000	98	100640	20.0	20.8	
31 Hexane	57	3.696	3.702	-0.006	93	61603	20.0	21.8	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	96	83361	20.0	21.3	
33 Vinyl acetate	86	3.848	3.848	0.000	97	13156	40.0	34.0	
34 2-Chloro-1,3-butadiene	53	3.873	3.873	0.000	95	93479	20.0	24.7	
36 Isopropyl ether	87	3.903	3.909	-0.006	95	37959	20.0	19.9	
37 Tert-butyl ethyl ether	59	4.239	4.238	0.001	97	124264	20.0	20.3	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	81	48543	20.0	15.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.324	4.330	-0.006	87	47648	20.0	20.0	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	32624	40.0	43.8	
41 Propionitrile	54	4.391	4.391	0.000	98	52483	200.0	205.6	
104 Ethyl acetate	61	4.421	4.421	0.000	100	11637	40.0	39.8	
43 Methacrylonitrile	67	4.537	4.543	-0.006	95	154261	200.0	203.7	
42 Chlorobromomethane	128	4.543	4.549	-0.006	41	19271	20.0	19.3	
44 Tetrahydrofuran	71	4.598	4.604	-0.006	94	6001	40.0	33.9	
45 Chloroform	83	4.635	4.641	-0.006	96	81415	20.0	19.9	
46 1,1,1-Trichloroethane	97	4.799	4.805	-0.006	97	69861	20.0	20.8	
47 Cyclohexane	56	4.860	4.860	0.000	96	90954	20.0	22.7	
48 Carbon tetrachloride	117	4.964	4.964	0.000	96	57096	20.0	19.7	
49 1,1-Dichloropropene	75	4.970	4.976	-0.006	92	65901	20.0	21.0	
108 Isobutyl alcohol	43	5.116	5.122	-0.006	93	26815	500.0	423.6	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	95	69215	20.0	23.8	
50 Benzene	78	5.171	5.177	-0.006	98	183888	20.0	20.0	
116 n-Butanol	56	5.299	5.293	0.006	58	45577	500.0	510.6	
52 Tert-amyl methyl ether	73	5.312	5.311	0.001	84	96999	20.0	17.6	
53 n-Heptane	43	5.476	5.482	-0.006	96	59487	20.0	20.8	
54 Trichloroethene	95	5.805	5.805	0.000	97	48188	20.0	20.5	
117 Ethyl acrylate	55	5.933	5.933	0.000	99	45872	20.0	20.7	
114 Methylcyclohexane	83	6.007	6.012	-0.005	93	75272	20.0	19.5	
55 1,2-Dichloropropane	63	6.013	6.019	-0.006	85	45480	20.0	20.3	
56 Dibromomethane	93	6.122	6.122	0.000	93	23253	20.0	19.5	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	50591	40.0	39.6	
115 1,4-Dioxane	58	6.159	6.165	-0.006	32	5579	400.0	0	
58 Dichlorobromomethane	83	6.293	6.293	0.000	98	52605	20.0	19.4	
106 2-Nitropropane	43	6.525	6.525	0.000	98	13140	40.0	33.4	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	24463	20.0	19.7	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	58862	20.0	18.2	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.939	-0.006	100	72617	40.0	42.4	
62 Toluene	92	7.116	7.116	0.000	97	112327	20.0	18.0	
63 trans-1,3-Dichloropropene	75	7.342	7.341	0.001	97	48959	20.0	15.8	
64 Ethyl methacrylate	69	7.464	7.463	0.001	91	42476	20.0	17.4	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	94	29099	20.0	19.5	
66 Tetrachloroethene	166	7.689	7.689	0.000	93	46340	20.0	18.0	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	62624	20.0	19.6	
68 2-Hexanone	43	7.823	7.823	0.000	97	47392	40.0	42.3	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	33523	20.0	16.8	
109 n-Butyl acetate	43	7.976	7.975	0.001	97	56702	20.0	19.3	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	33569	20.0	18.3	
71 Chlorobenzene	112	8.616	8.616	0.000	89	115358	20.0	18.3	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	90	35688	20.0	17.5	
73 Ethylbenzene	91	8.750	8.756	-0.006	99	217543	20.0	19.7	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	81587	20.0	19.0	
75 o-Xylene	106	9.335	9.335	0.000	96	74072	20.0	18.1	
76 Styrene	104	9.347	9.347	0.000	91	120194	20.0	17.7	
77 Bromoform	173	9.530	9.530	0.000	93	16394	20.0	14.9	
78 Isopropylbenzene	105	9.762	9.762	0.000	96	204143	20.0	19.2	
79 Bromobenzene	156	10.085	10.085	0.000	99	43881	20.0	17.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	37908	20.0	19.1	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	92	12770	20.0	19.3	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	67	10236	20.0	18.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.244	10.243	0.001	99	240564	20.0	19.6	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	139461	20.0	19.4	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	164329	20.0	19.4	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	160627	20.0	18.9	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	136985	20.0	18.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.896	-0.006	98	159473	20.0	18.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	198931	20.0	19.0	
90 1,3-Dichlorobenzene	146	11.201	11.200	0.001	96	79988	20.0	17.4	
91 4-Isopropyltoluene	119	11.274	11.280	-0.006	94	161487	20.0	18.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	84275	20.0	17.8	
110 1,2,3-Trimethylbenzene	105	11.384	11.389	-0.005	100	152177	20.0	18.0	
113 Benzyl chloride	126	11.475	11.475	0.000	99	6077	20.0	7.89	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	77227	20.0	17.3	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	141912	20.0	18.1	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	73	5610	20.0	19.7	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	40771	20.0	14.9	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	31373	20.0	13.8	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	18933	20.0	17.1	
98 Naphthalene	128	13.981	13.980	0.001	98	65480	20.0	13.2	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	24565	20.0	13.5	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	40.5	
S 100 Xylenes, Total	1				0		40.0	37.1	
S 102 1,3-Dichloropropene, Total	1				0		40.0	33.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 11:15:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8260.D

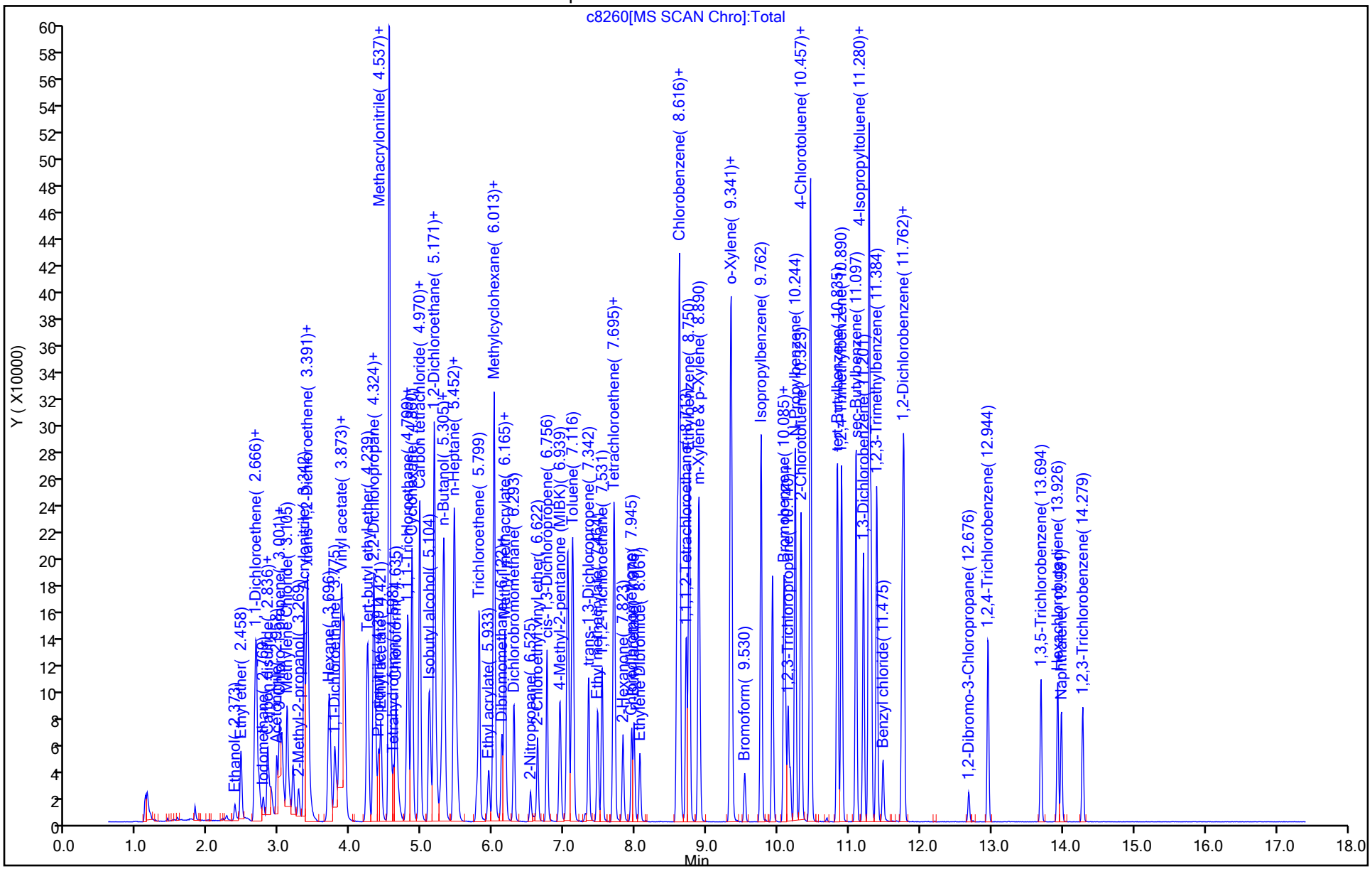
Injection Date: 18-Nov-2020 18:45:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: lcs Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8260.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 18:45:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:32:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.5	104.98
$ 6 Toluene-d8 (Surr)	50.0	52.2	104.43
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299697/7

Matrix: Water Lab File ID: c8261.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 19:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299697 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	3.82		2.0	0.82
74-87-3	Chloromethane	8.45		3.0	0.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Report Date: 19-Nov-2020 11:16:00 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8261.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 19:09:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:36:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.355	3.409	-0.055	0	256	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.452	0.000	98	172338	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	92	6003	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	124479	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	56685	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.787	0.000	91	40190	50.0	52.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	166119	50.0	52.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	90	44447	50.0	47.9	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	24717	10.0	7.01	
10 Chloromethane	50	1.513	1.526	-0.013	98	21960	10.0	8.45	M
11 Vinyl chloride	62	1.538	1.532	0.006	99	24576	10.0	7.74	
12 Butadiene	54	1.574	1.568	0.006	97	22119	10.0	6.88	M
13 Bromomethane	94	1.818	1.837	-0.019	93	3058	10.0	3.82	M
14 Chloroethane	64	1.922	1.916	0.006	98	13908	10.0	7.57	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	97	34317	10.0	7.81	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	97	33319	10.0	7.93	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

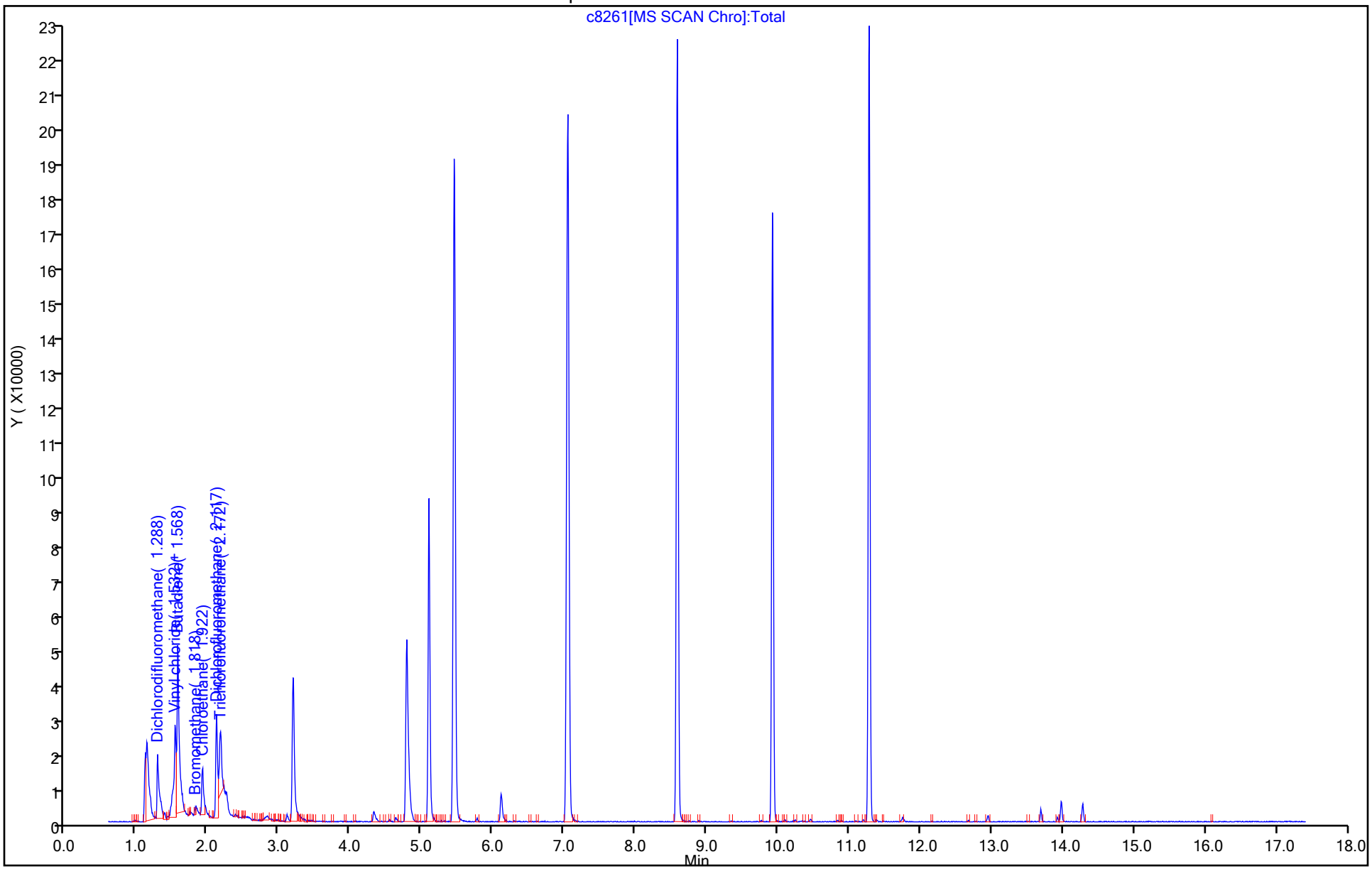
VV_I_GASES_00414 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 19-Nov-2020 11:16:00 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8261.D

Injection Date:	18-Nov-2020 19:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8261.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2020 19:09:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062728-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 11:15:43 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 19-Nov-2020 01:36:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.0	104.07
$ 6 Toluene-d8 (Surr)	50.0	52.1	104.10
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.86

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

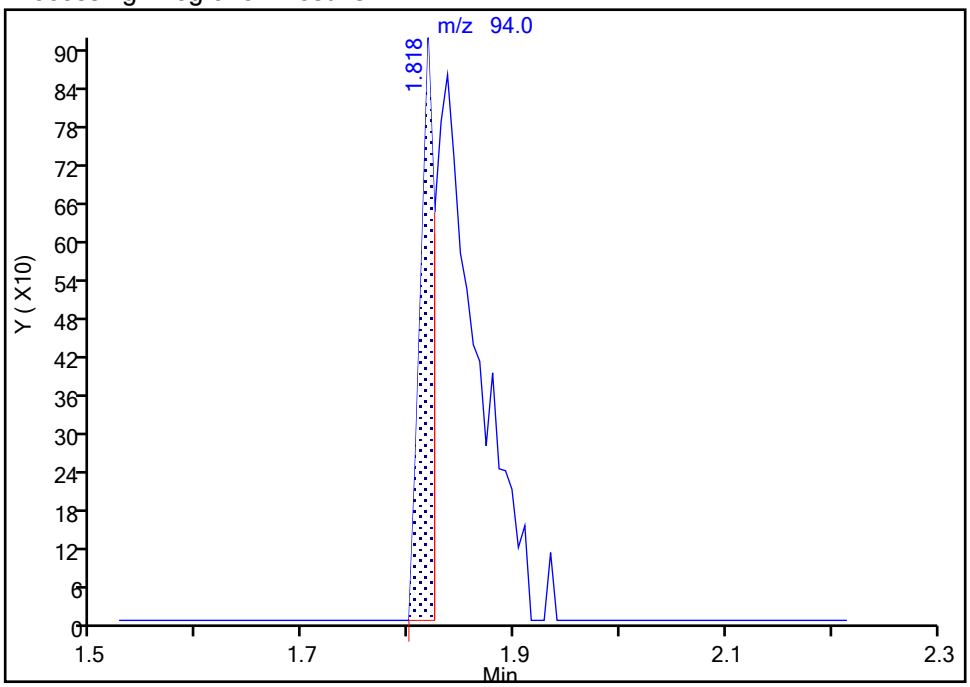
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8261.D
Injection Date: 18-Nov-2020 19:09:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

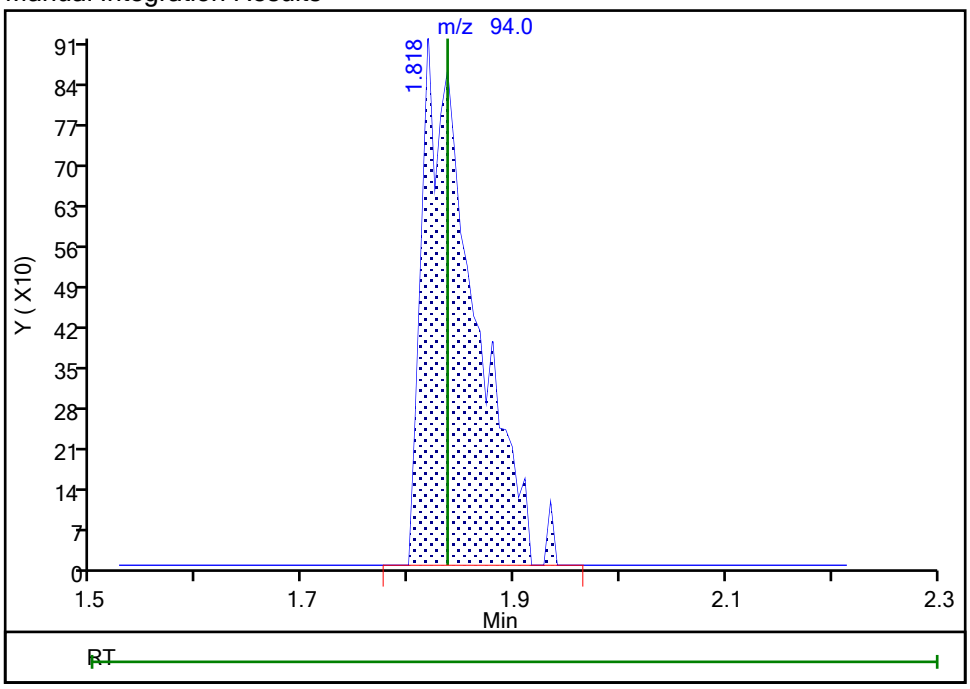
Processing Integration Results

RT: 1.82
Area: 868
Amount: 1.409418
Amount Units: ug/l



Manual Integration Results

RT: 1.82
Area: 3058
Amount: 3.818913
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:32:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

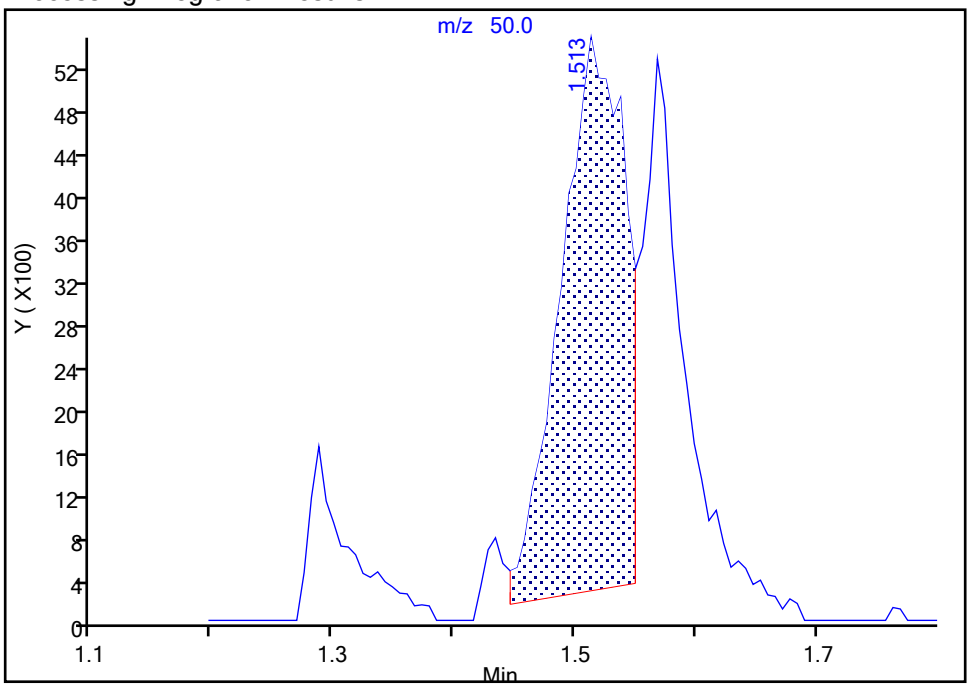
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8261.D
Injection Date: 18-Nov-2020 19:09:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

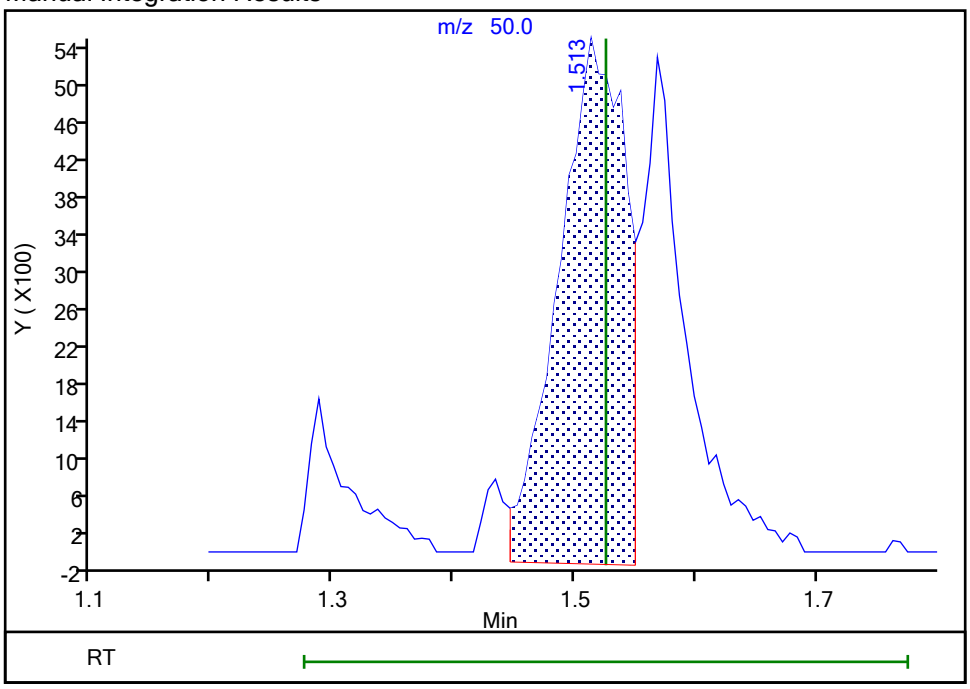
Processing Integration Results

RT: 1.51
Area: 19498
Amount: 7.506052
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 21960
Amount: 8.453836
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:32:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

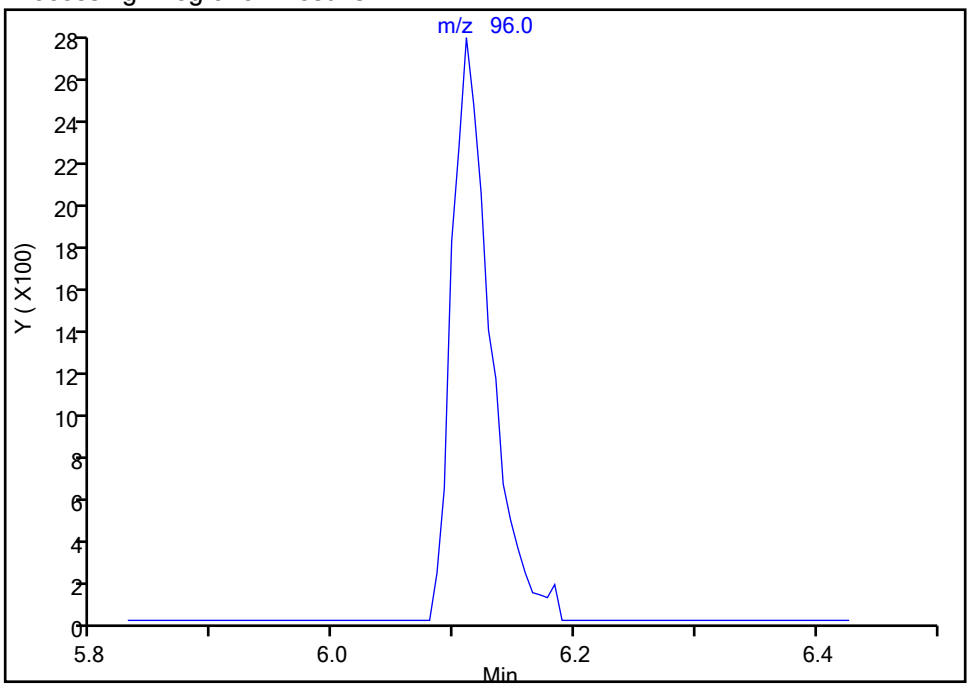
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62728.b\c8261.D
Injection Date: 18-Nov-2020 19:09:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

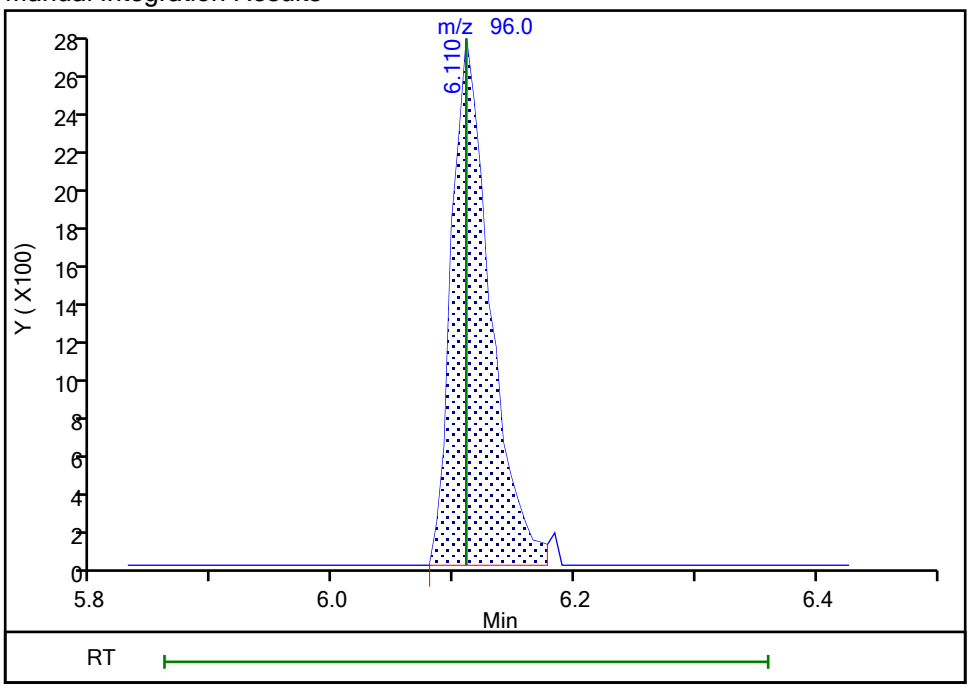
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6003
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 10:32:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299701/6

Matrix: Water Lab File ID: c8291.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	19.6		1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8291.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 06:13:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:23:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.361	3.373	-0.012	0	242	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	193416	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	47	6655	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	139456	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	80	63862	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	45599	50.0	52.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	184550	50.0	51.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.001	84	51661	50.0	49.4	
17 Ethanol	45	2.379	2.373	0.006	99	11725	800.0	697.1	a
18 Ethyl ether	59	2.465	2.471	-0.005	96	33095	20.0	20.2	
19 Acrolein	56	2.556	2.562	-0.006	96	26760	95.3	107.6	
20 1,1-Dichloroethene	96	2.660	2.659	0.001	94	40850	20.0	20.5	
21 112TCTFE	101	2.678	2.684	-0.006	95	48689	20.0	24.7	
22 Acetone	43	2.715	2.714	0.001	98	25589	40.0	48.8	
23 Iodomethane	142	2.776	2.775	0.001	98	26355	20.0	14.5	M
24 Carbon disulfide	76	2.836	2.842	-0.006	99	132332	20.0	22.5	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	16581	200.0	181.9	M
118 Acetonitrile	40	2.958	2.964	-0.006	98	33196	200.0	177.7	M
25 3-Chloro-1-propene	76	3.007	3.001	0.006	80	21351	20.0	16.6	M
26 Methyl acetate	43	3.032	3.037	-0.005	99	55655	40.0	40.7	
27 Methylene Chloride	84	3.111	3.111	0.000	96	44059	20.0	18.7	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	19382	200.0	150.3	
30 Acrylonitrile	53	3.342	3.348	-0.006	98	144312	200.0	206.6	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	46719	20.0	20.6	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	108874	20.0	20.7	
31 Hexane	57	3.708	3.702	0.006	95	77391	20.0	25.1	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	89158	20.0	20.9	
33 Vinyl acetate	86	3.848	3.848	0.000	98	15893	40.0	37.7	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	96	102429	20.0	24.9	
36 Isopropyl ether	87	3.909	3.909	0.000	95	41122	20.0	19.8	
37 Tert-butyl ethyl ether	59	4.239	4.238	0.001	97	131939	20.0	19.8	
38 2,2-Dichloropropane	77	4.324	4.324	0.000	76	61109	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	90	50915	20.0	19.6	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	35502	40.0	43.8	
41 Propionitrile	54	4.391	4.397	-0.006	99	52864	200.0	190.3	
104 Ethyl acetate	61	4.422	4.427	-0.005	99	11453	40.0	36.0	
43 Methacrylonitrile	67	4.543	4.543	0.000	95	157564	200.0	191.2	
42 Chlorobromomethane	128	4.543	4.549	-0.006	41	20726	20.0	19.1	
44 Tetrahydrofuran	71	4.604	4.604	0.000	91	5834	40.0	30.3	
45 Chloroform	83	4.641	4.641	0.000	98	84056	20.0	18.9	
46 1,1,1-Trichloroethane	97	4.806	4.805	0.001	97	77489	20.0	21.2	
47 Cyclohexane	56	4.860	4.866	-0.006	96	101911	20.0	23.4	
48 Carbon tetrachloride	117	4.964	4.970	-0.006	95	63156	20.0	20.0	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	91	71592	20.0	21.0	
108 Isobutyl alcohol	43	5.123	5.122	0.001	91	25873	500.0	375.5	
50 Benzene	78	5.177	5.177	0.000	98	196267	20.0	19.6	
51 1,2-Dichloroethane	62	5.171	5.177	-0.006	95	74354	20.0	23.5	
116 n-Butanol	56	5.299	5.299	0.000	62	53817	500.0	553.9	
52 Tert-amyl methyl ether	73	5.312	5.311	0.001	92	101355	20.0	16.9	
53 n-Heptane	43	5.476	5.482	-0.006	95	73166	20.0	23.6	
54 Trichloroethene	95	5.805	5.805	0.000	96	52121	20.0	20.4	
117 Ethyl acrylate	55	5.940	5.939	0.001	99	46314	20.0	19.2	
114 Methylcyclohexane	83	6.013	6.013	0.001	96	82452	20.0	19.7	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	89	48475	20.0	19.9	
56 Dibromomethane	93	6.122	6.122	0.000	93	25077	20.0	19.3	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	5195	400.0	0	
57 Methyl methacrylate	69	6.165	6.171	-0.006	92	51034	40.0	36.7	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	57063	20.0	19.4	
106 2-Nitropropane	43	6.525	6.525	0.000	100	13651	40.0	31.9	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	93	25564	20.0	18.9	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	66123	20.0	18.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	71255	40.0	38.2	
62 Toluene	92	7.116	7.116	0.000	97	123080	20.0	18.1	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	54595	20.0	16.1	
64 Ethyl methacrylate	69	7.470	7.463	0.007	91	44294	20.0	16.7	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	95	30159	20.0	18.6	
66 Tetrachloroethene	166	7.689	7.695	-0.006	92	50362	20.0	18.0	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	65224	20.0	18.8	
68 2-Hexanone	43	7.823	7.823	0.000	98	45780	40.0	37.6	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	35480	20.0	16.4	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	57872	20.0	18.1	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	35151	20.0	17.6	
71 Chlorobenzene	112	8.616	8.616	0.000	89	127486	20.0	18.2	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	90	38379	20.0	17.0	
73 Ethylbenzene	91	8.756	8.756	0.000	99	237247	20.0	19.4	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	86671	20.0	18.2	
75 o-Xylene	106	9.335	9.335	0.000	98	78713	20.0	17.4	
76 Styrene	104	9.347	9.347	0.000	95	128587	20.0	17.1	
77 Bromoform	173	9.530	9.530	0.000	93	17692	20.0	14.5	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	218705	20.0	18.5	
79 Bromobenzene	156	10.085	10.085	0.000	99	48680	20.0	17.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	38601	20.0	17.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	89	12908	20.0	17.6	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	72	10845	20.0	17.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.244	10.243	0.001	99	257758	20.0	19.0	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	150756	20.0	18.9	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	176007	20.0	18.8	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	95	171440	20.0	18.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	146142	20.0	17.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.896	-0.006	98	170527	20.0	17.6	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	211269	20.0	18.2	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.001	97	88771	20.0	17.4	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	94	174406	20.0	18.3	
92 1,4-Dichlorobenzene	146	11.304	11.310	-0.006	93	89531	20.0	17.7	
110 1,2,3-Trimethylbenzene	105	11.384	11.390	-0.006	100	165992	20.0	18.4	
113 Benzyl chloride	126	11.475	11.475	0.000	99	7833	20.0	9.52	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	83043	20.0	17.4	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	153985	20.0	18.4	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	75	5300	20.0	17.4	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	44556	20.0	15.3	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	33540	20.0	13.8	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	21331	20.0	18.0	
98 Naphthalene	128	13.975	13.980	-0.005	98	68731	20.0	12.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	26252	20.0	13.5	
132 t-Amyl alcohol	1		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	40.2	
S 100 Xylenes, Total	1				0		40.0	35.5	
S 102 1,3-Dichloropropene, Total	1				0		40.0	34.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 12:14:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8291.D

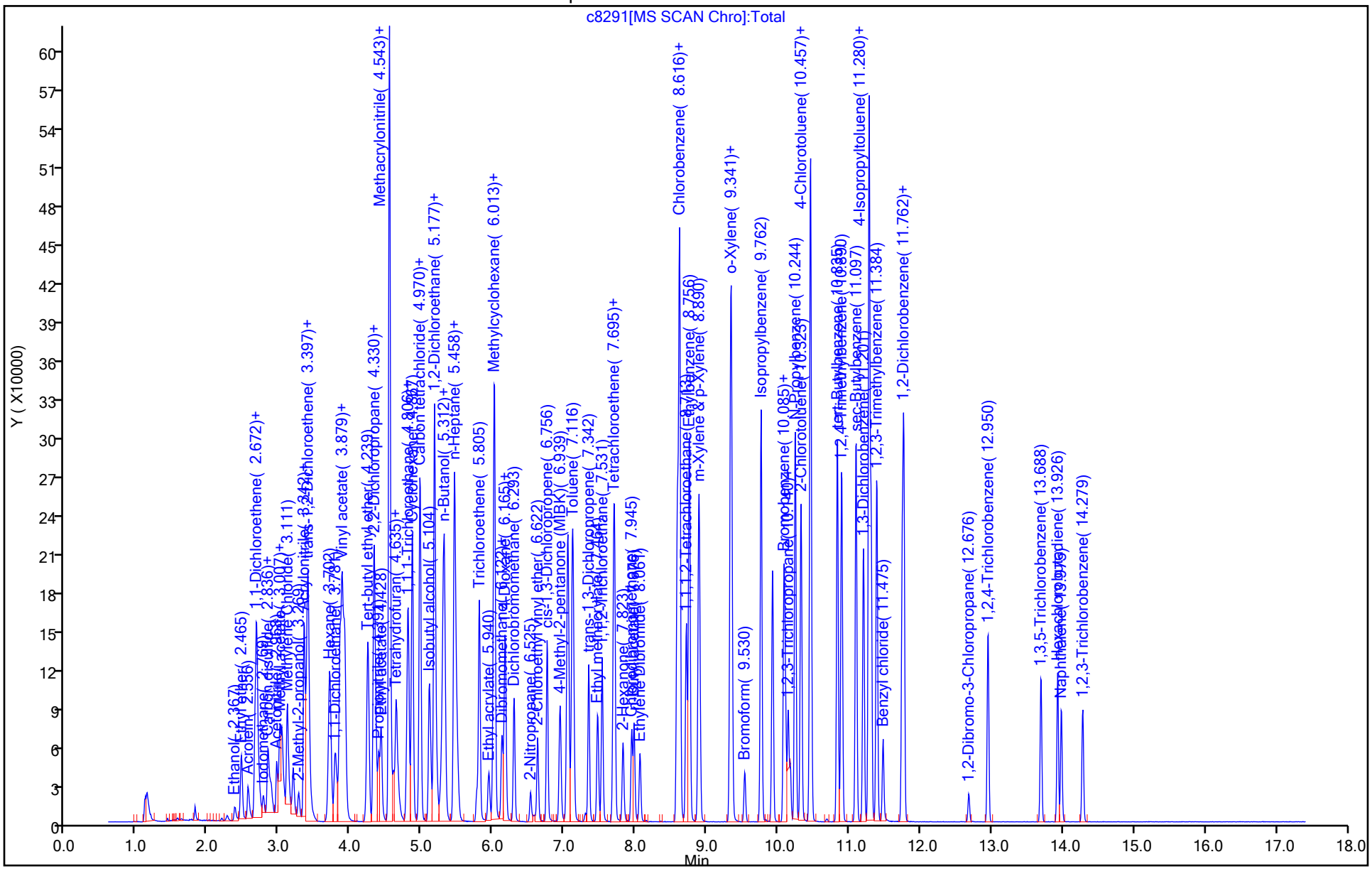
Injection Date: 19-Nov-2020 06:13:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: lcs Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8291.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 06:13:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 11:23:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.6	105.21
$ 6 Toluene-d8 (Surr)	50.0	51.6	103.23
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.4	98.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299701/7

Matrix: Water Lab File ID: c8292.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 06:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8292.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 06:38:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:28:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.367	3.373	-0.006	0	309	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	188999	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	95	6179	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	135658	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	97	61929	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	43020	50.0	50.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	180476	50.0	51.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	88	47564	50.0	46.9	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	22178	10.0	5.74	
10 Chloromethane	50	1.520	1.526	-0.006	97	20221	10.0	7.10	
11 Vinyl chloride	62	1.538	1.532	0.006	98	24546	10.0	7.05	
12 Butadiene	54	1.574	1.568	0.006	95	22697	10.0	6.44	
13 Bromomethane	94	1.824	1.837	-0.013	93	3188	10.0	3.65	M
14 Chloroethane	64	1.922	1.916	0.006	99	14729	10.0	7.31	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	97	35676	10.0	7.40	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	97	34935	10.0	7.58	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

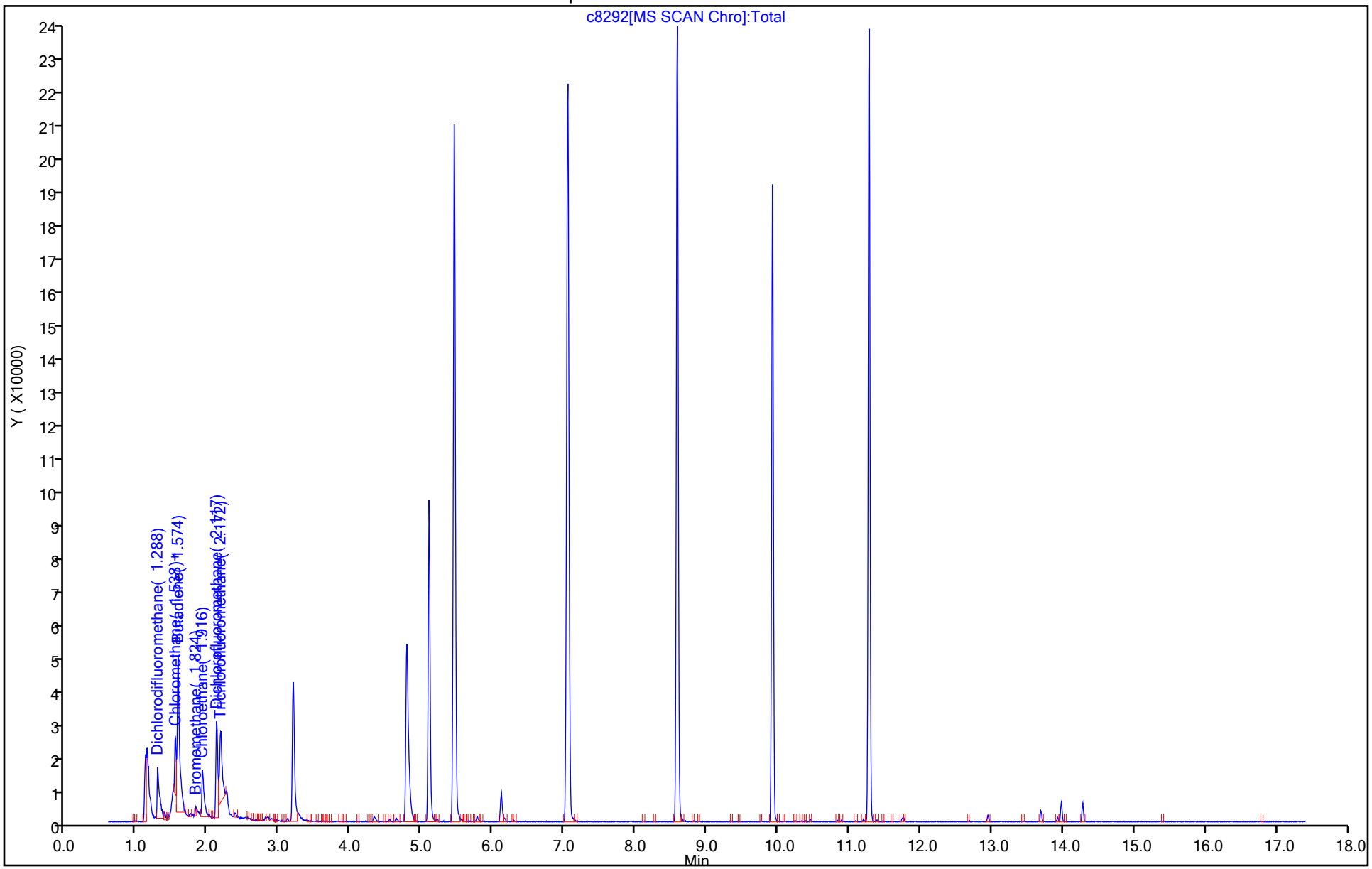
VV_I_GASES_00414 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 12:14:32 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8292.D

Injection Date:	19-Nov-2020 06:38:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8292.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 06:38:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062729-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 19-Nov-2020 10:28:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	50.8	101.57
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.78
$ 7 4-Bromofluorobenzene (Surr)	50.0	46.9	93.89

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

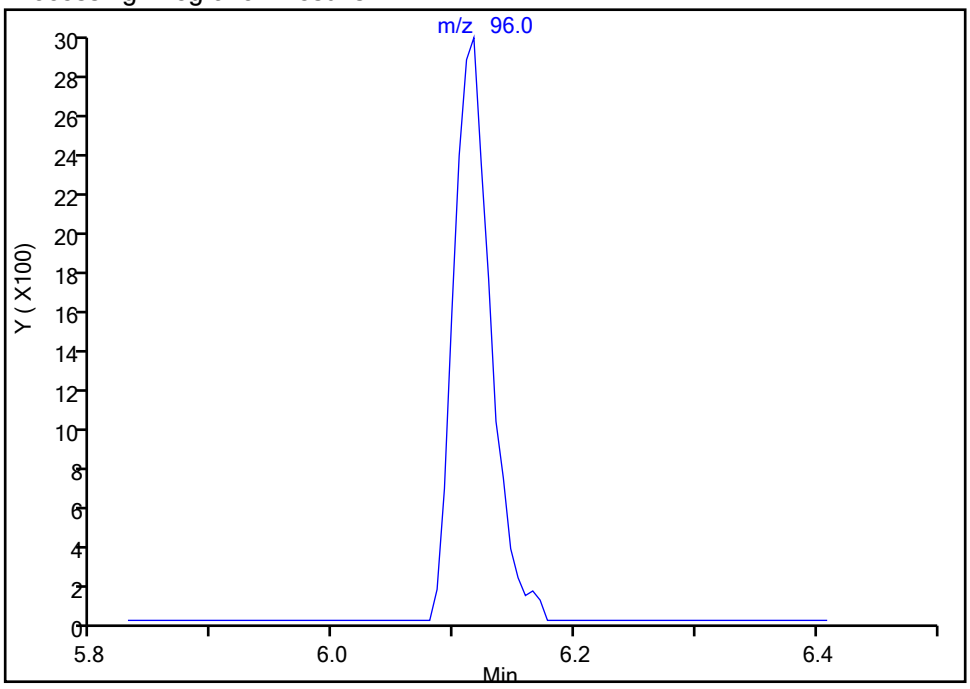
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8292.D
Injection Date: 19-Nov-2020 06:38:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

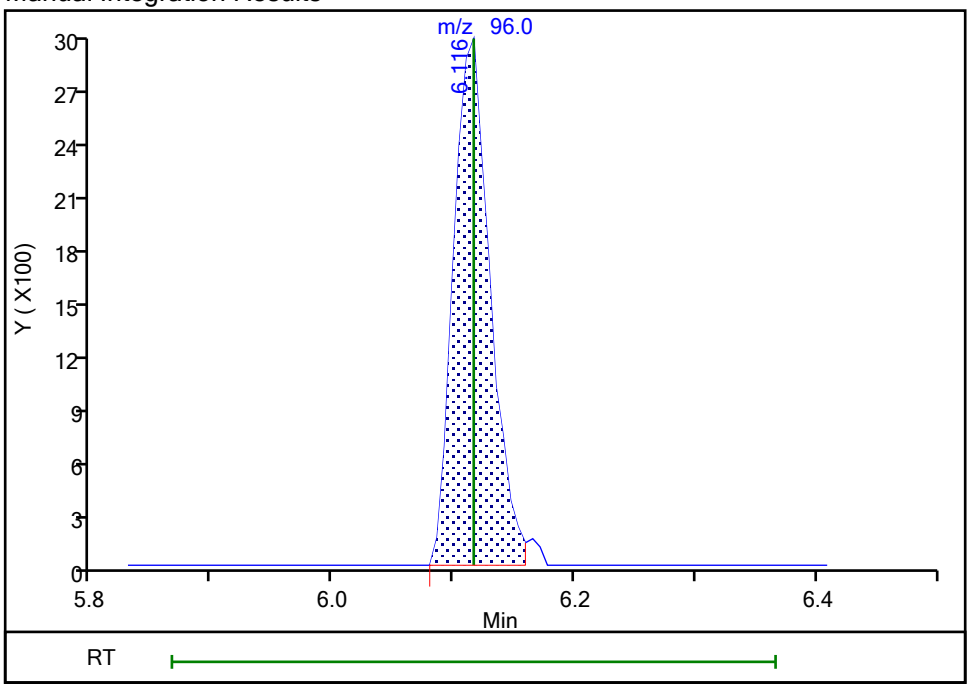
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 6179
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 11:23:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299826/6

Matrix: Water Lab File ID: c8321.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 18:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.4		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	18.0		0.50	0.13
79-00-5	1,1,2-Trichloroethane	18.9		0.50	0.22
75-34-3	1,1-Dichloroethane	21.1		1.0	0.22
75-35-4	1,1-Dichloroethene	20.1		2.0	0.56
107-06-2	1,2-Dichloroethane	24.0		1.0	0.39
78-87-5	1,2-Dichloropropane	20.2		1.0	0.27
591-78-6	2-Hexanone	37.8		10	2.0
67-64-1	Acetone	46.0		10	3.1
71-43-2	Benzene	19.7		0.50	0.22
75-25-2	Bromoform	14.2		5.0	0.78
75-15-0	Carbon disulfide	22.0		1.0	0.45
56-23-5	Carbon tetrachloride	20.1		2.0	0.65
108-90-7	Chlorobenzene	17.8		1.0	0.40
67-66-3	Chloroform	19.1		3.0	1.3
156-59-2	cis-1,2-Dichloroethene	19.5		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	18.1		0.50	0.20
75-27-4	Dichlorobromomethane	19.5		1.0	0.39
100-41-4	Ethylbenzene	18.8		1.0	0.31
78-93-3	2-Butanone (MEK)	41.4		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	38.6		10	2.1
75-09-2	Methylene Chloride	18.7		1.0	0.78
100-42-5	Styrene	16.9		1.0	0.37
127-18-4	Tetrachloroethene	17.5		1.0	0.48
108-88-3	Toluene	17.9		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	20.7		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	15.6		0.50	0.22
79-01-6	Trichloroethene	20.4		1.0	0.43
1330-20-7	Xylenes, Total	35.7		3.0	0.40
124-48-1	Chlorodibromomethane	16.3		2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299826/6

Matrix: Water Lab File ID: c8321.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 18:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	107		79-120

Report Date: 20-Nov-2020 07:09:55 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8321.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 18:31:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 03:00:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.397	3.391	0.006	0	44	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	186428	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	36	6409	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	136393	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	78	64371	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	91	44817	50.0	53.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	180835	50.0	51.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	50681	50.0	48.1	
17 Ethanol	45	2.373	2.373	0.000	98	11662	800.0	719.3	a
18 Ethyl ether	59	2.465	2.464	0.000	97	33166	20.0	21.0	
19 Acrolein	56	2.556	2.562	-0.006	98	23612	95.3	98.5	
20 1,1-Dichloroethene	96	2.654	2.659	-0.005	96	38516	20.0	20.1	
21 112TCTFE	101	2.678	2.684	-0.006	95	41117	20.0	21.6	
22 Acetone	43	2.714	2.714	0.000	97	23312	40.0	46.0	M
23 Iodomethane	142	2.775	2.775	0.000	98	21215	20.0	12.1	M
24 Carbon disulfide	76	2.836	2.842	-0.006	99	124789	20.0	22.0	
105 Isopropyl alcohol	45	2.891	2.885	0.006	94	16006	200.0	182.2	M
118 Acetonitrile	40	2.964	2.964	0.000	95	35596	200.0	197.7	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	79	21485	20.0	17.3	
26 Methyl acetate	43	3.038	3.037	0.001	99	54317	40.0	41.3	
27 Methylene Chloride	84	3.111	3.111	0.000	97	42564	20.0	18.7	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	92	18099	200.0	145.6	
30 Acrylonitrile	53	3.348	3.348	0.000	99	140641	200.0	208.9	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	95	45177	20.0	20.7	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	103944	20.0	20.5	
31 Hexane	57	3.708	3.708	0.000	94	58282	20.0	19.6	
32 1,1-Dichloroethane	63	3.781	3.787	-0.006	97	86704	20.0	21.1	
33 Vinyl acetate	86	3.848	3.848	0.000	98	15071	40.0	37.1	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	97	96684	20.0	24.4	
36 Isopropyl ether	87	3.909	3.909	0.000	96	37058	20.0	18.6	
37 Tert-butyl ethyl ether	59	4.239	4.238	0.001	97	128118	20.0	20.0	
38 2,2-Dichloropropane	77	4.324	4.330	-0.006	81	49215	20.0	15.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.330	4.336	-0.006	88	48751	20.0	19.5	
40 2-Butanone (MEK)	43	4.348	4.354	-0.006	99	32310	40.0	41.4	
41 Propionitrile	54	4.391	4.397	-0.006	99	52756	200.0	197.1	
104 Ethyl acetate	61	4.428	4.427	0.001	99	10039	40.0	32.8	
43 Methacrylonitrile	67	4.543	4.543	0.000	95	156164	200.0	196.6	
42 Chlorobromomethane	128	4.549	4.549	0.000	94	20365	20.0	19.5	
44 Tetrahydrofuran	71	4.610	4.604	0.006	93	5615	40.0	30.2	
45 Chloroform	83	4.641	4.641	0.000	96	81922	20.0	19.1	
46 1,1,1-Trichloroethane	97	4.806	4.812	-0.006	97	71692	20.0	20.4	
47 Cyclohexane	56	4.866	4.866	0.000	96	93123	20.0	22.2	
48 Carbon tetrachloride	117	4.970	4.970	0.000	95	61028	20.0	20.1	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	92	68263	20.0	20.7	
108 Isobutyl alcohol	43	5.123	5.122	0.001	92	25180	500.0	379.2	
51 1,2-Dichloroethane	62	5.171	5.177	-0.006	97	73179	20.0	24.0	
50 Benzene	78	5.177	5.177	0.000	98	189649	20.0	19.7	
53 n-Heptane	43	5.312	5.311	0.001	70	68283	20.0	22.8	
52 Tert-amyl methyl ether	73	5.312	5.311	0.001	91	100246	20.0	17.3	
116 n-Butanol	56	5.476	5.482	-0.006	63	20110	500.0	214.8	a
54 Trichloroethene	95	5.805	5.805	0.000	96	50138	20.0	20.4	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	46040	20.0	19.8	
114 Methylcyclohexane	83	6.013	6.013	0.001	92	73529	20.0	18.2	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	82	47527	20.0	20.2	
56 Dibromomethane	93	6.122	6.122	0.000	93	24566	20.0	19.7	
115 1,4-Dioxane	58	6.159	6.165	-0.006	32	5179	400.0	0	
57 Methyl methacrylate	69	6.171	6.165	0.006	92	49618	40.0	37.1	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	55287	20.0	19.5	
106 2-Nitropropane	43	6.525	6.525	0.000	99	13670	40.0	33.1	
59 2-Chloroethyl vinyl ether	63	6.622	6.628	-0.006	94	24635	20.0	18.9	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	61645	20.0	18.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	69379	40.0	38.6	
62 Toluene	92	7.116	7.116	0.000	97	117226	20.0	17.9	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	50833	20.0	15.6	
64 Ethyl methacrylate	69	7.470	7.470	0.000	91	43667	20.0	17.1	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	96	29555	20.0	18.9	
66 Tetrachloroethene	166	7.695	7.695	0.000	91	47161	20.0	17.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	63433	20.0	18.9	
68 2-Hexanone	43	7.823	7.823	0.000	97	44384	40.0	37.8	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	34100	20.0	16.3	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	55492	20.0	18.0	
70 Ethylene Dibromide	107	8.061	8.061	0.000	97	34577	20.0	17.9	
71 Chlorobenzene	112	8.616	8.616	0.000	89	121780	20.0	17.8	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	37876	20.0	17.1	
73 Ethylbenzene	91	8.750	8.756	-0.006	99	225453	20.0	18.8	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	83961	20.0	18.0	
75 o-Xylene	106	9.335	9.335	0.000	98	78389	20.0	17.7	
76 Styrene	104	9.347	9.347	0.000	94	123972	20.0	16.9	
77 Bromoform	173	9.530	9.536	-0.006	92	16932	20.0	14.2	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	207396	20.0	18.0	
79 Bromobenzene	156	10.085	10.085	0.000	98	46582	20.0	16.6	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	38673	20.0	18.0	
81 1,2,3-Trichloropropane	110	10.146	10.140	0.006	89	12768	20.0	17.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	62	9765	20.0	16.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.243	10.243	0.000	99	242999	20.0	18.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	145841	20.0	18.7	
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	169650	20.0	18.5	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	167857	20.0	18.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	138730	20.0	17.4	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	163538	20.0	17.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	202483	20.0	17.8	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.001	96	85273	20.0	17.1	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	94	166536	20.0	17.4	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	86707	20.0	17.0	
110 1,2,3-Trimethylbenzene	105	11.384	11.383	0.001	100	159203	20.0	17.5	
113 Benzyl chloride	126	11.475	11.475	0.000	99	5058	20.0	6.10	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	80725	20.0	16.8	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	141497	20.0	16.8	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	72	5108	20.0	16.7	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	41967	20.0	14.3	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	94	33175	20.0	13.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	19401	20.0	16.2	
98 Naphthalene	128	13.974	13.980	-0.006	98	67221	20.0	12.6	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	25721	20.0	13.1	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	40.1	
S 100 Xylenes, Total	1				0		40.0	35.7	
S 102 1,3-Dichloropropene, Total	1				0		40.0	33.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

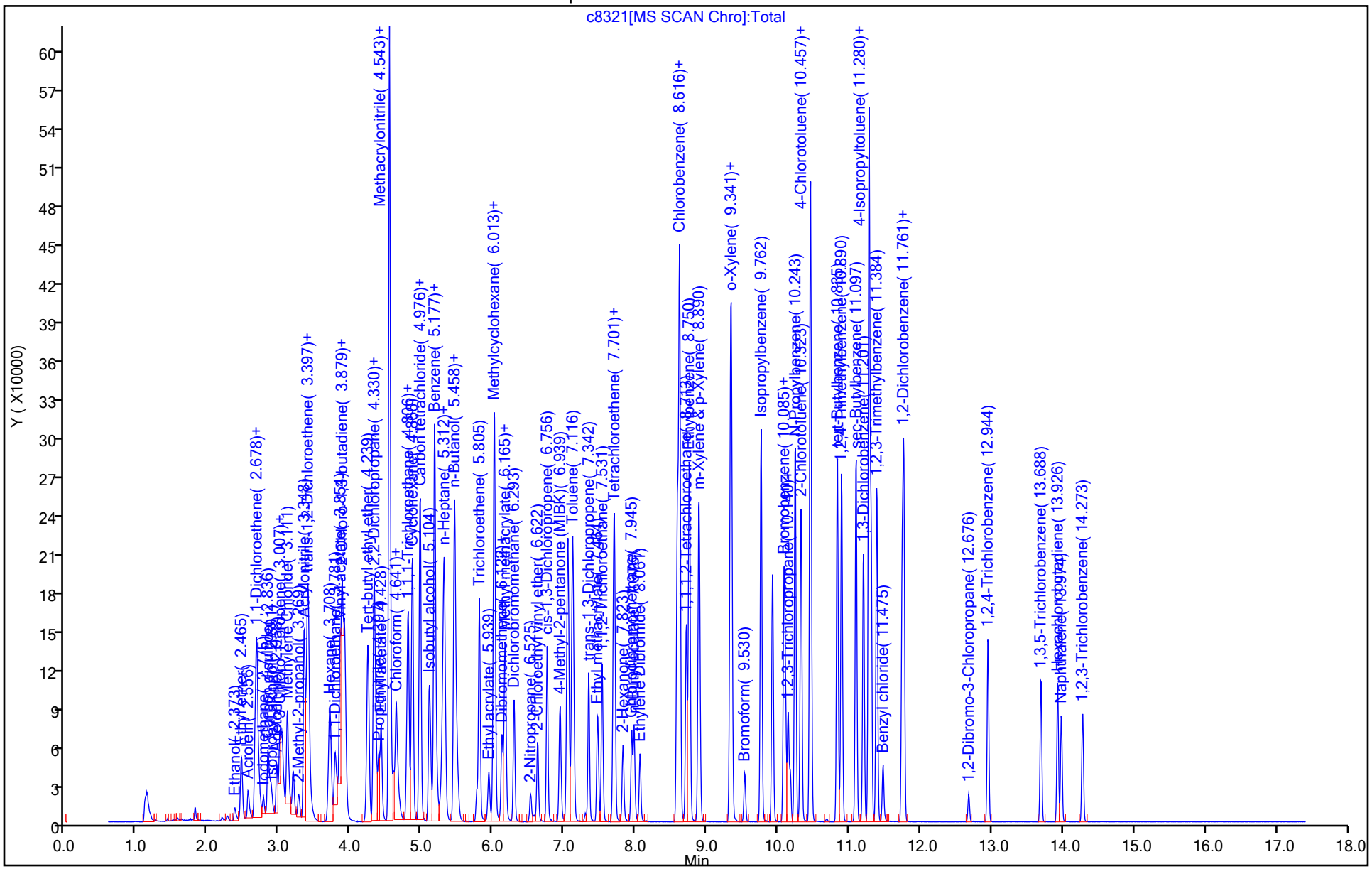
VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:09:55 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8321.D

Injection Date:	19-Nov-2020 18:31:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8321.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 18:31:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 03:00:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.6	107.28
$ 6 Toluene-d8 (Surr)	50.0	51.7	103.42
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.1	96.25

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

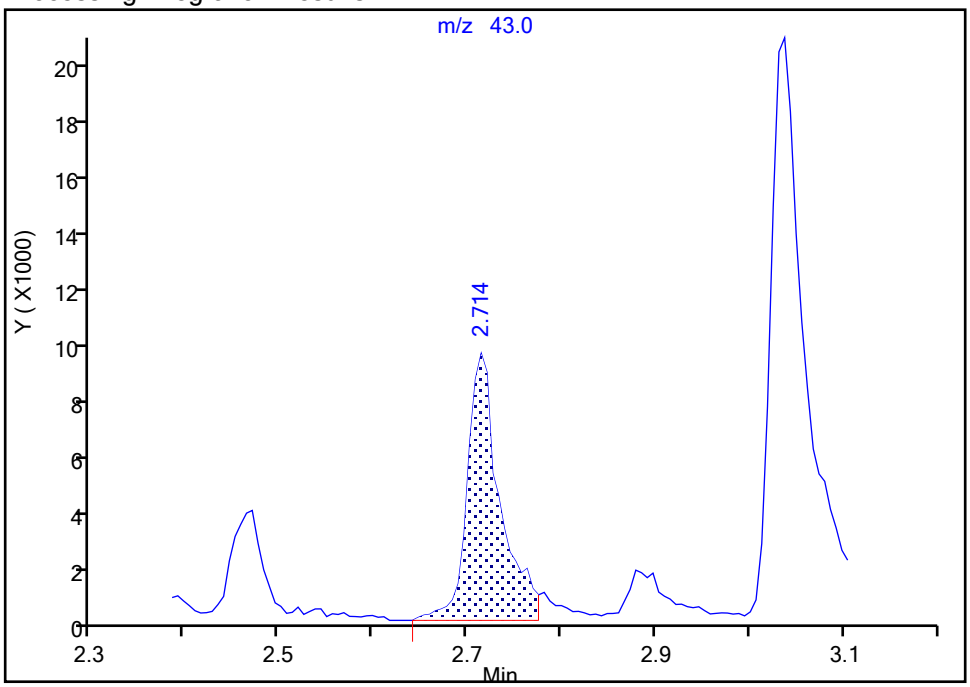
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8321.D
Injection Date: 19-Nov-2020 18:31:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

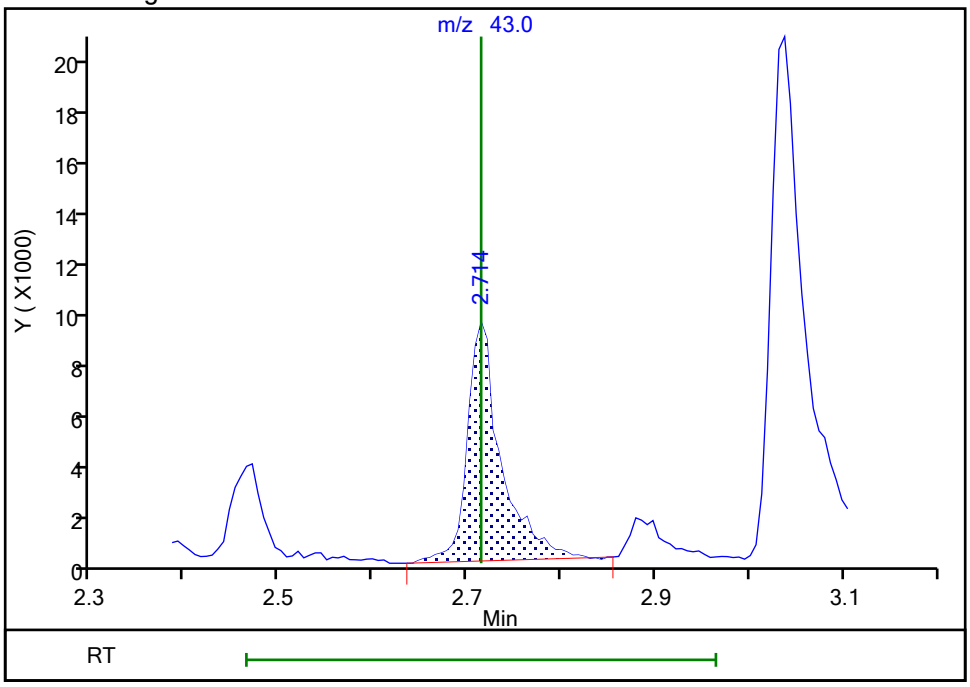
Processing Integration Results

RT: 2.71
Area: 23091
Amount: 45.507469
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 23312
Amount: 45.975491
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 06:59:39
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-299826/7

Matrix: Water Lab File ID: c8322.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 18:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	3.96		2.0	0.82
75-00-3	Chloroethane	8.20		4.0	0.79
74-87-3	Chloromethane	8.11		3.0	0.61
75-01-4	Vinyl chloride	8.07		1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8322.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 18:55:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:00:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.385	3.391	-0.006	0	63	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	171438	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.110	0.006	95	5408	1000.0	1000.0	Ma
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	122890	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	55140	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	39963	50.0	52.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	161488	50.0	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	43656	50.0	48.4	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	22574	10.0	6.44	
10 Chloromethane	50	1.520	1.526	-0.006	95	20955	10.0	8.11	
11 Vinyl chloride	62	1.538	1.532	0.006	97	25509	10.0	8.07	
12 Butadiene	54	1.574	1.568	0.006	96	23049	10.0	7.21	
13 Bromomethane	94	1.831	1.837	-0.006	93	3168	10.0	3.96	M
14 Chloroethane	64	1.922	1.916	0.006	97	14987	10.0	8.20	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	36575	10.0	8.36	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	37150	10.0	8.89	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

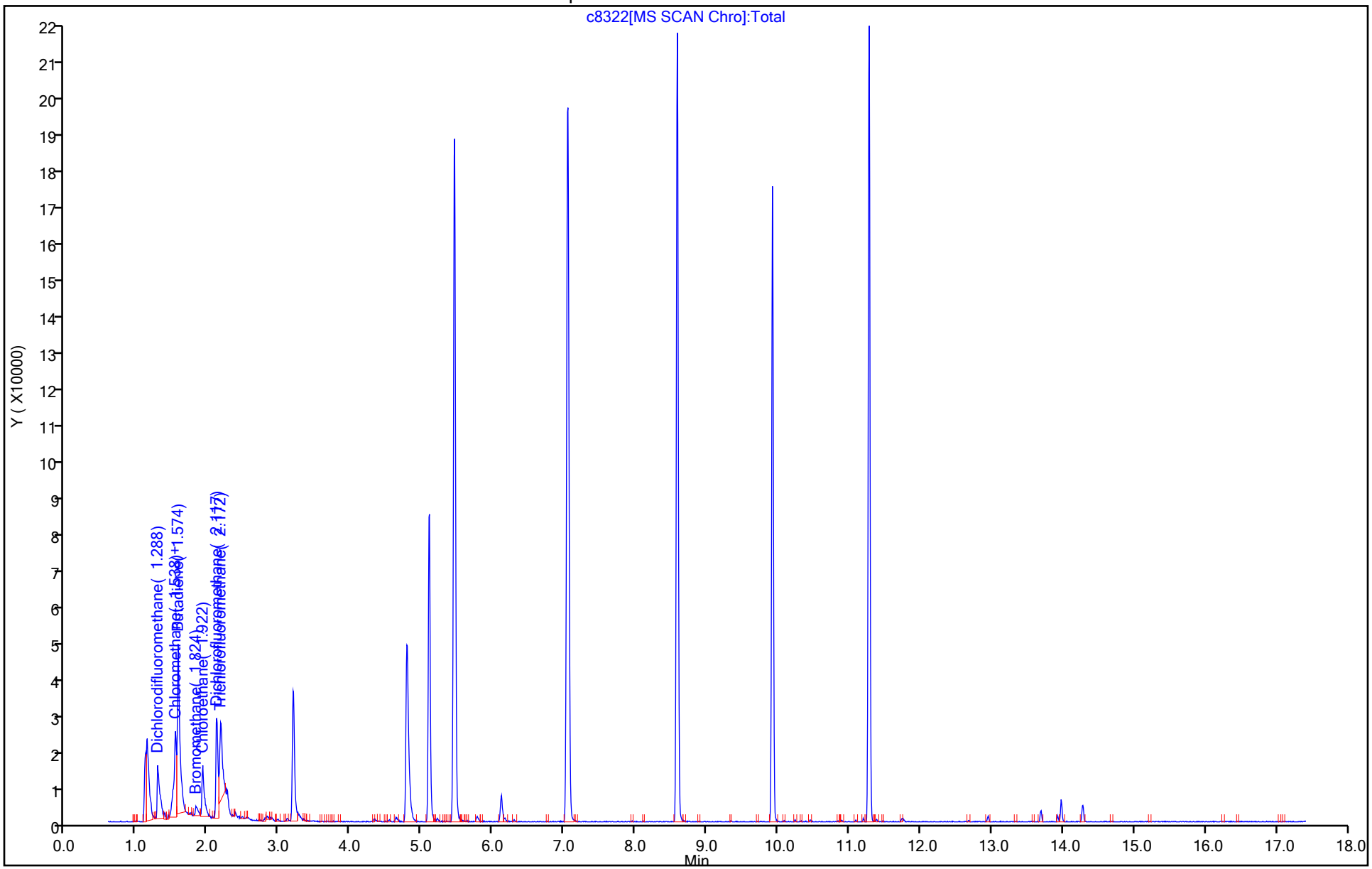
VV_I_GASES_00414 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 20-Nov-2020 07:10:03 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8322.D

Injection Date:	19-Nov-2020 18:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8322.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2020 18:55:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062748-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:00:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.0	104.02
$ 6 Toluene-d8 (Surr)	50.0	51.3	102.51
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.4	96.79

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

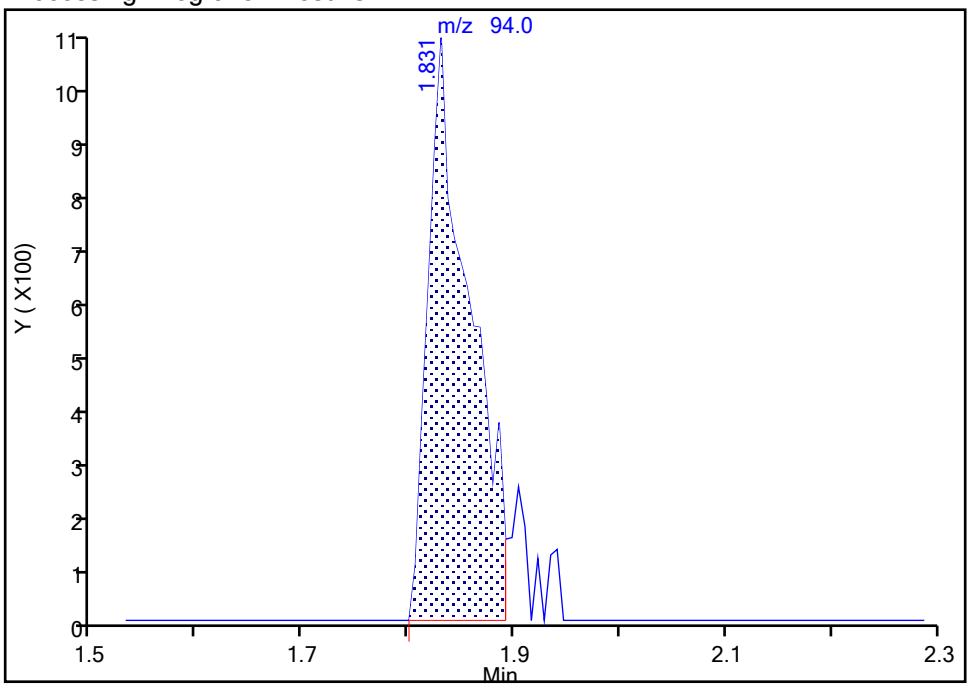
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8322.D
Injection Date: 19-Nov-2020 18:55:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

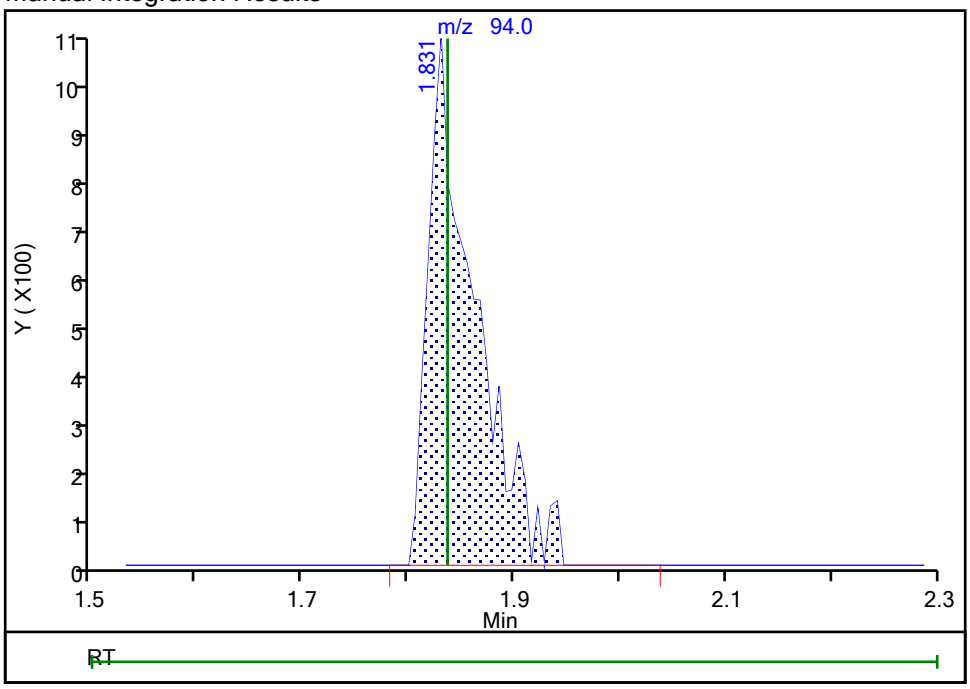
Processing Integration Results

RT: 1.83
Area: 2838
Amount: 3.593255
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 3168
Amount: 3.958236
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 07:00:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

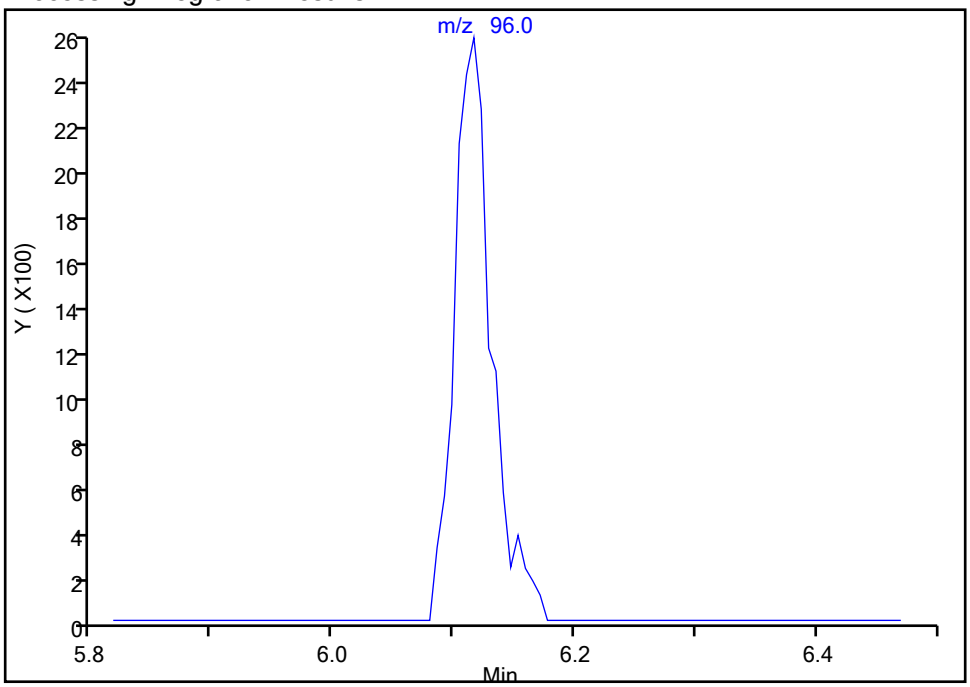
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8322.D
Injection Date: 19-Nov-2020 18:55:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

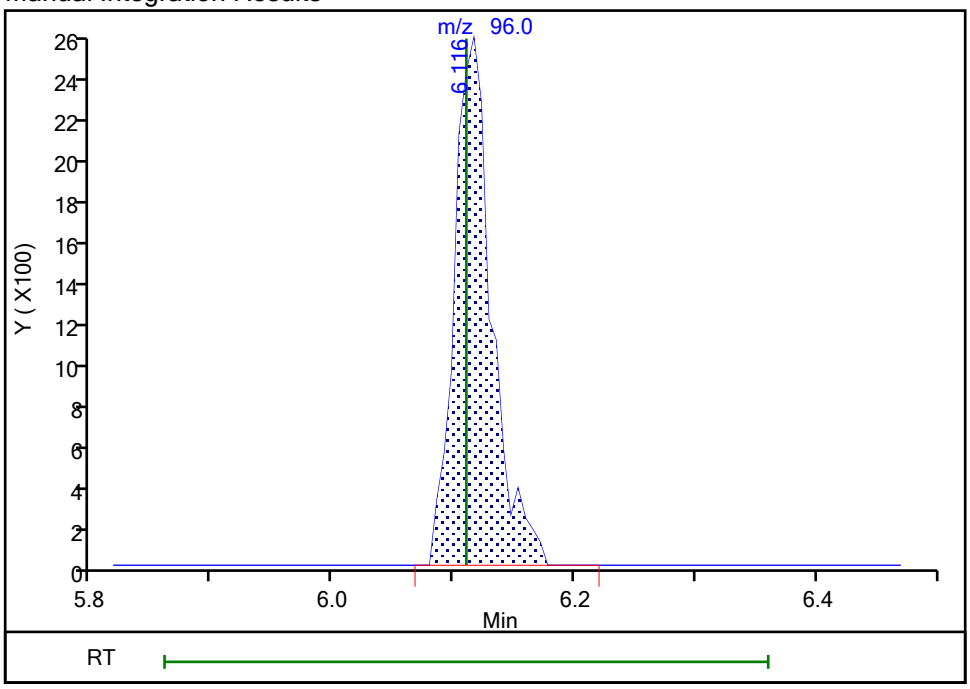
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.12
Area: 5408
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 20-Nov-2020 07:00:09
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 MS Lab Sample ID: 240-140187-10 MS

Matrix: Water Lab File ID: c8253.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.39		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	7.96		0.50	0.13
79-00-5	1,1,2-Trichloroethane	7.37		0.50	0.22
75-34-3	1,1-Dichloroethane	10.8		1.0	0.22
75-35-4	1,1-Dichloroethene	22.9		2.0	0.56
107-06-2	1,2-Dichloroethane	8.71		1.0	0.39
78-87-5	1,2-Dichloropropane	7.16		1.0	0.27
591-78-6	2-Hexanone	16.2		10	2.0
67-64-1	Acetone	15.9		10	3.1
71-43-2	Benzene	6.68		0.50	0.22
75-25-2	Bromoform	5.56		5.0	0.78
74-83-9	Bromomethane	1.04	J	2.0	0.82
75-15-0	Carbon disulfide	5.46		1.0	0.45
56-23-5	Carbon tetrachloride	5.11		2.0	0.65
108-90-7	Chlorobenzene	6.88		1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	6.88		3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	6.29		0.50	0.20
75-27-4	Dichlorobromomethane	7.32		1.0	0.39
100-41-4	Ethylbenzene	6.41		1.0	0.31
78-93-3	2-Butanone (MEK)	16.1		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	16.1		10	2.1
75-09-2	Methylene Chloride	6.44		1.0	0.78
100-42-5	Styrene	6.27		1.0	0.37
127-18-4	Tetrachloroethene	4.93		1.0	0.48
108-88-3	Toluene	6.54		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	65.3		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	5.65		0.50	0.22
79-01-6	Trichloroethene	6.10		1.0	0.43
75-01-4	Vinyl chloride	202		1.0	0.18
1330-20-7	Xylenes, Total	13.5		3.0	0.40
124-48-1	Chlorodibromomethane	6.41		2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 MS Lab Sample ID: 240-140187-10 MS

Matrix: Water Lab File ID: c8253.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 15:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8253.D
Lims ID: 240-140187-A-10 MS
Client ID: GW-110920-BE-028
Sample Type: MS
Inject. Date: 18-Nov-2020 15:52:30 ALS Bottle#: 31 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-029
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:50:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.361	3.385	-0.024	0	109	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	190303	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	90	6725	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	136164	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	98	62391	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	45190	50.0	53.0	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	95	182124	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	50493	50.0	49.5	
$ 8 BFB	95	9.920	9.920	0.000	81	69174		NR	
9 Dichlorodifluoromethane	85		1.288					ND	U
10 Chloromethane	50		1.526					ND	U
11 Vinyl chloride	62	1.538	1.532	0.006	99	707478		201.7	
12 Butadiene	54	1.568	1.568	0.000	1	285		0.0803	
13 Bromomethane	94	1.818	1.837	-0.019	75	591		1.04	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45	2.367	2.373	-0.006	96	5807	400.0	350.9	a
18 Ethyl ether	59	2.465	2.465	-0.001	94	10333	10.0	6.42	
19 Acrolein	56	2.562	2.556	0.006	99	9470	47.6	38.7	
20 1,1-Dichloroethene	96	2.660	2.660	0.000	95	44764	10.0	22.9	
21 112TCTFE	101	2.678	2.678	0.000	94	10190	10.0	5.24	
22 Acetone	43	2.714	2.715	0.000	99	9289	20.0	15.9	
23 Iodomethane	142	2.769	2.775	-0.006	99	2351	10.0	1.31	
24 Carbon disulfide	76	2.836	2.843	-0.007	99	31658	10.0	5.46	
105 Isopropyl alcohol	45	2.897	2.885	0.012	94	8288	100.0	92.4	M
118 Acetonitrile	40	2.964	2.964	0.000	99	11271	100.0	61.3	
25 3-Chloro-1-propene	76	3.007	3.007	0.000	83	5154	10.0	4.07	M
26 Methyl acetate	43	3.038	3.038	0.000	99	18348	20.0	13.7	
27 Methylene Chloride	84	3.111	3.111	0.000	96	14925	10.0	6.44	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	92	7958	100.0	62.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53	3.348	3.349	-0.001	97	51980	100.0	75.6	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	94	145822	10.0	65.3	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	73	38312	10.0	7.40	
31 Hexane	57	3.708	3.702	0.006	92	14189	10.0	4.69	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	45440	10.0	10.8	M
33 Vinyl acetate	86	3.848	3.848	0.000	98	4712	20.0	11.4	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	97	23998	10.0	5.93	
36 Isopropyl ether	87	3.915	3.909	0.006	94	13794	10.0	6.76	
37 Tert-butyl ethyl ether	59	4.245	4.239	0.006	96	44957	10.0	6.87	
38 2,2-Dichloropropane	77	4.330	4.324	0.006	35	13240	10.0	4.01	
39 cis-1,2-Dichloroethene	96	4.336	4.330	0.006	85	9803939	10.0	3836.9	E
40 2-Butanone (MEK)	43	4.360	4.348	0.012	91	12814	20.0	16.1	a
41 Propionitrile	54	4.397	4.391	0.006	95	20460	100.0	74.9	
104 Ethyl acetate	61		4.428				ND	ND	
43 Methacrylonitrile	67	4.543	4.543	0.000	95	60315	100.0	74.4	
42 Chlorobromomethane	128	4.549	4.550	-0.001	40	7318	10.0	6.85	
44 Tetrahydrofuran	71	4.610	4.604	0.006	89	2179	20.0	11.5	
45 Chloroform	83	4.641	4.641	0.000	96	30140	10.0	6.88	
46 1,1,1-Trichloroethane	97	4.806	4.806	0.000	94	19351	10.0	5.39	
47 Cyclohexane	56	4.866	4.867	-0.001	96	21191	10.0	4.95	
48 Carbon tetrachloride	117	4.970	4.970	0.000	95	15882	10.0	5.11	
49 1,1-Dichloropropene	75	4.982	4.976	0.006	92	18302	10.0	5.45	
108 Isobutyl alcohol	43	5.116	5.116	0.000	93	12476	250.0	184.1	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	62	27110	10.0	8.71	
50 Benzene	78	5.177	5.177	0.000	97	65702	10.0	6.68	
116 n-Butanol	56	5.293	5.299	-0.006	47	10981	250.0	114.9	Ma
52 Tert-amyl methyl ether	73	5.312	5.312	0.000	87	36742	10.0	6.23	
53 n-Heptane	43	5.482	5.476	0.006	96	15317	10.0	5.01	a
54 Trichloroethene	95	5.805	5.805	0.000	96	15321	10.0	6.10	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	17373	10.0	7.31	
114 Methylcyclohexane	83	6.013	6.013	0.000	78	17499	10.0	4.24	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	85	17194	10.0	7.16	
56 Dibromomethane	93	6.122	6.122	0.000	93	9019	10.0	7.07	
115 1,4-Dioxane	58	6.165	6.159	0.006	46	2766	200.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	18704	20.0	13.7	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	21224	10.0	7.32	
106 2-Nitropropane	43	6.525	6.525	0.000	98	5281	20.0	12.5	
59 2-Chloroethyl vinyl ether	63		6.622				ND	ND	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	21839	10.0	6.29	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.933	0.006	99	29571	20.0	16.1	
62 Toluene	92	7.116	7.116	0.000	97	43747	10.0	6.54	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	97	17989	10.0	5.65	
64 Ethyl methacrylate	69	7.464	7.464	0.000	91	16846	10.0	6.45	
65 1,1,2-Trichloroethane	83	7.531	7.531	0.000	95	11769	10.0	7.37	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	13579	10.0	4.93	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	96	25774	10.0	7.53	
68 2-Hexanone	43	7.823	7.823	0.000	97	19369	20.0	16.2	
69 Chlorodibromomethane	129	7.945	7.945	0.000	88	13651	10.0	6.41	
109 n-Butyl acetate	43	7.982	7.976	0.006	97	20714	10.0	6.59	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	12935	10.0	6.57	
71 Chlorobenzene	112	8.616	8.616	0.000	91	46942	10.0	6.88	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.707	0.006	89	14469	10.0	6.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.750	0.006	99	76606	10.0	6.41	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	31826	10.0	6.84	
75 o-Xylene	106	9.329	9.329	0.000	98	29253	10.0	6.61	
76 Styrene	104	9.347	9.347	0.000	95	45992	10.0	6.27	
77 Bromoform	173	9.530	9.530	0.000	92	6606	10.0	5.56	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	65078	10.0	5.65	
79 Bromobenzene	156	10.085	10.085	0.000	98	18716	10.0	6.70	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	17024	10.0	7.96	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	5547	10.0	7.74	
82 trans-1,4-Dichloro-2-butene	53	10.176	10.170	0.006	65	3869	10.0	6.49	
83 N-Propylbenzene	91	10.243	10.237	0.006	99	77432	10.0	5.83	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	53013	10.0	6.82	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	63570	10.0	6.95	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	56473	10.0	6.14	
87 tert-Butylbenzene	119	10.835	10.835	0.000	94	43439	10.0	5.45	
88 1,2,4-Trimethylbenzene	105	10.896	10.890	0.006	98	60279	10.0	6.37	
89 sec-Butylbenzene	105	11.097	11.097	0.000	96	59960	10.0	5.29	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	96	33706	10.0	6.77	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	74	53223	10.0	5.73	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	35080	10.0	7.08	
110 1,2,3-Trimethylbenzene	105	11.383	11.384	-0.001	100	60831	10.0	6.88	
113 Benzyl chloride	126	11.469	11.475	-0.006	99	2285	10.0	2.84	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	32949	10.0	7.07	
94 n-Butylbenzene	91	11.768	11.768	0.000	98	44402	10.0	5.43	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	72	1905	10.0	6.42	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	92	15562	10.0	5.47	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	93	12226	10.0	5.14	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	6092	10.0	5.26	
98 Naphthalene	128	13.974	13.975	0.000	98	24016	10.0	4.63	
99 1,2,3-Trichlorobenzene	180	14.273	14.273	0.000	92	9552	10.0	5.03	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
133 Isooctane	57		0.000				ND	ND	
129 Pentachloroethane	167		0.000					ND	
138 Dodecane	57		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
139 C6-C12	1		0.000					ND	
136 n-Decane	57		0.000					ND	
131 1-Chlorohexane	55		0.000				ND	ND	
137 C6-C10	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43	4.690	4.690	0.000	29	155		NR	
S 101 1,2-Dichloroethene, Total	1				0		20.0	3902.2	E
S 100 Xylenes, Total	1				0		20.0	13.4	
S 102 1,3-Dichloropropene, Total	1				0		20.0	11.9	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
ND - Not Detected or Marked ND
E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

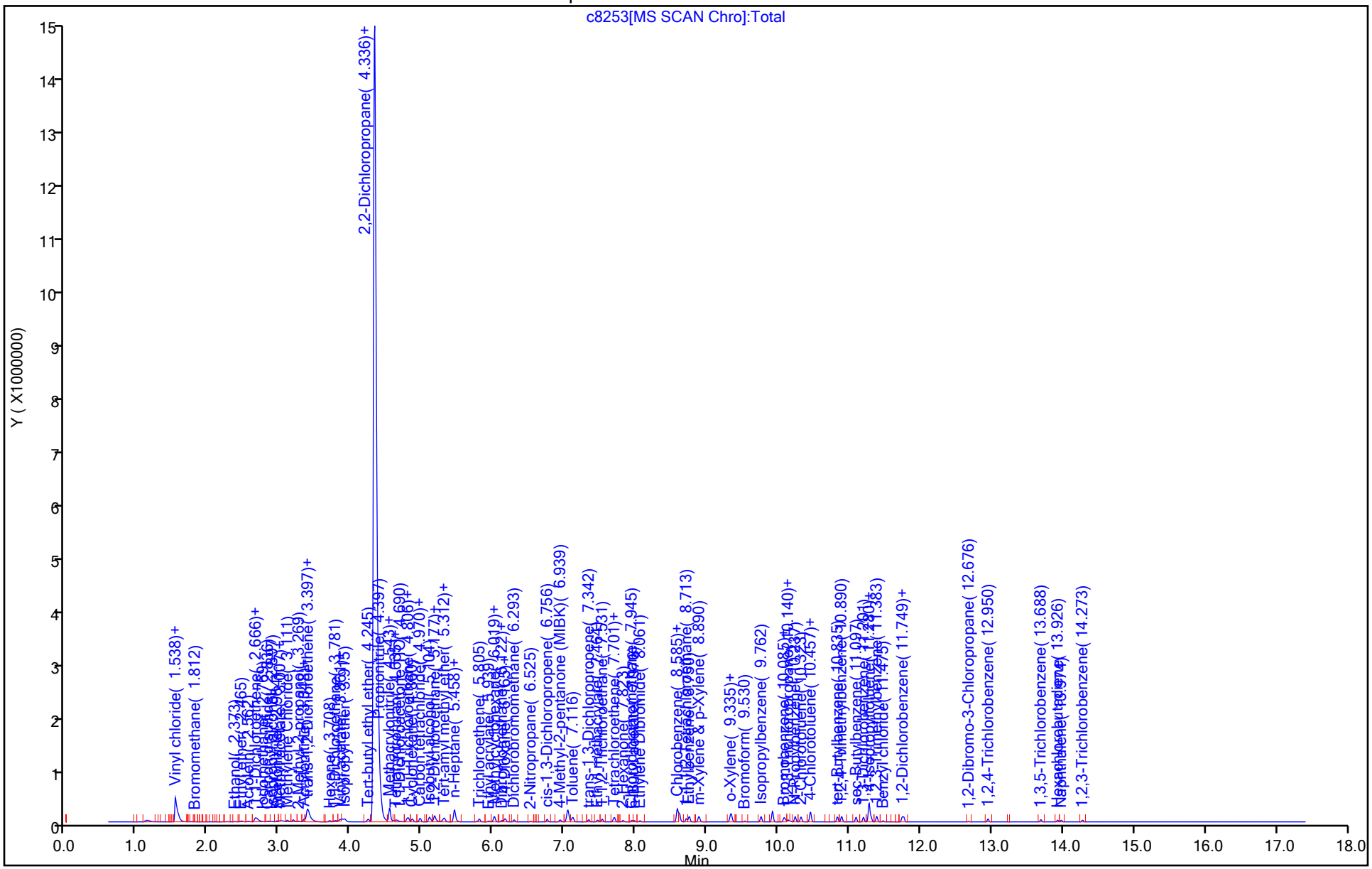
Reagents:

VV_I_MOSOL_00219	Amount Added:	4.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:55:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8253.D				
Injection Date:	18-Nov-2020 15:52:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-10 MS			Worklist Smp#:	29
Client ID:	GW-110920-BE-028				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8253.D
Lims ID: 240-140187-A-10 MS
Client ID: GW-110920-BE-028
Sample Type: MS
Inject. Date: 18-Nov-2020 15:52:30 ALS Bottle#: 31 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-029
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:50:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.0	105.97
$ 6 Toluene-d8 (Surr)	50.0	52.2	104.34
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.5	98.94

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

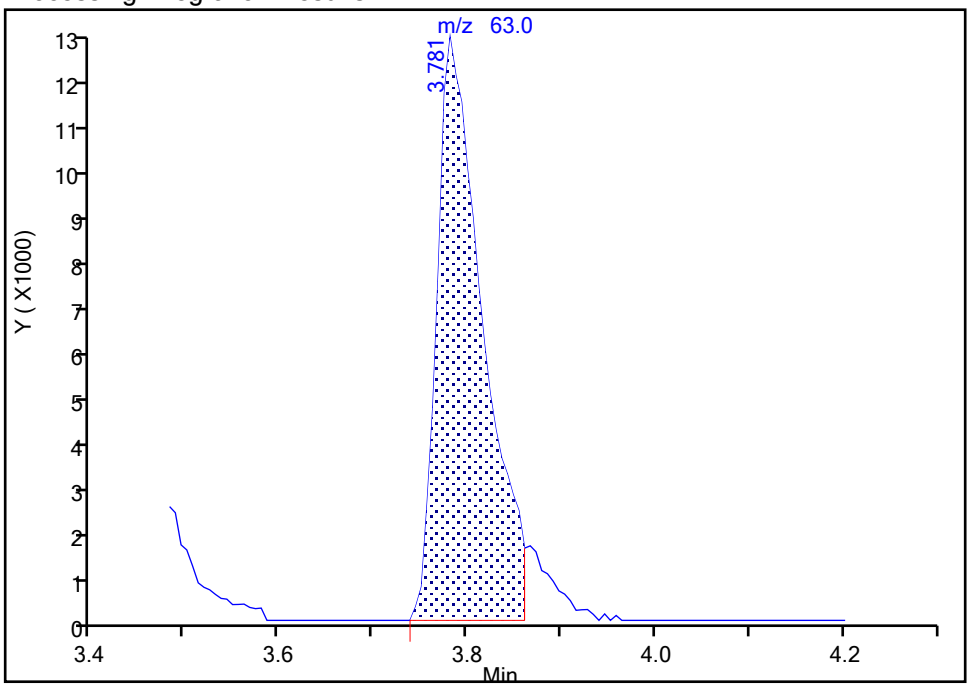
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8253.D				
Injection Date:	18-Nov-2020 15:52:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10 MS				
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

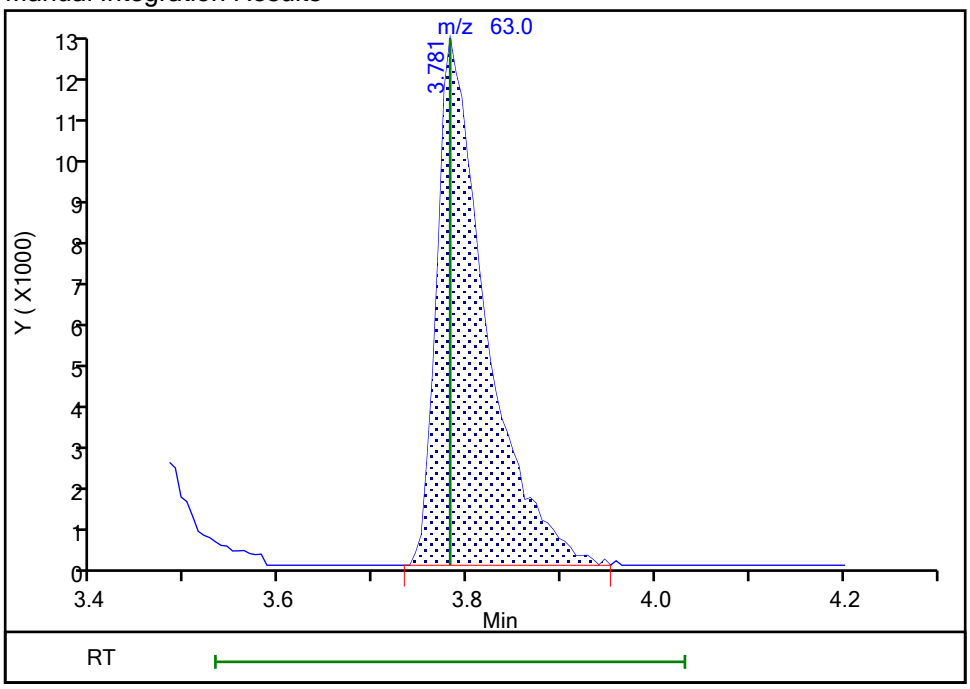
Processing Integration Results

RT: 3.78
Area: 42325
Amount: 10.105582
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 45440
Amount: 10.849324
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:49:52

Audit Action: Manually Integrated Audit Reason: Split Peak

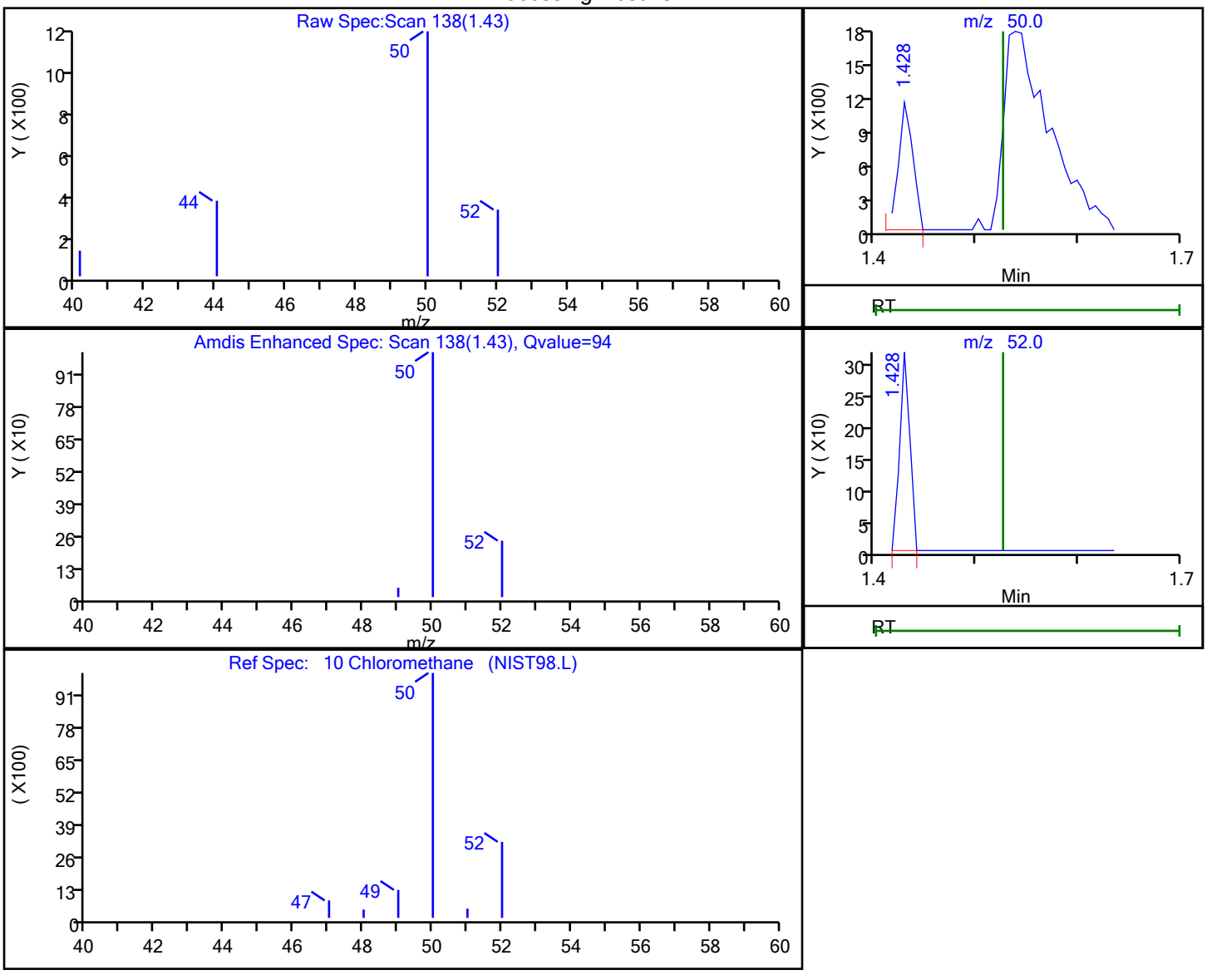
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8253.D				
Injection Date:	18-Nov-2020 15:52:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10 MS				
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.43	50.00	1138	0.396734
1.43	52.00	218	

Reviewer: nelsonsa, 19-Nov-2020 06:50:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

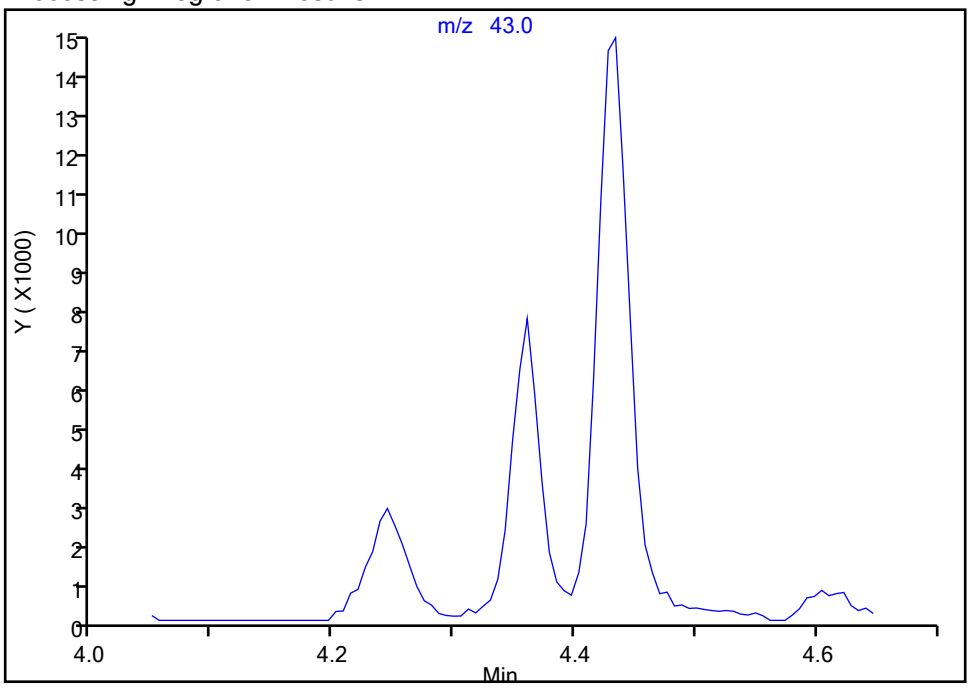
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8253.D				
Injection Date:	18-Nov-2020 15:52:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10 MS				
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

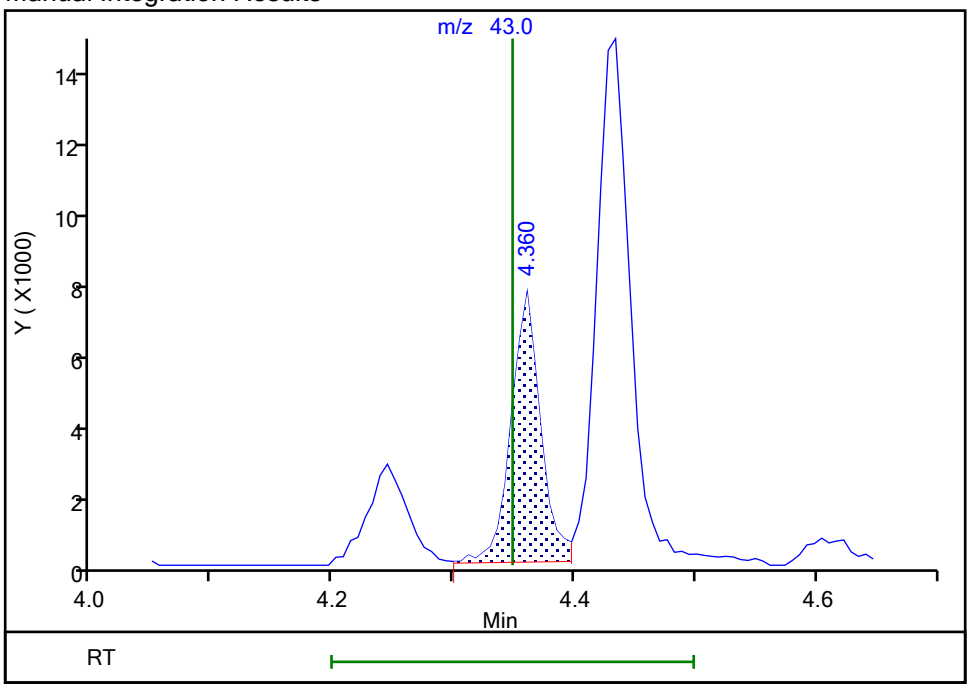
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 12814
Amount: 16.074542
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:49:45
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 MS Lab Sample ID: 240-140187-10 MS

Matrix: Water Lab File ID: c8314.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 15:39

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	4990		50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	106		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Report Date: 20-Nov-2020 12:15:28 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8314.D
Lims ID: 240-140187-B-10 MS
Client ID: GW-110920-BE-028
Sample Type: MS
Inject. Date: 19-Nov-2020 15:39:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-029
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:11:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.324	3.373	-0.049	0	240	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	170600	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	42	5763	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	120417	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	74	56672	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	40311	1.00	52.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	163511	1.00	53.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.927	9.926	0.000	86	45460	1.00	49.0	
$ 8 BFB	95	9.920	9.920	0.000	81	61873		NR	
9 Dichlorodifluoromethane	85		1.288					ND	
10 Chloromethane	50		1.526					ND	U
11 Vinyl chloride	62	1.538	1.532	0.006	97	12466		3.97	
12 Butadiene	54	1.568	1.568	0.000	92	1041		0.3273	
13 Bromomethane	94	1.818	1.837	-0.019	94	1937		2.61	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45	2.373	2.373	0.000	97	11291	16.0	761.1	a
18 Ethyl ether	59	2.465	2.471	-0.005	96	31608	0.4000	21.9	
19 Acrolein	56	2.556	2.562	-0.006	98	20812	1.91	94.9	
20 1,1-Dichloroethene	96	2.654	2.659	-0.005	92	38446	0.4000	21.9	
21 112TCTFE	101	2.678	2.684	-0.006	94	43941	0.4000	25.2	
22 Acetone	43	2.715	2.714	0.000	98	22335	0.8000	48.3	
23 Iodomethane	142	2.775	2.775	0.000	98	17765	0.4000	11.1	
24 Carbon disulfide	76	2.836	2.842	-0.006	99	123885	0.4000	23.8	
105 Isopropyl alcohol	45	2.891	2.885	0.006	94	9901	4.00	123.2	
118 Acetonitrile	40	2.964	2.964	0.000	98	33464	4.00	203.1	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	81	14565	0.4000	12.8	
26 Methyl acetate	43	3.038	3.037	0.001	99	52140	0.8000	43.3	
27 Methylene Chloride	84	3.111	3.111	0.000	98	41776	0.4000	20.1	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	92	16533	4.00	145.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53	3.349	3.348	0.001	98	134283	4.00	217.9	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	95	46349	0.4000	23.2	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	98267	0.4000	21.2	
31 Hexane	57	3.702	3.702	0.000	95	65694	0.4000	24.2	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	84386	0.4000	22.5	
33 Vinyl acetate	86	3.848	3.848	0.000	98	14192	0.8000	38.2	
34 2-Chloro-1,3-butadiene	53	3.873	3.879	-0.006	95	94866	0.4000	26.1	
36 Isopropyl ether	87	3.915	3.909	0.006	95	38348	0.4000	21.0	
37 Tert-butyl ethyl ether	59	4.239	4.238	0.001	97	122175	0.4000	20.8	
38 2,2-Dichloropropane	77	4.330	4.324	0.006	82	47307	0.4000	16.0	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	228432	0.4000	99.7	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	99	31065	0.8000	43.5	
41 Propionitrile	54	4.397	4.397	0.000	99	49747	4.00	203.1	
104 Ethyl acetate	61	4.428	4.427	0.001	99	14092	0.8000	50.2	
43 Methacrylonitrile	67	4.543	4.543	0.000	95	150205	4.00	206.7	
42 Chlorobromomethane	128	4.550	4.549	0.001	91	19368	0.4000	20.2	
44 Tetrahydrofuran	71	4.604	4.604	0.000	84	4678	0.8000	27.5	
45 Chloroform	83	4.641	4.641	0.000	98	80250	0.4000	20.4	
46 1,1,1-Trichloroethane	97	4.806	4.805	0.001	97	69656	0.4000	21.6	
47 Cyclohexane	56	4.867	4.866	0.001	96	94045	0.4000	24.5	
48 Carbon tetrachloride	117	4.970	4.970	0.000	95	56106	0.4000	20.1	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	91	67044	0.4000	22.3	
108 Isobutyl alcohol	43	5.116	5.122	-0.006	92	23047	10.0	379.3	
50 Benzene	78	5.177	5.177	0.000	98	185721	0.4000	21.1	
51 1,2-Dichloroethane	62	5.171	5.177	-0.006	96	70038	0.4000	25.1	
116 n-Butanol	56	5.293	5.299	-0.006	58	50736	10.0	592.1	
52 Tert-amyl methyl ether	73	5.312	5.311	0.001	91	93166	0.4000	17.6	
53 n-Heptane	43	5.476	5.482	-0.006	95	63163	0.4000	23.0	
54 Trichloroethene	95	5.805	5.805	0.000	96	47279	0.4000	21.0	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	42052	0.4000	19.7	
114 Methylcyclohexane	83	6.007	6.013	-0.005	95	77698	0.4000	21.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	84	44542	0.4000	20.7	
56 Dibromomethane	93	6.122	6.122	0.000	93	24118	0.4000	21.1	
115 1,4-Dioxane	58	6.165	6.165	0.000	31	4604	8.00	0	
57 Methyl methacrylate	69	6.165	6.171	-0.006	92	47642	0.8000	38.9	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	52351	0.4000	20.1	
106 2-Nitropropane	43	6.525	6.525	0.000	98	12759	0.8000	33.8	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	23395	0.4000	19.6	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	58829	0.4000	18.9	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	65964	0.8000	40.1	
62 Toluene	92	7.116	7.116	0.000	97	119432	0.4000	19.9	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	99	48238	0.4000	16.2	
64 Ethyl methacrylate	69	7.470	7.463	0.007	92	40422	0.4000	17.3	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	96	28116	0.4000	19.6	
66 Tetrachloroethene	166	7.695	7.695	0.000	93	47223	0.4000	19.1	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	62168	0.4000	20.3	
68 2-Hexanone	43	7.823	7.823	0.000	97	42533	0.8000	39.6	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	33839	0.4000	17.7	
109 n-Butyl acetate	43	7.982	7.976	0.006	97	52475	0.4000	18.6	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	33173	0.4000	18.8	
71 Chlorobenzene	112	8.616	8.616	0.000	89	120046	0.4000	19.9	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	90	35629	0.4000	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	99	228495	0.4000	21.6	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	91043	0.4000	22.1	
75 o-Xylene	106	9.329	9.335	-0.006	97	79117	0.4000	20.2	
76 Styrene	104	9.347	9.347	0.000	89	121065	0.4000	18.7	
77 Bromoform	173	9.530	9.530	0.000	93	15825	0.4000	15.1	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	208876	0.4000	20.5	
79 Bromobenzene	156	10.085	10.085	0.000	99	44946	0.4000	18.2	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	37399	0.4000	19.7	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	92	12560	0.4000	19.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	68	8642	0.4000	16.4	
83 N-Propylbenzene	91	10.244	10.243	0.001	100	249132	0.4000	21.2	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	146554	0.4000	21.3	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	169205	0.4000	20.9	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	167531	0.4000	20.6	
87 tert-Butylbenzene	119	10.835	10.835	0.000	94	141592	0.4000	20.1	
88 1,2,4-Trimethylbenzene	105	10.890	10.896	-0.006	98	180372	0.4000	21.5	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	203457	0.4000	20.3	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.001	96	84631	0.4000	19.2	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	95	167211	0.4000	19.8	
92 1,4-Dichlorobenzene	146	11.304	11.310	-0.006	92	85231	0.4000	18.9	
110 1,2,3-Trimethylbenzene	105	11.384	11.390	-0.006	100	162619	0.4000	20.3	
113 Benzyl chloride	126	11.475	11.475	0.000	99	5397	0.4000	7.39	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	78585	0.4000	18.6	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	149817	0.4000	20.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	71	5280	0.4000	19.6	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	42502	0.4000	16.4	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	94	32193	0.4000	14.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	19382	0.4000	18.4	
98 Naphthalene	128	13.981	13.980	0.001	98	68862	0.4000	14.6	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	24840	0.4000	14.4	
130 Dichloroacetonitrile TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
129 Pentachloroethane	167		0.000					ND	
139 C6-C12	1		0.000					ND	
136 n-Decane	57		0.000					ND	
131 1-Chlorohexane	55		0.000				ND	ND	
137 C6-C10	1		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
133 Isooctane	57		0.000				ND	ND	
128 1,1-Dichloroacetone TIC	43	4.690	4.690	0.000	0	144			NR
S 101 1,2-Dichloroethene, Total	1				0		0.8000	122.9	
S 100 Xylenes, Total	1				0		0.8000	42.3	
S 102 1,3-Dichloropropene, Total	1				0		0.8000	35.1	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

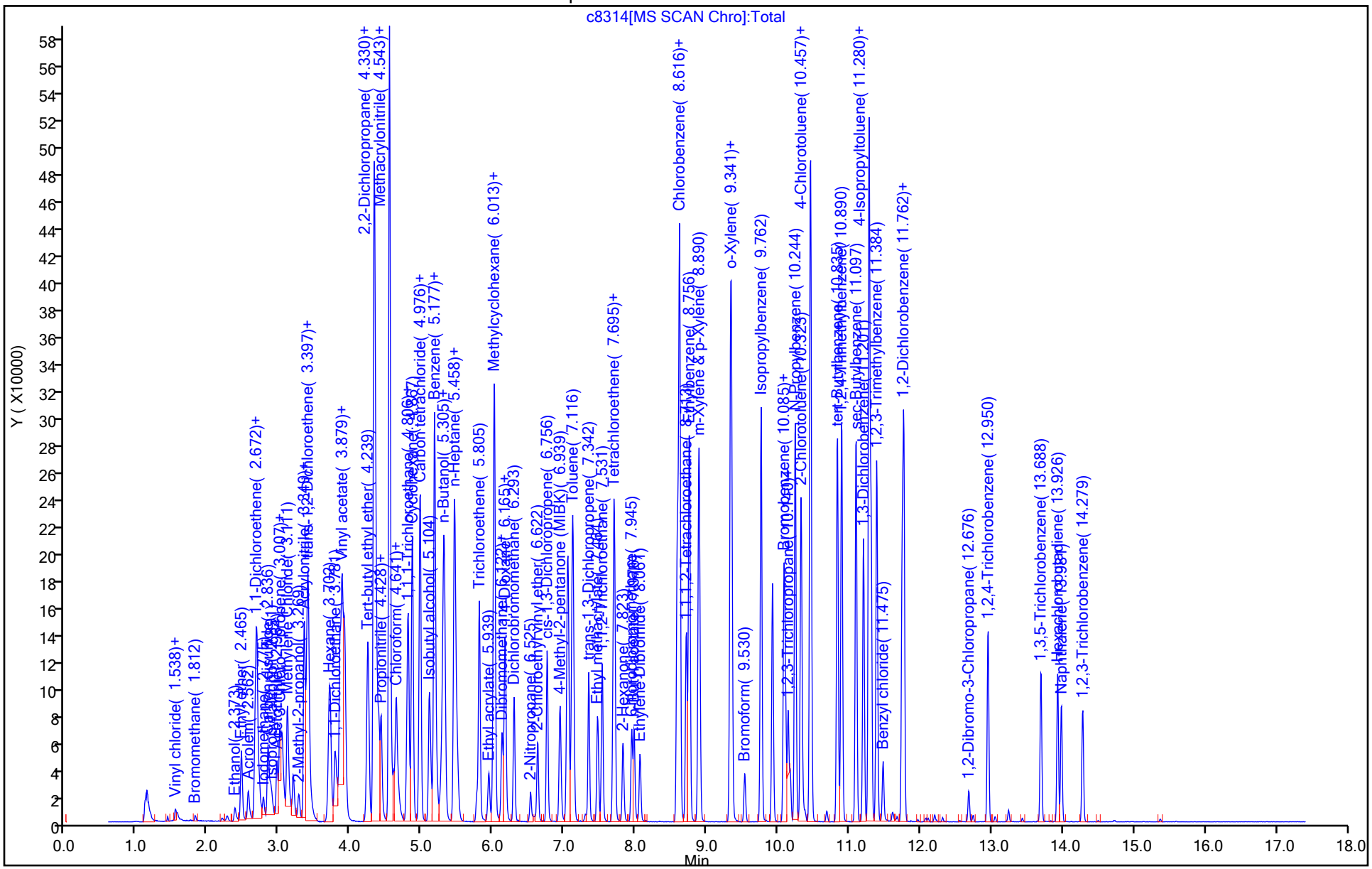
Reagents:

VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 12:15:28 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8314.D				
Injection Date:	19-Nov-2020 15:39:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-10 MS			Worklist Smp#:	29
Client ID:	GW-110920-BE-028				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	29
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8314.D
Lims ID: 240-140187-B-10 MS
Client ID: GW-110920-BE-028
Sample Type: MS
Inject. Date: 19-Nov-2020 15:39:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-029
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 12:14:15 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1668

First Level Reviewer: nelsonsa Date: 20-Nov-2020 12:11:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.7	5272.17
$ 6 Toluene-d8 (Surr)	50.0	53.0	5296.16
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	4903.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 MS Lab Sample ID: 240-140187-18 MS

Matrix: Water Lab File ID: c8328.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 04:34

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	437		20	3.8
79-34-5	1,1,2,2-Tetrachloroethane	374		10	2.6
79-00-5	1,1,2-Trichloroethane	387		10	4.4
75-34-3	1,1-Dichloroethane	474		20	4.4
75-35-4	1,1-Dichloroethene	439		40	11
107-06-2	1,2-Dichloroethane	483		20	7.8
78-87-5	1,2-Dichloropropane	413		20	5.4
591-78-6	2-Hexanone	802		200	40
67-64-1	Acetone	794		200	62
71-43-2	Benzene	411		10	4.4
75-25-2	Bromoform	291		100	16
74-83-9	Bromomethane	76.0		40	16
75-15-0	Carbon disulfide	469		20	9.0
56-23-5	Carbon tetrachloride	417		40	13
108-90-7	Chlorobenzene	375		20	8.0
75-00-3	Chloroethane	80	U	80	16
67-66-3	Chloroform	409		60	26
74-87-3	Chloromethane	60	U	60	12
156-59-2	cis-1,2-Dichloroethene	2710		20	4.2
10061-01-5	cis-1,3-Dichloropropene	371		10	4.0
75-27-4	Dichlorobromomethane	396		20	7.8
100-41-4	Ethylbenzene	400		20	6.2
78-93-3	2-Butanone (MEK)	872		200	42
108-10-1	4-Methyl-2-pentanone (MIBK)	807		200	42
75-09-2	Methylene Chloride	374		20	16
100-42-5	Styrene	353		20	7.4
127-18-4	Tetrachloroethene	374		20	9.6
108-88-3	Toluene	375		20	8.6
156-60-5	trans-1,2-Dichloroethene	443		20	5.4
10061-02-6	trans-1,3-Dichloropropene	334		10	4.4
79-01-6	Trichloroethene	554		20	8.6
75-01-4	Vinyl chloride	713		20	3.6
1330-20-7	Xylenes, Total	751		60	8.0
124-48-1	Chlorodibromomethane	338		40	2.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 MS Lab Sample ID: 240-140187-18 MS

Matrix: Water Lab File ID: c8328.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 04:34

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Report Date: 20-Nov-2020 07:10:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8328.D
Lims ID: 240-140187-C-18 MS
Client ID:
Sample Type: MS
Inject. Date: 20-Nov-2020 04:34:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062748-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:06:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.385	3.391	-0.006	0	88	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	97	174533	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	42	6443	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	126183	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	78	59506	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	42382	2.50	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	167347	2.50	51.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	82	47691	2.50	49.0	
$ 8 BFB	95	9.920	9.920	0.000	81	63740		NR	
9 Dichlorodifluoromethane	85		1.288					ND	U
10 Chloromethane	50		1.526					ND	U
11 Vinyl chloride	62	1.538	1.532	0.006	98	114617		35.6	
12 Butadiene	54	1.562	1.568	-0.006	91	802		0.2465	
13 Bromomethane	94	1.812	1.837	-0.025	91	3080		3.80	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45	2.373	2.373	0.000	98	12116	40.0	798.3	a
18 Ethyl ether	59	2.458	2.464	-0.006	94	29927	1.00	20.3	
19 Acrolein	56	2.556	2.562	-0.006	98	17838	4.76	79.5	
20 1,1-Dichloroethene	96	2.654	2.659	-0.005	92	39422	1.00	22.0	M
21 112TCTFE	101	2.672	2.684	-0.012	94	44189	1.00	24.8	
22 Acetone	43	2.715	2.714	0.001	97	19040	2.00	39.7	
23 Iodomethane	142	2.775	2.775	0.000	99	20448	1.00	12.5	
24 Carbon disulfide	76	2.836	2.842	-0.006	99	124739	1.00	23.5	
105 Isopropyl alcohol	45	2.885	2.885	0.000	97	14591	10.0	177.4	
118 Acetonitrile	40	2.958	2.964	-0.006	98	33257	10.0	197.3	M
25 3-Chloro-1-propene	76	3.001	3.007	-0.006	77	19988	1.00	17.2	
26 Methyl acetate	43	3.038	3.037	0.001	99	52020	2.00	42.2	
27 Methylene Chloride	84	3.111	3.111	0.000	98	39719	1.00	18.7	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	18616	10.0	159.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53	3.342	3.348	-0.006	100	135238	10.0	214.6	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	93	45314	1.00	22.1	
29 Methyl tert-butyl ether	73	3.397	3.403	-0.006	98	95532	1.00	20.1	
31 Hexane	57	3.702	3.708	-0.006	95	75655	1.00	27.2	
32 1,1-Dichloroethane	63	3.775	3.787	-0.012	97	91124	1.00	23.7	
33 Vinyl acetate	86	3.848	3.848	0.000	98	14415	2.00	37.9	
34 2-Chloro-1,3-butadiene	53	3.873	3.879	-0.006	96	94091	1.00	25.3	
36 Isopropyl ether	87	3.903	3.909	-0.006	93	36662	1.00	19.6	
37 Tert-butyl ethyl ether	59	4.239	4.238	0.001	97	121112	1.00	20.2	
38 2,2-Dichloropropane	77	4.324	4.330	-0.006	81	58657	1.00	19.4	
39 cis-1,2-Dichloroethene	96	4.330	4.336	-0.006	85	317062	1.00	135.3	
40 2-Butanone (MEK)	43	4.348	4.354	-0.006	99	31866	2.00	43.6	
41 Propionitrile	54	4.397	4.397	0.000	98	50765	10.0	202.5	
104 Ethyl acetate	61	4.403	4.427	-0.024	99	29113	2.00	101.5	M
43 Methacrylonitrile	67	4.543	4.543	0.000	95	145713	10.0	196.0	
42 Chlorobromomethane	128	4.543	4.549	-0.006	41	18987	1.00	19.4	
44 Tetrahydrofuran	71	4.604	4.604	0.000	82	6342	2.00	36.5	
45 Chloroform	83	4.635	4.641	-0.006	96	82199	1.00	20.5	
46 1,1,1-Trichloroethane	97	4.799	4.812	-0.013	96	71941	1.00	21.8	
47 Cyclohexane	56	4.860	4.866	-0.006	96	96636	1.00	24.6	
48 Carbon tetrachloride	117	4.964	4.970	-0.006	96	59410	1.00	20.9	
49 1,1-Dichloropropene	75	4.970	4.976	-0.006	92	67907	1.00	22.0	
108 Isobutyl alcohol	43	5.123	5.122	0.001	91	24633	25.0	396.2	
51 1,2-Dichloroethane	62	5.171	5.177	-0.006	96	68893	1.00	24.1	
50 Benzene	78	5.177	5.177	0.000	98	185268	1.00	20.5	
53 n-Heptane	43	5.305	5.311	-0.006	70	72731	1.00	25.9	
52 Tert-amyl methyl ether	73	5.312	5.311	0.001	88	93302	1.00	17.2	
116 n-Butanol	56	5.482	5.482	0.000	63	25240	25.0	287.9	a
54 Trichloroethene	95	5.805	5.805	0.000	96	63841	1.00	27.7	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	43816	1.00	20.1	
114 Methylcyclohexane	83	6.013	6.013	0.001	96	80879	1.00	21.4	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	45472	1.00	20.6	
56 Dibromomethane	93	6.122	6.122	0.000	94	23182	1.00	19.8	
115 1,4-Dioxane	58	6.165	6.165	0.000	32	5433	20.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	47902	2.00	38.2	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	52724	1.00	19.8	
106 2-Nitropropane	43	6.525	6.525	0.000	99	14044	2.00	36.3	
59 2-Chloroethyl vinyl ether	63	6.622	6.628	-0.006	92	23186	1.00	19.0	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	59105	1.00	18.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	67932	2.00	40.4	
62 Toluene	92	7.116	7.116	0.000	97	115072	1.00	18.8	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	50968	1.00	16.7	
64 Ethyl methacrylate	69	7.464	7.470	-0.006	92	41134	1.00	17.2	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	95	28341	1.00	19.4	
66 Tetrachloroethene	166	7.689	7.695	-0.006	91	47241	1.00	18.7	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	60781	1.00	19.4	
68 2-Hexanone	43	7.823	7.823	0.000	99	44094	2.00	40.1	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	33043	1.00	16.9	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	54217	1.00	18.8	
70 Ethylene Dibromide	107	8.061	8.061	0.000	97	33061	1.00	18.3	
71 Chlorobenzene	112	8.616	8.616	0.000	89	118639	1.00	18.8	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	36353	1.00	17.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.750	8.756	-0.006	99	221355	1.00	20.0	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	82468	1.00	19.1	
75 o-Xylene	106	9.329	9.335	-0.006	99	75520	1.00	18.4	
76 Styrene	104	9.347	9.347	0.000	95	119955	1.00	17.6	
77 Bromoform	173	9.530	9.536	-0.006	93	16030	1.00	14.6	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	207740	1.00	19.5	
79 Bromobenzene	156	10.085	10.085	0.000	98	43717	1.00	16.9	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	37207	1.00	18.7	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	92	12475	1.00	18.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	62	9802	1.00	17.7	
83 N-Propylbenzene	91	10.237	10.243	-0.006	99	246186	1.00	20.0	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	142203	1.00	19.7	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	167932	1.00	19.8	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	163144	1.00	19.2	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	138097	1.00	18.7	
88 1,2,4-Trimethylbenzene	105	10.896	10.890	0.006	98	159721	1.00	18.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	201692	1.00	19.2	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.001	96	83724	1.00	18.2	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	95	169608	1.00	19.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	86177	1.00	18.2	
110 1,2,3-Trimethylbenzene	105	11.384	11.383	0.001	100	152460	1.00	18.1	
113 Benzyl chloride	126	11.475	11.475	0.000	99	7735	1.00	10.1	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	76333	1.00	17.2	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	151178	1.00	19.4	
95 1,2-Dibromo-3-Chloropropane	75	12.682	12.682	0.000	73	5072	1.00	17.9	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	42476	1.00	15.6	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	31070	1.00	13.7	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	19678	1.00	17.8	
98 Naphthalene	128	13.975	13.980	-0.006	98	63374	1.00	12.8	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	94	24794	1.00	13.7	
136 n-Decane	57		0.000					ND	
133 Isooctane	57		0.000				ND	ND	
123 Cyclohexanone	55		0.000					ND	
137 C6-C10	1		0.000					ND	
131 1-Chlorohexane	55		0.000				ND	ND	
129 Pentachloroethane	167		0.000					ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
124 Acetaldehyde TIC	1		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
139 C6-C12	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43	4.678	4.690	-0.012	1	256			NR
S 101 1,2-Dichloroethene, Total	1				0		2.00	157.4	
S 100 Xylenes, Total	1				0		2.00	37.5	
S 102 1,3-Dichloropropene, Total	1				0		2.00	35.3	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

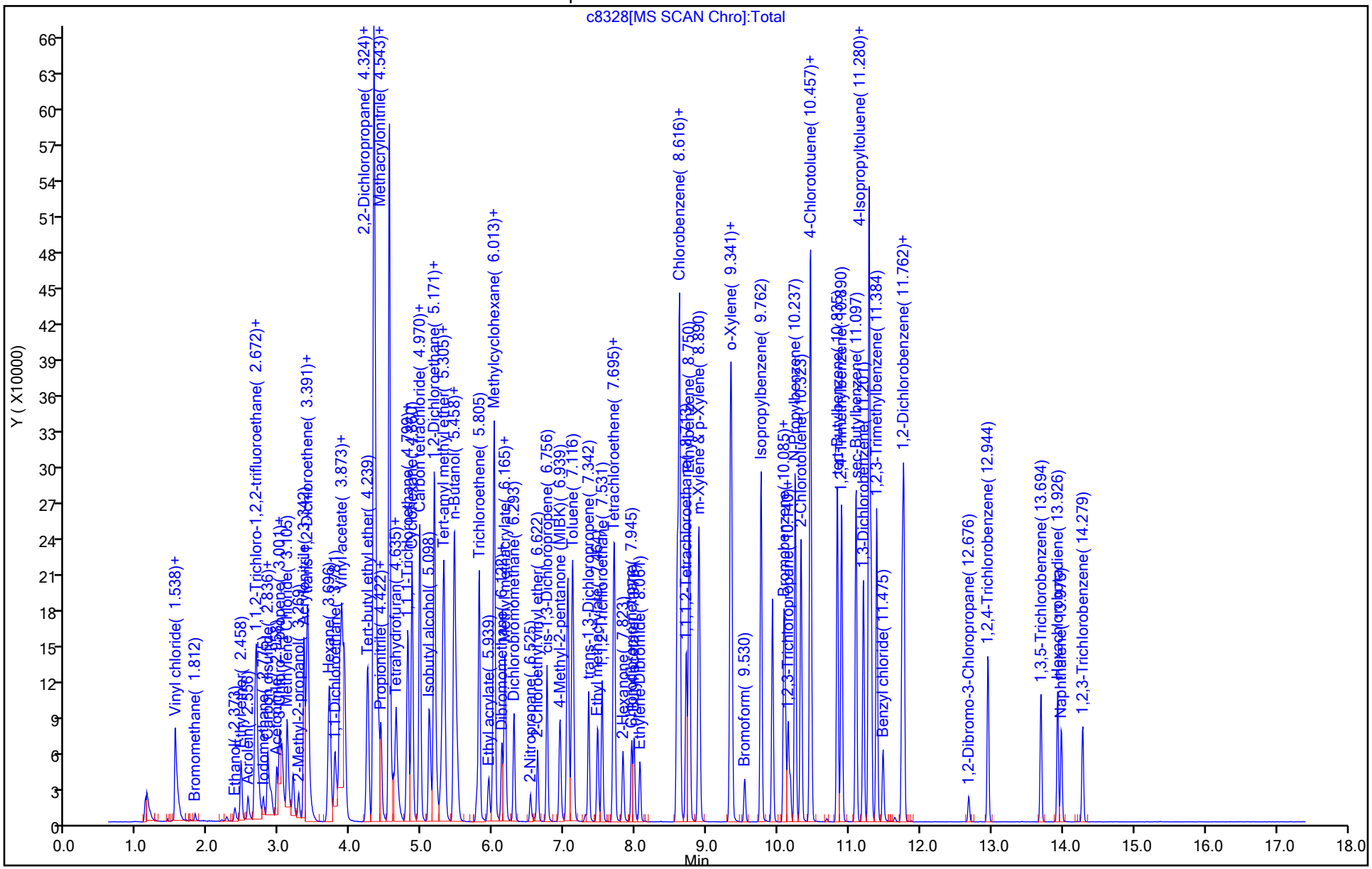
VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:10:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8328.D

Injection Date:	20-Nov-2020 04:34:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-C-18 MS			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8328.D
Lims ID: 240-140187-C-18 MS
Client ID:
Sample Type: MS
Inject. Date: 20-Nov-2020 04:34:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062748-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:06:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.2	2167.25
$ 6 Toluene-d8 (Surr)	50.0	51.7	2069.09
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	1959.52

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

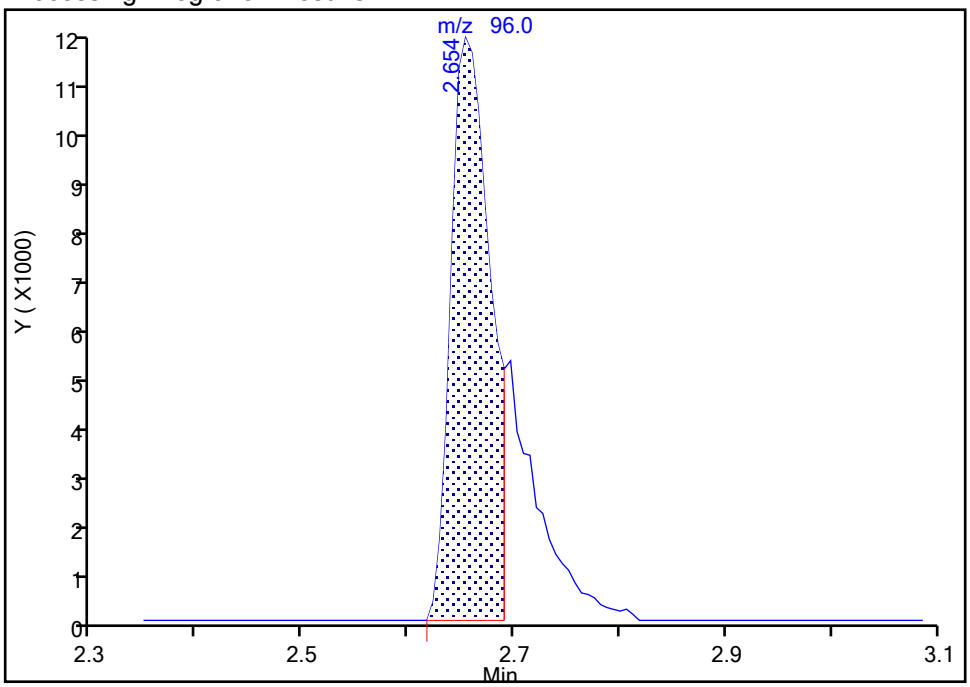
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8328.D				
Injection Date:	20-Nov-2020 04:34:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-18 MS				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

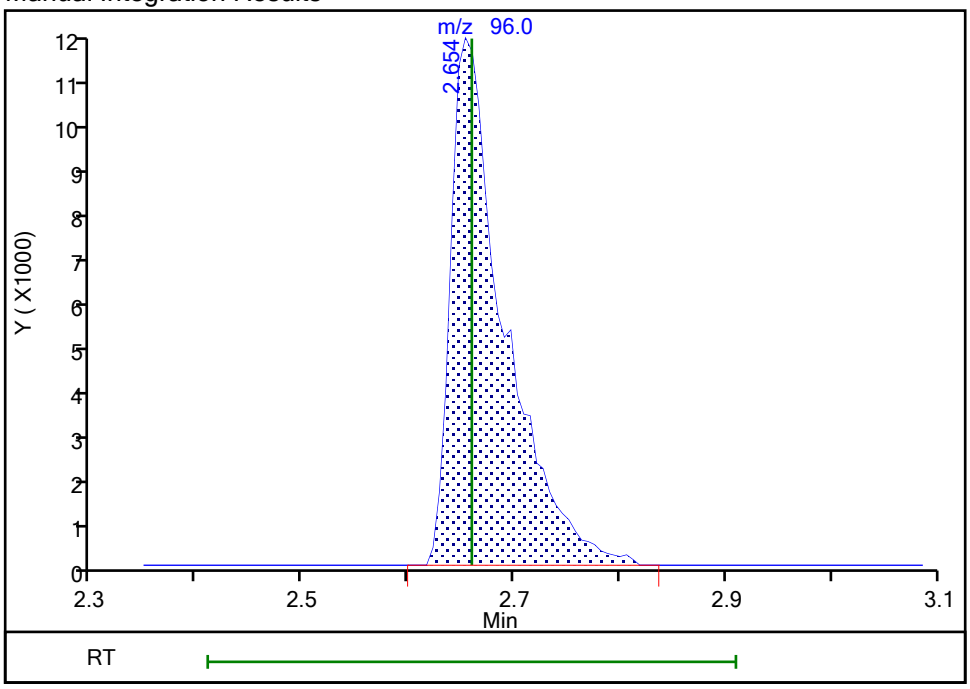
Processing Integration Results

RT: 2.65
Area: 29347
Amount: 16.346152
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 39422
Amount: 21.957883
Amount Units: ug/l



Reviewer: nelsonsa, 20-Nov-2020 07:06:34

Audit Action: Manually Integrated Audit Reason: Split Peak

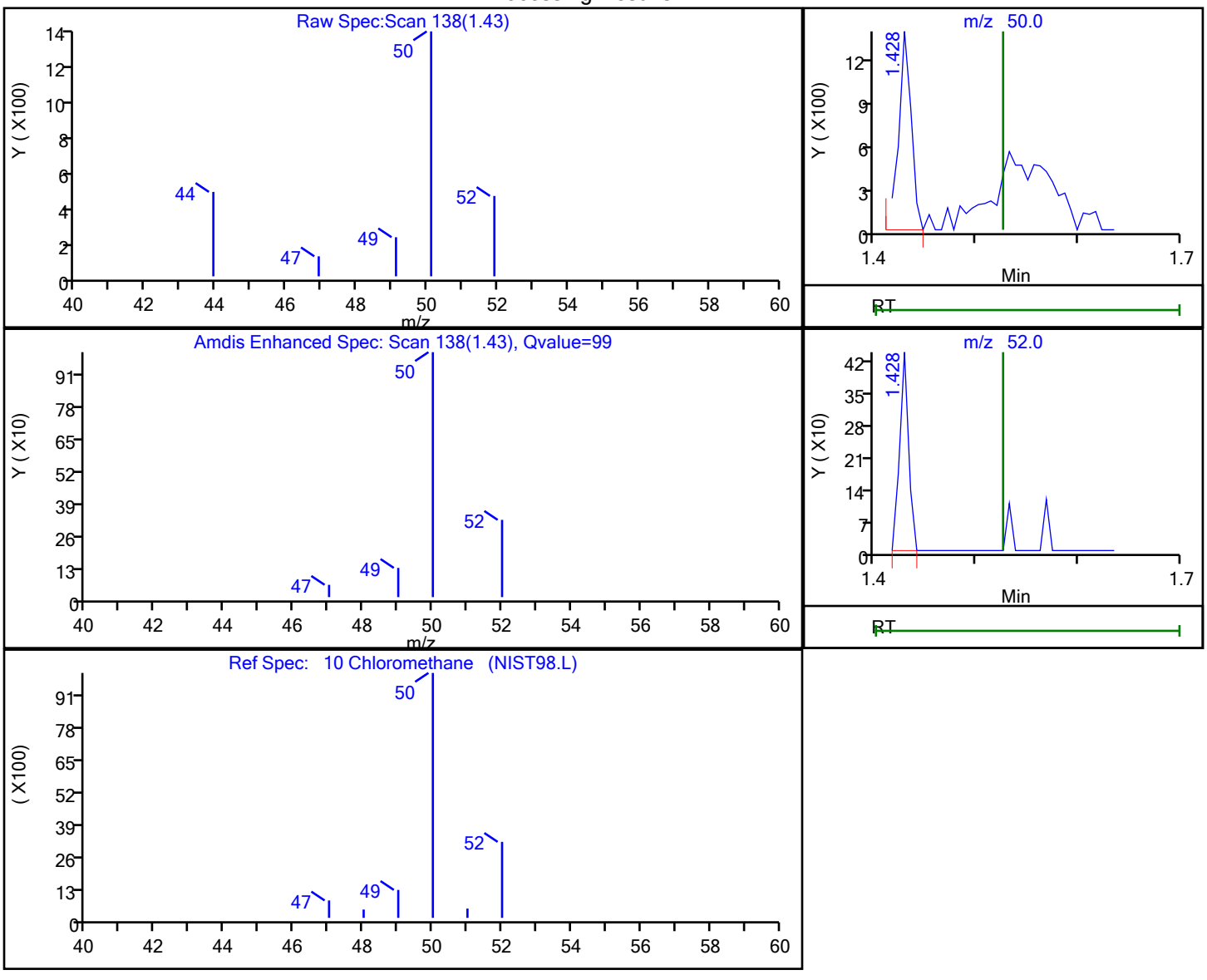
User Disabled Compound Report

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8328.D				
Injection Date:	20-Nov-2020 04:34:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-18 MS				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.43	50.00	1140	0.433341
1.43	52.00	271	

Reviewer: nelsonsa, 20-Nov-2020 07:06:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 MSD Lab Sample ID: 240-140187-10 MSD

Matrix: Water Lab File ID: c8254.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 16:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.08		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	8.78		0.50	0.13
79-00-5	1,1,2-Trichloroethane	7.88		0.50	0.22
75-34-3	1,1-Dichloroethane	11.3		1.0	0.22
75-35-4	1,1-Dichloroethene	22.4		2.0	0.56
107-06-2	1,2-Dichloroethane	9.27		1.0	0.39
78-87-5	1,2-Dichloropropane	7.60		1.0	0.27
591-78-6	2-Hexanone	16.5		10	2.0
67-64-1	Acetone	16.5		10	3.1
71-43-2	Benzene	7.30		0.50	0.22
75-25-2	Bromoform	6.10		5.0	0.78
74-83-9	Bromomethane	1.19	J	2.0	0.82
75-15-0	Carbon disulfide	5.57		1.0	0.45
56-23-5	Carbon tetrachloride	5.01		2.0	0.65
108-90-7	Chlorobenzene	7.19		1.0	0.40
75-00-3	Chloroethane	4.0	U	4.0	0.79
67-66-3	Chloroform	7.24		3.0	1.3
74-87-3	Chloromethane	3.0	U	3.0	0.61
10061-01-5	cis-1,3-Dichloropropene	6.83		0.50	0.20
75-27-4	Dichlorobromomethane	7.73		1.0	0.39
100-41-4	Ethylbenzene	6.93		1.0	0.31
78-93-3	2-Butanone (MEK)	17.6		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	17.2		10	2.1
75-09-2	Methylene Chloride	7.09		1.0	0.78
100-42-5	Styrene	6.79		1.0	0.37
127-18-4	Tetrachloroethene	5.26		1.0	0.48
108-88-3	Toluene	6.85		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	63.5		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	6.16		0.50	0.22
79-01-6	Trichloroethene	6.49		1.0	0.43
75-01-4	Vinyl chloride	199		1.0	0.18
1330-20-7	Xylenes, Total	14.7		3.0	0.40
124-48-1	Chlorodibromomethane	6.68		2.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 MSD Lab Sample ID: 240-140187-10 MSD

Matrix: Water Lab File ID: c8254.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2020 16:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299509 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	105		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8254.D
Lims ID: 240-140187-A-10 MSD
Client ID: GW-110920-BE-028
Sample Type: MSD
Inject. Date: 18-Nov-2020 16:17:30 ALS Bottle#: 32 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-030
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:52:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.324	3.385	-0.061	0	260	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	178142	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	78	6298	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	125726	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	97	58949	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	42308	50.0	53.0	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	169102	50.0	52.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.920	0.006	85	47235	50.0	49.0	
$ 8 BFB	95	9.920	9.920	0.000	81	64328		NR	
9 Dichlorodifluoromethane	85		1.288					ND	U
10 Chloromethane	50		1.526					ND	U
11 Vinyl chloride	62	1.538	1.532	0.006	98	653775		199.2	
12 Butadiene	54	1.562	1.568	-0.006	44	354		0.1066	
13 Bromomethane	94	1.812	1.837	-0.025	87	691		1.19	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45	2.379	2.373	0.006	100	5736	400.0	370.3	a
18 Ethyl ether	59	2.458	2.465	-0.007	94	10459	10.0	6.95	
19 Acrolein	56	2.562	2.556	0.006	97	9794	47.6	42.8	
20 1,1-Dichloroethene	96	2.653	2.660	-0.007	93	40956	10.0	22.4	
21 112TCTFE	101	2.678	2.678	0.000	95	9049	10.0	4.98	
22 Acetone	43	2.714	2.715	0.000	99	8990	20.0	16.5	
23 Iodomethane	142	2.769	2.775	-0.006	98	3169	10.0	1.89	
24 Carbon disulfide	76	2.842	2.843	-0.001	99	30216	10.0	5.57	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	8213	100.0	97.8	M
118 Acetonitrile	40	2.964	2.964	0.000	99	12194	100.0	70.9	M
25 3-Chloro-1-propene	76	3.001	3.007	-0.006	76	5781	10.0	4.88	M
26 Methyl acetate	43	3.031	3.038	-0.007	99	20026	20.0	15.9	M
27 Methylene Chloride	84	3.111	3.111	0.000	97	15387	10.0	7.09	
35 2-Methyl-2-propanol	59	3.275	3.269	0.006	94	10170	100.0	85.6	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53	3.342	3.349	-0.007	99	51753	100.0	80.4	
28 trans-1,2-Dichloroethene	96	3.391	3.391	0.000	94	132673	10.0	63.5	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	37511	10.0	7.74	
31 Hexane	57	3.702	3.702	0.000	94	13371	10.0	4.72	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	97	44498	10.0	11.3	
33 Vinyl acetate	86	3.848	3.848	0.000	97	4671	20.0	12.0	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	96	24155	10.0	6.37	
36 Isopropyl ether	87	3.909	3.909	0.000	94	13403	10.0	7.02	
37 Tert-butyl ethyl ether	59	4.245	4.239	0.006	96	46212	10.0	7.54	
38 2,2-Dichloropropane	77	4.330	4.324	0.006	35	13027	10.0	4.21	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	85	9584661	10.0	4007.2	E
40 2-Butanone (MEK)	43	4.354	4.348	0.006	91	13123	20.0	17.6	a
41 Propionitrile	54	4.397	4.391	0.006	96	20830	100.0	81.4	
104 Ethyl acetate	61		4.428				ND	ND	
43 Methacrylonitrile	67	4.543	4.543	0.000	95	58829	100.0	77.5	
42 Chlorobromomethane	128	4.549	4.550	-0.001	40	7415	10.0	7.42	
44 Tetrahydrofuran	71	4.610	4.604	0.006	92	2289	20.0	12.9	
45 Chloroform	83	4.635	4.641	-0.006	96	29702	10.0	7.24	
46 1,1,1-Trichloroethane	97	4.805	4.806	-0.001	96	20420	10.0	6.08	
47 Cyclohexane	56	4.860	4.867	-0.007	96	19610	10.0	4.89	
48 Carbon tetrachloride	117	4.970	4.970	0.000	93	14582	10.0	5.01	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	91	17823	10.0	5.66	
108 Isobutyl alcohol	43	5.122	5.116	0.006	92	12456	250.0	196.3	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	61	27004	10.0	9.27	
50 Benzene	78	5.171	5.177	-0.006	98	67219	10.0	7.30	
116 n-Butanol	56	5.299	5.299	0.000	53	11461	250.0	128.1	
52 Tert-amyl methyl ether	73	5.311	5.312	-0.001	86	36646	10.0	6.63	
53 n-Heptane	43	5.476	5.476	0.000	36	14422	10.0	5.04	Ma
54 Trichloroethene	95	5.805	5.805	0.000	95	15281	10.0	6.49	
117 Ethyl acrylate	55	5.933	5.939	-0.006	99	18023	10.0	8.10	
114 Methylcyclohexane	83	6.013	6.013	0.000	93	15791	10.0	4.09	
55 1,2-Dichloropropane	63	6.013	6.019	-0.006	78	17088	10.0	7.60	
56 Dibromomethane	93	6.122	6.122	0.000	91	9126	10.0	7.64	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	2299	200.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	91	19331	20.0	15.1	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	20997	10.0	7.73	
106 2-Nitropropane	43	6.519	6.525	-0.006	98	5411	20.0	13.7	
59 2-Chloroethyl vinyl ether	63		6.622				ND	ND	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	22186	10.0	6.83	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.933	0.006	98	29507	20.0	17.2	
62 Toluene	92	7.110	7.116	-0.006	96	42897	10.0	6.85	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	96	18468	10.0	6.16	
64 Ethyl methacrylate	69	7.463	7.464	-0.001	91	16492	10.0	6.74	
65 1,1,2-Trichloroethane	83	7.531	7.531	-0.001	96	11785	10.0	7.88	
66 Tetrachloroethene	166	7.695	7.689	0.006	91	13562	10.0	5.26	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	25394	10.0	7.93	
68 2-Hexanone	43	7.823	7.823	0.000	97	18484	20.0	16.5	
69 Chlorodibromomethane	129	7.945	7.945	0.000	91	13334	10.0	6.68	
109 n-Butyl acetate	43	7.976	7.976	0.000	97	21810	10.0	7.41	
70 Ethylene Dibromide	107	8.061	8.061	0.000	97	13534	10.0	7.34	
71 Chlorobenzene	112	8.616	8.616	0.000	90	45354	10.0	7.19	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	89	14434	10.0	7.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.750	8.750	0.000	99	76477	10.0	6.93	
74 m-Xylene & p-Xylene	106	8.884	8.890	-0.006	97	32178	10.0	7.49	
75 o-Xylene	106	9.329	9.329	0.000	96	29314	10.0	7.17	
76 Styrene	104	9.347	9.347	0.000	94	45961	10.0	6.79	
77 Bromoform	173	9.530	9.530	0.000	92	6699	10.0	6.10	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	65284	10.0	6.14	
79 Bromobenzene	156	10.085	10.085	0.000	99	18302	10.0	7.09	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	17365	10.0	8.78	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	91	5758	10.0	8.70	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	65	3723	10.0	6.76	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	79422	10.0	6.48	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	54593	10.0	7.61	
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	63999	10.0	7.58	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	57652	10.0	6.79	
87 tert-Butylbenzene	119	10.829	10.835	-0.006	94	45147	10.0	6.14	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	99	61496	10.0	7.04	
89 sec-Butylbenzene	105	11.097	11.097	0.000	96	59944	10.0	5.73	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.000	95	33633	10.0	7.32	
91 4-Isopropyltoluene	119	11.274	11.280	-0.006	76	53355	10.0	6.08	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	34268	10.0	7.32	
110 1,2,3-Trimethylbenzene	105	11.383	11.384	-0.001	99	61999	10.0	7.43	
113 Benzyl chloride	126	11.469	11.475	-0.006	99	2339	10.0	3.08	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	94	31933	10.0	7.25	
94 n-Butylbenzene	91	11.767	11.768	-0.001	98	43687	10.0	5.65	
95 1,2-Dibromo-3-Chloropropane	75	12.682	12.676	0.006	72	2230	10.0	7.95	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	17150	10.0	6.38	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	95	13102	10.0	5.83	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	5813	10.0	5.31	
98 Naphthalene	128	13.974	13.975	0.000	98	28402	10.0	5.80	
99 1,2,3-Trichlorobenzene	180	14.273	14.273	0.000	94	10522	10.0	5.87	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
133 Isooctane	57		0.000				ND	ND	
129 Pentachloroethane	167		0.000					ND	
138 Dodecane	57		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
139 C6-C12	1		0.000					ND	
136 n-Decane	57		0.000					ND	
131 1-Chlorohexane	55		0.000				ND	ND	
137 C6-C10	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43	4.653	4.690	-0.037	1	105		NR	
S 101 1,2-Dichloroethene, Total	1				0		20.0	4070.6	E
S 100 Xylenes, Total	1				0		20.0	14.7	
S 102 1,3-Dichloropropene, Total	1				0		20.0	13.0	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
ND - Not Detected or Marked ND
E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

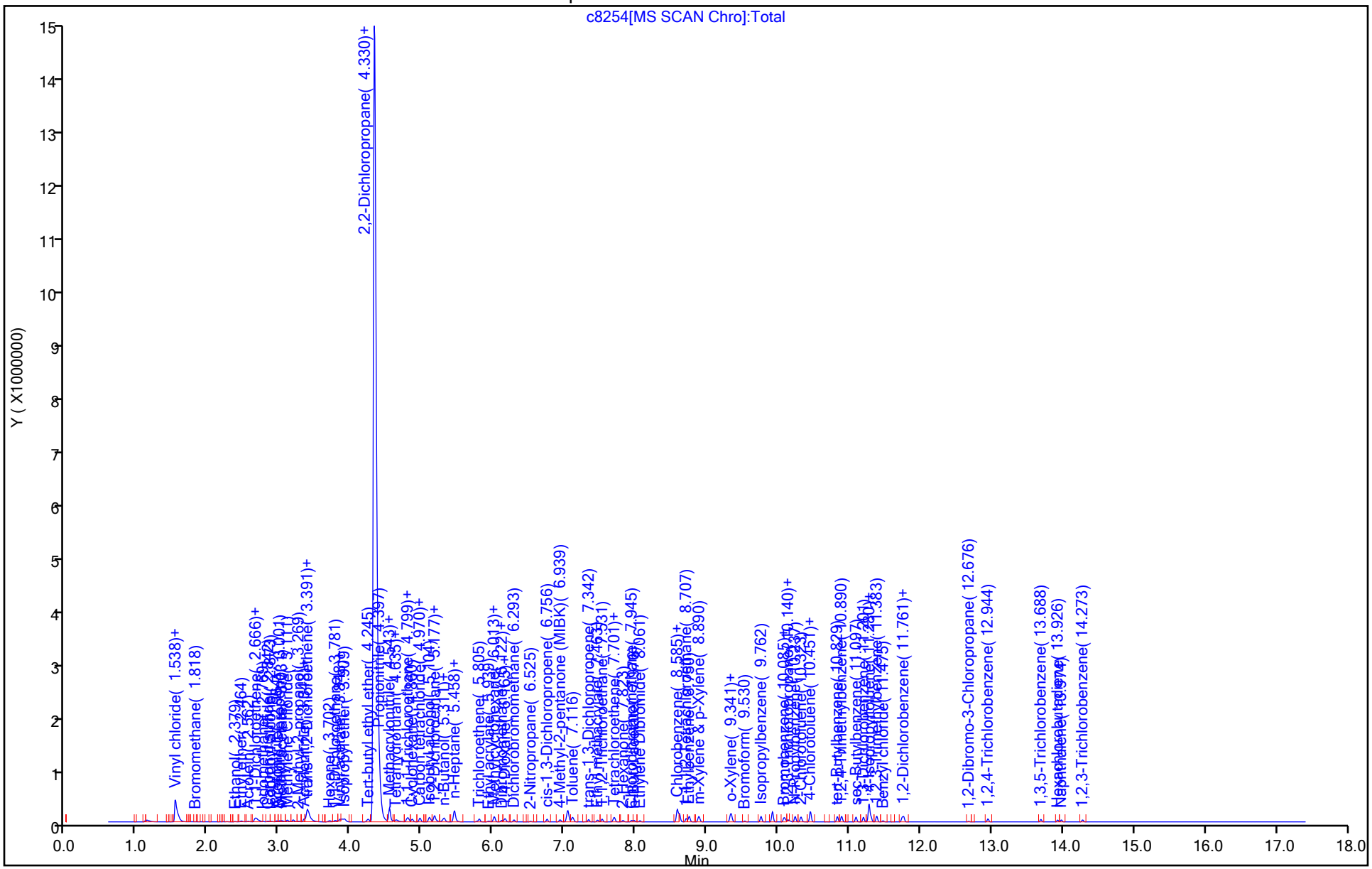
Reagents:

VV_I_MOSOL_00219	Amount Added:	4.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 19-Nov-2020 06:55:10 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8254.D				
Injection Date:	18-Nov-2020 16:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-A-10 MSD			Worklist Smp#:	30
Client ID:	GW-110920-BE-028				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8254.D
Lims ID: 240-140187-A-10 MSD
Client ID: GW-110920-BE-028
Sample Type: MSD
Inject. Date: 18-Nov-2020 16:17:30 ALS Bottle#: 32 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062692-030
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 19-Nov-2020 06:54:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: nelsonsa Date: 19-Nov-2020 06:52:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.0	105.98
$ 6 Toluene-d8 (Surr)	50.0	52.5	104.92
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	97.96

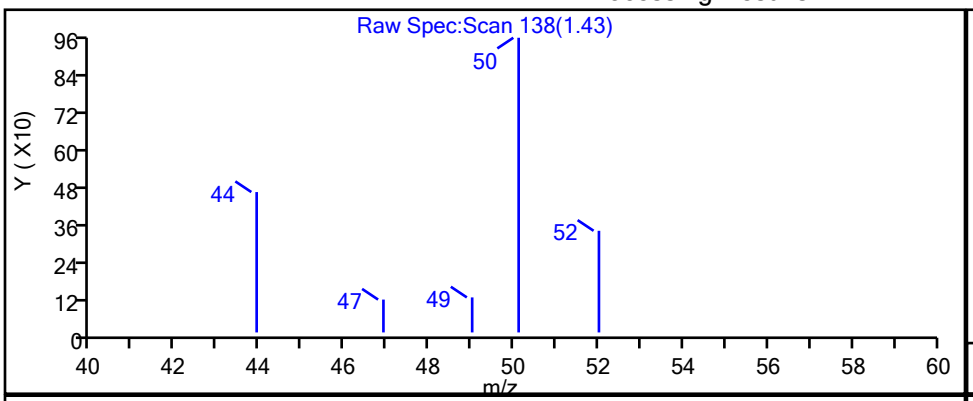
User Disabled Compound Report

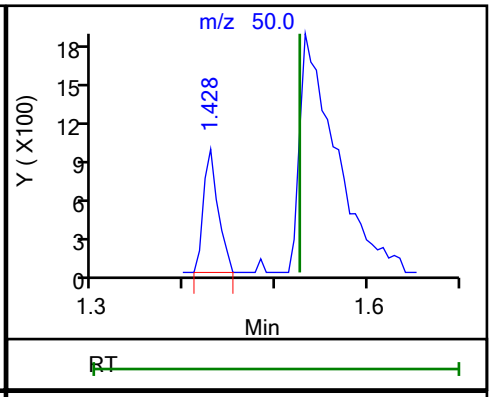
Eurofins TestAmerica, Cedar Falls

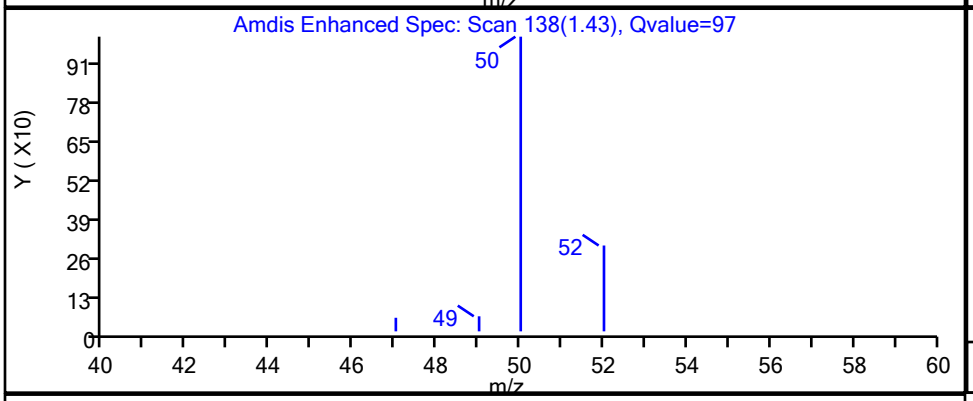
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8254.D				
Injection Date:	18-Nov-2020 16:17:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10 MSD				
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	32	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

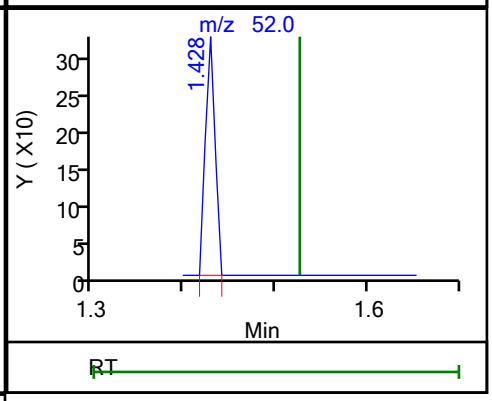
10 Chloromethane, CAS: 74-87-3

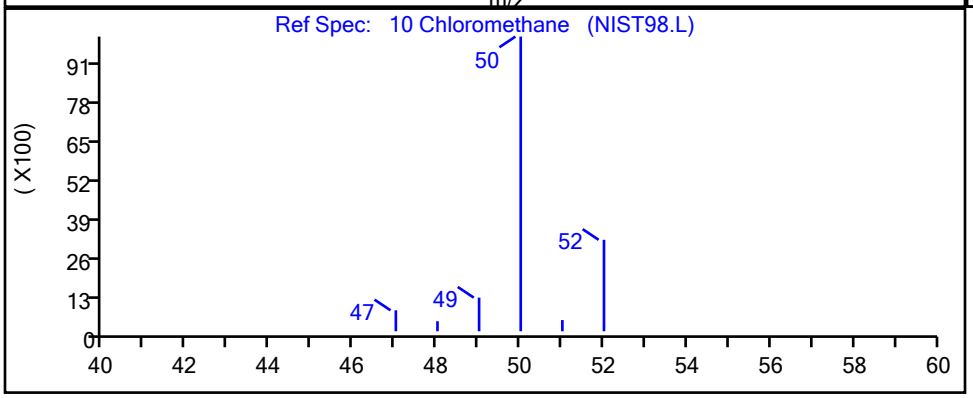
Processing Results











RT	Mass	Response	Amount
1.43	50.00	1057	0.393651
1.43	52.00	241	

Reviewer: nelsonsa, 19-Nov-2020 06:50:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

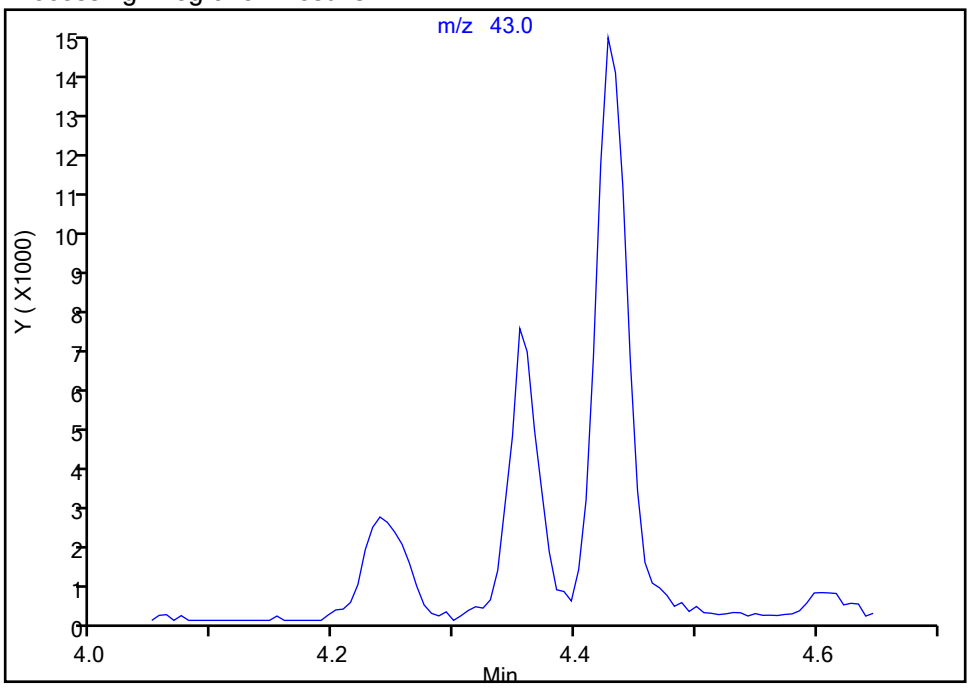
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201117-62692.b\c8254.D				
Injection Date:	18-Nov-2020 16:17:30	Instrument ID:	Calvin		
Lims ID:	240-140187-A-10 MSD				
Client ID:	GW-110920-BE-028				
Operator ID:	sjn	ALS Bottle#:	32	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

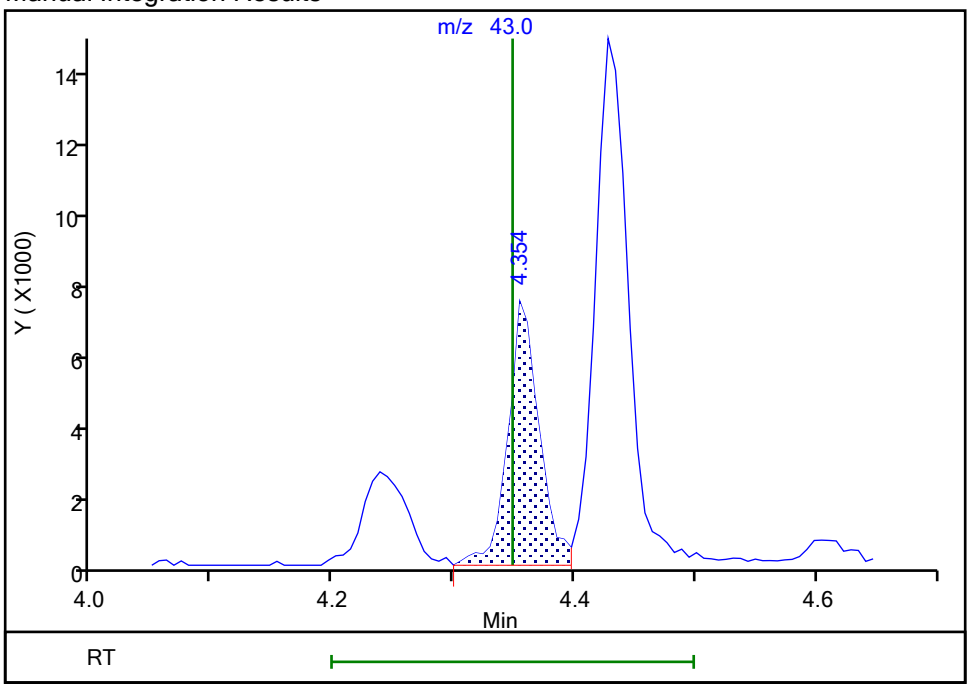
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 13123
Amount: 17.585970
Amount Units: ug/l



Reviewer: nelsonsa, 19-Nov-2020 06:51:34
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-110920-BE-028 MSD Lab Sample ID: 240-140187-10 MSD

Matrix: Water Lab File ID: c8315.D

Analysis Method: 8260D Date Collected: 11/09/2020 13:03

Sample wt/vol: 5(mL) Date Analyzed: 11/19/2020 16:04

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	4810		50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	105		79-120
1868-53-7	Dibromofluoromethane (Surr)	107		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8315.D
Lims ID: 240-140187-B-10 MSD
Client ID: GW-110920-BE-028
Sample Type: MSD
Inject. Date: 19-Nov-2020 16:04:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-030
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 14:09:24 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 20-Nov-2020 14:09:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.379	3.373	0.006	0	54	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	171085	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.116	-0.006	33	6159	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	123191	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	76	59133	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	41172	1.00	53.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	165320	1.00	52.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	84	46839	1.00	48.4	
$ 8 BFB	95	9.926	9.920	0.006	84	62504		NR	
9 Dichlorodifluoromethane	85		1.288					ND	
10 Chloromethane	50		1.526					ND	U
11 Vinyl chloride	62	1.538	1.532	0.006	98	12522		3.97	
12 Butadiene	54	1.568	1.568	0.000	93	980		0.3073	
13 Bromomethane	94	1.812	1.837	-0.025	94	2422		3.14	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45	2.379	2.373	0.006	99	12476	16.0	838.6	a
18 Ethyl ether	59	2.464	2.471	-0.006	97	30799	0.4000	21.3	
19 Acrolein	56	2.562	2.562	0.000	97	21410	1.91	97.3	
20 1,1-Dichloroethene	96	2.653	2.659	-0.006	93	37816	0.4000	21.5	
21 112TCTFE	101	2.678	2.684	-0.006	95	41358	0.4000	23.7	
22 Acetone	43	2.714	2.714	0.000	97	23823	0.8000	51.6	M
23 Iodomethane	142	2.775	2.775	0.000	98	19604	0.4000	12.2	M
24 Carbon disulfide	76	2.836	2.842	-0.006	99	119258	0.4000	22.9	
105 Isopropyl alcohol	45	2.891	2.885	0.006	94	17353	4.00	215.3	M
118 Acetonitrile	40	2.964	2.964	0.000	98	32718	4.00	198.0	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	79	21074	0.4000	18.5	
26 Methyl acetate	43	3.038	3.037	0.001	99	51418	0.8000	42.6	
27 Methylene Chloride	84	3.111	3.111	0.000	98	40624	0.4000	19.5	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	92	18483	4.00	162.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53	3.348	3.348	0.000	99	135692	4.00	219.6	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	94	43790	0.4000	21.8	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	98348	0.4000	21.1	
31 Hexane	57	3.702	3.702	0.000	94	60942	0.4000	22.4	
32 1,1-Dichloroethane	63	3.781	3.781	0.000	98	79685	0.4000	21.2	
33 Vinyl acetate	86	3.848	3.848	0.000	98	14838	0.8000	39.8	
34 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	96	91825	0.4000	25.2	
36 Isopropyl ether	87	3.909	3.909	0.000	96	37570	0.4000	20.5	
37 Tert-butyl ethyl ether	59	4.238	4.238	0.000	97	123620	0.4000	21.0	
38 2,2-Dichloropropane	77	4.330	4.324	0.006	80	49004	0.4000	16.5	
39 cis-1,2-Dichloroethene	96	4.330	4.330	0.000	86	220981	0.4000	96.2	
40 2-Butanone (MEK)	43	4.354	4.348	0.006	100	32812	0.8000	45.8	
41 Propionitrile	54	4.397	4.397	0.000	99	50465	4.00	205.4	
104 Ethyl acetate	61	4.403	4.427	-0.024	100	19905	0.8000	70.8	M
43 Methacrylonitrile	67	4.543	4.543	0.000	95	148465	4.00	203.7	
42 Chlorobromomethane	128	4.549	4.549	0.000	43	19151	0.4000	20.0	
44 Tetrahydrofuran	71	4.604	4.604	0.000	86	6373	0.8000	37.4	
45 Chloroform	83	4.635	4.641	-0.006	96	79523	0.4000	20.2	
46 1,1,1-Trichloroethane	97	4.805	4.805	0.000	97	70142	0.4000	21.7	
47 Cyclohexane	56	4.860	4.866	-0.006	96	91253	0.4000	23.7	
48 Carbon tetrachloride	117	4.964	4.970	-0.006	95	57428	0.4000	20.6	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	90	64402	0.4000	21.3	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	25714	10.0	422.0	
50 Benzene	78	5.177	5.177	0.000	98	180140	0.4000	20.4	
51 1,2-Dichloroethane	62	5.171	5.177	-0.006	95	68356	0.4000	24.4	
116 n-Butanol	56	5.299	5.299	0.000	57	45381	10.0	528.1	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	90	94805	0.4000	17.9	
53 n-Heptane	43	5.476	5.482	-0.006	96	58853	0.4000	21.4	
54 Trichloroethene	95	5.805	5.805	0.000	96	47151	0.4000	20.9	
117 Ethyl acrylate	55	5.939	5.939	0.000	98	44826	0.4000	21.0	
114 Methylcyclohexane	83	6.013	6.013	0.001	96	73478	0.4000	19.8	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	88	45494	0.4000	21.1	
56 Dibromomethane	93	6.122	6.122	0.000	94	22862	0.4000	19.9	
115 1,4-Dioxane	58	6.159	6.165	-0.006	33	5561	8.00	0	
57 Methyl methacrylate	69	6.165	6.171	-0.006	91	48623	0.8000	39.6	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	53287	0.4000	20.4	
106 2-Nitropropane	43	6.525	6.525	0.000	99	13403	0.8000	35.4	
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	22948	0.4000	19.2	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	89	58851	0.4000	18.9	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	68125	0.8000	41.3	
62 Toluene	92	7.116	7.116	0.000	97	118780	0.4000	19.8	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	98	48767	0.4000	16.3	
64 Ethyl methacrylate	69	7.470	7.463	0.007	91	40930	0.4000	17.4	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	96	28104	0.4000	19.6	
66 Tetrachloroethene	166	7.689	7.695	-0.006	91	44984	0.4000	18.2	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	61974	0.4000	20.1	
68 2-Hexanone	43	7.823	7.823	0.000	97	44750	0.8000	41.5	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	33528	0.4000	17.5	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	53898	0.4000	19.1	
70 Ethylene Dibromide	107	8.061	8.061	0.000	99	32286	0.4000	18.2	
71 Chlorobenzene	112	8.616	8.616	0.000	89	116025	0.4000	18.8	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	36504	0.4000	18.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.750	8.756	-0.006	99	223505	0.4000	20.7	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	97	88322	0.4000	21.0	
75 o-Xylene	106	9.335	9.335	0.000	96	78222	0.4000	19.5	
76 Styrene	104	9.347	9.347	0.000	89	118820	0.4000	17.9	
77 Bromoform	173	9.530	9.530	0.000	92	16360	0.4000	15.2	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	200742	0.4000	19.3	
79 Bromobenzene	156	10.085	10.085	0.000	99	44028	0.4000	17.4	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	37196	0.4000	19.1	
81 1,2,3-Trichloropropane	110	10.146	10.140	0.006	89	12976	0.4000	20.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	72	9370	0.4000	17.4	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	235263	0.4000	19.6	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	143088	0.4000	20.3	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	163006	0.4000	19.7	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	93	161596	0.4000	19.4	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	135110	0.4000	18.7	
88 1,2,4-Trimethylbenzene	105	10.890	10.896	-0.006	98	177868	0.4000	20.8	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	194764	0.4000	19.0	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.001	96	81342	0.4000	18.1	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	94	163115	0.4000	18.5	
92 1,4-Dichlorobenzene	146	11.304	11.310	-0.006	93	84590	0.4000	18.0	
110 1,2,3-Trimethylbenzene	105	11.383	11.390	-0.007	100	157300	0.4000	18.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	5562	0.4000	7.30	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	94	78023	0.4000	17.7	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	143513	0.4000	18.5	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	70	5569	0.4000	19.8	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	40729	0.4000	15.1	
112 1,3,5-Trichlorobenzene	180	13.688	13.694	-0.006	95	31811	0.4000	14.1	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	96	19754	0.4000	18.0	
98 Naphthalene	128	13.980	13.980	0.000	97	73949	0.4000	15.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	25475	0.4000	14.2	
124 Acetaldehyde TIC	1		0.000					ND	
139 C6-C12	1		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
131 1-Chlorohexane	55		0.000				ND	ND	
137 C6-C10	1		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
133 Isooctane	57		0.000				ND	ND	
136 n-Decane	57		0.000					ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
128 1,1-Dichloroacetone TIC	43	4.696	4.690	0.006	1	191			NR
S 101 1,2-Dichloroethene, Total	1				0		0.8000	118.0	
S 100 Xylenes, Total	1				0		0.8000	40.5	
S 102 1,3-Dichloropropene, Total	1				0		0.8000	35.2	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

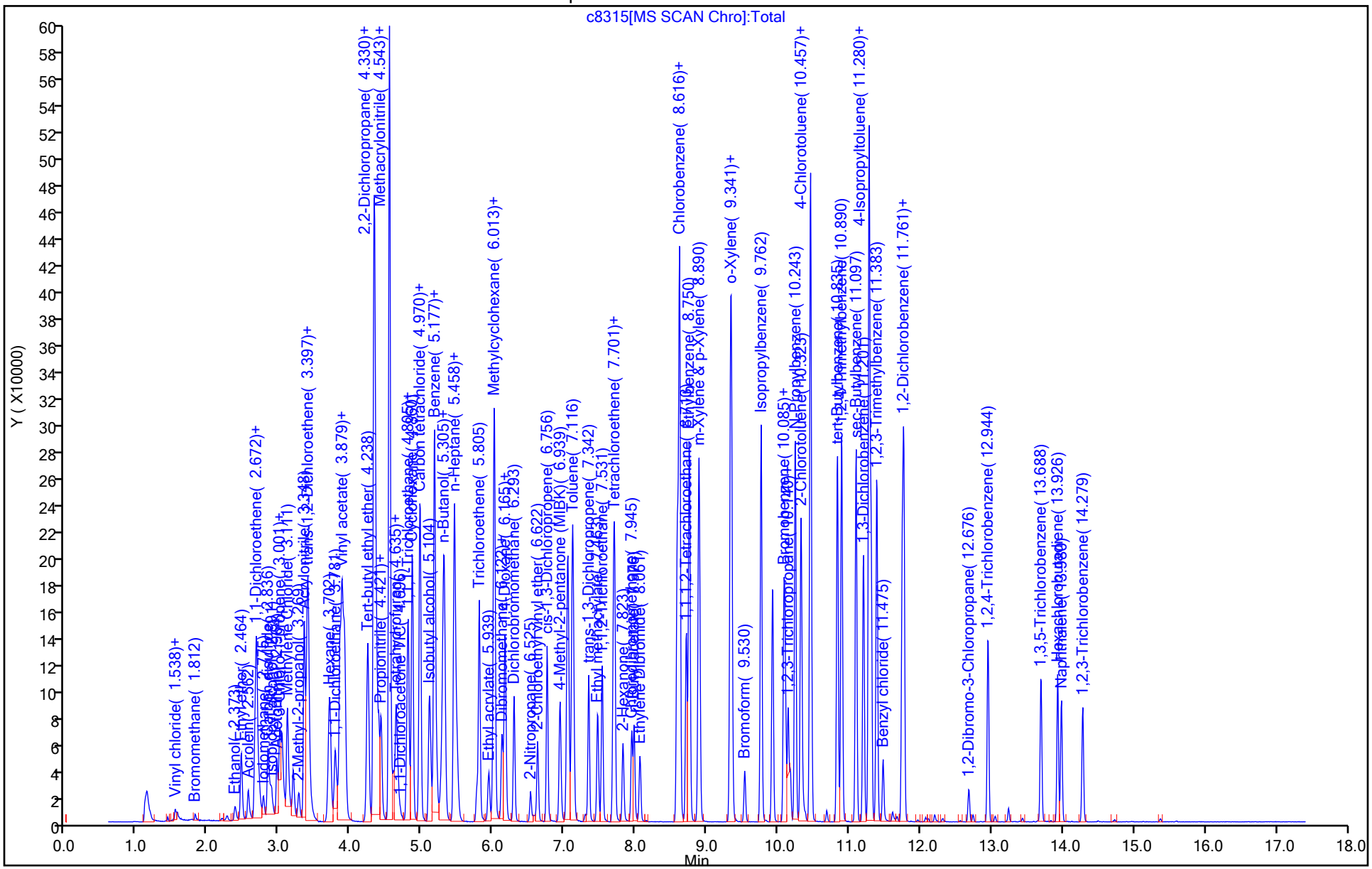
Reagents:

VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 14:10:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8315.D				
Injection Date:	19-Nov-2020 16:04:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140187-B-10 MSD			Worklist Smp#:	30
Client ID:	GW-110920-BE-028				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	30
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\c8315.D
Lims ID: 240-140187-B-10 MSD
Client ID: GW-110920-BE-028
Sample Type: MSD
Inject. Date: 19-Nov-2020 16:04:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 310-0062729-030
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201118-62729.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 14:09:24 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: nelsonsa Date: 20-Nov-2020 14:09:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.7	5369.51
$ 6 Toluene-d8 (Surr)	50.0	52.3	5234.18
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.4	4841.63

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 MSD Lab Sample ID: 240-140187-18 MSD

Matrix: Water Lab File ID: c8329.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 04:58

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	384		20	3.8
79-34-5	1,1,2,2-Tetrachloroethane	347		10	2.6
79-00-5	1,1,2-Trichloroethane	348		10	4.4
75-34-3	1,1-Dichloroethane	417		20	4.4
75-35-4	1,1-Dichloroethene	371		40	11
107-06-2	1,2-Dichloroethane	435		20	7.8
78-87-5	1,2-Dichloropropane	358		20	5.4
591-78-6	2-Hexanone	749		200	40
67-64-1	Acetone	806		200	62
71-43-2	Benzene	358		10	4.4
75-25-2	Bromoform	282		100	16
74-83-9	Bromomethane	63.2		40	16
75-15-0	Carbon disulfide	390		20	9.0
56-23-5	Carbon tetrachloride	365		40	13
108-90-7	Chlorobenzene	331		20	8.0
75-00-3	Chloroethane	80	U	80	16
67-66-3	Chloroform	358		60	26
74-87-3	Chloromethane	60	U	60	12
156-59-2	cis-1,2-Dichloroethene	2350		20	4.2
10061-01-5	cis-1,3-Dichloropropene	341		10	4.0
75-27-4	Dichlorobromomethane	350		20	7.8
100-41-4	Ethylbenzene	350		20	6.2
78-93-3	2-Butanone (MEK)	807		200	42
108-10-1	4-Methyl-2-pentanone (MIBK)	754		200	42
75-09-2	Methylene Chloride	327		20	16
100-42-5	Styrene	320		20	7.4
127-18-4	Tetrachloroethene	319		20	9.6
108-88-3	Toluene	327		20	8.6
156-60-5	trans-1,2-Dichloroethene	376		20	5.4
10061-02-6	trans-1,3-Dichloropropene	300		10	4.4
79-01-6	Trichloroethene	474		20	8.6
75-01-4	Vinyl chloride	609		20	3.6
1330-20-7	Xylenes, Total	654		60	8.0
124-48-1	Chlorodibromomethane	312		40	2.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Client Sample ID: GW-111120-BE-036 MSD Lab Sample ID: 240-140187-18 MSD

Matrix: Water Lab File ID: c8329.D

Analysis Method: 8260D Date Collected: 11/11/2020 12:25

Sample wt/vol: 5(mL) Date Analyzed: 11/20/2020 04:58

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 299826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	105		79-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8329.D
Lims ID: 240-140187-C-18 MSD
Client ID:
Sample Type: MSD
Inject. Date: 20-Nov-2020 04:58:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062748-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:07:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.391	3.391	0.000	0	255	1000.0	1000.0	
* 122 Fluorobenzene	96	5.452	5.458	-0.006	98	194107	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	7022	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	138571	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.280	0.000	84	65616	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	92	47121	2.50	54.2	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	186839	2.50	52.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	51806	2.50	48.3	
$ 8 BFB	95	9.920	9.920	0.000	81	71603		NR	
9 Dichlorodifluoromethane	85		1.288					ND	
10 Chloromethane	50		1.526					ND	U
11 Vinyl chloride	62	1.538	1.532	0.006	98	108873		30.4	
12 Butadiene	54	1.562	1.568	-0.006	90	1056		0.2918	
13 Bromomethane	94	1.818	1.837	-0.019	93	2768		3.16	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45	2.373	2.373	0.000	98	13005	40.0	770.4	
18 Ethyl ether	59	2.458	2.464	-0.006	95	30383	1.00	18.5	
19 Acrolein	56	2.562	2.562	0.000	97	16529	4.76	66.2	
20 1,1-Dichloroethene	96	2.654	2.659	-0.005	94	37054	1.00	18.6	
21 112TCTFE	101	2.672	2.684	-0.012	96	41542	1.00	21.0	
22 Acetone	43	2.708	2.714	-0.006	98	21474	2.00	40.3	
23 Iodomethane	142	2.776	2.775	0.001	99	23144	1.00	12.7	M
24 Carbon disulfide	76	2.836	2.842	-0.006	99	115404	1.00	19.5	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	18389	10.0	201.1	M
118 Acetonitrile	40	2.958	2.964	-0.006	98	35244	10.0	188.0	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	79	17434	1.00	13.5	
26 Methyl acetate	43	3.038	3.037	0.001	99	54370	2.00	39.7	
27 Methylene Chloride	84	3.111	3.111	0.000	97	38637	1.00	16.3	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	19904	10.0	153.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53	3.342	3.348	-0.006	99	138376	10.0	197.4	
28 trans-1,2-Dichloroethene	96	3.385	3.391	-0.006	94	42787	1.00	18.8	
29 Methyl tert-butyl ether	73	3.403	3.403	0.000	98	100767	1.00	19.1	
31 Hexane	57	3.702	3.708	-0.006	95	70595	1.00	22.9	
32 1,1-Dichloroethane	63	3.781	3.787	-0.006	97	88971	1.00	20.8	
33 Vinyl acetate	86	3.848	3.848	0.000	98	15495	2.00	36.6	
34 2-Chloro-1,3-butadiene	53	3.873	3.879	-0.006	96	89669	1.00	21.7	
36 Isopropyl ether	87	3.903	3.909	-0.006	95	37733	1.00	18.1	
37 Tert-butyl ethyl ether	59	4.239	4.238	0.001	97	123804	1.00	18.5	
38 2,2-Dichloropropane	77	4.324	4.330	-0.006	84	56164	1.00	16.7	
39 cis-1,2-Dichloroethene	96	4.330	4.336	-0.006	85	306705	1.00	117.7	
40 2-Butanone (MEK)	43	4.348	4.354	-0.006	99	32821	2.00	40.4	
41 Propionitrile	54	4.391	4.397	-0.006	98	50728	10.0	182.0	
104 Ethyl acetate	61	4.409	4.427	-0.018	76	22481	2.00	70.4	M
43 Methacrylonitrile	67	4.543	4.543	0.000	96	150570	10.0	182.1	
42 Chlorobromomethane	128	4.543	4.549	-0.006	86	18654	1.00	17.1	
44 Tetrahydrofuran	71	4.604	4.604	0.000	81	6932	2.00	35.8	
45 Chloroform	83	4.635	4.641	-0.006	98	80080	1.00	17.9	
46 1,1,1-Trichloroethane	97	4.806	4.812	-0.006	97	70269	1.00	19.2	
47 Cyclohexane	56	4.860	4.866	-0.006	96	89733	1.00	20.5	
48 Carbon tetrachloride	117	4.964	4.970	-0.006	96	57822	1.00	18.2	
49 1,1-Dichloropropene	75	4.976	4.976	0.000	93	63986	1.00	18.7	
108 Isobutyl alcohol	43	5.117	5.122	-0.006	93	26902	25.0	389.1	
51 1,2-Dichloroethane	62	5.171	5.177	-0.006	97	69034	1.00	21.7	
50 Benzene	78	5.177	5.177	0.000	98	179468	1.00	17.9	
53 n-Heptane	43	5.306	5.311	-0.005	69	73381	1.00	23.5	
52 Tert-amyl methyl ether	73	5.306	5.311	-0.005	90	95788	1.00	15.9	
116 n-Butanol	56	5.482	5.482	0.000	63	23988	25.0	246.0	a
54 Trichloroethene	95	5.799	5.805	-0.006	95	60736	1.00	23.7	
117 Ethyl acrylate	55	5.940	5.939	0.001	99	46601	1.00	19.2	
114 Methylcyclohexane	83	6.013	6.013	0.001	95	76926	1.00	18.3	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	86	43887	1.00	17.9	
56 Dibromomethane	93	6.122	6.122	0.000	93	23300	1.00	17.9	
115 1,4-Dioxane	58	6.171	6.165	0.006	32	5784	20.0	0	
57 Methyl methacrylate	69	6.171	6.165	0.006	91	48342	2.00	34.7	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	51771	1.00	17.5	
106 2-Nitropropane	43	6.525	6.525	0.000	96	14475	2.00	33.7	
59 2-Chloroethyl vinyl ether	63	6.622	6.628	-0.006	94	24215	1.00	17.8	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	91	60397	1.00	17.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.939	0.000	99	70529	2.00	37.7	
62 Toluene	92	7.116	7.116	0.000	97	111546	1.00	16.4	
63 trans-1,3-Dichloropropene	75	7.342	7.342	0.000	97	50764	1.00	15.0	
64 Ethyl methacrylate	69	7.470	7.470	0.000	91	42302	1.00	15.9	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	96	28318	1.00	17.4	
66 Tetrachloroethene	166	7.695	7.695	0.000	92	44875	1.00	16.0	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	97	61637	1.00	17.7	
68 2-Hexanone	43	7.823	7.823	0.000	98	45785	2.00	37.4	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	33876	1.00	15.6	
109 n-Butyl acetate	43	7.976	7.976	0.000	98	53382	1.00	16.7	
70 Ethylene Dibromide	107	8.061	8.061	0.000	97	32906	1.00	16.4	
71 Chlorobenzene	112	8.616	8.616	0.000	89	114864	1.00	16.5	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.713	-0.006	90	35991	1.00	16.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91	8.756	8.756	0.000	99	212564	1.00	17.5	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	78866	1.00	16.7	
75 o-Xylene	106	9.335	9.335	0.000	99	72417	1.00	16.1	
76 Styrene	104	9.347	9.347	0.000	91	119348	1.00	16.0	
77 Bromoform	173	9.530	9.536	-0.006	93	17046	1.00	14.1	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	198473	1.00	16.9	
79 Bromobenzene	156	10.085	10.085	0.000	99	43067	1.00	15.1	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	37920	1.00	17.4	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	13188	1.00	18.1	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	64	9611	1.00	15.8	
83 N-Propylbenzene	91	10.237	10.243	-0.006	99	236281	1.00	17.5	
84 2-Chlorotoluene	91	10.323	10.323	0.000	94	137248	1.00	17.3	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	163888	1.00	17.6	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	158133	1.00	16.9	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	132990	1.00	16.4	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	156256	1.00	16.2	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	197115	1.00	17.1	
90 1,3-Dichlorobenzene	146	11.201	11.201	0.001	96	81351	1.00	16.1	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	94	162912	1.00	16.7	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	82677	1.00	15.9	
110 1,2,3-Trimethylbenzene	105	11.384	11.383	0.001	100	152487	1.00	16.4	
113 Benzyl chloride	126	11.475	11.475	0.000	99	7915	1.00	9.36	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	94	76600	1.00	15.6	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	145130	1.00	16.9	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	72	5969	1.00	19.1	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	41858	1.00	14.0	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	94	32736	1.00	13.1	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	93	19491	1.00	16.0	
98 Naphthalene	128	13.981	13.980	0.001	98	71755	1.00	13.2	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	25864	1.00	13.0	
136 n-Decane	57		0.000					ND	
133 Isooctane	57		0.000				ND	ND	
123 Cyclohexanone	55		0.000					ND	
137 C6-C10	1		0.000					ND	
131 1-Chlorohexane	55		0.000				ND	ND	
129 Pentachloroethane	167		0.000					ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
124 Acetaldehyde TIC	1		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
139 C6-C12	1		0.000					ND	
128 1,1-Dichloroacetone TIC	43	4.696	4.690	0.006	28	307			NR
S 101 1,2-Dichloroethene, Total	1				0		2.00	136.5	
S 100 Xylenes, Total	1				0		2.00	32.7	
S 102 1,3-Dichloropropene, Total	1				0		2.00	32.0	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Nov-2020 07:10:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8329.D

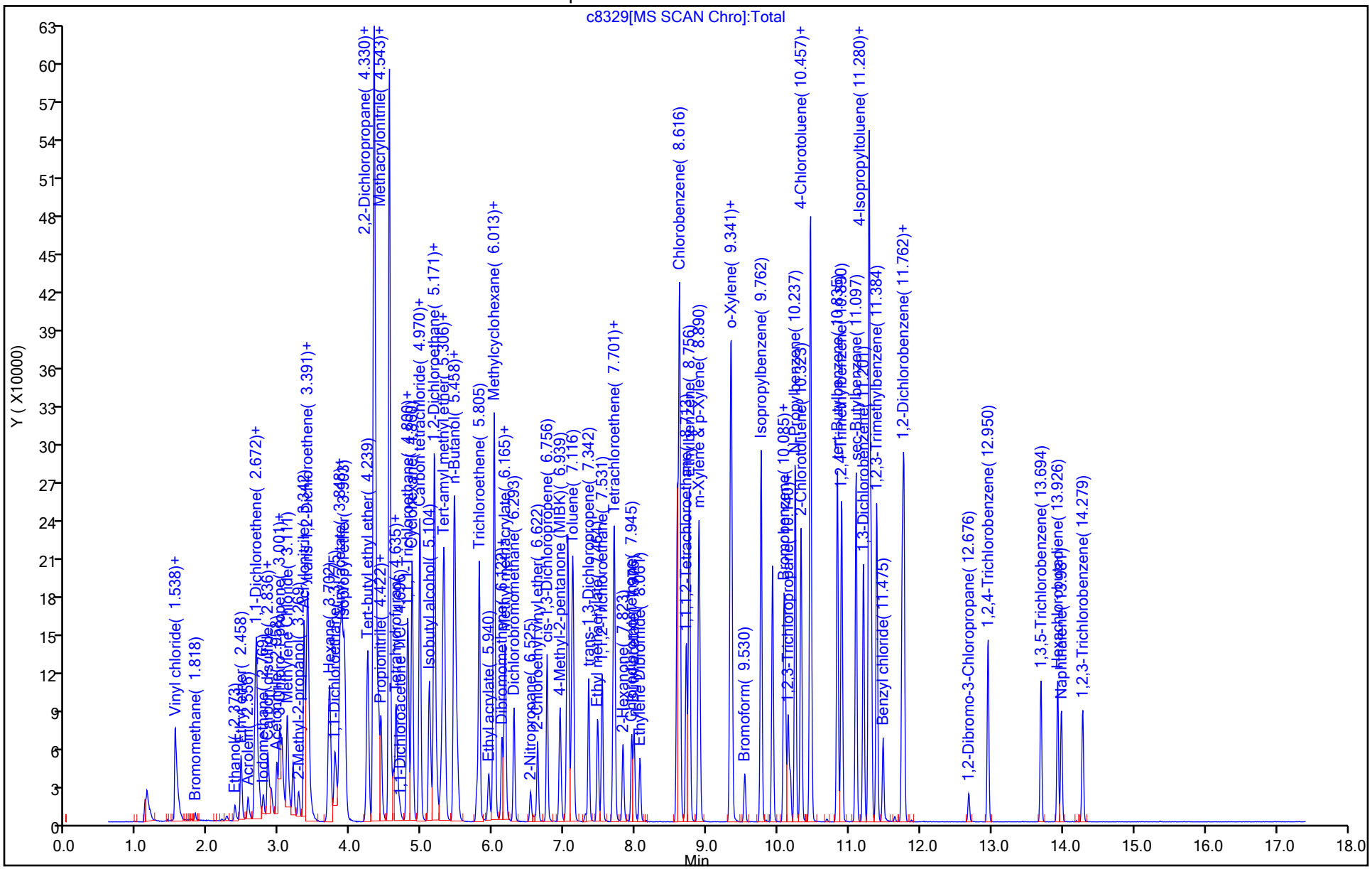
Injection Date: 20-Nov-2020 04:58:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: 240-140187-C-18 MSD Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 20.0000 ALS Bottle#: 14

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8329.D
Lims ID: 240-140187-C-18 MSD
Client ID:
Sample Type: MSD
Inject. Date: 20-Nov-2020 04:58:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 310-0062748-014
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 20-Nov-2020 07:09:49 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: nelsonsa Date: 20-Nov-2020 07:07:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	54.2	2166.60
$ 6 Toluene-d8 (Surr)	50.0	52.6	2103.57
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.3	1930.39

Report Date: 20-Nov-2020 07:10:21 Chrom Revision: 2.3 12-Nov-2020 21:52:08

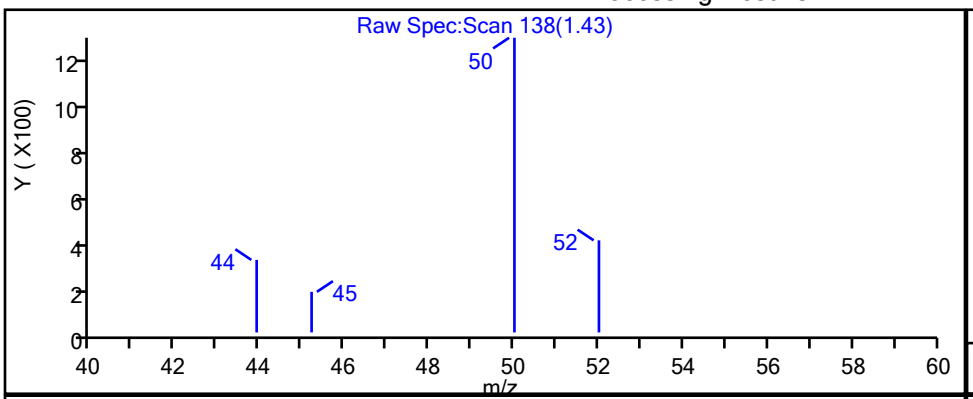
User Disabled Compound Report

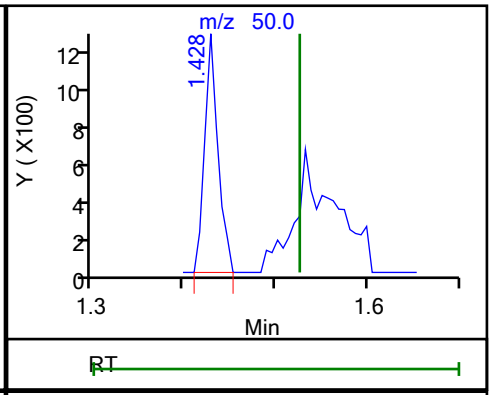
Eurofins TestAmerica, Cedar Falls

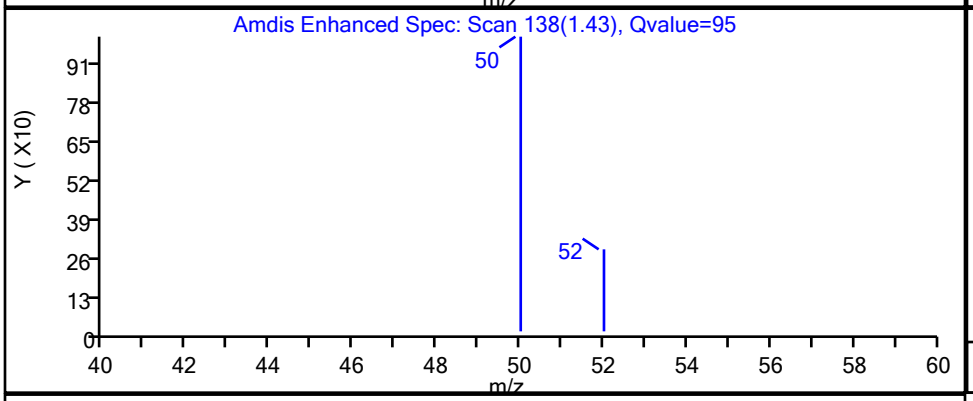
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201119-62748.b\c8329.D				
Injection Date:	20-Nov-2020 04:58:30	Instrument ID:	Calvin		
Lims ID:	240-140187-C-18 MSD				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

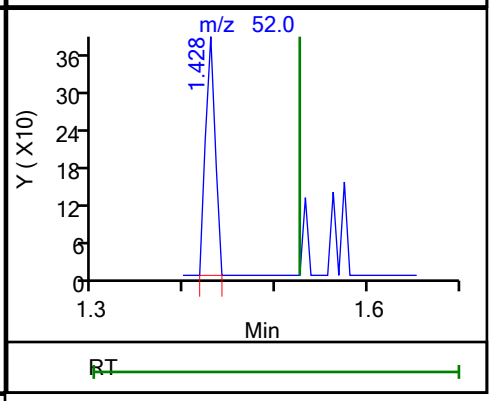
10 Chloromethane, CAS: 74-87-3

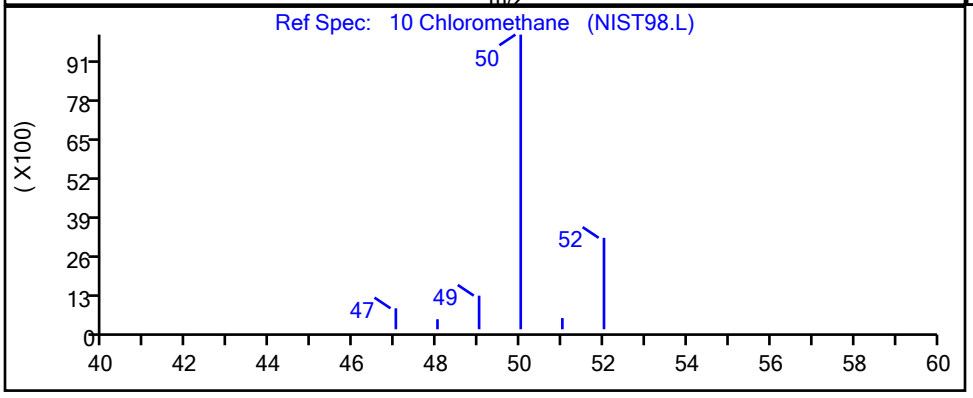
Processing Results











RT	Mass	Response	Amount
1.43	50.00	1242	0.424505
1.43	52.00	281	

Reviewer: nelsonsa, 20-Nov-2020 07:07:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 10/01/2020 15:15

Analysis Batch Number: 293913 End Date: 10/02/2020 06:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 310-293913/1		10/01/2020 15:15	1		DB-624 0.18(mm)
BFB 310-293913/2		10/01/2020 15:39	1		DB-624 0.18(mm)
STD1 310-293913/3 IC		10/01/2020 16:04	1		DB-624 0.18(mm)
STD2 310-293913/4 IC		10/01/2020 16:28	1		DB-624 0.18(mm)
STD3 310-293913/5 IC		10/01/2020 16:52	1		DB-624 0.18(mm)
STD4 310-293913/6 IC		10/01/2020 17:17	1		DB-624 0.18(mm)
STD5 310-293913/7 IC		10/01/2020 17:41	1		DB-624 0.18(mm)
STD6 310-293913/8 IC		10/01/2020 18:05	1		DB-624 0.18(mm)
STD7 310-293913/9 IC		10/01/2020 18:30	1		DB-624 0.18(mm)
ICIS 310-293913/10		10/01/2020 18:54	1		DB-624 0.18(mm)
STD9 310-293913/11 IC		10/01/2020 19:19	1		DB-624 0.18(mm)
STD10 310-293913/12 IC		10/01/2020 19:43	1		DB-624 0.18(mm)
STD11 310-293913/13 IC		10/01/2020 20:07	1		DB-624 0.18(mm)
STD12 310-293913/14 IC		10/01/2020 20:32	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 20:56	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 21:20	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 21:44	1		DB-624 0.18(mm)
ICV 310-293913/18		10/01/2020 22:08	1		DB-624 0.18(mm)
ICV 310-293913/19		10/01/2020 22:33	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 22:57	1		DB-624 0.18(mm)
BFB 310-293913/22		10/01/2020 23:21	1		DB-624 0.18(mm)
BFB 310-293913/23		10/01/2020 23:45	1	c5281.D	DB-624 0.18(mm)
STD1 310-293913/24 IC		10/02/2020 00:09	1	c5282.D	DB-624 0.18(mm)
STD2 310-293913/25 IC		10/02/2020 00:33	1	c5283.D	DB-624 0.18(mm)
STD3 310-293913/26 IC		10/02/2020 00:57	1	c5284.D	DB-624 0.18(mm)
STD4 310-293913/27 IC		10/02/2020 01:21	1	c5285.D	DB-624 0.18(mm)
STD5 310-293913/28 IC		10/02/2020 01:45	1	c5286.D	DB-624 0.18(mm)
STD6 310-293913/29 IC		10/02/2020 02:09	1	c5287.D	DB-624 0.18(mm)
STD7 310-293913/30 IC		10/02/2020 02:33	1	c5288.D	DB-624 0.18(mm)
STD8 310-293913/31 IC		10/02/2020 02:57	1	c5289.D	DB-624 0.18(mm)
STD9 310-293913/32 IC		10/02/2020 03:21	1	c5290.D	DB-624 0.18(mm)
STD10 310-293913/33 IC		10/02/2020 03:45	1	c5291.D	DB-624 0.18(mm)
STD11 310-293913/34 IC		10/02/2020 04:09	1	c5292.D	DB-624 0.18(mm)
STD12 310-293913/35 IC		10/02/2020 04:33	1	c5293.D	DB-624 0.18(mm)
ZZZZZ		10/02/2020 04:57	1		DB-624 0.18(mm)
ZZZZZ		10/02/2020 05:21	1		DB-624 0.18(mm)
ZZZZZ		10/02/2020 05:45	1		DB-624 0.18(mm)
ICV 310-293913/39		10/02/2020 06:09	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 10/13/2020 07:27

Analysis Batch Number: 295162 End Date: 10/14/2020 11:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 310-295162/1		10/13/2020 07:27	1		DB-624 0.18(mm)
BFB 310-295162/2		10/13/2020 07:51	1	c5864.D	DB-624 0.18(mm)
STD1 310-295162/3 IC		10/13/2020 08:16	1	c5865.D	DB-624 0.18(mm)
STD2 310-295162/4 IC		10/13/2020 08:40	1	c5866.D	DB-624 0.18(mm)
STD3 310-295162/5 IC		10/13/2020 09:05	1	c5867.D	DB-624 0.18(mm)
STD4 310-295162/6 IC		10/13/2020 09:29	1	c5868.D	DB-624 0.18(mm)
STD5 310-295162/7 IC		10/13/2020 09:53	1	c5869.D	DB-624 0.18(mm)
STD6 310-295162/8 IC		10/13/2020 10:17	1	c5870.D	DB-624 0.18(mm)
STD7 310-295162/9 IC		10/13/2020 10:42	1	c5871.D	DB-624 0.18(mm)
ICIS 310-295162/10		10/13/2020 11:06	1	c5872.D	DB-624 0.18(mm)
STD9 310-295162/11 IC		10/13/2020 11:30	1	c5873.D	DB-624 0.18(mm)
STD10 310-295162/12 IC		10/13/2020 11:55	1	c5874.D	DB-624 0.18(mm)
STD11 310-295162/13 IC		10/13/2020 12:19	1	c5875.D	DB-624 0.18(mm)
STD12 310-295162/14 IC		10/13/2020 12:43	1	c5876.D	DB-624 0.18(mm)
ZZZZZ		10/13/2020 13:07	1		DB-624 0.18(mm)
ZZZZZ		10/13/2020 13:32	1		DB-624 0.18(mm)
ZZZZZ		10/13/2020 13:56	1		DB-624 0.18(mm)
ICV 310-295162/18		10/13/2020 14:20	1	c5880.D	DB-624 0.18(mm)
ICV 310-295162/19		10/13/2020 14:44	1	c5881.D	DB-624 0.18(mm)
ZZZZZ		10/13/2020 15:08	1		DB-624 0.18(mm)
BFB 310-295162/21		10/14/2020 03:53	1		DB-624 0.18(mm)
BFB 310-295162/22		10/14/2020 04:17	1	c5902.D	DB-624 0.18(mm)
STD1 310-295162/23 IC		10/14/2020 04:42	1	c5903.D	DB-624 0.18(mm)
STD2 310-295162/24 IC		10/14/2020 05:06	1	c5904.D	DB-624 0.18(mm)
STD3 310-295162/25 IC		10/14/2020 05:31	1	c5905.D	DB-624 0.18(mm)
STD4 310-295162/26 IC		10/14/2020 05:55	1	c5906.D	DB-624 0.18(mm)
STD5 310-295162/27 IC		10/14/2020 06:19	1	c5907.D	DB-624 0.18(mm)
STD6 310-295162/28 IC		10/14/2020 06:44	1	c5908.D	DB-624 0.18(mm)
ICV 310-295162/47		10/14/2020 07:09	1	c5909.D	DB-624 0.18(mm)
STD7 310-295162/29 IC		10/14/2020 07:41	1	c5910.D	DB-624 0.18(mm)
STD8 310-295162/30 IC		10/14/2020 08:05	1	c5911.D	DB-624 0.18(mm)
STD9 310-295162/31 IC		10/14/2020 08:30	1	c5912.D	DB-624 0.18(mm)
STD10 310-295162/32 IC		10/14/2020 08:54	1	c5913.D	DB-624 0.18(mm)
STD11 310-295162/33 IC		10/14/2020 09:19	1	c5914.D	DB-624 0.18(mm)
STD12 310-295162/34 IC		10/14/2020 09:44	1	c5915.D	DB-624 0.18(mm)
ZZZZZ		10/14/2020 10:08	1		DB-624 0.18(mm)
ZZZZZ		10/14/2020 10:33	1		DB-624 0.18(mm)
ZZZZZ		10/14/2020 10:57	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 10/13/2020 07:27

Analysis Batch Number: 295162 End Date: 10/14/2020 11:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 310-295162/38		10/14/2020 11:22	1	c5919.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Start Date: 11/09/2020 02:10

Analysis Batch Number: 298538 End Date: 11/10/2020 04:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/09/2020 02:10	1		DB-624 0.18(mm)
BFB 310-298538/2		11/09/2020 02:32	1		DB-624 0.18(mm)
BFB 310-298538/3		11/09/2020 02:54	1	H3725.D	DB-624 0.18(mm)
STD1 310-298538/4 IC		11/09/2020 03:30	1	H3726.D	DB-624 0.18(mm)
STD2 310-298538/5 IC		11/09/2020 03:52	1	H3727.D	DB-624 0.18(mm)
STD3 310-298538/6 IC		11/09/2020 04:14	1	H3728.D	DB-624 0.18(mm)
STD4 310-298538/7 IC		11/09/2020 04:36	1	H3729.D	DB-624 0.18(mm)
STD5 310-298538/8 IC		11/09/2020 04:59	1	H3730.D	DB-624 0.18(mm)
STD6 310-298538/9 IC		11/09/2020 05:21	1	H3731.D	DB-624 0.18(mm)
STD7 310-298538/10 IC		11/09/2020 05:43	1	H3732.D	DB-624 0.18(mm)
ICIS 310-298538/11		11/09/2020 06:05	1	H3733.D	DB-624 0.18(mm)
STD9 310-298538/12 IC		11/09/2020 06:28	1	H3734.D	DB-624 0.18(mm)
STD10 310-298538/13 IC		11/09/2020 06:50	1	H3735.D	DB-624 0.18(mm)
STD11 310-298538/14 IC		11/09/2020 07:12	1	H3736.D	DB-624 0.18(mm)
STD12 310-298538/15 IC		11/09/2020 07:34	1	H3737.D	DB-624 0.18(mm)
ZZZZZ		11/09/2020 07:57	1		DB-624 0.18(mm)
ZZZZZ		11/09/2020 08:19	1		DB-624 0.18(mm)
ZZZZZ		11/09/2020 08:41	1		DB-624 0.18(mm)
ICV 310-298538/19		11/09/2020 09:04	1	H3741.D	DB-624 0.18(mm)
ICV 310-298538/20		11/09/2020 09:26	1	H3742.D	DB-624 0.18(mm)
ZZZZZ		11/09/2020 09:48	1		DB-624 0.18(mm)
BFB 310-298538/22		11/09/2020 10:11	1		DB-624 0.18(mm)
BFB 310-298538/23		11/09/2020 10:33	1	H3745.D	DB-624 0.18(mm)
STD1 310-298538/24 IC		11/09/2020 10:55	1	H3746.D	DB-624 0.18(mm)
STD2 310-298538/25 IC		11/09/2020 11:17	1	H3747.D	DB-624 0.18(mm)
STD3 310-298538/26 IC		11/09/2020 11:39	1	H3748.D	DB-624 0.18(mm)
STD4 310-298538/27 IC		11/09/2020 12:02	1	H3749.D	DB-624 0.18(mm)
STD5 310-298538/28 IC		11/09/2020 12:24	1	H3750.D	DB-624 0.18(mm)
STD6 310-298538/29 IC		11/09/2020 12:46	1	H3751.D	DB-624 0.18(mm)
STD7 310-298538/30 IC		11/09/2020 13:08	1	H3752.D	DB-624 0.18(mm)
STD8 310-298538/31 IC		11/09/2020 13:31	1	H3753.D	DB-624 0.18(mm)
STD9 310-298538/32 IC		11/09/2020 13:53	1	H3754.D	DB-624 0.18(mm)
STD10 310-298538/33 IC		11/09/2020 14:16	1	H3755.D	DB-624 0.18(mm)
STD11 310-298538/34 IC		11/09/2020 14:38	1	H3756.D	DB-624 0.18(mm)
STD12 310-298538/35 IC		11/09/2020 15:00	1	H3757.D	DB-624 0.18(mm)
ZZZZZ		11/09/2020 15:23	1		DB-624 0.18(mm)
ZZZZZ		11/09/2020 15:45	1		DB-624 0.18(mm)
ZZZZZ		11/09/2020 16:07	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Start Date: 11/09/2020 02:10

Analysis Batch Number: 298538 End Date: 11/10/2020 04:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 310-298538/39		11/09/2020 16:29	1	H3761.D	DB-624 0.18(mm)
BFB 310-298538/40		11/10/2020 02:57	1		DB-624 0.18(mm)
BFB 310-298538/41		11/10/2020 03:19	1	H3764.D	DB-624 0.18(mm)
ICV 310-298538/42		11/10/2020 03:51	1	H3765.D	DB-624 0.18(mm)
ICV 310-298538/43		11/10/2020 04:13	1	H3766.D	DB-624 0.18(mm)
ICV 310-298538/44		11/10/2020 04:35	1	H3767.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Start Date: 11/10/2020 05:05

Analysis Batch Number: 298707 End Date: 11/10/2020 15:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 310-298707/2		11/10/2020 05:05	1	H3769.D	DB-624 0.18(mm)
BFB 310-298707/3		11/10/2020 05:27	1	H3770.D	DB-624 0.18(mm)
CCV 310-298707/4		11/10/2020 05:49	1		DB-624 0.18(mm)
CCV 310-298707/5		11/10/2020 06:11	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 06:34	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 06:56	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 07:18	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 07:41	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 08:03	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 08:25	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 08:47	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 09:09	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 09:31	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 09:54	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 10:16	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 10:38	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 11:01	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 11:23	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 11:46	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 12:08	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 12:30	10		DB-624 0.18(mm)
ZZZZZ		11/10/2020 12:52	20		DB-624 0.18(mm)
ZZZZZ		11/10/2020 13:15	100		DB-624 0.18(mm)
ZZZZZ		11/10/2020 13:37	100		DB-624 0.18(mm)
ZZZZZ		11/10/2020 13:59	100		DB-624 0.18(mm)
ZZZZZ		11/10/2020 14:22	100		DB-624 0.18(mm)
ZZZZZ		11/10/2020 14:44	100		DB-624 0.18(mm)
ZZZZZ		11/10/2020 15:06	1		DB-624 0.18(mm)
ZZZZZ		11/10/2020 15:29	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 11/18/2020 03:31

Analysis Batch Number: 299509 End Date: 11/18/2020 16:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/18/2020 03:31	1		DB-624 0.18(mm)
BFB 310-299509/2		11/18/2020 03:55	1		DB-624 0.18(mm)
BFB 310-299509/3		11/18/2020 04:19	1	c8225.D	DB-624 0.18(mm)
ZZZZZ		11/18/2020 04:43	1		DB-624 0.18(mm)
CCV 310-299509/5		11/18/2020 05:07	1	c8227.D	DB-624 0.18(mm)
ZZZZZ		11/18/2020 05:31	1		DB-624 0.18(mm)
LCS 310-299509/7		11/18/2020 06:06	1	c8229.D	DB-624 0.18(mm)
CCV 310-299509/31		11/18/2020 06:30	1	c8230.D	DB-624 0.18(mm)
LCS 310-299509/32		11/18/2020 06:54	1	c8231.D	DB-624 0.18(mm)
MB 310-299509/8		11/18/2020 07:19	1	c8232.D	DB-624 0.18(mm)
240-140187-1	GW-110620-BE-019	11/18/2020 07:43	1	c8233.D	DB-624 0.18(mm)
240-140187-2	GW-110620-BE-020	11/18/2020 08:07	1	c8234.D	DB-624 0.18(mm)
240-140187-3	GW-110620-BE-021	11/18/2020 08:31	1	c8235.D	DB-624 0.18(mm)
240-140187-4	GW-110620-BE-022	11/18/2020 08:56	1	c8236.D	DB-624 0.18(mm)
240-140187-5	GW-110620-BE-023	11/18/2020 09:20	1	c8237.D	DB-624 0.18(mm)
240-140187-6	GW-110620-BE-024	11/18/2020 09:44	1	c8238.D	DB-624 0.18(mm)
240-140187-7	GW-110920-BE-025	11/18/2020 10:09	1	c8239.D	DB-624 0.18(mm)
240-140187-8	GW-110920-BE-026	11/18/2020 10:33	1	c8240.D	DB-624 0.18(mm)
240-140187-9	GW-110920-BE-027	11/18/2020 10:58	1	c8241.D	DB-624 0.18(mm)
240-140187-10	GW-110920-BE-028	11/18/2020 11:22	1	c8242.D	DB-624 0.18(mm)
240-140187-11	GW-110920-BE-029	11/18/2020 11:47	1	c8243.D	DB-624 0.18(mm)
240-140187-12	GW-110920-BE-030	11/18/2020 12:12	1	c8244.D	DB-624 0.18(mm)
240-140187-13	GW-110920-BE-031	11/18/2020 12:36	1	c8245.D	DB-624 0.18(mm)
240-140187-14	GW-111020-BE-032	11/18/2020 13:01	1	c8246.D	DB-624 0.18(mm)
240-140187-15	GW-111020-BE-033	11/18/2020 13:26	1	c8247.D	DB-624 0.18(mm)
240-140187-17	GW-111120-BE-035	11/18/2020 14:14	1	c8249.D	DB-624 0.18(mm)
240-140187-18	GW-111120-BE-036	11/18/2020 14:39	1	c8250.D	DB-624 0.18(mm)
240-140187-19	GW-111120-BE-037	11/18/2020 15:03	1	c8251.D	DB-624 0.18(mm)
240-140187-20	TB-111220-BE-003	11/18/2020 15:28	1	c8252.D	DB-624 0.18(mm)
240-140187-10 MS	GW-110920-BE-028 MS	11/18/2020 15:52	1	c8253.D	DB-624 0.18(mm)
240-140187-10 MSD	GW-110920-BE-028 MSD	11/18/2020 16:17	1	c8254.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Hobbes Start Date: 11/19/2020 00:58

Analysis Batch Number: 299687 End Date: 11/19/2020 11:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 310-299687/1		11/19/2020 00:58	1		DB-624 0.18(mm)
BFB 310-299687/2		11/19/2020 01:21	1	H4274.D	DB-624 0.18(mm)
CCV 310-299687/3		11/19/2020 01:43	1	H4275.D	DB-624 0.18(mm)
CCV 310-299687/4		11/19/2020 02:06	1	H4276.D	DB-624 0.18(mm)
LCS 310-299687/5		11/19/2020 02:28	1	H4277.D	DB-624 0.18(mm)
LCS 310-299687/6		11/19/2020 02:51	1	H4278.D	DB-624 0.18(mm)
MB 310-299687/7		11/19/2020 03:13	1	H4279.D	DB-624 0.18(mm)
ZZZZZ		11/19/2020 03:35	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 03:57	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 04:20	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 04:42	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 05:04	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 05:27	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 05:49	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 06:12	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 06:34	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 06:57	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 07:19	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 07:41	1000		DB-624 0.18(mm)
ZZZZZ		11/19/2020 08:03	1000		DB-624 0.18(mm)
240-140187-23	GW-111220-BE-040	11/19/2020 08:26	10	H4293.D	DB-624 0.18(mm)
ZZZZZ		11/19/2020 08:48	10		DB-624 0.18(mm)
240-140187-21	GW-111220-BE-038	11/19/2020 09:10	20	H4295.D	DB-624 0.18(mm)
240-140187-22	GW-111220-BE-039	11/19/2020 09:33	50	H4296.D	DB-624 0.18(mm)
240-140187-24	GW-111220-BE-041	11/19/2020 09:55	50	H4297.D	DB-624 0.18(mm)
240-140187-25	GW-111220-BE-042	11/19/2020 10:17	50	H4298.D	DB-624 0.18(mm)
240-140187-26	GW-111220-BE-043	11/19/2020 10:40	50	H4299.D	DB-624 0.18(mm)
ZZZZZ		11/19/2020 11:02	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 11:25	1		DB-624 0.18(mm)

8260D

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 11/18/2020 16:41

Analysis Batch Number: 299697 End Date: 11/19/2020 03:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/18/2020 16:41	1		DB-624 0.18(mm)
BFB 310-299697/2		11/18/2020 17:06	1		DB-624 0.18(mm)
BFB 310-299697/3		11/18/2020 17:30	1	c8257.D	DB-624 0.18(mm)
CCV 310-299697/4		11/18/2020 17:55	1	c8258.D	DB-624 0.18(mm)
CCV 310-299697/5		11/18/2020 18:20	1	c8259.D	DB-624 0.18(mm)
LCS 310-299697/6		11/18/2020 18:45	1	c8260.D	DB-624 0.18(mm)
LCS 310-299697/7		11/18/2020 19:09	1	c8261.D	DB-624 0.18(mm)
MB 310-299697/8		11/18/2020 19:34	1	c8262.D	DB-624 0.18(mm)
240-140187-21	GW-111220-BE-038	11/18/2020 19:59	1	c8263.D	DB-624 0.18(mm)
240-140187-22	GW-111220-BE-039	11/18/2020 20:23	1	c8264.D	DB-624 0.18(mm)
240-140187-23	GW-111220-BE-040	11/18/2020 20:48	1	c8265.D	DB-624 0.18(mm)
240-140187-24	GW-111220-BE-041	11/18/2020 21:12	1	c8266.D	DB-624 0.18(mm)
240-140187-25	GW-111220-BE-042	11/18/2020 21:37	1	c8267.D	DB-624 0.18(mm)
240-140187-26	GW-111220-BE-043	11/18/2020 22:01	1	c8268.D	DB-624 0.18(mm)
ZZZZZ		11/18/2020 22:26	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 22:50	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 23:15	1		DB-624 0.18(mm)
ZZZZZ		11/18/2020 23:39	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 00:04	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 00:28	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 00:53	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 01:18	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 02:07	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 02:32	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 02:57	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 03:21	1		DB-624 0.18(mm)
ZZZZZ		11/19/2020 03:46	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 11/19/2020 04:11

Analysis Batch Number: 299701 End Date: 11/19/2020 16:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/19/2020 04:11	1		DB-624 0.18(mm)
BFB 310-299701/2		11/19/2020 04:35	1		DB-624 0.18(mm)
BFB 310-299701/3		11/19/2020 05:00	1	c8288.D	DB-624 0.18(mm)
CCV 310-299701/4		11/19/2020 05:24	1	c8289.D	DB-624 0.18(mm)
CCV 310-299701/5		11/19/2020 05:49	1	c8290.D	DB-624 0.18(mm)
LCS 310-299701/6		11/19/2020 06:13	1	c8291.D	DB-624 0.18(mm)
LCS 310-299701/7		11/19/2020 06:38	1	c8292.D	DB-624 0.18(mm)
MB 310-299701/8		11/19/2020 07:03	1	c8293.D	DB-624 0.18(mm)
240-140187-20	TB-111220-BE-003	11/19/2020 07:27	1	c8294.D	DB-624 0.18(mm)
240-140187-4	GW-110620-BE-022	11/19/2020 07:52	1	c8295.D	DB-624 0.18(mm)
240-140187-5	GW-110620-BE-023	11/19/2020 08:17	1	c8296.D	DB-624 0.18(mm)
240-140187-9	GW-110920-BE-027	11/19/2020 08:41	1	c8297.D	DB-624 0.18(mm)
240-140187-12	GW-110920-BE-030	11/19/2020 09:06	1	c8298.D	DB-624 0.18(mm)
240-140187-13	GW-110920-BE-031	11/19/2020 09:30	1	c8299.D	DB-624 0.18(mm)
240-140187-14	GW-111020-BE-032	11/19/2020 09:55	1	c8300.D	DB-624 0.18(mm)
240-140187-16	GW-111120-BE-034	11/19/2020 10:19	1	c8301.D	DB-624 0.18(mm)
240-140187-17	GW-111120-BE-035	11/19/2020 10:44	1	c8302.D	DB-624 0.18(mm)
240-140187-19	GW-111120-BE-037	11/19/2020 11:09	1	c8303.D	DB-624 0.18(mm)
240-140187-2	GW-110620-BE-020	11/19/2020 11:33	1	c8304.D	DB-624 0.18(mm)
240-140187-3	GW-110620-BE-021	11/19/2020 11:58	1	c8305.D	DB-624 0.18(mm)
240-140187-1	GW-110620-BE-019	11/19/2020 12:46	20	c8307.D	DB-624 0.18(mm)
240-140187-7	GW-110920-BE-025	11/19/2020 13:11	20	c8308.D	DB-624 0.18(mm)
ZZZZZ		11/19/2020 13:35	50		DB-624 0.18(mm)
240-140187-8	GW-110920-BE-026	11/19/2020 14:00	50	c8310.D	DB-624 0.18(mm)
240-140187-10	GW-110920-BE-028	11/19/2020 14:25	50	c8311.D	DB-624 0.18(mm)
240-140187-11	GW-110920-BE-029	11/19/2020 14:49	50	c8312.D	DB-624 0.18(mm)
240-140187-15	GW-111020-BE-033	11/19/2020 15:14	50	c8313.D	DB-624 0.18(mm)
240-140187-10 MS	GW-110920-BE-028 MS	11/19/2020 15:39	50	c8314.D	DB-624 0.18(mm)
240-140187-10 MSD	GW-110920-BE-028 MSD	11/19/2020 16:04	50	c8315.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140187-1

SDG No.:

Instrument ID: Calvin Start Date: 11/19/2020 16:28

Analysis Batch Number: 299826 End Date: 11/20/2020 04:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/19/2020 16:28	1		DB-624 0.18(mm)
BFB 310-299826/2		11/19/2020 16:53	1		DB-624 0.18(mm)
BFB 310-299826/3		11/19/2020 17:17	1	c8318.D	DB-624 0.18(mm)
CCV 310-299826/4		11/19/2020 17:42	1	c8319.D	DB-624 0.18(mm)
CCV 310-299826/5		11/19/2020 18:06	1	c8320.D	DB-624 0.18(mm)
LCS 310-299826/6		11/19/2020 18:31	1	c8321.D	DB-624 0.18(mm)
LCS 310-299826/7		11/19/2020 18:55	1	c8322.D	DB-624 0.18(mm)
MB 310-299826/8		11/19/2020 19:20	1	c8323.D	DB-624 0.18(mm)
ZZZZZ		11/19/2020 19:44	1		DB-624 0.18(mm)
ZZZZZ		11/20/2020 03:21	1		DB-624 0.18(mm)
240-140187-16	GW-111120-BE-034	11/20/2020 03:45	1	c8326.D	DB-624 0.18(mm)
240-140187-18	GW-111120-BE-036	11/20/2020 04:09	20	c8327.D	DB-624 0.18(mm)
240-140187-18 MS	GW-111120-BE-036 MS	11/20/2020 04:34	20	c8328.D	DB-624 0.18(mm)
240-140187-18 MSD	GW-111120-BE-036 MSD	11/20/2020 04:58	20	c8329.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_ACRO ICV 00030	VV_I_ACRO ICV 00031	VV_I_GASES 00409	VV_I_ICVGAS 00275
BFB 310-295162/2		8260D		5 mL	5 mL				
STD1 310-295162/3 IC		8260D		5 mL	5 mL				
STD2 310-295162/4 IC		8260D		5 mL	5 mL				
STD3 310-295162/5 IC		8260D		5 mL	5 mL				
STD4 310-295162/6 IC		8260D		5 mL	5 mL				
STD5 310-295162/7 IC		8260D		5 mL	5 mL				
STD6 310-295162/8 IC		8260D		5 mL	5 mL				
STD7 310-295162/9 IC		8260D		5 mL	5 mL				
ICIS 310-295162/10		8260D		5 mL	5 mL				
STD9 310-295162/11 IC		8260D		5 mL	5 mL				
STD10 310-295162/12 IC		8260D		5 mL	5 mL				
STD11 310-295162/13 IC		8260D		5 mL	5 mL				
STD12 310-295162/14 IC		8260D		5 mL	5 mL				
ICV 310-295162/18		8260D		5 mL	5 mL	50 uL			
ICV 310-295162/19		8260D		5 mL	5 mL				
BFB 310-295162/22		8260D		5 mL	5 mL				
STD1 310-295162/23 IC		8260D		5 mL	5 mL			0.5 uL	
STD2 310-295162/24 IC		8260D		5 mL	5 mL			1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_ACRO ICV 00030	VV_I_ACRO ICV 00031	VV_I_GASES 00409	VV_I_ICVGAS 00275
STD3 310-295162/25 IC		8260D		5 mL	5 mL			2 uL	
STD4 310-295162/26 IC		8260D		5 mL	5 mL			4 uL	
STD5 310-295162/27 IC		8260D		5 mL	5 mL			10 uL	
STD6 310-295162/28 IC		8260D		5 mL	5 mL			20 uL	
STD7 310-295162/29 IC		8260D		5 mL	5 mL			50 uL	
STD8 310-295162/30 IC		8260D		5 mL	5 mL			100 uL	
STD9 310-295162/31 IC		8260D		5 mL	5 mL			150 uL	
STD10 310-295162/32 IC		8260D		5 mL	5 mL			200 uL	
STD11 310-295162/33 IC		8260D		5 mL	5 mL			250 uL	
STD12 310-295162/34 IC		8260D		5 mL	5 mL			500 uL	
ICV 310-295162/38		8260D		5 mL	5 mL				10 uL
ICV 310-295162/47		8260D		5 mL	5 mL		10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_ICVSOL 00052	VV_I_MOSOL 00217	VV_I_VA ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010
BFB 310-295162/2		8260D						1 uL	1 uL
STD1 310-295162/3 IC		8260D			0.5 uL		1 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_ICVSOL 00052	VV_I_MOSOL 00217	VV_I_VA_ICV_U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010
STD2 310-295162/4 IC		8260D			1 uL		1 uL		
STD3 310-295162/5 IC		8260D			2 uL		1 uL		
STD4 310-295162/6 IC		8260D			5 uL		1 uL		
STD5 310-295162/7 IC		8260D			10 uL		1 uL		
STD6 310-295162/8 IC		8260D			20 uL		1 uL		
STD7 310-295162/9 IC		8260D			50 uL		1 uL		
ICIS 310-295162/10		8260D			100 uL		1 uL		
STD9 310-295162/11 IC		8260D			150 uL		1 uL		
STD10 310-295162/12 IC		8260D			200 uL		1 uL		
STD11 310-295162/13 IC		8260D			250 uL		1 uL		
STD12 310-295162/14 IC		8260D			500 uL		1 uL		
ICV 310-295162/18		8260D		50 uL				1 uL	
ICV 310-295162/19		8260D				10 uL		1 uL	
BFB 310-295162/22		8260D						1 uL	1 uL
STD1 310-295162/23 IC		8260D						1 uL	
STD2 310-295162/24 IC		8260D						1 uL	
STD3 310-295162/25 IC		8260D						1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_ICVSOL 00052	VV_I_MOSOL 00217	VV_I_VA_ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010
STD4 310-295162/26 IC		8260D						1 uL	
STD5 310-295162/27 IC		8260D						1 uL	
STD6 310-295162/28 IC		8260D						1 uL	
STD7 310-295162/29 IC		8260D						1 uL	
STD8 310-295162/30 IC		8260D						1 uL	
STD9 310-295162/31 IC		8260D						1 uL	
STD10 310-295162/32 IC		8260D						1 uL	
STD11 310-295162/33 IC		8260D						1 uL	
STD12 310-295162/34 IC		8260D						1 uL	
ICV 310-295162/38		8260D						1 uL	
ICV 310-295162/47		8260D						1 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 298538 Batch Start Date: 11/09/20 02:10 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_GASES 00413	VV_I_ICVGAS 00277	VV_I_ICVGAS 00278	VV_I_ICVSOL 00053
BFB 310-298538/3		8260D		5 mL	5 mL				
STD1 310-298538/4 IC		8260D		5 mL	5 mL				
STD2 310-298538/5 IC		8260D		5 mL	5 mL				
STD3 310-298538/6 IC		8260D		5 mL	5 mL				
STD4 310-298538/7 IC		8260D		5 mL	5 mL				
STD5 310-298538/8 IC		8260D		5 mL	5 mL				
STD6 310-298538/9 IC		8260D		5 mL	5 mL				
STD7 310-298538/10 IC		8260D		5 mL	5 mL				
ICIS 310-298538/11		8260D		5 mL	5 mL				
STD9 310-298538/12 IC		8260D		5 mL	5 mL				
STD10 310-298538/13 IC		8260D		5 mL	5 mL				
STD11 310-298538/14 IC		8260D		5 mL	5 mL				
STD12 310-298538/15 IC		8260D		5 mL	5 mL				
ICV 310-298538/19		8260D		5 mL	5 mL				50 uL
ICV 310-298538/20		8260D		5 mL	5 mL				
BFB 310-298538/23		8260D		5 mL	5 mL				
STD1 310-298538/24 IC		8260D		5 mL	5 mL	0.5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 298538 Batch Start Date: 11/09/20 02:10 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_GASES 00413	VV_I_ICVGAS 00277	VV_I_ICVGAS 00278	VV_I_ICVSOL 00053
STD2 310-298538/25 IC		8260D		5 mL	5 mL	1 uL			
STD3 310-298538/26 IC		8260D		5 mL	5 mL	2 uL			
STD4 310-298538/27 IC		8260D		5 mL	5 mL	4 uL			
STD5 310-298538/28 IC		8260D		5 mL	5 mL	10 uL			
STD6 310-298538/29 IC		8260D		5 mL	5 mL	20 uL			
STD7 310-298538/30 IC		8260D		5 mL	5 mL	50 uL			
STD8 310-298538/31 IC		8260D		5 mL	5 mL	100 uL			
STD9 310-298538/32 IC		8260D		5 mL	5 mL	150 uL			
STD10 310-298538/33 IC		8260D		5 mL	5 mL	200 uL			
STD11 310-298538/34 IC		8260D		5 mL	5 mL	250 uL			
STD12 310-298538/35 IC		8260D		5 mL	5 mL	500 uL			
ICV 310-298538/39		8260D		5 mL	5 mL		10 uL		
BFB 310-298538/41		8260D		5 mL	5 mL				
ICV 310-298538/42		8260D		5 mL	5 mL				8 uL
ICV 310-298538/43		8260D		5 mL	5 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 298538 Batch Start Date: 11/09/20 02:10 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_GASES 00413	VV_I_ICVGAS 00277	VV_I_ICVGAS 00278	VV_I_ICVSOL 00053
ICV 310-298538/44		8260D		5 mL	5 mL			10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_MOSOL 00219	VV_I_VA ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010	
BFB 310-298538/3		8260D					1 uL	1 uL	
STD1 310-298538/4 IC		8260D		0.5 uL		1 uL			
STD2 310-298538/5 IC		8260D		1 uL		1 uL			
STD3 310-298538/6 IC		8260D		2 uL		1 uL			
STD4 310-298538/7 IC		8260D		5 uL		1 uL			
STD5 310-298538/8 IC		8260D		10 uL		1 uL			
STD6 310-298538/9 IC		8260D		20 uL		1 uL			
STD7 310-298538/10 IC		8260D		50 uL		1 uL			
ICIS 310-298538/11		8260D		100 uL		1 uL			
STD9 310-298538/12 IC		8260D		150 uL		1 uL			
STD10 310-298538/13 IC		8260D		200 uL		1 uL			
STD11 310-298538/14 IC		8260D		250 uL		1 uL			
STD12 310-298538/15 IC		8260D		500 uL		1 uL			
ICV 310-298538/19		8260D					1 uL		
ICV 310-298538/20		8260D			10 uL		1 uL		
BFB 310-298538/23		8260D					1 uL	1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 298538 Batch Start Date: 11/09/20 02:10 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_MOSOL 00219	VV_I_VA ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010	
STD1 310-298538/24 IC		8260D					1 uL		
STD2 310-298538/25 IC		8260D					1 uL		
STD3 310-298538/26 IC		8260D					1 uL		
STD4 310-298538/27 IC		8260D					1 uL		
STD5 310-298538/28 IC		8260D					1 uL		
STD6 310-298538/29 IC		8260D					1 uL		
STD7 310-298538/30 IC		8260D					1 uL		
STD8 310-298538/31 IC		8260D					1 uL		
STD9 310-298538/32 IC		8260D					1 uL		
STD10 310-298538/33 IC		8260D					1 uL		
STD11 310-298538/34 IC		8260D					1 uL		
STD12 310-298538/35 IC		8260D					1 uL		
ICV 310-298538/39		8260D					1 uL		
BFB 310-298538/41		8260D					1 uL	1 uL	
ICV 310-298538/42		8260D					1 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 298538 Batch Start Date: 11/09/20 02:10 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_MOSOL 00219	VV_I_VA ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010	
ICV 310-298538/43		8260D			10 uL		1 uL		
ICV 310-298538/44		8260D					1 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 298707 Batch Start Date: 11/10/20 05:05 Batch Analyst: Klinkenberg, Derrick L

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_M_ISSTD 00331	VV_M_TUN 00010		
BFB 310-298707/2		8260D		5 mL	5 mL	1 uL	1 uL		
BFB 310-298707/3		8260D		5 mL	5 mL	1 uL	1 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299509 Batch Start Date: 11/18/20 03:31 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VV_I_GASES 00414	VV_I_MOSOL 00219	VV_I_MOSOL 00220
BFB 310-299509/3		8260D		5 mL	5 mL				
CCV 310-299509/5		8260D		5 mL	5 mL		8 uL		
LCS 310-299509/7		8260D		5 mL	5 mL		4 uL		
MB 310-299509/8		8260D		5 mL	5 mL				
240-140187-A-1	GW-110620-BE-019	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-2	GW-110620-BE-020	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-3	GW-110620-BE-021	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-4	GW-110620-BE-022	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-5	GW-110620-BE-023	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-6	GW-110620-BE-024	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-7	GW-110920-BE-025	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-8	GW-110920-BE-026	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-9	GW-110920-BE-027	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-10	GW-110920-BE-028	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-11	GW-110920-BE-029	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-12	GW-110920-BE-030	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-13	GW-110920-BE-031	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-14	GW-111020-BE-032	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-15	GW-111020-BE-033	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-17	GW-111120-BE-035	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-18	GW-111120-BE-036	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-19	GW-111120-BE-037	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-20	TB-111220-BE-003	8260D	T	5 mL	5 mL	<2 SU			
240-140187-A-10 MS	GW-110920-BE-028	8260D	T	5 mL	5 mL	<2 SU		4 uL	
240-140187-A-10 MSD	GW-110920-BE-028	8260D	T	5 mL	5 mL	<2 SU		4 uL	
CCV 310-299509/31		8260D		5 mL	5 mL				10 uL
LCS 310-299509/32		8260D		5 mL	5 mL				8 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299509 Batch Start Date: 11/18/20 03:31 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_ISSTD 00331	VV_M_TUN 00010				
BFB 310-299509/3		8260D		1 uL	1 uL				
CCV 310-299509/5		8260D		1 uL	1 uL				
LCS 310-299509/7		8260D		1 uL					
MB 310-299509/8		8260D		1 uL					
240-140187-A-1	GW-110620-BE-019	8260D	T	1 uL					
240-140187-A-2	GW-110620-BE-020	8260D	T	1 uL					
240-140187-A-3	GW-110620-BE-021	8260D	T	1 uL					
240-140187-A-4	GW-110620-BE-022	8260D	T	1 uL					
240-140187-A-5	GW-110620-BE-023	8260D	T	1 uL					
240-140187-A-6	GW-110620-BE-024	8260D	T	1 uL					
240-140187-A-7	GW-110920-BE-025	8260D	T	1 uL					
240-140187-A-8	GW-110920-BE-026	8260D	T	1 uL					
240-140187-A-9	GW-110920-BE-027	8260D	T	1 uL					
240-140187-A-10	GW-110920-BE-028	8260D	T	1 uL					
240-140187-A-11	GW-110920-BE-029	8260D	T	1 uL					
240-140187-A-12	GW-110920-BE-030	8260D	T	1 uL					
240-140187-A-13	GW-110920-BE-031	8260D	T	1 uL					
240-140187-A-14	GW-111020-BE-032	8260D	T	1 uL					
240-140187-A-15	GW-111020-BE-033	8260D	T	1 uL					
240-140187-A-17	GW-111120-BE-035	8260D	T	1 uL					
240-140187-A-18	GW-111120-BE-036	8260D	T	1 uL					
240-140187-A-19	GW-111120-BE-037	8260D	T	1 uL					
240-140187-A-20	TB-111220-BE-003	8260D	T	1 uL					
240-140187-A-10 MS	GW-110920-BE-028	8260D	T	1 uL					
240-140187-A-10 MSD	GW-110920-BE-028	8260D	T	1 uL					
CCV 310-299509/31		8260D		1 uL					
LCS 310-299509/32		8260D		1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299509 Batch Start Date: 11/18/20 03:31 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299687 Batch Start Date: 11/19/20 00:58 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VV_I_GASES 00414	VV_I_MOSOL 00219	VV_M_ISSTD 00331
BFB 310-299687/2		8260D		5 mL	5 mL				1 uL
CCV 310-299687/3		8260D		5 mL	5 mL			10 uL	1 uL
CCV 310-299687/4		8260D		5 mL	5 mL		8 uL		1 uL
LCS 310-299687/5		8260D		5 mL	5 mL			8 uL	1 uL
LCS 310-299687/6		8260D		5 mL	5 mL		8 uL		1 uL
MB 310-299687/7		8260D		5 mL	5 mL				1 uL
240-140187-B-23	GW-111220-BE-040	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-21	GW-111220-BE-038	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-22	GW-111220-BE-039	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-24	GW-111220-BE-041	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-25	GW-111220-BE-042	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-26	GW-111220-BE-043	8260D	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
BFB 310-299687/2		8260D		1 uL					
CCV 310-299687/3		8260D		1 uL					
CCV 310-299687/4		8260D		1 uL					
LCS 310-299687/5		8260D							
LCS 310-299687/6		8260D							
MB 310-299687/7		8260D							
240-140187-B-23	GW-111220-BE-040	8260D	T						
240-140187-B-21	GW-111220-BE-038	8260D	T						
240-140187-B-22	GW-111220-BE-039	8260D	T						
240-140187-B-24	GW-111220-BE-041	8260D	T						
240-140187-B-25	GW-111220-BE-042	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299687 Batch Start Date: 11/19/20 00:58 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
240-140187-B-26	GW-111220-BE-043	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299697 Batch Start Date: 11/18/20 16:41 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VV_I_GASES 00414	VV_I_MOSOL 00220	VV_M_ISSTD 00331
BFB 310-299697/3		8260D		5 mL	5 mL				1 uL
CCV 310-299697/4		8260D		5 mL	5 mL			10 uL	1 uL
CCV 310-299697/5		8260D		5 mL	5 mL		8 uL		1 uL
LCS 310-299697/6		8260D		5 mL	5 mL			8 uL	1 uL
LCS 310-299697/7		8260D		5 mL	5 mL		4 uL		1 uL
MB 310-299697/8		8260D		5 mL	5 mL				1 uL
240-140187-A-21	GW-111220-BE-038	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-A-22	GW-111220-BE-039	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-A-23	GW-111220-BE-040	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-A-24	GW-111220-BE-041	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-A-25	GW-111220-BE-042	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-A-26	GW-111220-BE-043	8260D	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
BFB 310-299697/3		8260D		1 uL					
CCV 310-299697/4		8260D		1 uL					
CCV 310-299697/5		8260D		1 uL					
LCS 310-299697/6		8260D							
LCS 310-299697/7		8260D							
MB 310-299697/8		8260D							
240-140187-A-21	GW-111220-BE-038	8260D	T						
240-140187-A-22	GW-111220-BE-039	8260D	T						
240-140187-A-23	GW-111220-BE-040	8260D	T						
240-140187-A-24	GW-111220-BE-041	8260D	T						
240-140187-A-25	GW-111220-BE-042	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299697 Batch Start Date: 11/18/20 16:41 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
240-140187-A-26	GW-111220-BE-043	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299701 Batch Start Date: 11/19/20 04:11 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VV_I_GASES 00414	VV_I_MOSOL 00220	VV_M_ISSTD 00331
BFB 310-299701/3		8260D		5 mL	5 mL				1 uL
CCV 310-299701/4		8260D		5 mL	5 mL			10 uL	1 uL
CCV 310-299701/5		8260D		5 mL	5 mL		8 uL		1 uL
LCS 310-299701/6		8260D		5 mL	5 mL			8 uL	1 uL
LCS 310-299701/7		8260D		5 mL	5 mL		4 uL		1 uL
MB 310-299701/8		8260D		5 mL	5 mL				1 uL
240-140187-B-20	TB-111220-BE-003	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-4	GW-110620-BE-022	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-5	GW-110620-BE-023	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-9	GW-110920-BE-027	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-12	GW-110920-BE-030	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-13	GW-110920-BE-031	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-14	GW-111020-BE-032	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-16	GW-111120-BE-034	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-17	GW-111120-BE-035	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-19	GW-111120-BE-037	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-2	GW-110620-BE-020	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-3	GW-110620-BE-021	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-1	GW-110620-BE-019	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-7	GW-110920-BE-025	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-8	GW-110920-BE-026	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-10	GW-110920-BE-028	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-11	GW-110920-BE-029	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-15	GW-111020-BE-033	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-B-10 MS	GW-110920-BE-028	8260D	T	5 mL	5 mL	<2 SU		8 uL	1 uL
240-140187-B-10 MSD	GW-110920-BE-028	8260D	T	5 mL	5 mL	<2 SU		8 uL	1 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299701 Batch Start Date: 11/19/20 04:11 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
BFB 310-299701/3		8260D		1 uL					
CCV 310-299701/4		8260D		1 uL					
CCV 310-299701/5		8260D		1 uL					
LCS 310-299701/6		8260D							
LCS 310-299701/7		8260D							
MB 310-299701/8		8260D							
240-140187-B-20	TB-111220-BE-003	8260D	T						
240-140187-B-4	GW-110620-BE-022	8260D	T						
240-140187-B-5	GW-110620-BE-023	8260D	T						
240-140187-B-9	GW-110920-BE-027	8260D	T						
240-140187-B-12	GW-110920-BE-030	8260D	T						
240-140187-B-13	GW-110920-BE-031	8260D	T						
240-140187-B-14	GW-111020-BE-032	8260D	T						
240-140187-B-16	GW-111120-BE-034	8260D	T						
240-140187-B-17	GW-111120-BE-035	8260D	T						
240-140187-B-19	GW-111120-BE-037	8260D	T						
240-140187-B-2	GW-110620-BE-020	8260D	T						
240-140187-B-3	GW-110620-BE-021	8260D	T						
240-140187-B-1	GW-110620-BE-019	8260D	T						
240-140187-B-7	GW-110920-BE-025	8260D	T						
240-140187-B-8	GW-110920-BE-026	8260D	T						
240-140187-B-10	GW-110920-BE-028	8260D	T						
240-140187-B-11	GW-110920-BE-029	8260D	T						
240-140187-B-15	GW-111020-BE-033	8260D	T						
240-140187-B-10 MS	GW-110920-BE-028	8260D	T						
240-140187-B-10 MSD	GW-110920-BE-028	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299701 Batch Start Date: 11/19/20 04:11 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299826 Batch Start Date: 11/19/20 16:28 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VV_I_GASES 00414	VV_I_MOSOL 00220	VV_M_ISSTD 00331
BFB 310-299826/3		8260D		5 mL	5 mL				1 uL
CCV 310-299826/4		8260D		5 mL	5 mL			10 uL	1 uL
CCV 310-299826/5		8260D		5 mL	5 mL		8 uL		1 uL
LCS 310-299826/6		8260D		5 mL	5 mL			8 uL	1 uL
LCS 310-299826/7		8260D		5 mL	5 mL		4 uL		1 uL
MB 310-299826/8		8260D		5 mL	5 mL				1 uL
240-140187-C-16	GW-111120-BE-034	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-C-18	GW-111120-BE-036	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140187-C-18 MS	GW-111120-BE-036	8260D	T	5 mL	5 mL	<2 SU		8 uL	1 uL
240-140187-C-18 MSD	GW-111120-BE-036	8260D	T	5 mL	5 mL	<2 SU		8 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
BFB 310-299826/3		8260D		1 uL					
CCV 310-299826/4		8260D		1 uL					
CCV 310-299826/5		8260D		1 uL					
LCS 310-299826/6		8260D							
LCS 310-299826/7		8260D							
MB 310-299826/8		8260D							
240-140187-C-16	GW-111120-BE-034	8260D	T						
240-140187-C-18	GW-111120-BE-036	8260D	T						
240-140187-C-18 MS	GW-111120-BE-036	8260D	T						
240-140187-C-18 MSD	GW-111120-BE-036	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140187-1

SDG No.:

Batch Number: 299826 Batch Start Date: 11/19/20 16:28 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

2.3/32

eurofins | Environment Testing America

Client Information	Sampler: Brynn Einecker	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-76065-30482.1
Client Contact: Ms. Ruth Mickle	Phone:	E-Mail: Denise.Heckler@Eurofinset.com		Page: Page 1 of 3
Company: GHD Services Inc.				Job #:
Address: 26850 Haggerty Rd.	Due Date Requested:			
City: Farmington Hills	TAT Requested (days): Standard 14-day			
State, Zip: MI, 48331				
Phone:	PO #: Purchase Order Requested			
Email: ruth.mickle@ghd.com	WO #: 11209506			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

240-140187 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total	Special Instructions/Note:
			Preservation Code:				A		
GW-110620-BE-019	11/6/20	928	G	Water			X	3	
GW-110620-BE-020		1106		Water			X	3	
GW-110620-BE-021		1110		Water			X	3	
GW-110620-BE-022		1245		Water			X	3	
GW-110620-BE-023		1348		Water			X	3	
GW-110620-BE-024	11/6/20	1453		Water			X	3	
GW-110920-BE-025	11/9/20	916		Water			X	3	
GW-110920-BE-026		1007		Water			X	3	
GW-110920-BE-027		1159		Water			X	3	
GW-110920-BE-028		1303		Water		X	X	9	
GW-110920-BE-029	11/9/20	1428		Water			X	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Brynn Einecker	11/12/20 1700	GHD		11-13-20 950	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Brynn Einecker	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-76065-30482.2
Client Contact: Ms. Ruth Mickle	Phone:	E-Mail: Denise.Heckler@Eurofinset.com		Page: Page 2 of 3
Company: GHD Services Inc.				Job #:

Address: 26850 Haggerty Rd.	Due Date Requested:
City: Farmington Hills	TAT Requested (days):
State, Zip: MI, 48331	
Phone:	PO #: Purchase Order Requested
Email: ruth.mickle@ghd.com	WO #: 11209506
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
GW-110920-BE-030	11/9/20	1536	G	Water			X	3	
GW-110920-BE-031	11/9/20	1544		Water			X	3	
GW-111020-BE-032	11/10/20	912		Water			X	3	
GW-111020-BE-033	11/10/20	953		Water			X	3	
GW-111120-BE-034	11/11/20	919		Water			X	3	
GW-111120-BE-035	11/11/20	1028		Water			X	3	
GW-111120-BE-036	11/11/20	1225		Water			X	3	
GW-111120-BE-037	11/11/20	1457	G	Water			X	3	
TB-111220-BE-003	11/12/20	900		Water			X	2	
GW-111220-BE-038	11/12/20	950	G	Water			X	3	
GW-111220-BE-039	11/12/20	1038	G	Water			X	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Brynn Einecker	Date/Time: 11/12/20 1700	Company: GHD	Received by:	Date/Time: 11-13-20 950	Company: ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Brynn Erca	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-76065-30482.3
Client Contact: Ms. Ruth Mickle	Phone:	E-Mail: Denise.Heckler@Eurofinset.com		Page: Page 3 of 3
Company: GHD Services Inc.				Job #:

Address: 26850 Haggerty Rd.	Due Date Requested:	Analysis Requested
City: Farmington Hills	TAT Requested (days):	
State, Zip: MI, 48331		
Phone:	PO #: Purchase Order Requested	
Email: ruth.mickle@ghd.com	WO #: 11209506	
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143	
Site:	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
GW-111220-BE-040	11/12/20	1136	G	Water			X	3	
GW-111220-BE-041	11/12/20	1308	"	Water			X	3	
GW-111220-BE-042	11/12/20	1315	"	Water			X	3	
GW-111220-BE-043	11/12/20	1402	G	Water			X	3	
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Brynn Erca	Date/Time: 11/12/20 1700	Company GHD	Received by:	Date/Time: 11-13-20 950	Company EA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 140457**
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Matthew

Cooler Received on 11-13-20 Opened on 11-13-20

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF **+0.9** °C) Observed Cooler Temp. 2.3 °C Corrected Cooler Temp. 3.2 °C
   IR GUN #IR-12 (CF **+0.5**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	(Y) (N)
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11. Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# **HC907861**
14. Were VOAs on the COC?	(Yes)	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	(No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. SAMPLE CONDITION

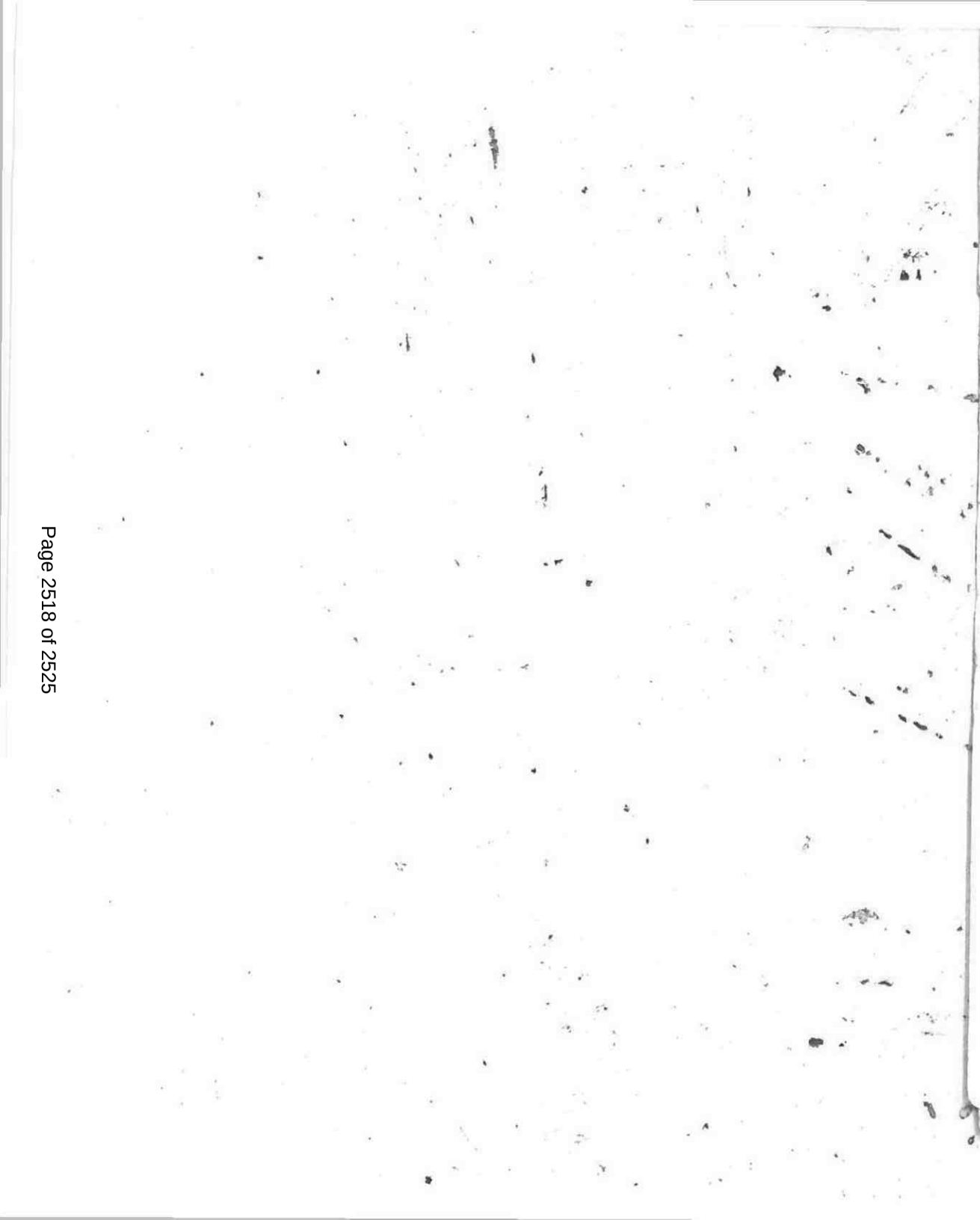
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099



eurofins | Environment Testing TestAmerica

159470434 RIT2 EXP 07/21

Part # 156297-435 RHDB EXP 10/21

ORIGIN ID:MZZA (317) 291-7011
BRYNN EINECKER
GHD SERVICES INC
6520 CORPORATE DR

INDIANAPOLIS, IN 46278
UNITED STATES US

SHIP DATE: 12NOV20
ACTWGT: 48.90 LB
CAD: 6991875/SSF02121
DIMS: 26x14x13 IN

BILL THIRD PARTY

TO EUROFINS TESTAMERICA CANTON

4101 SHUFFEL ST NW

NORTH CANTON OH 44720

(000) 000-0000 REF:

INV:
PO: DEPT:

FedEx Express

TRK# 0201 3988 6709 7458

FRI - 13 NOV 10:30A
PRIORITY OVERNIGHT

AHS
44720
OH-US CLE

NA PHDA

eurofins | Environment Testing TestAmerica

240-140187 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: ETA Canton

City/State: CITY N. Canton STATE OH Project: Anderson, IN

Receipt Information

Date/Time Received: DATE 11.7.20 TIME 1050 Received By: BKM

Delivery Type: ☐ UPS ☑ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☑ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☑ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: N Correction Factor (°C): +0.0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 4.7 Corrected Temp (°C): 4.7

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-128344.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@Eurofinset.com	State of Origin: Indiana	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 240-140187-1
Address: 3019 Venture Way, ,	Due Date Requested: 11/25/2020			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL/5030B (MOD) 8260B, VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GW-110620-BE-019 (240-140187-1)	11/6/20	09:28 Eastern		Water			X	3	
GW-110620-BE-020 (240-140187-2)	11/6/20	11:06 Eastern		Water			X	3	
GW-110620-BE-021 (240-140187-3)	11/6/20	11:10 Eastern		Water			X	3	
GW-110620-BE-022 (240-140187-4)	11/6/20	12:45 Eastern		Water			X	3	
GW-110620-BE-023 (240-140187-5)	11/6/20	13:48 Eastern		Water			X	3	
GW-110620-BE-024 (240-140187-6)	11/6/20	14:53 Eastern		Water			X	3	
GW-110920-BE-025 (240-140187-7)	11/9/20	09:16 Eastern		Water			X	3	
GW-110920-BE-026 (240-140187-8)	11/9/20	10:07 Eastern		Water			X	3	
GW-110920-BE-027 (240-140187-9)	11/9/20	11:59 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Dam	11-16-20 1716	240	BM	11.17.20 1050	EIA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-128344.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@Eurofinset.com	State of Origin: Indiana	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 240-140187-1
Address: 3019 Venture Way, ,	Due Date Requested: 11/25/2020			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL/5030B (MOD) 8260B, VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GW-110920-BE-028 (240-140187-10)	11/9/20	13:03 Eastern		Water			X	9	
GW-110920-BE-029 (240-140187-11)	11/9/20	14:28 Eastern		Water			X	3	
GW-110920-BE-030 (240-140187-12)	11/9/20	15:36 Eastern		Water			X	3	
GW-110920-BE-031 (240-140187-13)	11/9/20	15:44 Eastern		Water			X	3	
GW-111020-BE-032 (240-140187-14)	11/10/20	09:12 Eastern		Water			X	3	
GW-111020-BE-033 (240-140187-15)	11/10/20	09:53 Eastern		Water			X	3	
GW-111120-BE-034 (240-140187-16)	11/11/20	09:19 Eastern		Water			X	3	
GW-111120-BE-035 (240-140187-17)	11/11/20	10:28 Eastern		Water			X	3	
GW-111120-BE-036 (240-140187-18)	11/11/20	12:25 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11-16-20 1716	240	[signature]	11.17.20 1050	57A
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-128344.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@Eurofinset.com	State of Origin: Indiana	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 240-140187-1
Address: 3019 Venture Way, ,	Due Date Requested: 11/25/2020			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL/5030B (MOD) 8260B, VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GW-111120-BE-037 (240-140187-19)	11/11/20	14:57 Eastern		Water			X	3	
TB-111220-BE-003 (240-140187-20)	11/12/20	09:00 Eastern		Water			X	2	
GW-111220-BE-038 (240-140187-21)	11/12/20	09:50 Eastern		Water			X	3	
GW-111220-BE-039 (240-140187-22)	11/12/20	10:38 Eastern		Water			X	3	
GW-111220-BE-040 (240-140187-23)	11/12/20	11:36 Eastern		Water			X	3	
GW-111220-BE-041 (240-140187-24)	11/12/20	13:08 Eastern		Water			X	3	
GW-111220-BE-042 (240-140187-25)	11/12/20	13:15 Eastern		Water			X	3	
GW-111220-BE-043 (240-140187-26)	11/12/20	14:02 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Carm L	11-16-20 1716	ZLO	BT	11.17.20 1050	BTA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-140187-1

Login Number: 140187
List Number: 2
Creator: Marzen, Brita K

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 11/17/20 04:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-140187-1

Login Number: 140187
List Number: 3
Creator: Marzen, Brita K

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 11/17/20 04:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-140187-1

Login Number: 140187
List Number: 4
Creator: Marzen, Brita K

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 11/17/20 04:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 240-140882-1

Job Description: 11209506, MLK - Anderson, IN

For:
GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, MI 48331

Attention: Ms. Ruth Mickle

Approved for release.
Denise D Heckler
Project Manager II
12/8/2020 3:13 PM

Denise D Heckler, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9477
Denise.Heckler@Eurofinset.com
12/08/2020

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: GHD Services Inc. Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
240-140882-1

Comments
No additional comments.

Receipt
The samples were received on 11/24/2020 10:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

Client Sample ID: GW-112320-BE-044
Lab Sample ID: 240-140882-1

No Detections.

Client Sample ID: TB-112320-BE-005
Lab Sample ID: 240-140882-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.8	J	5.0	0.78	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GW-112320-BE-044 — Lab Sample ID: 240-140882-1

Date Collected: 11/23/20 12:24 **Matrix: Water**
Date Received: 11/24/20 10:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			12/01/20 09:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/01/20 09:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.22	ug/L			12/01/20 09:18	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			12/01/20 09:18	1
1,1-Dichloroethene	1.0	U	1.0	0.56	ug/L			12/01/20 09:18	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			12/01/20 09:18	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			12/01/20 09:18	1
2-Hexanone	10	U	10	2.0	ug/L			12/01/20 09:18	1
Acetone	10	U	10	3.1	ug/L			12/01/20 09:18	1
Benzene	1.0	U	1.0	0.22	ug/L			12/01/20 09:18	1
Bromoform	1.0	U	1.0	0.78	ug/L			12/01/20 09:18	1
Bromomethane	1.0	U	1.0	0.82	ug/L			12/01/20 09:18	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			12/01/20 09:18	1
Carbon tetrachloride	1.0	U	1.0	0.65	ug/L			12/01/20 09:18	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			12/01/20 09:18	1
Chloroethane	1.0	U	1.0	0.79	ug/L			12/01/20 09:18	1
Chloroform	1.0	U	1.0	1.3	ug/L			12/01/20 09:18	1
Chloromethane	1.0	U	1.0	0.61	ug/L			12/01/20 09:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			12/01/20 09:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.20	ug/L			12/01/20 09:18	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			12/01/20 09:18	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			12/01/20 09:18	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			12/01/20 09:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			12/01/20 09:18	1
Methylene Chloride	5.0	U	5.0	0.78	ug/L			12/01/20 09:18	1
Styrene	1.0	U	1.0	0.37	ug/L			12/01/20 09:18	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			12/01/20 09:18	1
Toluene	1.0	U	1.0	0.43	ug/L			12/01/20 09:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/01/20 09:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			12/01/20 09:18	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			12/01/20 09:18	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/01/20 09:18	1
Xylenes, Total	2.0	U	2.0	0.40	ug/L			12/01/20 09:18	1
Chlorodibromomethane	1.0	U	1.0	0.11	ug/L			12/01/20 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/01/20 09:18*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*12/01/20 09:18*	*1*
Dibromofluoromethane (Surr)	*104*		*79 - 120*		*12/01/20 09:18*	*1*

Client Sample ID: TB-112320-BE-005 — Lab Sample ID: 240-140882-2

Date Collected: 11/23/20 13:30 **Matrix: Water**
Date Received: 11/24/20 10:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			12/01/20 08:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/01/20 08:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.22	ug/L			12/01/20 08:30	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			12/01/20 08:30	1

Client Sample ID: TB-112320-BE-005 Lab Sample ID: 240-140882-2

Date Collected: 11/23/20 13:30 **Matrix: Water**
Date Received: 11/24/20 10:30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.56	ug/L			12/01/20 08:30	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			12/01/20 08:30	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			12/01/20 08:30	1
2-Hexanone	10	U	10	2.0	ug/L			12/01/20 08:30	1
Acetone	10	U	10	3.1	ug/L			12/01/20 08:30	1
Benzene	1.0	U	1.0	0.22	ug/L			12/01/20 08:30	1
Bromoform	1.0	U	1.0	0.78	ug/L			12/01/20 08:30	1
Bromomethane	1.0	U	1.0	0.82	ug/L			12/01/20 08:30	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			12/01/20 08:30	1
Carbon tetrachloride	1.0	U	1.0	0.65	ug/L			12/01/20 08:30	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			12/01/20 08:30	1
Chloroethane	1.0	U	1.0	0.79	ug/L			12/01/20 08:30	1
Chloroform	1.0	U	1.0	1.3	ug/L			12/01/20 08:30	1
Chloromethane	1.0	U	1.0	0.61	ug/L			12/01/20 08:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			12/01/20 08:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.20	ug/L			12/01/20 08:30	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			12/01/20 08:30	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			12/01/20 08:30	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			12/01/20 08:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			12/01/20 08:30	1
Methylene Chloride	**2.8**	**J**	5.0	0.78	ug/L			12/01/20 08:30	1
Styrene	1.0	U	1.0	0.37	ug/L			12/01/20 08:30	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			12/01/20 08:30	1
Toluene	1.0	U	1.0	0.43	ug/L			12/01/20 08:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/01/20 08:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			12/01/20 08:30	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			12/01/20 08:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/01/20 08:30	1
Xylenes, Total	2.0	U	2.0	0.40	ug/L			12/01/20 08:30	1
Chlorodibromomethane	1.0	U	1.0	0.11	ug/L			12/01/20 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/01/20 08:30*	*1*
Toluene-d8 (Surr)	*103*		*79 - 120*		*12/01/20 08:30*	*1*
Dibromofluoromethane (Surr)	*106*		*79 - 120*		*12/01/20 08:30*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11209506, MLK - Anderson, IN

Job ID: 240-140882-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(79-120)	(79-120)
240-140882-1	GW-112320-BE-044	95	103	104
240-140882-2	TB-112320-BE-005	96	103	106
LCS 310-300750/6	Lab Control Sample	97	104	107
LCS 310-300750/7	Lab Control Sample	94	102	105
MB 310-300750/8	Method Blank	96	104	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-300750/8
Matrix: Water
Analysis Batch: 300750

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.19	ug/L			12/01/20 06:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			12/01/20 06:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.22	ug/L			12/01/20 06:29	1
1,1-Dichloroethane	1.0	U	1.0	0.22	ug/L			12/01/20 06:29	1
1,1-Dichloroethene	1.0	U	1.0	0.56	ug/L			12/01/20 06:29	1
1,2-Dichloroethane	1.0	U	1.0	0.39	ug/L			12/01/20 06:29	1
1,2-Dichloropropane	1.0	U	1.0	0.27	ug/L			12/01/20 06:29	1
2-Hexanone	10	U	10	2.0	ug/L			12/01/20 06:29	1
Acetone	10	U	10	3.1	ug/L			12/01/20 06:29	1
Benzene	1.0	U	1.0	0.22	ug/L			12/01/20 06:29	1
Bromoform	1.0	U	1.0	0.78	ug/L			12/01/20 06:29	1
Bromomethane	1.0	U	1.0	0.82	ug/L			12/01/20 06:29	1
Carbon disulfide	1.0	U	1.0	0.45	ug/L			12/01/20 06:29	1
Carbon tetrachloride	1.0	U	1.0	0.65	ug/L			12/01/20 06:29	1
Chlorobenzene	1.0	U	1.0	0.40	ug/L			12/01/20 06:29	1
Chloroethane	1.0	U	1.0	0.79	ug/L			12/01/20 06:29	1
Chloroform	1.0	U	1.0	1.3	ug/L			12/01/20 06:29	1
Chloromethane	1.0	U	1.0	0.61	ug/L			12/01/20 06:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.21	ug/L			12/01/20 06:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.20	ug/L			12/01/20 06:29	1
Dichlorobromomethane	1.0	U	1.0	0.39	ug/L			12/01/20 06:29	1
Ethylbenzene	1.0	U	1.0	0.31	ug/L			12/01/20 06:29	1
2-Butanone (MEK)	10	U	10	2.1	ug/L			12/01/20 06:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			12/01/20 06:29	1
Methylene Chloride	5.0	U	5.0	0.78	ug/L			12/01/20 06:29	1
Styrene	1.0	U	1.0	0.37	ug/L			12/01/20 06:29	1
Tetrachloroethene	1.0	U	1.0	0.48	ug/L			12/01/20 06:29	1
Toluene	1.0	U	1.0	0.43	ug/L			12/01/20 06:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/01/20 06:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			12/01/20 06:29	1
Trichloroethene	1.0	U	1.0	0.43	ug/L			12/01/20 06:29	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/01/20 06:29	1
Xylenes, Total	2.0	U	2.0	0.40	ug/L			12/01/20 06:29	1
Chlorodibromomethane	1.0	U	1.0	0.11	ug/L			12/01/20 06:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/01/20 06:29*	*1*
Toluene-d8 (Surr)	*104*		*79 - 120*		*12/01/20 06:29*	*1*
Dibromofluoromethane (Surr)	*105*		*79 - 120*		*12/01/20 06:29*	*1*

Lab Sample ID: LCS 310-300750/6
Matrix: Water
Analysis Batch: 300750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			20.0	19.8		ug/L		99	70 - 129		
1,1,2,2-Tetrachloroethane			20.0	20.9		ug/L		104	66 - 129		
1,1,2-Trichloroethane			20.0	20.3		ug/L		102	68 - 128		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-300750/6
Matrix: Water
Analysis Batch: 300750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	19.5		ug/L		97	71 - 131
1,1-Dichloroethene	20.0	18.4		ug/L		92	64 - 137
1,2-Dichloroethane	20.0	22.2		ug/L		111	72 - 128
1,2-Dichloropropane	20.0	19.6		ug/L		98	71 - 130
2-Hexanone	40.0	39.9		ug/L		100	56 - 138
Acetone	40.0	37.3		ug/L		93	50 - 150
Benzene	20.0	18.9		ug/L		95	73 - 127
Bromoform	20.0	15.8		ug/L		79	58 - 125
Carbon disulfide	20.0	18.4		ug/L		92	58 - 140
Carbon tetrachloride	20.0	19.0		ug/L		95	66 - 136
Chlorobenzene	20.0	19.5		ug/L		97	72 - 124
Chloroform	20.0	19.1		ug/L		96	72 - 125
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	71 - 130
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	69 - 122
Dichlorobromomethane	20.0	20.1		ug/L		100	70 - 122
Ethylbenzene	20.0	20.8		ug/L		104	73 - 127
m-Xylene & p-Xylene	20.0	20.7		ug/L		103	72 - 128
2-Butanone (MEK)	40.0	39.6		ug/L		99	49 - 150
4-Methyl-2-pentanone (MIBK)	40.0	41.4		ug/L		103	60 - 135
Methylene Chloride	20.0	16.9		ug/L		84	48 - 150
o-Xylene	20.0	19.8		ug/L		99	70 - 128
Styrene	20.0	19.0		ug/L		95	69 - 127
Tetrachloroethene	20.0	17.5		ug/L		88	68 - 135
Toluene	20.0	18.6		ug/L		93	71 - 126
trans-1,2-Dichloroethene	20.0	19.1		ug/L		96	69 - 132
trans-1,3-Dichloropropene	20.0	17.0		ug/L		85	65 - 123
Trichloroethene	20.0	19.4		ug/L		97	71 - 130
Xylenes, Total	40.0	40.5		ug/L		101	70 - 128
Chlorodibromomethane	20.0	18.0		ug/L		90	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*107*		*79 - 120*

Lab Sample ID: LCS 310-300750/7
Matrix: Water
Analysis Batch: 300750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	9.10		ug/L		91	22 - 150
Chloroethane	10.0	10.6		ug/L		106	61 - 139
Chloromethane	10.0	11.4		ug/L		114	48 - 150
Vinyl chloride	10.0	10.5		ug/L		105	65 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*102*		*79 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-300750/7
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 300750

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*105*		*79 - 120*

QC Association Summary

Client: GHD Services Inc.
Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

GC/MS VOA

Analysis Batch: 300750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140882-1	GW-112320-BE-044	Total/NA	Water	8260D	
240-140882-2	TB-112320-BE-005	Total/NA	Water	8260D	
MB 310-300750/8	Method Blank	Total/NA	Water	8260D	
LCS 310-300750/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-300750/7	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

Client: GHD Services Inc. Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

Client Sample ID: GW-112320-BE-044 Lab Sample ID: 240-140882-1

Date Collected: 11/23/20 12:24 **Matrix: Water**
Date Received: 11/24/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	300750	12/01/20 09:18	SJN	TAL CF

Client Sample ID: TB-112320-BE-005 Lab Sample ID: 240-140882-2

Date Collected: 11/23/20 13:30 **Matrix: Water**
Date Received: 11/24/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	300750	12/01/20 08:30	SJN	TAL CF

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

Laboratory: Eurofins TestAmerica, Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-21
Georgia	State	IA100001 (OR)	09-29-21
Illinois	NELAP	200024	11-29-21
Iowa	State	007	12-01-21
Kansas	NELAP	E-10341	01-31-21
Minnesota	NELAP	019-999-319	12-31-21
Minnesota (Petrofund)	State	3349	08-22-21
North Dakota	State	R-186	09-29-21
Oregon	NELAP	IA100001	09-29-21
USDA	US Federal Programs	P330-19-00003	01-02-22

Method Summary

Client: GHD Services Inc.
Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CF
5030B	Purge and Trap	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Sample Summary

Client: GHD Services Inc.
Job ID: 240-140882-1
Project/Site: 11209506, MLK - Anderson, IN

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-140882-1	GW-112320-BE-044	Water	11/23/20 12:24	11/24/20 10:30	
240-140882-2	TB-112320-BE-005	Water	11/23/20 13:30	11/24/20 10:30	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 293913

Lab Sample ID: STD1 310-293913/24 IC Client Sample ID:

Date Analyzed: 10/02/20 00:09 Lab File ID: c5282.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/02/20 07:52
Chloromethane	1.52	Split Peak	nelsonsa	10/02/20 07:52
Vinyl chloride	1.56	Split Peak	nelsonsa	10/02/20 07:51
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:51
Bromomethane	1.83	Split Peak	nelsonsa	10/02/20 07:51
Chloroethane	1.91	Split Peak	nelsonsa	10/02/20 07:51
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/02/20 07:51
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:51

Lab Sample ID: STD2 310-293913/25 IC Client Sample ID:

Date Analyzed: 10/02/20 00:33 Lab File ID: c5283.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.28	Split Peak	nelsonsa	10/02/20 07:52
Vinyl chloride	1.53	Split Peak	nelsonsa	10/02/20 07:53
Chloromethane	1.54	Split Peak	nelsonsa	10/02/20 07:53
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:53
Bromomethane	1.81	Split Peak	nelsonsa	10/02/20 07:55
Chloroethane	1.92	Split Peak	nelsonsa	10/02/20 07:55
Dichlorofluoromethane	2.11	Split Peak	nelsonsa	10/02/20 07:55
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:55
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/02/20 07:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 293913

Lab Sample ID: STD3 310-293913/26 IC Client Sample ID:

Date Analyzed: 10/02/20 00:57 Lab File ID: c5284.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.28	Split Peak	nelsonsa	10/02/20 07:56
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 07:56
Vinyl chloride	1.54	Split Peak	nelsonsa	10/02/20 07:56
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:56
Bromomethane	1.81	Split Peak	nelsonsa	10/02/20 07:56
Chloroethane	1.92	Split Peak	nelsonsa	10/02/20 07:56
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/02/20 07:56
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:55

Lab Sample ID: STD4 310-293913/27 IC Client Sample ID:

Date Analyzed: 10/02/20 01:21 Lab File ID: c5285.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.28	Split Peak	nelsonsa	10/02/20 07:57
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 07:57
Vinyl chloride	1.53	Split Peak	nelsonsa	10/02/20 07:57
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/02/20 07:57
Bromomethane	1.82	Split Peak	nelsonsa	10/02/20 07:57
Chloroethane	1.92	Split Peak	nelsonsa	10/02/20 07:57
Dichlorofluoromethane	2.11	Split Peak	nelsonsa	10/02/20 07:57
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:57

Lab Sample ID: STD5 310-293913/28 IC Client Sample ID:

Date Analyzed: 10/02/20 01:45 Lab File ID: c5286.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.86	Split Peak	nelsonsa	10/02/20 08:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 293913

Lab Sample ID: STD6 310-293913/29 IC Client Sample ID:

Date Analyzed: 10/02/20 02:09 Lab File ID: c5287.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 07:58
Bromomethane	1.86	Split Peak	nelsonsa	10/02/20 07:59
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 07:59

Lab Sample ID: STD7 310-293913/30 IC Client Sample ID:

Date Analyzed: 10/02/20 02:33 Lab File ID: c5288.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.53	Split Peak	nelsonsa	10/02/20 08:01
Bromomethane	1.87	Split Peak	nelsonsa	10/02/20 08:00
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/02/20 08:00

Lab Sample ID: STD8 310-293913/31 IC Client Sample ID:

Date Analyzed: 10/02/20 02:57 Lab File ID: c5289.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.86	Split Peak	nelsonsa	10/02/20 07:54

Lab Sample ID: STD9 310-293913/32 IC Client Sample ID:

Date Analyzed: 10/02/20 03:21 Lab File ID: c5290.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.85	Split Peak	nelsonsa	10/02/20 08:04
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/02/20 08:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD1 310-295162/3 IC Client Sample ID:

Date Analyzed: 10/13/20 08:16 Lab File ID: c5865.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.39	Wrong peak	nelsonsa	10/13/20 16:03
Acrolein	2.56	Wrong peak	nelsonsa	10/13/20 16:03
1,1-Dichloroethene	2.66	Wrong peak	nelsonsa	10/13/20 16:03
Acetone	2.71	Wrong peak	nelsonsa	10/13/20 16:03
Carbon disulfide	2.83	Wrong peak	nelsonsa	10/13/20 16:04
Isopropyl alcohol	2.88	Wrong peak	nelsonsa	10/13/20 16:04
Acetonitrile	2.97	Wrong peak	nelsonsa	10/13/20 16:04
Allyl chloride	3.01	Wrong peak	nelsonsa	10/13/20 16:04
Methyl acetate	3.04	Wrong peak	nelsonsa	10/13/20 16:04
tert-Butanol	3.26	Wrong peak	nelsonsa	10/13/20 16:04
Acrylonitrile	3.34	Wrong peak	nelsonsa	10/13/20 16:05
1,1-Dichloroethane	3.76	Wrong peak	nelsonsa	10/13/20 16:05
Vinyl acetate	3.84	Wrong peak	nelsonsa	10/13/20 16:05
2,2-Dichloropropane	4.32	Wrong peak	nelsonsa	10/13/20 16:05
cis-1,2-Dichloroethene	4.33	Wrong peak	nelsonsa	10/13/20 16:05
2-Butanone (MEK)	4.35	Wrong peak	nelsonsa	10/13/20 16:06
Propionitrile	4.39	Wrong peak	nelsonsa	10/13/20 16:06
Ethyl acetate	4.42	Wrong peak	nelsonsa	10/13/20 16:06
Isobutyl alcohol	5.11	Wrong peak	nelsonsa	10/13/20 16:07
1,2-Dichloroethane	5.17	Wrong peak	nelsonsa	10/13/20 16:07
n-Butanol	5.26	Wrong peak	nelsonsa	10/13/20 16:07
Heptane	5.45	Wrong peak	nelsonsa	10/13/20 16:07
Ethyl acrylate	5.92	Wrong peak	nelsonsa	10/13/20 16:07
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/13/20 16:02
Dibromomethane	6.12	Wrong peak	nelsonsa	10/13/20 16:07
2-Nitropropane	6.53	Wrong peak	nelsonsa	10/13/20 16:08
2-Chloroethyl vinyl ether	6.62	Wrong peak	nelsonsa	10/13/20 16:08
4-Methyl-2-pentanone (MIBK)	6.93	Wrong peak	nelsonsa	10/13/20 16:08
trans-1,3-Dichloropropene	7.34	Wrong peak	nelsonsa	10/13/20 16:08
Ethyl methacrylate	7.46	Wrong peak	nelsonsa	10/13/20 16:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD1 310-295162/3 IC Client Sample ID:

Date Analyzed: 10/13/20 08:16 Lab File ID: c5865.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	7.68	Wrong peak	nelsonsa	10/13/20 16:08
2-Hexanone	7.82	Wrong peak	nelsonsa	10/13/20 16:08
Chlorodibromomethane	7.93	Wrong peak	nelsonsa	10/13/20 16:09
n-Butyl acetate	7.98	Wrong peak	nelsonsa	10/13/20 16:09
1,2-Dibromoethane (EDB)	8.05	Wrong peak	nelsonsa	10/13/20 16:09
Chlorobenzene	8.60	Wrong peak	nelsonsa	10/13/20 16:09
Ethylbenzene	8.75	Wrong peak	nelsonsa	10/13/20 16:09
m,p-Xylene	8.88	Wrong peak	nelsonsa	10/13/20 16:09
Bromoform	9.53	Wrong peak	nelsonsa	10/13/20 16:10
1,1,2,2-Tetrachloroethane	10.09	Wrong peak	nelsonsa	10/13/20 16:10
1,2,3-Trichloropropane	10.15	Wrong peak	nelsonsa	10/13/20 16:10
2-Chlorotoluene	10.32	Wrong peak	nelsonsa	10/13/20 16:10
1,4-Dichlorobenzene	11.30	Wrong peak	nelsonsa	10/13/20 16:11
Hexachlorobutadiene	13.93	Wrong peak	nelsonsa	10/13/20 16:11
Naphthalene	13.97	Wrong peak	nelsonsa	10/13/20 16:11
1,2,3-Trichlorobenzene	14.27	Wrong peak	nelsonsa	10/13/20 16:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD2 310-295162/4 IC Client Sample ID:

Date Analyzed: 10/13/20 08:40 Lab File ID: c5866.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.36	Split Peak	nelsonsa	10/13/20 16:20
Acrolein	2.56	Split Peak	nelsonsa	10/13/20 16:19
1,1-Dichloroethene	2.65	Split Peak	nelsonsa	10/13/20 16:19
Acetone	2.71	Split Peak	nelsonsa	10/13/20 16:19
Carbon disulfide	2.83	Split Peak	nelsonsa	10/13/20 16:19
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 16:19
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 16:19
Allyl chloride	3.00	Split Peak	nelsonsa	10/13/20 16:19
Methyl acetate	3.04	Split Peak	nelsonsa	10/13/20 16:18
Methylene Chloride	3.11	Split Peak	nelsonsa	10/13/20 16:18
Acrylonitrile	3.34	Split Peak	nelsonsa	10/13/20 16:18
1,1-Dichloroethane	3.77	Split Peak	nelsonsa	10/13/20 16:18
cis-1,2-Dichloroethene	4.31	Split Peak	nelsonsa	10/13/20 16:18
Propionitrile	4.39	Split Peak	nelsonsa	10/13/20 16:18
Ethyl acetate	4.41	Split Peak	nelsonsa	10/13/20 16:17
Bromochloromethane	4.54	Split Peak	nelsonsa	10/13/20 16:17
Tetrahydrofuran	4.61	Split Peak	nelsonsa	10/13/20 16:17
n-Butanol	5.26	Split Peak	nelsonsa	10/13/20 16:17
1,2-Dichloropropane	6.01	Split Peak	nelsonsa	10/13/20 16:17
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	10/13/20 16:20
Dibromomethane	6.11	Split Peak	nelsonsa	10/13/20 16:16
2-Hexanone	7.82	Split Peak	nelsonsa	10/13/20 16:16
Chlorodibromomethane	7.94	Split Peak	nelsonsa	10/13/20 16:16
Chlorobenzene	8.61	Split Peak	nelsonsa	10/13/20 16:16
Ethylbenzene	8.74	Split Peak	nelsonsa	10/13/20 16:16
1,1,2,2-Tetrachloroethane	10.10	Split Peak	nelsonsa	10/13/20 16:15
1,2,3-Trichloropropane	10.14	Split Peak	nelsonsa	10/13/20 16:15
trans-1,4-Dichloro-2-butene	10.17	Peak assignment corrected	nelsonsa	10/13/20 16:15
2-Chlorotoluene	10.32	Peak assignment corrected	nelsonsa	10/13/20 16:15
1,4-Dichlorobenzene	11.30	Peak assignment corrected	nelsonsa	10/13/20 16:14

8260D

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD2 310-295162/4 IC Client Sample ID:

Date Analyzed: 10/13/20 08:40 Lab File ID: c5866.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzyl chloride	11.47	Peak assignment corrected	nelsonsa	10/13/20 16:14

Lab Sample ID: STD3 310-295162/5 IC Client Sample ID:

Date Analyzed: 10/13/20 09:05 Lab File ID: c5867.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.37	Split Peak	nelsonsa	10/13/20 16:22
Acrolein	2.56	Split Peak	nelsonsa	10/13/20 16:22
1,1-Dichloroethene	2.66	Split Peak	nelsonsa	10/13/20 16:22
Acetone	2.71	Split Peak	nelsonsa	10/13/20 16:23
Carbon disulfide	2.84	Split Peak	nelsonsa	10/13/20 16:23
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 16:23
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 16:23
Allyl chloride	3.00	Split Peak	nelsonsa	10/13/20 16:23
Methyl acetate	3.04	Split Peak	nelsonsa	10/13/20 16:24
Methylene Chloride	3.11	Split Peak	nelsonsa	10/13/20 16:24
1,1-Dichloroethane	3.78	Split Peak	nelsonsa	10/13/20 16:24
cis-1,2-Dichloroethene	4.32	Split Peak	nelsonsa	10/13/20 16:24
Propionitrile	4.40	Split Peak	nelsonsa	10/13/20 16:24
n-Butanol	5.27	Split Peak	nelsonsa	10/13/20 16:25
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/13/20 16:21
Chlorobenzene	8.61	Split Peak	nelsonsa	10/13/20 16:25
Ethylbenzene	8.74	Split Peak	nelsonsa	10/13/20 16:26
trans-1,4-Dichloro-2-butene	10.16	Split Peak	nelsonsa	10/13/20 16:26
1,4-Dichlorobenzene	11.30	Split Peak	nelsonsa	10/13/20 16:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD4 310-295162/6 IC Client Sample ID:

Date Analyzed: 10/13/20 09:29 Lab File ID: c5868.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.38	Peak assignment corrected	nelsonsa	10/13/20 17:53
Acrolein	2.56	Split Peak	nelsonsa	10/13/20 17:53
1,1-Dichloroethene	2.65	Split Peak	nelsonsa	10/13/20 17:53
Acetone	2.71	Split Peak	nelsonsa	10/13/20 17:53
Iodomethane	2.78	Split Peak	nelsonsa	10/13/20 17:53
Carbon disulfide	2.84	Split Peak	nelsonsa	10/13/20 17:53
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 17:53
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 17:53
Allyl chloride	3.01	Split Peak	nelsonsa	10/13/20 17:54
Methyl acetate	3.03	Split Peak	nelsonsa	10/13/20 17:54
tert-Butanol	3.26	Split Peak	nelsonsa	10/13/20 17:54
1,1-Dichloroethane	3.77	Split Peak	nelsonsa	10/13/20 17:54
Propionitrile	4.39	Split Peak	nelsonsa	10/13/20 17:54
Tetrahydrofuran	4.60	Split Peak	nelsonsa	10/13/20 17:54
n-Butanol	5.26	Split Peak	nelsonsa	10/13/20 17:54
1,3-Dichlorobenzene	11.20	Split Peak	nelsonsa	10/13/20 17:55
1,4-Dichlorobenzene	11.30	Split Peak	nelsonsa	10/13/20 17:55

Lab Sample ID: STD5 310-295162/7 IC Client Sample ID:

Date Analyzed: 10/13/20 09:53 Lab File ID: c5869.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.37	Split Peak	nelsonsa	10/13/20 16:43
Acetone	2.71	Split Peak	nelsonsa	10/13/20 16:43
Allyl chloride	3.01	Split Peak	nelsonsa	10/13/20 16:43
Methyl acetate	3.03	Split Peak	nelsonsa	10/13/20 16:42
1,1-Dichloroethane	3.78	Split Peak	nelsonsa	10/13/20 16:42
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 16:42
Ethylbenzene	8.74	Peak assignment corrected	nelsonsa	10/13/20 16:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD6 310-295162/8 IC Client Sample ID:

Date Analyzed: 10/13/20 10:17 Lab File ID: c5870.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.37	Peak assignment corrected	nelsonsa	10/13/20 16:47
Isopropyl alcohol	2.89	Split Peak	nelsonsa	10/13/20 16:48
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 16:48
n-Butanol	5.26	Split Peak	nelsonsa	10/13/20 16:48
Ethylbenzene	8.74	Split Peak	nelsonsa	10/13/20 16:48

Lab Sample ID: STD7 310-295162/9 IC Client Sample ID:

Date Analyzed: 10/13/20 10:42 Lab File ID: c5871.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 16:57
Ethylbenzene	8.74	Peak assignment corrected	nelsonsa	10/13/20 16:57
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 16:57

Lab Sample ID: ICIS 310-295162/10 Client Sample ID:

Date Analyzed: 10/13/20 11:06 Lab File ID: c5872.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:01
Ethylbenzene	8.74	Peak assignment corrected	nelsonsa	10/13/20 17:01
m-Xylene & p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD9 310-295162/11 IC Client Sample ID:

Date Analyzed: 10/13/20 11:30 Lab File ID: c5873.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:06
Ethylbenzene	8.75	Peak assignment corrected	nelsonsa	10/13/20 17:06
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:05

Lab Sample ID: STD10 310-295162/12 IC Client Sample ID:

Date Analyzed: 10/13/20 11:55 Lab File ID: c5874.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Peak assignment corrected	nelsonsa	10/13/20 17:07
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:07
Ethylbenzene	8.75	Peak assignment corrected	nelsonsa	10/13/20 17:07
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:07

Lab Sample ID: STD11 310-295162/13 IC Client Sample ID:

Date Analyzed: 10/13/20 12:19 Lab File ID: c5875.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 17:09
Ethylbenzene	8.75	Peak assignment corrected	nelsonsa	10/13/20 17:09
m,p-Xylene	8.88	Peak assignment corrected	nelsonsa	10/13/20 17:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD12 310-295162/14 IC Client Sample ID:

Date Analyzed: 10/13/20 12:43 Lab File ID: c5876.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Peak assignment corrected	nelsonsa	10/13/20 17:10
n-Butanol	5.27	Peak assignment corrected	nelsonsa	10/13/20 17:10
Ethylbenzene	8.76	Peak assignment corrected	nelsonsa	10/13/20 17:10
m,p-Xylene	8.89	Peak assignment corrected	nelsonsa	10/13/20 17:10
1,4-Dichlorobenzene-d4	11.28	Peak assignment corrected	nelsonsa	10/13/20 17:10

Lab Sample ID: ICV 310-295162/18 Client Sample ID:

Date Analyzed: 10/13/20 14:20 Lab File ID: c5880.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	2.96	Split Peak	nelsonsa	10/13/20 18:09
n-Butanol	5.26	Peak assignment corrected	nelsonsa	10/13/20 18:08

Lab Sample ID: STD1 310-295162/23 IC Client Sample ID:

Date Analyzed: 10/14/20 04:42 Lab File ID: c5903.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 07:54
Chloromethane	1.52	Split Peak	nelsonsa	10/14/20 07:54
Vinyl chloride	1.56	Split Peak	nelsonsa	10/14/20 07:53
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 07:53
Bromomethane	1.85	Split Peak	nelsonsa	10/14/20 07:53
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 07:53
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/14/20 07:53
Trichlorofluoromethane	2.18	Split Peak	nelsonsa	10/14/20 07:53
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	10/14/20 07:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD2 310-295162/24 IC Client Sample ID:

Date Analyzed: 10/14/20 05:06 Lab File ID: c5904.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 07:59
Chloromethane	1.53	Split Peak	nelsonsa	10/14/20 07:59
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 07:59
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:00
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 08:00
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/14/20 08:00
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:00
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/14/20 07:59

Lab Sample ID: STD3 310-295162/25 IC Client Sample ID:

Date Analyzed: 10/14/20 05:31 Lab File ID: c5905.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 08:08
Chloromethane	1.53	Split Peak	nelsonsa	10/14/20 08:08
Vinyl chloride	1.54	Split Peak	nelsonsa	10/14/20 08:08
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 08:08
Bromomethane	1.83	Split Peak	nelsonsa	10/14/20 08:07
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 08:07
Dichlorofluoromethane	2.12	Split Peak	nelsonsa	10/14/20 08:07
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:07
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	10/14/20 08:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD4 310-295162/26 IC Client Sample ID:

Date Analyzed: 10/14/20 05:55 Lab File ID: c5906.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.29	Split Peak	nelsonsa	10/14/20 08:10
Chloromethane	1.53	Split Peak	nelsonsa	10/14/20 08:10
1,3-Butadiene	1.57	Split Peak	nelsonsa	10/14/20 08:10
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:10
Dichlorofluoromethane	2.11	Split Peak	nelsonsa	10/14/20 08:10
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:11
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/14/20 08:10

Lab Sample ID: STD5 310-295162/27 IC Client Sample ID:

Date Analyzed: 10/14/20 06:19 Lab File ID: c5907.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.83	Split Peak	nelsonsa	10/14/20 08:11
Chloroethane	1.92	Split Peak	nelsonsa	10/14/20 08:11
Trichlorofluoromethane	2.17	Split Peak	nelsonsa	10/14/20 08:11
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	10/14/20 08:11

Lab Sample ID: STD6 310-295162/28 IC Client Sample ID:

Date Analyzed: 10/14/20 06:44 Lab File ID: c5908.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.51	Split Peak	nelsonsa	10/14/20 08:15
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:15
1,4-Dioxane-d8	6.10	Split Peak	nelsonsa	10/14/20 08:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD7 310-295162/29 IC Client Sample ID:

Date Analyzed: 10/14/20 07:41 Lab File ID: c5910.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.85	Split Peak	nelsonsa	10/14/20 08:16
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/14/20 08:16

Lab Sample ID: STD8 310-295162/30 IC Client Sample ID:

Date Analyzed: 10/14/20 08:05 Lab File ID: c5911.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.84	Split Peak	nelsonsa	10/14/20 08:37
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/14/20 08:36

Lab Sample ID: STD9 310-295162/31 IC Client Sample ID:

Date Analyzed: 10/14/20 08:30 Lab File ID: c5912.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.82	Split Peak	nelsonsa	10/14/20 08:51
1,4-Dioxane-d8	6.11	Split Peak	nelsonsa	10/14/20 08:51

Lab Sample ID: STD10 310-295162/32 IC Client Sample ID:

Date Analyzed: 10/14/20 08:54 Lab File ID: c5913.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.10	Peak assignment corrected	nelsonsa	10/14/20 09:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 295162

Lab Sample ID: STD11 310-295162/33 IC Client Sample ID:

Date Analyzed: 10/14/20 09:19 Lab File ID: c5914.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/15/20 01:13

Lab Sample ID: STD12 310-295162/34 IC Client Sample ID:

Date Analyzed: 10/14/20 09:44 Lab File ID: c5915.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	10/15/20 01:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 300750

Lab Sample ID: CCV 310-300750/4 Client Sample ID:

Date Analyzed: 12/01/20 04:52 Lab File ID: c8877.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	2.89	Split Peak	nelsonsa	12/01/20 05:21
Acetonitrile	2.96	Split Peak	nelsonsa	12/01/20 05:21
tert-Butanol	3.27	Split Peak	nelsonsa	12/01/20 05:21
1,2,4-Trichlorobenzene	12.94	Split Peak	nelsonsa	12/01/20 05:22

Lab Sample ID: CCV 310-300750/5 Client Sample ID:

Date Analyzed: 12/01/20 05:16 Lab File ID: c8878.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.84	Split Peak	nelsonsa	12/01/20 06:48

Lab Sample ID: LCS 310-300750/7 Client Sample ID:

Date Analyzed: 12/01/20 06:04 Lab File ID: c8880.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.53	Split Peak	nelsonsa	12/01/20 06:31
Vinyl chloride	1.54	Split Peak	nelsonsa	12/01/20 07:25
Bromomethane	1.83	Split Peak	nelsonsa	12/01/20 06:31
Chloroethane	1.92	Split Peak	nelsonsa	12/01/20 07:25

Lab Sample ID: MB 310-300750/8 Client Sample ID:

Date Analyzed: 12/01/20 06:29 Lab File ID: c8881.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	2.84	Wrong peak	nelsonsa	12/01/20 07:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Analysis Batch Number: 300750

Lab Sample ID: 240-140882-2 Client Sample ID:

Date Analyzed: 12/01/20 08:30 Lab File ID: c8886.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.11	Peak assignment corrected	nelsonsa	12/01/20 08:54

Lab Sample ID: 240-140882-1 Client Sample ID: GW-112320-BE-044

Date Analyzed: 12/01/20 09:18 Lab File ID: c8888.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	2.71	Split Peak	nelsonsa	12/02/20 05:44
Carbon disulfide	2.84	Split Peak	nelsonsa	12/02/20 05:44
1,4-Dioxane-d8	6.12	Peak assignment corrected	nelsonsa	12/02/20 05:44

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VV_I_GASES_00407	10/04/20	09/28/20	Methanol, Lot 230446	10 mL	VV_M_GASES_00693	1 mL	Bromomethane	250 ug/mL
							Butadiene	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00693	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_GASES_00409	10/18/20	10/12/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00730	1 mL	Bromomethane	250 ug/mL
							Butadiene	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00730	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_GASES_00416	12/06/20	11/30/20	Methanol, Lot 258810	10 mL	VV_M_GASES_00736	1 mL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00736	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VV_I_ICVGAS_00275	10/15/20	10/08/20	Methanol, Lot 230446	10 mL	VV_M_GASES_00739	1 mL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.VV_M_GASES_00739	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2500 ug/mL
VV_I_ICVSOL_00052	11/01/20	05/01/20	Methanol, Lot 198123	10 mL	VV_M_KETONES_00235	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00246	1 mL	1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							Benzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methylene Chloride	250 ug/mL
							o-Xylene	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
.VV_M_KETONES_00235	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00246	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VV_I_MOSOL_00217	01/31/21	10/08/20	Methanol, Lot 230446	10 mL	VV_M_2CEVE_00260	1 mL	2-Chloroethyl vinyl ether	250 ug/mL
					VV_M_Acrolein_00251	0.6 mL	Acrolein	1189.8 ug/mL
					VV_M_ETOH_00074	1 mL	Ethanol	10000 ug/mL
					VV_M_KETONES_00263	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00278	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorobromomethane	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromomethane	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Ethylene Dibromide	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
					VV_M_POLADD_00222	1 mL	Acetonitrile	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl ether	250 ug/mL
							Propionitrile	2500 ug/mL
							Tert-amyl methyl ether	250 ug/mL
							Tert-butyl ethyl ether	250 ug/mL
					VV_M_STD6_00158	1 mL	1,2,3-Trimethylbenzene	250 ug/mL
							1,3,5-Trichlorobenzene	250 ug/mL
							2-Chloro-1,3-butadiene	250 ug/mL
							2-Nitropropane	500 ug/mL
							Benzyl chloride	250 ug/mL
							Isopropyl alcohol	2500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	6250 ug/mL
					VV_M_STD7_00145	1 mL	Ethyl acetate	500 ug/mL
							Ethyl acrylate	250 ug/mL
							Methyl methacrylate	500 ug/mL
							n-Butyl acetate	250 ug/mL
					VV_M_VINYLACE_00312	1 mL	Vinyl acetate	500 ug/mL
.VV_M_2CEVE_00260	03/31/23		Restek, Lot A0158872		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VV_M_Acrolein_00251	07/31/21		Restek, Lot A0156859		(Purchased Reagent)		Acrolein	19830 ug/mL
.VV_M_ETOH_00074	12/31/22		Restek, Lot A0156082		(Purchased Reagent)		Ethanol	100000 ug/mL
.VV_M_KETONES_00263	12/31/22		Restek, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00278	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VV_M_POLADD_00222	01/31/21	Restek, Lot A0144915			(Purchased Reagent)		Acetonitrile	25000 ug/mL

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VV_M_STD6_00158	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VV_M_STD7_00145	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VV_M_VINYLACE_00312	10/31/21		Restek, Lot A0160321		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VV_I_MOSOL_00217	01/31/21	10/08/20	Methanol, Lot 230446	10 mL	VV_M_Megamix_00278	1 mL	Xylenes, Total	500 ug/mL
.VV_M_Megamix_00278	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
VV_I_MOSOL_00220	05/16/21	11/16/20	Methanol, Lot 230446	10 mL	VV_M_KETONES_00267	0.4 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					VV_M_Megamix_00285	1 mL	1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							Benzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methylene Chloride	250 ug/mL
							o-Xylene	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
.VV_M_KETONES_00267	12/31/22		Restek, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VV_M_Megamix_00285	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VV_M_ISSTD_00250	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
VV_M_ISSTD_00331							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							BFB	
							Chlorobenzene-d5	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	250 ug/mL
							Xylenes, Total	

Reagent

VV_M_2CEVE_00260

SJN 8/4/20

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0158872

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether **CAS #** 110-75-8 **Purity** 99% (Lot MKBS6526V)	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 53.5360 µg/mL +/- 55.0924 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

2838588
ID: VV_M_2CEVE_00261
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838587
ID: VV_M_2CEVE_00260
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838586
ID: VV_M_2CEVE_00259
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838585
ID: VV_M_2CEVE_00258
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

2838584
ID: VV_M_2CEVE_00257
Exp: 03/31/23 Prpd: SJN
2-Chloroethyl Vinyl Ether

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

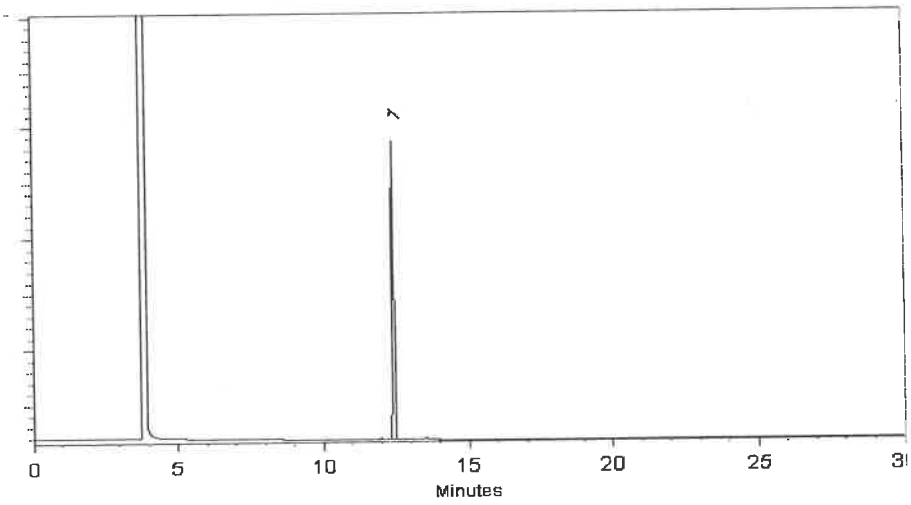
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

Date Mixed: 16-Mar-2020 **Balance:** B707717271

Tyler Brown - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_ETOH_00074

SJN 7/6/20

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571994 **Lot No.:** A0156082

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol **CAS #** 64-17-5 **Purity** 99% (Lot SHBK6489)	100,295.5 µg/mL	+/- 587.2219 µg/mL +/- 2,148.4543 µg/mL +/- 2,210.8497 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2807027
ID: VV_M_ETOH_00077
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807026
ID: VV_M_ETOH_00076
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807025
ID: VV_M_ETOH_00075
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807024
ID: VV_M_ETOH_00074
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

2807023
ID: VV_M_ETOH_00073
Exp: 12/31/22 Prpd: SJN
Ethanol Standard

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

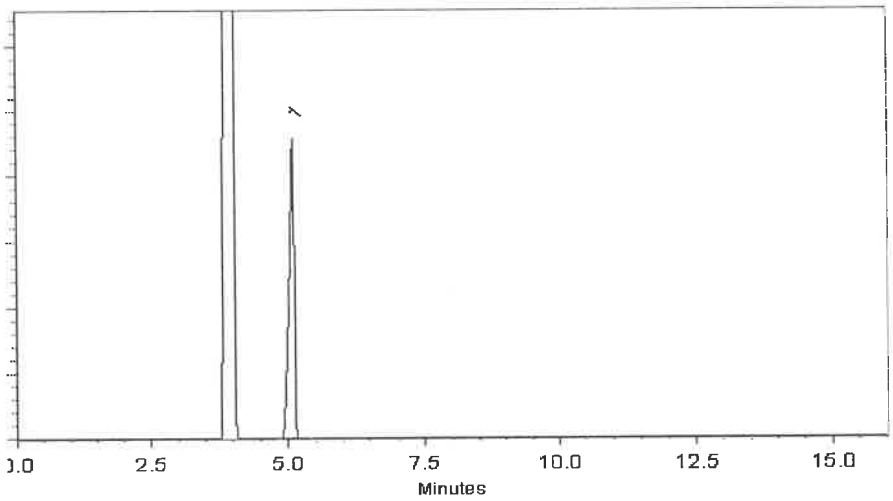
Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00693

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

S.JW 5/22/20

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2760941
ID: VV_M_GASES_00689
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760944
ID: VV_M_GASES_00692
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760943
ID: VV_M_GASES_00691
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760942
ID: VV_M_GASES_00690
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 µg/mL +/- 140.5076 µg/mL +/- 143.7858 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 µg/mL +/- 140.4038 µg/mL +/- 143.6799 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 µg/mL +/- 140.4890 µg/mL +/- 143.7623 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 µg/mL +/- 140.5681 µg/mL +/- 143.8406 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 µg/mL +/- 140.4450 µg/mL +/- 143.7217 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 µg/mL +/- 140.5555 µg/mL +/- 143.8274 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2760950
ID: VV_M_GASES_00698
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760949
ID: VV_M_GASES_00697
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760948
ID: VV_M_GASES_00696
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760947
ID: VV_M_GASES_00695
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760946
ID: VV_M_GASES_00694
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2760945
ID: VV_M_GASES_00693
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

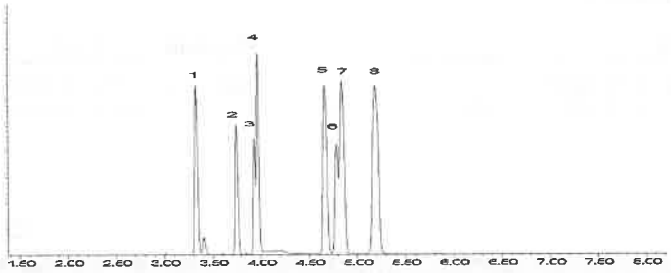
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00730

2852255
ID: VV_M_GASES_00738
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852254
ID: VV_M_GASES_00737
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852253
ID: VV_M_GASES_00736
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852252
ID: VV_M_GASES_00735
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852251
ID: VV_M_GASES_00734
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

Certificate of Analysis

2852250
ID: VV_M_GASES_00733
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852249
ID: VV_M_GASES_00732
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852248
ID: VV_M_GASES_00731
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2852247
ID: VV_M_GASES_00730
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

2852246
ID: VV_M_GASES_00729
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852245
ID: VV_M_GASES_00728
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2852244
ID: VV_M_GASES_00727
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852243
ID: VV_M_GASES_00726
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852236
ID: VV_M_GASES_00719
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 µg/mL +/- 140.5076 µg/mL +/- 143.7858 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 µg/mL +/- 140.4038 µg/mL +/- 143.6799 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 µg/mL +/- 140.4890 µg/mL +/- 143.7623 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 µg/mL +/- 140.5681 µg/mL +/- 143.8406 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 µg/mL +/- 140.4450 µg/mL +/- 143.7217 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 µg/mL +/- 140.5555 µg/mL +/- 143.8274 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2852242
ID: VV_M_GASES_00725
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852241
ID: VV_M_GASES_00724
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852240
ID: VV_M_GASES_00723
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852239
ID: VV_M_GASES_00722
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852238
ID: VV_M_GASES_00721
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852237
ID: VV_M_GASES_00720
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

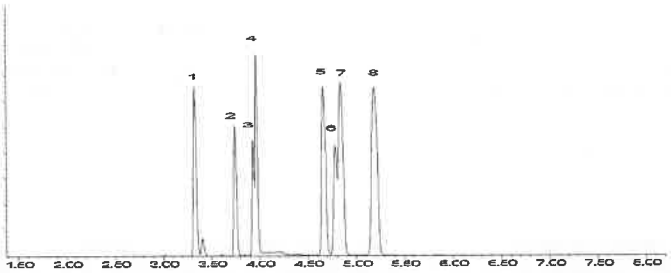
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00736

2852255
ID: VV_M_GASES_00738
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852254
ID: VV_M_GASES_00737
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852253
ID: VV_M_GASES_00736
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852252
ID: VV_M_GASES_00735
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852251
ID: VV_M_GASES_00734
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

RESTEK CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

Certificate of Analysis

2852250
ID: VV_M_GASES_00733
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852249
ID: VV_M_GASES_00732
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852248
ID: VV_M_GASES_00731
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2852247
ID: VV_M_GASES_00730
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

2852246
ID: VV_M_GASES_00729
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852245
ID: VV_M_GASES_00728
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

2852244
ID: VV_M_GASES_00727
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852243
ID: VV_M_GASES_00726
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852236
ID: VV_M_GASES_00719
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.3 µg/mL	+/- 16.4178 +/- 140.5076 +/- 143.7858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.6 µg/mL	+/- 16.3299 +/- 140.4038 +/- 143.6799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,500.2 µg/mL	+/- 17.2154 +/- 140.4890 +/- 143.7623	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,500.7 µg/mL	+/- 17.6652 +/- 140.5681 +/- 143.8406	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.2 µg/mL	+/- 16.4034 +/- 140.4450 +/- 143.7217	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,500.3 µg/mL	+/- 17.7279 +/- 140.5555 +/- 143.8274	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 8582700) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 +/- 140.1725 +/- 143.4524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

2852242
ID: VV_M_GASES_00725
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852241
ID: VV_M_GASES_00724
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852240
ID: VV_M_GASES_00723
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852239
ID: VV_M_GASES_00722
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852238
ID: VV_M_GASES_00721
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

2852237
ID: VV_M_GASES_00720
Exp: 03/31/23 Prpd: SJN
8260 Gases Standard @2500

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

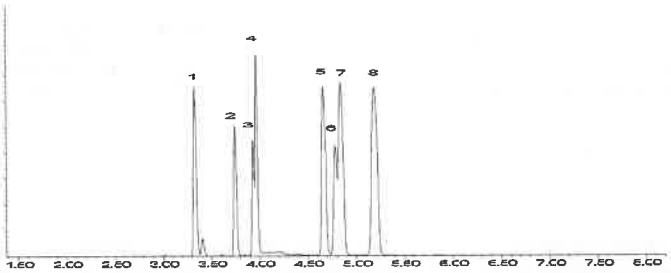
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_GASES_00739

SN 8/22/20

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

2859957
ID: VV_M_GASES_00741
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859956
ID: VV_M_GASES_00740
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859955
ID: VV_M_GASES_00739
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

2859964
ID: VV_M_GASES_00748
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859963
ID: VV_M_GASES_00747
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859962
ID: VV_M_GASES_00746
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859961
ID: VV_M_GASES_00745
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859960
ID: VV_M_GASES_00744
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859959
ID: VV_M_GASES_00743
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @2500

2859958
ID: VV_M_GASES_00742
Exp: 04/30/23 Prpd: SJN
8260 Gases Standard @25

8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4.SEC **Purity** 99%	(Lot 253600)	2,496.5 µg/mL	+/- 17.7311 +/- 140.3462 +/- 143.6131	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

' Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

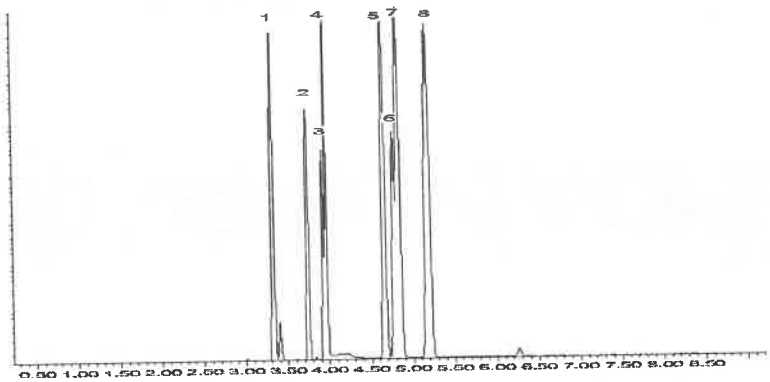
Carrier Gas:
Helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_ISSTD_00331

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2604620 ID: VV_M_ISSTD_00320 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604618 ID: VV_M_ISSTD_00319 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604614 ID: VV_M_ISSTD_00318 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604622 ID: VV_M_ISSTD_00321 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604623 ID: VV_M_ISSTD_00322 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

)R LABORATORY USE ONLY-READ SDS PRIOR TO USE.

...is Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2604632 ID: VV_M_ISSTD_00331 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

Catalog No. : 570812 **Lot No.:** A0143593

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, 5mL/ampul

2604631 ID: VV_M_ISSTD_00330 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604629 ID: VV_M_ISSTD_00328 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

2604630 ID: VV_M_ISSTD_00329 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604628 ID: VV_M_ISSTD_00327 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604627 ID: VV_M_ISSTD_00326 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604626 ID: VV_M_ISSTD_00325 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604625 ID: VV_M_ISSTD_00324 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604624 ID: VV_M_ISSTD_00323 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

RTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 **Purity** 98% (Lot CD-107)	5,000.1 µg/mL	+/- 29.0694 µg/mL +/- 107.0521 µg/mL +/- 110.1643 µg/mL	Gravimetric Unstressed Stressed
2	Dibromofluoromethane **CAS #** 1868-53-7 **Purity** 99% (Lot 0012017)	250.2 µg/mL	+/- 1.4580 µg/mL +/- 5.3577 µg/mL +/- 5.5134 µg/mL	Gravimetric Unstressed Stressed
3	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 **Purity** 99% (Lot PR-29377)	250.3 µg/mL	+/- 1.4584 µg/mL +/- 5.3592 µg/mL +/- 5.5149 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 **Purity** 99% (Lot I-19942)	5,000.5 µg/mL	+/- 29.0716 µg/mL +/- 107.0602 µg/mL +/- 110.1726 µg/mL	Gravimetric Unstressed Stressed
5	Fluorobenzene **CAS #** 462-06-6 **Purity** 99% (Lot BCBK8171V)	250.1 µg/mL	+/- 1.4573 µg/mL +/- 5.3549 µg/mL +/- 5.5105 µg/mL	Gravimetric Unstressed Stressed
6	Toluene-d8 **CAS #** 2037-26-5 **Purity** 99% (Lot PR-27311)	250.1 µg/mL	+/- 1.4575 µg/mL +/- 5.3556 µg/mL +/- 5.5112 µg/mL	Gravimetric Unstressed Stressed
7	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99% (Lot PR-23926)	250.5 µg/mL	+/- 1.4600 µg/mL +/- 5.3649 µg/mL +/- 5.5208 µg/mL	Gravimetric Unstressed Stressed

2604612 ID: VV_M_ISSTD_00317 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604609 ID: VV_M_ISSTD_00316 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604608 ID: VV_M_ISSTD_00315 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604606 ID: VV_M_ISSTD_00314 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604604 ID: VV_M_ISSTD_00313 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250
2604601 ID: VV_M_ISSTD_00312 Exp: 11/30/23 Prpd: TCH 8260 IS/SURR 250

8	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 **Purity** 99%	(Lot 20401KO)	250.1	µg/mL	+/- 1.4575 +/- 5.3556 +/- 5.5112	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	250.2	µg/mL	+/- 1.4580 +/- 5.3577 +/- 5.5134	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
.05m x 0.53mm x 3.0µm
tbx-502.2 (cat.#10910)

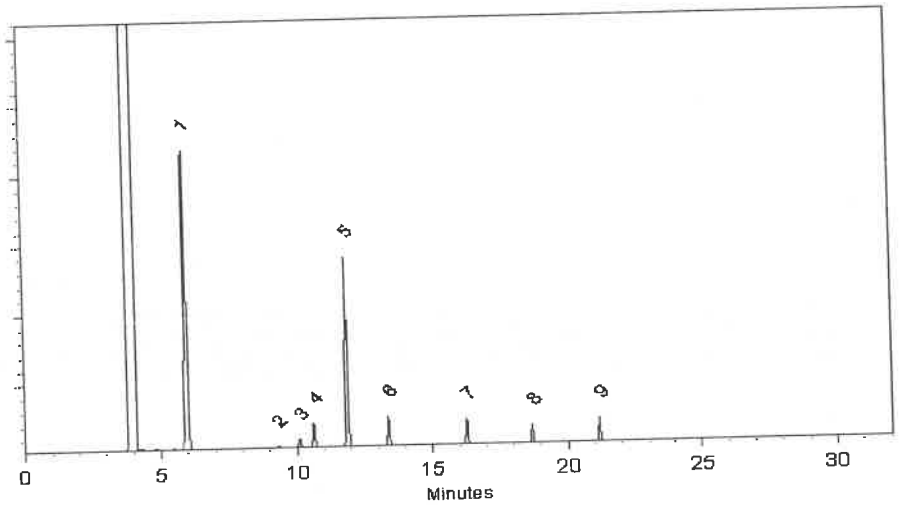
Carrier Gas:
Hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 29-Nov-2018 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 18-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_KETONES_00235

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TCH 9-10-19

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2481235
ID: VV_M_KETONES_00235
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481237
ID: VV_M_KETONES_00237
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481234
ID: VV_M_KETONES_00234
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481236
ID: VV_M_KETONES_00236
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

2481233
ID: VV_M_KETONES_00233
Exp: 11/30/21 Prpd: TCH
Ketones @10,000

Catalog No. : 569721.SEC **Lot No.:** A0143456

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1.SEC (Lot U13B039) **Purity** 99%	12,524.5 µg/mL	+/- 72.8185 µg/mL +/- 755.6586 µg/mL +/- 757.4526 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot RGZ2A) **Purity** 99%	12,527.8 µg/mL	+/- 72.8374 µg/mL +/- 755.8547 µg/mL +/- 757.6492 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,515.3 µg/mL	+/- 72.7647 µg/mL +/- 755.1005 µg/mL +/- 756.8932 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 98%	12,516.8 µg/mL	+/- 72.7738 µg/mL +/- 755.1943 µg/mL +/- 756.9873 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

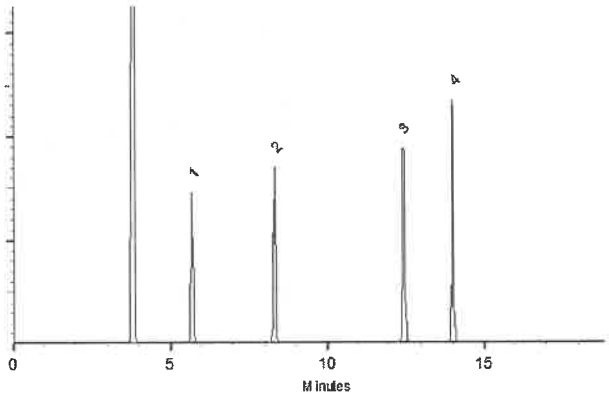
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician **Date Mixed:** 20-Nov-2018 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC **Date Passed:** 29-Nov-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_KETONES_00263

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0156095

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot MKCK2598)	12,523.3 µg/mL	+/- 72.8113 µg/mL +/- 755.5832 µg/mL +/- 757.3770 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBK5945)	12,532.3 µg/mL	+/- 72.8636 µg/mL +/- 756.1262 µg/mL +/- 757.9213 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBK5017)	12,531.8 µg/mL	+/- 72.8607 µg/mL +/- 756.0960 µg/mL +/- 757.8911 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCG5905)	12,531.5 µg/mL	+/- 72.8592 µg/mL +/- 756.0809 µg/mL +/- 757.8760 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

2816722
ID: VV_M_KETONES_00267
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816721
ID: VV_M_KETONES_00266
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816720
ID: VV_M_KETONES_00265
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816719
ID: VV_M_KETONES_00264
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816718
ID: VV_M_KETONES_00263
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

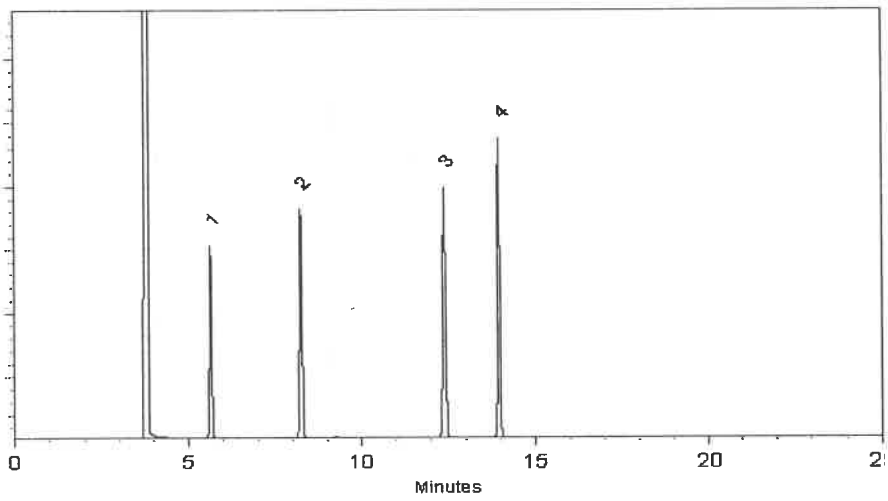
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_KETONES_00267

SW 7/15/20

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0156095

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot MKCK2598) **Purity** 99%	12,523.3 µg/mL	+/- 72.8113 µg/mL +/- 755.5832 µg/mL +/- 757.3770 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK5945) **Purity** 99%	12,532.3 µg/mL	+/- 72.8636 µg/mL +/- 756.1262 µg/mL +/- 757.9213 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	12,531.8 µg/mL	+/- 72.8607 µg/mL +/- 756.0960 µg/mL +/- 757.8911 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCG5905) **Purity** 99%	12,531.5 µg/mL	+/- 72.8592 µg/mL +/- 756.0809 µg/mL +/- 757.8760 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

2816722
ID: VV_M_KETONES_00267
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816721
ID: VV_M_KETONES_00266
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816720
ID: VV_M_KETONES_00265
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816719
ID: VV_M_KETONES_00264
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

2816718
ID: VV_M_KETONES_00263
Exp: 12/31/22 Prpd: SJN
Ketones @10,000

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

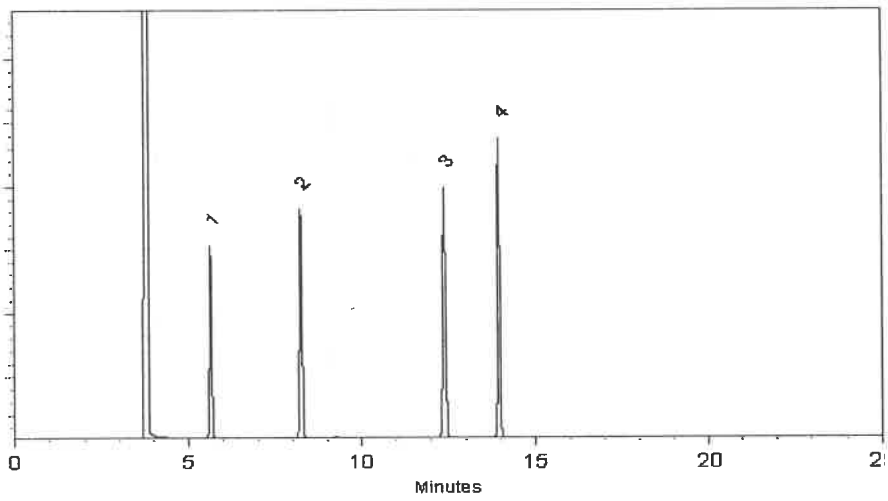
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 23-Dec-2019 **Balance:** B251644995

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Reagent

VV_M_Megamix_00246

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www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

TCH 7-10-19

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR

This Reference Material is intended for Laboratory Use Only as the qualitative and/or quantitative determination of the analyte(s

2407344
ID: VV_M_Megamix_00248
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407341
ID: VV_M_Megamix_00245
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407343
ID: VV_M_Megamix_00247
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407340
ID: VV_M_Megamix_00244
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

2407342
ID: VV_M_Megamix_00246
Exp: 06/30/21 Prpd: TCH
8260/624 MegaMix ICV

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	(Lot FGM02)	2,506.7	µg/mL	+/- +/- +/-	14.5740 151.2383 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 99%	(Lot MKBL1376V)	2,500.7	µg/mL	+/- +/- +/-	14.5391 150.8763 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC **Purity** 99%	(Lot UERIL)	25,001.2	µg/mL	+/- +/- +/-	145.3513 1,508.4304 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC **Purity** 99%	(Lot ZHKYA)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC **Purity** 98%	(Lot HGC01-BLKT)	2,501.3	µg/mL	+/- +/- +/-	14.5427 150.9137 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC **Purity** 97%	(Lot K24W001)	2,503.2	µg/mL	+/- +/- +/-	14.5541 151.0320 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC **Purity** 99%	(Lot 5379000)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC **Purity** 98%	(Lot I7E8E)	2,503.2	µg/mL	+/- +/- +/-	14.5541 151.0320 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC **Purity** 97%	(Lot TS5UB)	2,501.0	µg/mL	+/- +/- +/-	14.5409 150.8954 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC **Purity** 99%	(Lot PH2XK)	62,508.3	µg/mL	+/- +/- +/-	363.4098 3,771.4029 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC **Purity** 99%	(Lot 1297547)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC **Purity** 99%	(Lot 5670200)	2,507.0	µg/mL	+/- +/- +/-	14.5759 151.2584 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC **Purity** 99%	(Lot 8DAOJ)	5,006.7	µg/mL	+/- +/- +/-	29.1092 302.0744 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC **Purity** 99%	(Lot 7998000)	2,507.7	µg/mL	+/- +/- +/-	14.5798 151.2986 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC **Purity** 99%	(Lot YADRA)	2,508.0	µg/mL	+/- +/- +/-	14.5817 151.3188 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC **Purity** 96%	(Lot 5221100)	2,502.4	µg/mL	+/- +/- +/-	14.5492 150.9809 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride **CAS #** 56-23-5.SEC **Purity** 99%	(Lot 11466)	2,510.3 µg/mL	+/- 14.5953 +/- 151.4595 +/- 151.8191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5.SEC **Purity** 99%	(Lot TFHUC)	2,511.8 µg/mL	+/- 14.6040 +/- 151.5500 +/- 151.9098	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2.SEC **Purity** 99%	(Lot FO6PK)	2,501.3 µg/mL	+/- 14.5430 +/- 150.9165 +/- 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2.SEC **Purity** 99%	(Lot B28Y008)	2,504.8 µg/mL	+/- 14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6.SEC **Purity** 99%	(Lot H04X050)	2,508.7 µg/mL	+/- 14.5856 +/- 151.3590 +/- 151.7183	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2.SEC **Purity** 99%	(Lot Q02QG)	2,504.5 µg/mL	+/- 14.5614 +/- 151.1076 +/- 151.4663	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5.SEC **Purity** 99%	(Lot ERRBI-RH)	2,504.0 µg/mL	+/- 14.5585 +/- 151.0774 +/- 151.4361	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1.SEC **Purity** 99%	(Lot YVP2C)	50,008.0 µg/mL	+/- 290.7356 +/- 3,017.2028 +/- 3,024.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3.SEC **Purity** 99%	(Lot FGI01-OICH)	2,509.5 µg/mL	+/- 14.5904 +/- 151.4093 +/- 151.7687	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5.SEC **Purity** 99%	(Lot 487OA)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3.SEC **Purity** 99%	(Lot YND2B-BD)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2.SEC **Purity** 99%	(Lot MLWYK-LS)	2,508.8 µg/mL	+/- 14.5866 +/- 151.3690 +/- 151.7284	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6.SEC **Purity** 96%	(Lot ZDMSL)	2,502.9 µg/mL	+/- 14.5520 +/- 151.0098 +/- 151.3684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5.SEC **Purity** 99%	(Lot 7871500)	2,502.5 µg/mL	+/- 14.5498 +/- 150.9869 +/- 151.3454	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9.SEC **Purity** 99%	(Lot AGN01-EFPC)	2,502.7 µg/mL	+/- 14.5507 +/- 150.9970 +/- 151.3555	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4.SEC **Purity** 99%	(Lot F09W014)	2,505.0 µg/mL	+/- 14.5643 +/- 151.1378 +/- 151.4966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane **CAS #** 124-48-1.SEC **Purity** 97%	(Lot 10206360)	2,502.4	µg/mL	+/- 14.5494 +/- 150.9832 +/- 151.3417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4.SEC **Purity** 99%	(Lot 3505900)	2,503.3	µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7.SEC **Purity** 99%	(Lot 1161936)	2,504.8	µg/mL	+/- 14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3.SEC **Purity** 99%	(Lot OUKMG-GB)	1,251.7	µg/mL	+/- 7.2941 +/- 75.5202 +/- 75.6995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3.SEC **Purity** 99%	(Lot GM01)	1,253.7	µg/mL	+/- 7.3058 +/- 75.6409 +/- 75.8205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4.SEC **Purity** 99%	(Lot PI4SE)	2,503.5	µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6.SEC **Purity** 99%	(Lot GC01)	2,506.7	µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6.SEC **Purity** 99%	(Lot FGL01)	2,504.2	µg/mL	+/- 14.5594 +/- 151.0875 +/- 151.4462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5.SEC **Purity** 99%	(Lot OFIOL-IA)	2,507.2	µg/mL	+/- 14.5769 +/- 151.2685 +/- 151.6276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8.SEC **Purity** 99%	(Lot 2PHXG-IH)	2,505.2	µg/mL	+/- 14.5653 +/- 151.1478 +/- 151.5067	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform **CAS #** 75-25-2.SEC **Purity** 97%	(Lot 5461400)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8661 +/- 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane **CAS #** 75-27-4.SEC **Purity** 98%	(Lot 13780)	2,501.3	µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5.SEC **Purity** 99%	(Lot CFA4D-AQ)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4.SEC **Purity** 99%	(Lot GUHZN)	2,505.7	µg/mL	+/- 14.5682 +/- 151.1780 +/- 151.5369	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene **CAS #** 110-57-6.SEC **Purity** 98%	(Lot 100700-3)	2,514.2	µg/mL	+/- 14.6177 +/- 151.6922 +/- 152.0524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1.SEC **Purity** 99%	(Lot T2HFC)	2,503.7	µg/mL	+/- 14.5565 +/- 151.0573 +/- 151.4159	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1.SEC **Purity** 99%	(Lot 2FUHG-EM)	2,506.2 µg/mL	+/- 14.5711 +/- 151.2081 +/- 151.5671	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8.SEC **Purity** 99%	(Lot FGH02-CMLN)	2,510.0 µg/mL	+/- 14.5934 +/- 151.4394 +/- 151.7990	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8.SEC **Purity** 99%	(Lot SW8QG-AO)	2,504.7 µg/mL	+/- 14.5623 +/- 151.1176 +/- 151.4764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4.SEC **Purity** 99%	(Lot P4XHJ-AO)	2,509.2 µg/mL	+/- 14.5885 +/- 151.3891 +/- 151.7486	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6.SEC **Purity** 99%	(Lot D6OHC)	2,505.8 µg/mL	+/- 14.5691 +/- 151.1880 +/- 151.5470	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6.SEC **Purity** 99%	(Lot JMIYD)	2,508.7 µg/mL	+/- 14.5856 +/- 151.3590 +/- 151.7183	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8.SEC **Purity** 99%	(Lot OGN01-IMA)	2,504.7 µg/mL	+/- 14.5623 +/- 151.1176 +/- 151.4764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) **CAS #** 99-87-6.SEC **Purity** 99%	(Lot 6628200)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8562 +/- 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1.SEC **Purity** 99%	(Lot FMDFD)	2,506.3 µg/mL	+/- 14.5720 +/- 151.2182 +/- 151.5772	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7.SEC **Purity** 99%	(Lot 4Y5DC)	2,509.8 µg/mL	+/- 14.5924 +/- 151.4294 +/- 151.7889	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8.SEC **Purity** 99%	(Lot MMPGA)	2,513.7 µg/mL	+/- 14.6147 +/- 151.6607 +/- 152.0207	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1.SEC **Purity** 99%	(Lot R6QDM)	2,501.8 µg/mL	+/- 14.5459 +/- 150.9467 +/- 151.3051	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8.SEC **Purity** 98%	(Lot LC00408V)	2,508.5 µg/mL	+/- 14.5845 +/- 151.3473 +/- 151.7066	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1.SEC **Purity** 99%	(Lot 3LYYC)	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3.SEC **Purity** 97%	(Lot 5526800)	2,504.4 µg/mL	+/- 14.5607 +/- 151.1002 +/- 151.4590	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3.SEC **Purity** 99%	(Lot 4KW3H-OO)	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/- 14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/- 151.5740	µg/mL	Unstressed
	Purity 98%			+/- 151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

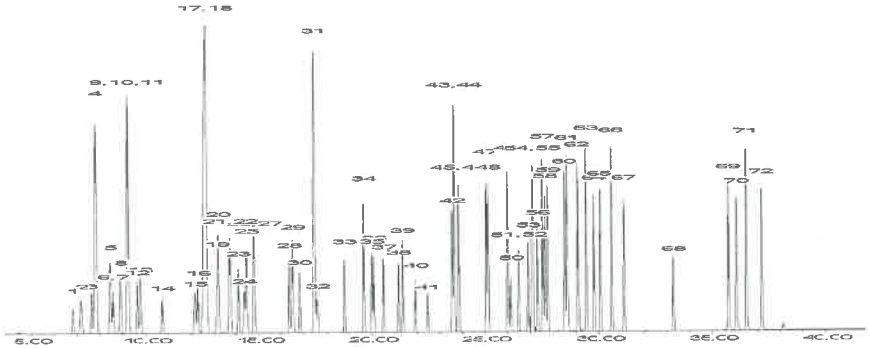
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VV_M_Megamix_00278

S/W 3/27/20

2696583
ID: VV_M_Megamix_00278
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696582
ID: VV_M_Megamix_00277
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696581
ID: VV_M_Megamix_00276
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

2696580
ID: VV_M_Megamix_00275
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

2696579
ID: VV_M_Megamix_00274
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

2696578
ID: VV_M_Megamix_00273
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696577
ID: VV_M_Megamix_00272
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696576
ID: VV_M_Megamix_00271
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696575
ID: VV_M_Megamix_00270
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2696574
ID: VV_M_Megamix_00269
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9	µg/mL	+/- +/- +/-	14.5348 150.8320 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4	µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9	µg/mL	+/- +/- +/-	14.5519 151.0095 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1	µg/mL	+/- +/- +/-	14.5476 150.9643 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8	µg/mL	+/- +/- +/-	14.5512 151.0020 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

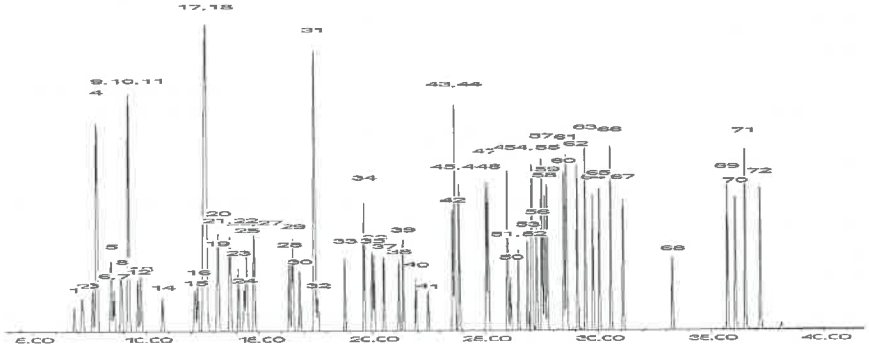
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_Megamix_00285

SJN 7/29/20

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

2832437
ID: VV_M_Megamix_00286
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832436
ID: VV_M_Megamix_00285
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832435
ID: VV_M_Megamix_00284
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832429
ID: VV_M_Megamix_00283
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

2832428
ID: VV_M_Megamix_00282
Exp: 06/30/21 Prpd: SJN
8260/624 MegaMix

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- +/- +/-	145.4049 1,508.9860 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- +/- +/-	363.3665 3,770.9529 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- +/- +/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- +/- +/-	29.0741 301.7099 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- +/- +/-	14.5388 150.8738 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9	µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9	µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1	µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

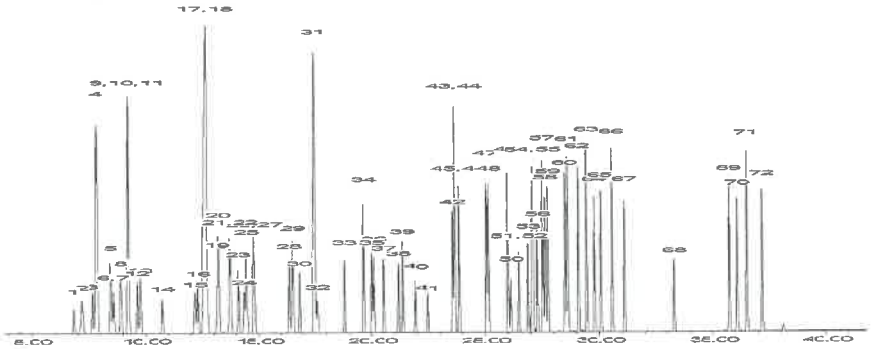
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_POLADD_00222

2696593
ID: VV_M_POLADD_00227
Exp: 01/31/21 Prpd: SJN
Polar additions

2696592
ID: VV_M_POLADD_00226
Exp: 01/31/21 Prpd: SJN
Polar additions

2696591
ID: VV_M_POLADD_00225
Exp: 01/31/21 Prpd: SJN
Polar additions

2696590
ID: VV_M_POLADD_00224
Exp: 01/31/21 Prpd: SJN
Polar additions

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0144915

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2021 **Storage:** 0°C or colder

SJN 3/27/20

2696589
ID: VV_M_POLADD_00223
Exp: 01/31/21 Prpd: SJN
Polar additions

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile **CAS #** 75-05-8 **Purity** 99%	(Lot SHBH6233)	25,249.0 µg/mL	+/- 147.8384 µg/mL +/- 1,249.1362 µg/mL +/- 1,280.1910 µg/mL		Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 **Purity** 99%	(Lot SHBH1927V)	2,524.3 µg/mL	+/- 14.8142 µg/mL +/- 124.8896 µg/mL +/- 127.9943 µg/mL		Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 **Purity** 99%	(Lot MKCC2702)	2,524.3 µg/mL	+/- 14.8142 µg/mL +/- 124.8896 µg/mL +/- 127.9943 µg/mL		Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 **Purity** 99%	(Lot BCBV8545)	25,249.7 µg/mL	+/- 147.8424 µg/mL +/- 1,249.1692 µg/mL +/- 1,280.2248 µg/mL		Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 **Purity** 99%	(Lot STBG1140V)	25,249.0 µg/mL	+/- 147.8384 µg/mL +/- 1,249.1362 µg/mL +/- 1,280.1910 µg/mL		Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 **Purity** 99%	(Lot HMBF8365V)	2,523.7 µg/mL	+/- 14.8103 µg/mL +/- 124.8566 µg/mL +/- 127.9605 µg/mL		Gravimetric Unstressed Stressed

2696588
ID: VV_M_POLADD_00222
Exp: 01/31/21 Prpd: SJN
Polar additions

2696587
ID: VV_M_POLADD_00221
Exp: 01/31/21 Prpd: SJN
Polar additions

2696586
ID: VV_M_POLADD_00220
Exp: 01/31/21 Prpd: SJN
Polar additions

2696585
ID: VV_M_POLADD_00219
Exp: 01/31/21 Prpd: SJN
Polar additions

2696584
ID: VV_M_POLADD_00218
Exp: 01/31/21 Prpd: SJN
Polar additions

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

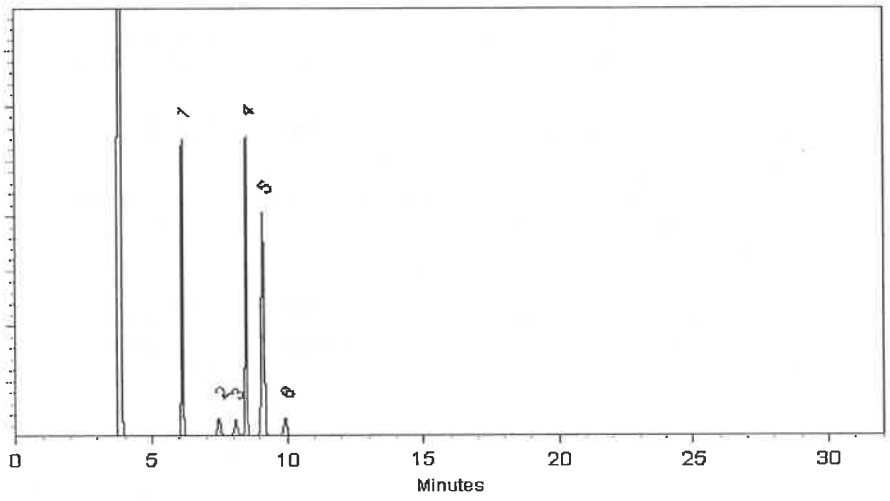
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

Date Mixed: 14-Jan-2019 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jan-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_STD6_00158

SJN 7/6/20

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0154734

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 **Purity** 99%	(Lot SHBH7211)	25,135.0 µg/mL	+/- 147.1710 µg/mL +/- 1,243.4963 µg/mL +/- 1,274.4109 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 **Purity** 99%	(Lot 190814JLM)	2,523.5 µg/mL	+/- 14.8093 µg/mL +/- 124.8483 µg/mL +/- 127.9520 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 **Purity** 99%	(Lot 1012019)	25,164.0 µg/mL	+/- 147.3408 µg/mL +/- 1,244.9310 µg/mL +/- 1,275.8813 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 **Purity** 99%	(Lot SHBD2922V)	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 124.2794 µg/mL +/- 127.3689 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 **Purity** 99%	(Lot SHBK4786)	63,024.5 µg/mL	+/- 369.0033 µg/mL +/- 3,117.9899 µg/mL +/- 3,195.5065 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 **Purity** 98%	(Lot BCBL0537V)	5,009.8 µg/mL	+/- 29.3332 µg/mL +/- 247.8464 µg/mL +/- 254.0081 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	2,516.6 µg/mL	+/- 14.7691 µg/mL +/- 124.5090 µg/mL +/- 127.6042 µg/mL	Gravimetric Unstressed Stressed

2807032
ID: VV_M_STD6_00161
Exp: 05/31/21 Prpd: SJN
STD 6

2807031
ID: VV_M_STD6_00160
Exp: 05/31/21 Prpd: SJN
STD 6

2807030
ID: VV_M_STD6_00159
Exp: 05/31/21 Prpd: SJN
STD 6

2807029
ID: VV_M_STD6_00158
Exp: 05/31/21 Prpd: SJN
STD 6

2807028
ID: VV_M_STD6_00157
Exp: 05/31/21 Prpd: SJN
STD 6

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 98%	(Lot 877605-12)	2,510.3	µg/mL	+/- 14.7317 +/- 124.1938 +/- 127.2812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBH2102V)	2,516.0	µg/mL	+/- 14.7653 +/- 124.4773 +/- 127.5717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,523.0	µg/mL	+/- 14.8064 +/- 124.8236 +/- 127.9267	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

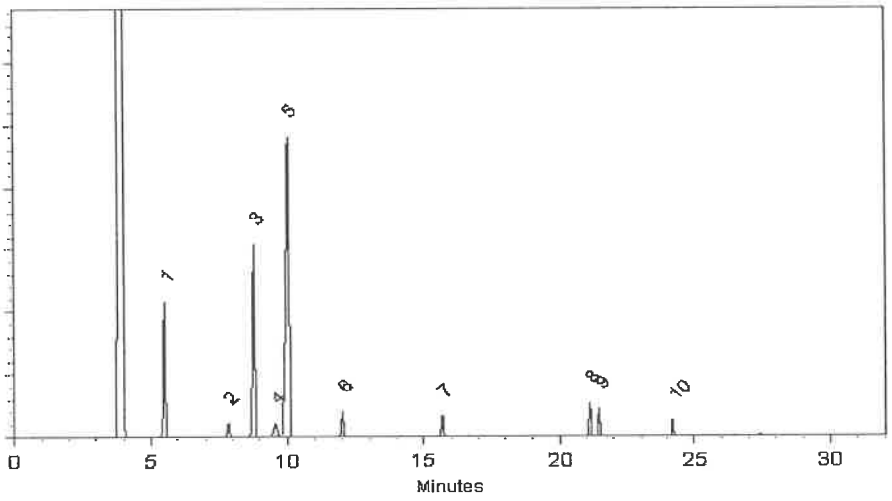
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 **Balance:** B707717271

Feng-Yim Lo - QC Analyst

Date Passed: 07-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

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$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_STD7_00145

SJN 3/27/20

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL1336)	5,015.6 µg/mL	+/- 29.3674 +/- 302.6333 +/- 303.3517	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 **Purity** 99%	(Lot 10129902)	2,508.8 µg/mL	+/- 14.7230 +/- 151.3803 +/- 151.7396	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 **Purity** 99%	(Lot MKCG6589)	5,015.2 µg/mL	+/- 29.3651 +/- 302.6092 +/- 303.3275	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBK5137)	2,512.0 µg/mL	+/- 14.7418 +/- 151.5733 +/- 151.9331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2696564
ID: VV_M_STD7_00136
Exp: 06/30/21 Prpd: SJN
STD 7

2696565
ID: VV_M_STD7_00137
Exp: 06/30/21 Prpd: SJN
STD 7

2696566
ID: VV_M_STD7_00138
Exp: 06/30/21 Prpd: SJN
STD 7

2696567
ID: VV_M_STD7_00139
Exp: 06/30/21 Prpd: SJN
STD 7

2696568
ID: VV_M_STD7_00140
Exp: 06/30/21 Prpd: SJN
STD 7

2696569
ID: VV_M_STD7_00141
Exp: 06/30/21 Prpd: SJN
STD 7

2696570
ID: VV_M_STD7_00142
Exp: 06/30/21 Prpd: SJN
STD 7

2696571
ID: VV_M_STD7_00143
Exp: 06/30/21 Prpd: SJN
STD 7

2696572
ID: VV_M_STD7_00144
Exp: 06/30/21 Prpd: SJN
STD 7

2696573
ID: VV_M_STD7_00145
Exp: 06/30/21 Prpd: SJN
STD 7

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

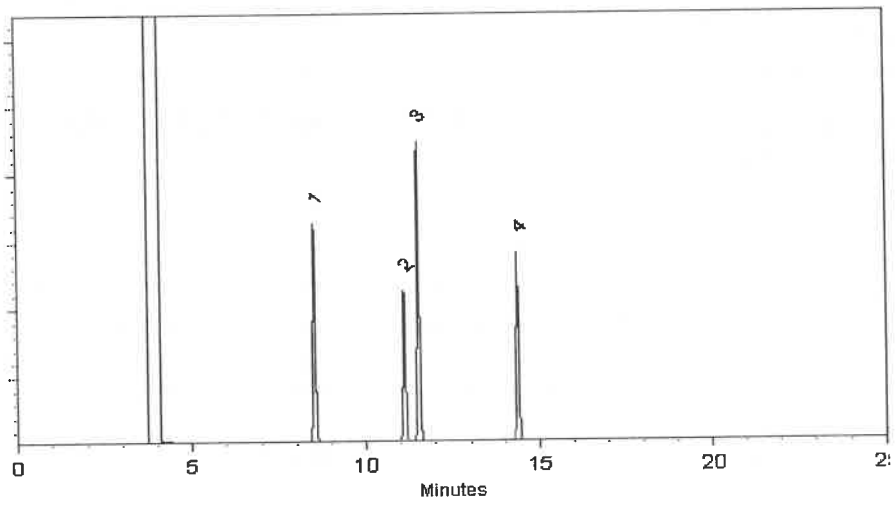
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 22-Dec-2019 **Balance:** B442140311

Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

VV_M_VINYLACE_00312

SJN 9/13/21

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0160321

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 **Purity** 99% (Lot 192709KJ)	5,040.0 µg/mL	+/- 29.5103 µg/mL +/- 304.1056 µg/mL +/- 304.8275 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2883752
ID: VV_M_VINYLACE_00312
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883751
ID: VV_M_VINYLACE_00311
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883750
ID: VV_M_VINYLACE_00310
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883749
ID: VV_M_VINYLACE_00309
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

2883748
ID: VV_M_VINYLACE_00308
Exp: 10/31/21 Prpd: SJN
Vinyle Acetate @5000

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

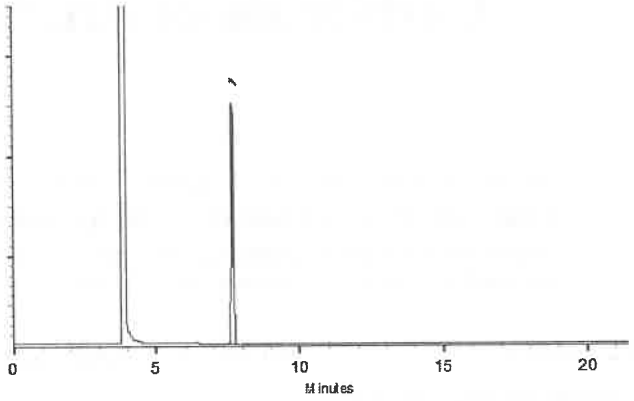
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 28-Apr-2020 **Balance:** B707717271

Feng-Yen Lo - QC Analyst

Date Passed: 30-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

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- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Method 8260D Low Level

Volatile Organic Compounds (GC/MS) by Method 8260D Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140882-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	TOL #	BFB #
GW-112320-BE-044	240-140882-1	104	103	95
TB-112320-BE-005	240-140882-2	106	103	96
	MB 310-300750/8	105	104	96
	LCS 310-300750/6	107	104	97
	LCS 310-300750/7	105	102	94

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	79-120
TOL = Toluene-d8 (Surr)	79-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140882-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8879.D

Lab ID: LCS 310-300750/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.8	99	70-129	
1,1,2,2-Tetrachloroethane	20.0	20.9	104	66-129	
1,1,2-Trichloroethane	20.0	20.3	102	68-128	
1,1-Dichloroethane	20.0	19.5	97	71-131	
1,1-Dichloroethene	20.0	18.4	92	64-137	
1,2-Dichloroethane	20.0	22.2	111	72-128	
1,2-Dichloropropane	20.0	19.6	98	71-130	
2-Hexanone	40.0	39.9	100	56-138	
Acetone	40.0	37.3	93	50-150	
Benzene	20.0	18.9	95	73-127	
Bromoform	20.0	15.8	79	58-125	
Carbon disulfide	20.0	18.4	92	58-140	
Carbon tetrachloride	20.0	19.0	95	66-136	
Chlorobenzene	20.0	19.5	97	72-124	
Chloroform	20.0	19.1	96	72-125	
cis-1,2-Dichloroethene	20.0	18.6	93	71-130	
cis-1,3-Dichloropropene	20.0	19.6	98	69-122	
Dichlorobromomethane	20.0	20.1	100	70-122	
Ethylbenzene	20.0	20.8	104	73-127	
m-Xylene & p-Xylene	20.0	20.7	103	72-128	
2-Butanone (MEK)	40.0	39.6	99	49-150	
4-Methyl-2-pentanone (MIBK)	40.0	41.4	103	60-135	
Methylene Chloride	20.0	16.9	84	48-150	
o-Xylene	20.0	19.8	99	70-128	
Styrene	20.0	19.0	95	69-127	
Tetrachloroethene	20.0	17.5	88	68-135	
Toluene	20.0	18.6	93	71-126	
trans-1,2-Dichloroethene	20.0	19.1	96	69-132	
trans-1,3-Dichloropropene	20.0	17.0	85	65-123	
Trichloroethene	20.0	19.4	97	71-130	
Xylenes, Total	40.0	40.5	101	70-128	
Chlorodibromomethane	20.0	18.0	90	66-126	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140882-1

SDG No.:

Matrix: Water Level: Low Lab File ID: c8880.D

Lab ID: LCS 310-300750/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Bromomethane	10.0	9.10	91	22-150	
Chloroethane	10.0	10.6	106	61-139	
Chloromethane	10.0	11.4	114	48-150	
Vinyl chloride	10.0	10.5	105	65-141	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Fall Job No.: 240-140882-1

SDG No.:

Lab File ID: c8881.D Lab Sample ID: MB 310-300750/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: Calvin Date Analyzed: 12/01/2020 06:29

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 310-300750/6	c8879.D	12/01/2020 05:40
	LCS 310-300750/7	c8880.D	12/01/2020 06:04
TB-112320-BE-005	240-140882-2	c8886.D	12/01/2020 08:30
GW-112320-BE-044	240-140882-1	c8888.D	12/01/2020 09:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab File ID: c5281.D BFB Injection Date: 10/01/2020

Instrument ID: Calvin BFB Injection Time: 23:45

Analysis Batch No.: 293913

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	122.0
96	5 - 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.0
174	50 - 200% of m/z 95	81.9
175	5 - 9% of m/z 174	7.6
176	95 -105% of m/z 174	97.0
177	5 - 10% of m/z 176	6.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-293913/24	c5282.D	10/02/2020	0:09
	STD2 310-293913/25	c5283.D	10/02/2020	0:33
	STD3 310-293913/26	c5284.D	10/02/2020	0:57
	STD4 310-293913/27	c5285.D	10/02/2020	1:21
	STD5 310-293913/28	c5286.D	10/02/2020	1:45
	STD6 310-293913/29	c5287.D	10/02/2020	2:09
	STD7 310-293913/30	c5288.D	10/02/2020	2:33
	STD8 310-293913/31	c5289.D	10/02/2020	2:57
	STD9 310-293913/32	c5290.D	10/02/2020	3:21
	STD10 310-293913/33	c5291.D	10/02/2020	3:45
	STD11 310-293913/34	c5292.D	10/02/2020	4:09
	STD12 310-293913/35	c5293.D	10/02/2020	4:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab File ID: c5864.D BFB Injection Date: 10/13/2020

Instrument ID: Calvin BFB Injection Time: 07:51

Analysis Batch No.: 295162

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	122.6
96	5 - 9% of m/z 95	6.8
173	Less than 2% of m/z 174	1.1
174	50 - 200% of m/z 95	81.6
175	5 - 9% of m/z 174	7.1
176	95 -105% of m/z 174	96.2
177	5 - 10% of m/z 176	6.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-295162/3	c5865.D	10/13/2020	8:16
	STD2 310-295162/4	c5866.D	10/13/2020	8:40
	STD3 310-295162/5	c5867.D	10/13/2020	9:05
	STD4 310-295162/6	c5868.D	10/13/2020	9:29
	STD5 310-295162/7	c5869.D	10/13/2020	9:53
	STD6 310-295162/8	c5870.D	10/13/2020	10:17
	STD7 310-295162/9	c5871.D	10/13/2020	10:42
	ICIS 310-295162/10	c5872.D	10/13/2020	11:06
	STD9 310-295162/11	c5873.D	10/13/2020	11:30
	STD10 310-295162/12	c5874.D	10/13/2020	11:55
	STD11 310-295162/13	c5875.D	10/13/2020	12:19
	STD12 310-295162/14	c5876.D	10/13/2020	12:43
	ICV 310-295162/18	c5880.D	10/13/2020	14:20
	ICV 310-295162/19	c5881.D	10/13/2020	14:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab File ID: c5902.D BFB Injection Date: 10/14/2020

Instrument ID: Calvin BFB Injection Time: 04:17

Analysis Batch No.: 295162

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	131.0
96	5 - 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.2
174	50 - 200% of m/z 95	76.3
175	5 - 9% of m/z 174	7.8
176	95 -105% of m/z 174	99.4
177	5 - 10% of m/z 176	7.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 310-295162/23	c5903.D	10/14/2020	4:42
	STD2 310-295162/24	c5904.D	10/14/2020	5:06
	STD3 310-295162/25	c5905.D	10/14/2020	5:31
	STD4 310-295162/26	c5906.D	10/14/2020	5:55
	STD5 310-295162/27	c5907.D	10/14/2020	6:19
	STD6 310-295162/28	c5908.D	10/14/2020	6:44
	ICV 310-295162/47	c5909.D	10/14/2020	7:09
	STD7 310-295162/29	c5910.D	10/14/2020	7:41
	STD8 310-295162/30	c5911.D	10/14/2020	8:05
	STD9 310-295162/31	c5912.D	10/14/2020	8:30
	STD10 310-295162/32	c5913.D	10/14/2020	8:54
	STD11 310-295162/33	c5914.D	10/14/2020	9:19
	STD12 310-295162/34	c5915.D	10/14/2020	9:44
	ICV 310-295162/38	c5919.D	10/14/2020	11:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab File ID: c8876.D BFB Injection Date: 12/01/2020

Instrument ID: Calvin BFB Injection Time: 04:28

Analysis Batch No.: 300750

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	133.7
96	5 - 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.2
174	50 - 200% of m/z 95	74.8
175	5 - 9% of m/z 174	7.6
176	95 -105% of m/z 174	95.2
177	5 - 10% of m/z 176	6.9

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 310-300750/4	c8877.D	12/01/2020	4:52
	CCV 310-300750/5	c8878.D	12/01/2020	5:16
	LCS 310-300750/6	c8879.D	12/01/2020	5:40
	LCS 310-300750/7	c8880.D	12/01/2020	6:04
	MB 310-300750/8	c8881.D	12/01/2020	6:29
TB-112320-BE-005	240-140882-2	c8886.D	12/01/2020	8:30
GW-112320-BE-044	240-140882-1	c8888.D	12/01/2020	9:18

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		157172	5.43	6571	6.10	119881	8.58
UPPER LIMIT		314344	5.93	13142	6.60	239762	9.08
LOWER LIMIT		78586	4.93	3286	5.60	59941	8.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 310-295162/18		180856	5.43	7388	6.10	138316	8.58
ICV 310-295162/19		163228	5.43	5747	6.10	122061	8.58
ICV 310-295162/47		180006	5.43	6103	6.11	135882	8.58
ICV 310-295162/38		164096	5.43	5353	6.10	124141	8.58
CCV 310-300750/4		169982	5.46	6925	6.12	124767	8.59
CCV 310-300750/5		154033	5.46	4793	6.11	107841	8.59
LCS 310-300750/6		154989	5.46	5300	6.11	110846	8.59
LCS 310-300750/7		149261	5.46	4743	6.12	108692	8.59
MB 310-300750/8		145439	5.46	4818	6.11	103835	8.59
240-140882-2	TB-112320-BE-005	150775	5.46	4576	6.11	109991	8.59
240-140882-1	GW-112320-BE-044	150884	5.46	4532	6.12	109298	8.59

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Sample No.: ICIS 310-295162/10 Date Analyzed: 10/13/2020 11:06

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): c5872.D Heated Purge: (Y/N) N

Calibration ID: 16861

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		57005	11.27				
UPPER LIMIT		114010	11.77				
LOWER LIMIT		28503	10.77				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 310-295162/18		64862	11.27				
ICV 310-295162/19		57175	11.27				
ICV 310-295162/47		63774	11.27				
ICV 310-295162/38		58588	11.27				
CCV 310-300750/4		57815	11.27				
CCV 310-300750/5		49704	11.28				
LCS 310-300750/6		52201	11.28				
LCS 310-300750/7		48869	11.28				
MB 310-300750/8		46576	11.28				
240-140882-2	TB-112320-BE-005	48572	11.28				
240-140882-1	GW-112320-BE-044	48211	11.28				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: GW-112320-BE-044 Lab Sample ID: 240-140882-1

Matrix: Water Lab File ID: c8888.D

Analysis Method: 8260D Date Collected: 11/23/2020 12:24

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 09:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	1.0	U	1.0	0.22
75-25-2	Bromoform	1.0	U	1.0	0.78
74-83-9	Bromomethane	1.0	U	1.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	1.0	U	1.0	0.79
67-66-3	Chloroform	1.0	U	1.0	1.3
74-87-3	Chloromethane	1.0	U	1.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	5.0	U	5.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	2.0	U	2.0	0.40
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: GW-112320-BE-044 Lab Sample ID: 240-140882-1

Matrix: Water Lab File ID: c8888.D

Analysis Method: 8260D Date Collected: 11/23/2020 12:24

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 09:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8888.D
Lims ID: 240-140882-A-1
Client ID: GW-112320-BE-044
Sample Type: Client
Inject. Date: 01-Dec-2020 09:18:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-015
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Dec-2020 06:00:31 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1627

First Level Reviewer: nelsonsa Date: 02-Dec-2020 05:45:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65		3.397				ND	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	150884	50.0	
* 121 1,4-Dioxane-d8	96	6.122	6.122	0.000	93	4532	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	109298	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	98	48211	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	90	35100	51.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	144215	51.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	87	37638	47.7	
$ 8 BFB	95	9.920	9.920	0.000	82	51513	NR	
9 Dichlorodifluoromethane	85		1.288				ND	
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.477				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.666				ND	
21 112TCTFE	101		2.696				ND	
22 Acetone	43	2.714	2.714	0.000	20	1749	1.18	M
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76	2.836	2.842	-0.006	60	2005	0.4363	M
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	1	92	0.0501	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.397				ND	
29 Methyl tert-butyl ether	73		3.409				ND	
31 Hexane	57		3.708				ND	
32 1,1-Dichloroethane	63		3.787				ND	
33 Vinyl acetate	86		3.854				ND	
34 2-Chloro-1,3-butadiene	53		3.885				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.245				ND	
39 cis-1,2-Dichloroethene	96		4.336				ND	
38 2,2-Dichloropropane	77		4.336				ND	
40 2-Butanone (MEK)	43		4.354				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.549				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.647				ND	
46 1,1,1-Trichloroethane	97		4.811				ND	
47 Cyclohexane	56		4.872				ND	
48 Carbon tetrachloride	117		4.976				ND	
49 1,1-Dichloropropene	75		4.982				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.183				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.811				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.012				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.128				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.817				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.383				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.944				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.974				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
139 C6-C12	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1		0.000				ND	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

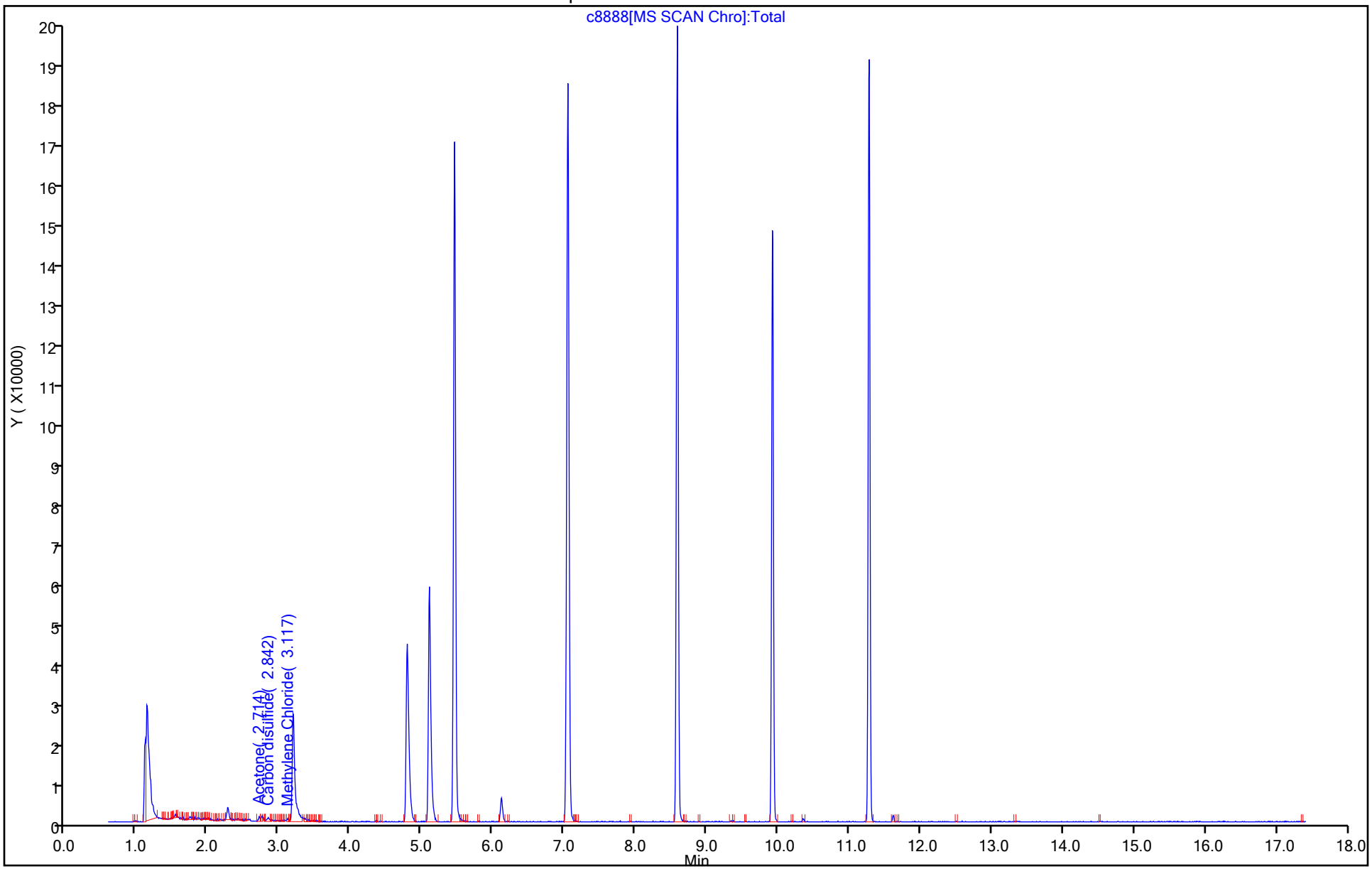
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Dec-2020 06:00:55 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8888.D				
Injection Date:	01-Dec-2020 09:18:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140882-A-1	Lab Sample ID:	310-140882-1	Worklist Smp#:	15
Client ID:	GW-112320-BE-044				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8888.D
Lims ID: 240-140882-A-1
Client ID: GW-112320-BE-044
Sample Type: Client
Inject. Date: 01-Dec-2020 09:18:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-015
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Dec-2020 06:00:31 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1627

First Level Reviewer: nelsonsa Date: 02-Dec-2020 05:45:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	51.9	103.81
$ 6 Toluene-d8 (Surr)	50.0	51.5	102.93
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.7	95.44

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

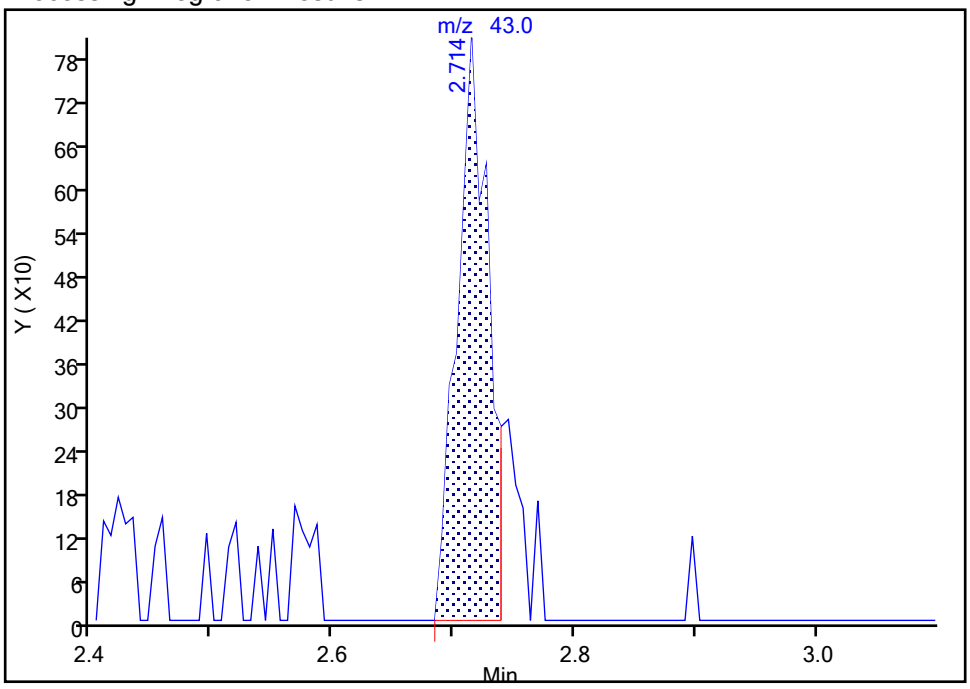
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8888.D				
Injection Date:	01-Dec-2020 09:18:30	Instrument ID:	Calvin		
Lims ID:	240-140882-A-1	Lab Sample ID:	310-140882-1		
Client ID:	GW-112320-BE-044				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

22 Acetone, CAS: 67-64-1

Signal: 1

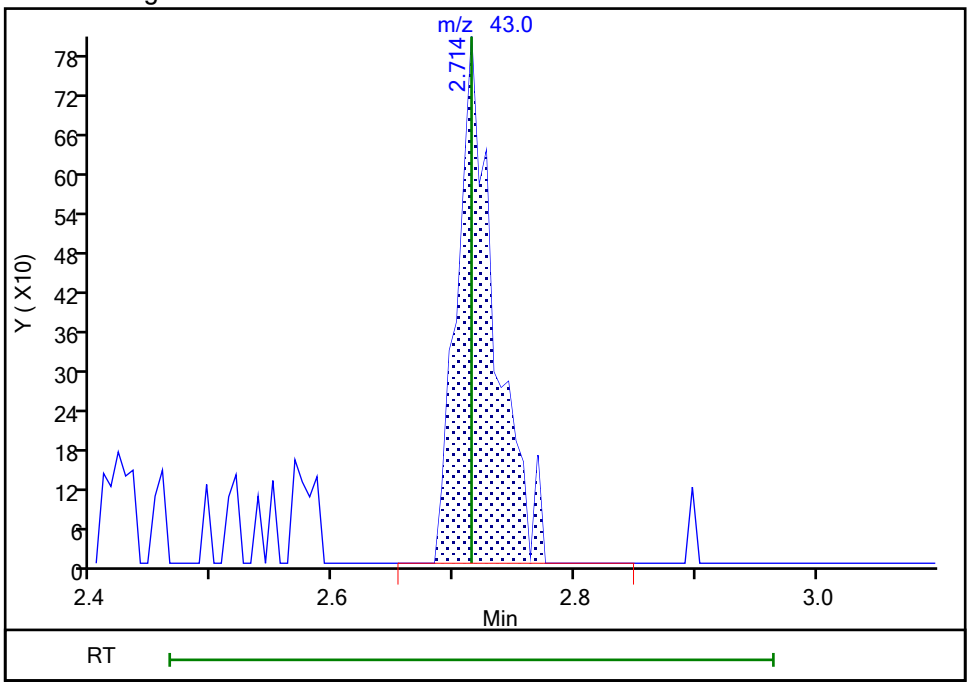
Processing Integration Results

RT: 2.71
Area: 1460
Amount: 0.426923
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 1749
Amount: 1.183127
Amount Units: ug/l



Reviewer: nelsonsa, 02-Dec-2020 05:44:50

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

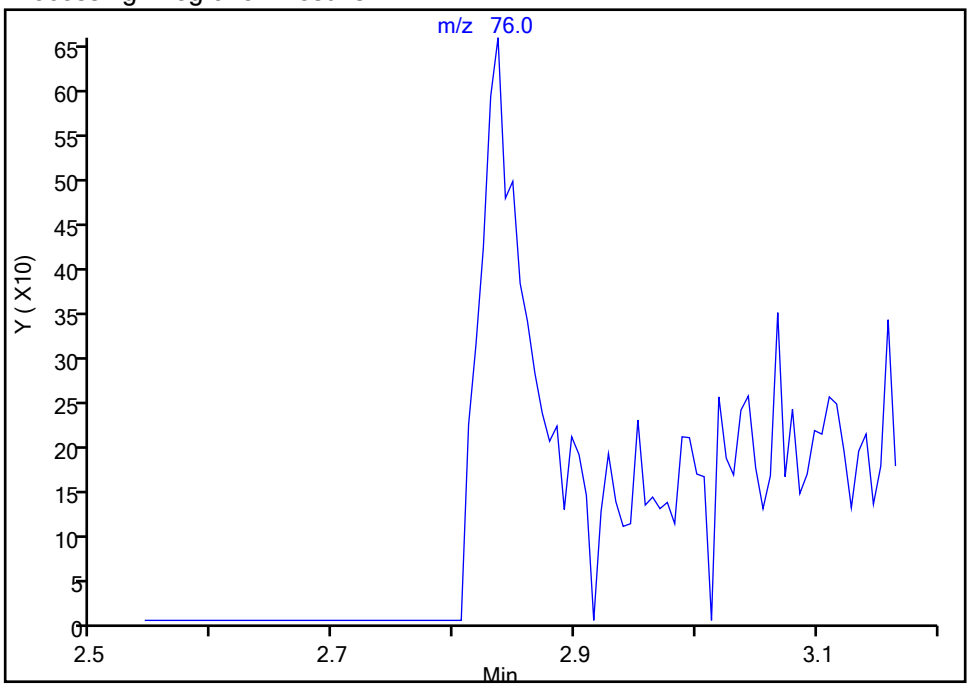
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8888.D				
Injection Date:	01-Dec-2020 09:18:30	Instrument ID:	Calvin		
Lims ID:	240-140882-A-1	Lab Sample ID:	310-140882-1		
Client ID:	GW-112320-BE-044				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

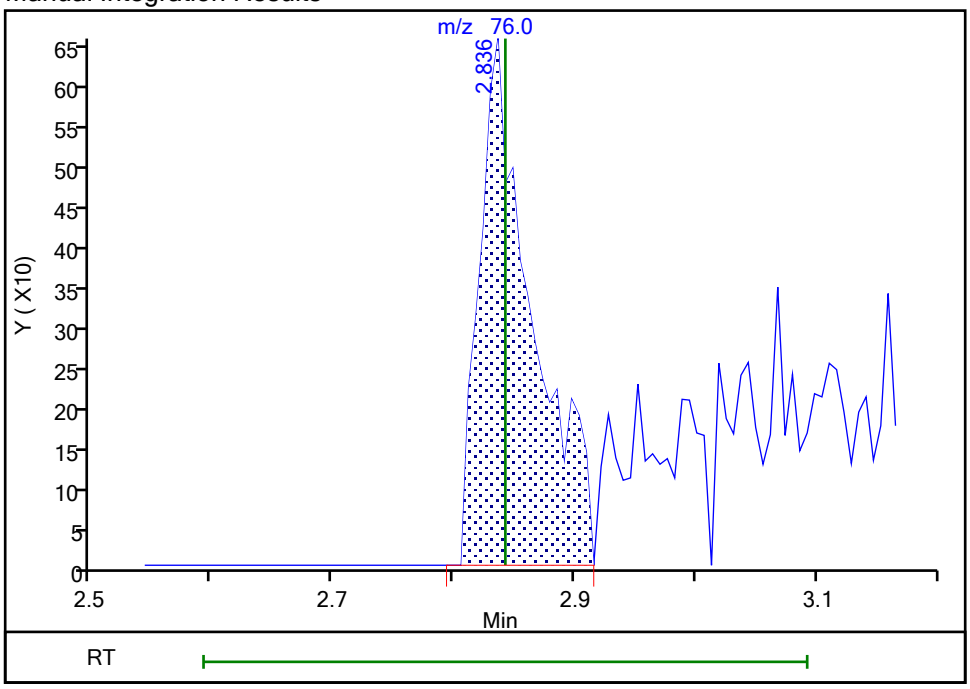
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 2005
Amount: 0.436343
Amount Units: ug/l



Reviewer: nelsonsa, 02-Dec-2020 05:44:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

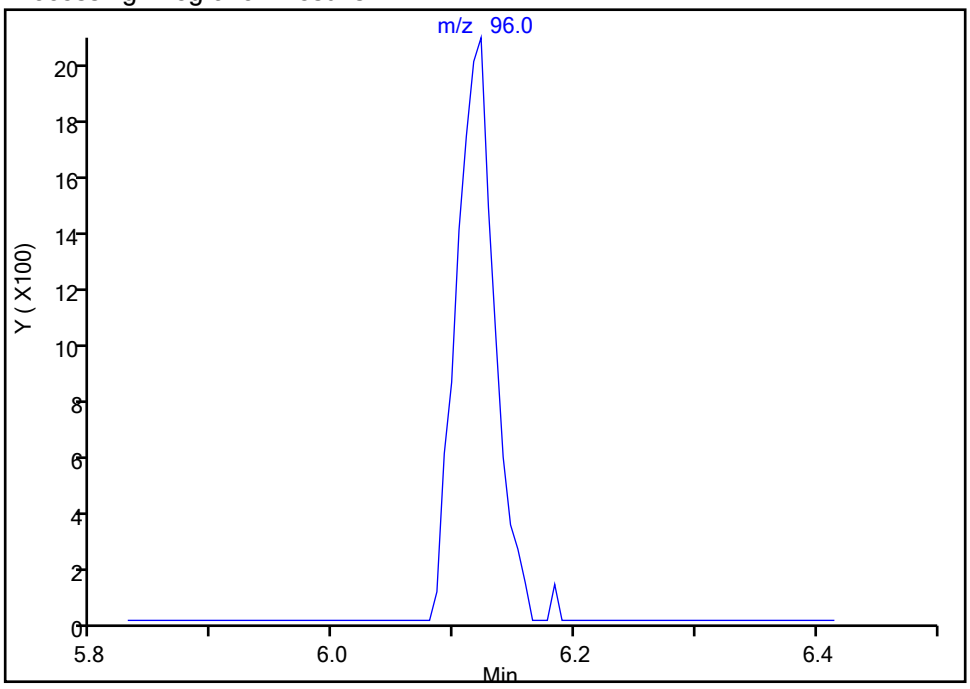
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8888.D				
Injection Date:	01-Dec-2020 09:18:30	Instrument ID:	Calvin		
Lims ID:	240-140882-A-1	Lab Sample ID:	310-140882-1		
Client ID:	GW-112320-BE-044				
Operator ID:	sjn	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

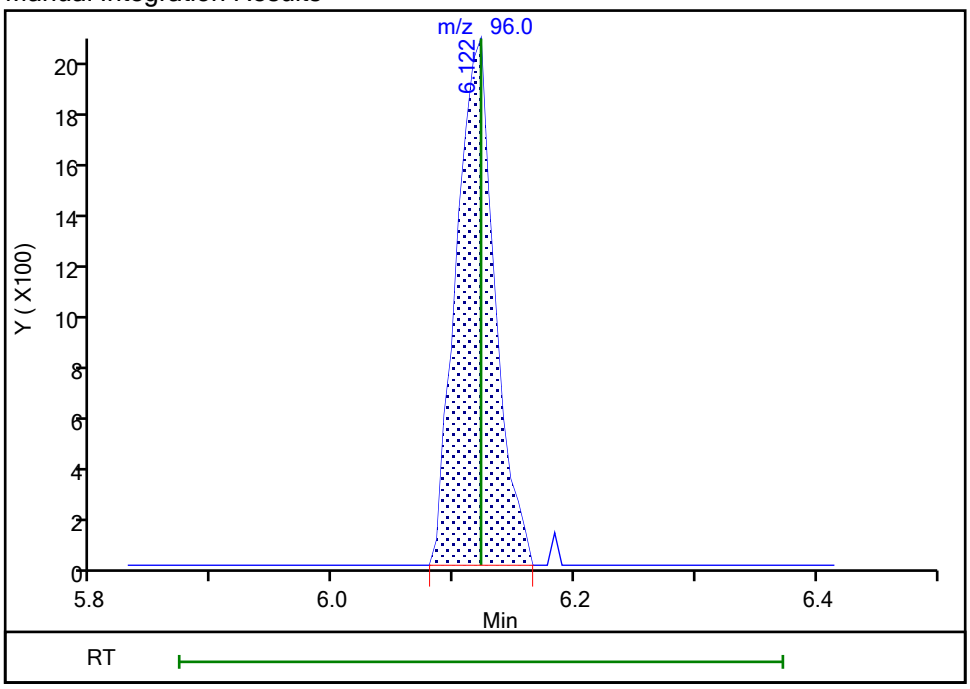
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 4532
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 02-Dec-2020 05:44:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: TB-112320-BE-005 Lab Sample ID: 240-140882-2

Matrix: Water Lab File ID: c8886.D

Analysis Method: 8260D Date Collected: 11/23/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 08:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	1.0	U	1.0	0.22
75-25-2	Bromoform	1.0	U	1.0	0.78
74-83-9	Bromomethane	1.0	U	1.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	1.0	U	1.0	0.79
67-66-3	Chloroform	1.0	U	1.0	1.3
74-87-3	Chloromethane	1.0	U	1.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	2.8	J	5.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	2.0	U	2.0	0.40
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: TB-112320-BE-005 Lab Sample ID: 240-140882-2

Matrix: Water Lab File ID: c8886.D

Analysis Method: 8260D Date Collected: 11/23/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 08:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	103		79-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8886.D
Lims ID: 240-140882-A-2
Client ID: TB-112320-BE-005
Sample Type: Client
Inject. Date: 01-Dec-2020 08:30:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 09:25:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 09:22:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111				ND	
* 135 TBA-d9 (IS)	65	3.361	3.397	-0.036	0	396	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	150775	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.122	-0.012	93	4576	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	109991	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	98	48572	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.787	4.793	-0.006	91	35715	52.9	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	144807	51.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	38071	47.9	
$ 8 BFB	95	9.920	9.920	0.000	81	52467	NR	
9 Dichlorodifluoromethane	85		1.288				ND	U
10 Chloromethane	50		1.526				ND	
11 Vinyl chloride	62		1.532				ND	
12 Butadiene	54		1.568				ND	
13 Bromomethane	94		1.837				ND	
14 Chloroethane	64		1.916				ND	
15 Dichlorofluoromethane	67		2.117				ND	
16 Trichlorofluoromethane	101		2.166				ND	
17 Ethanol	45		2.373				ND	
18 Ethyl ether	59		2.477				ND	
19 Acrolein	56		2.562				ND	
20 1,1-Dichloroethene	96		2.666				ND	
21 112TCTFE	101		2.696				ND	
22 Acetone	43		2.714				ND	
23 Iodomethane	142		2.775				ND	
24 Carbon disulfide	76		2.842				ND	
105 Isopropyl alcohol	45		2.885				ND	
118 Acetonitrile	40		2.964				ND	
25 3-Chloro-1-propene	76		3.007				ND	
26 Methyl acetate	43		3.037				ND	
27 Methylene Chloride	84	3.111	3.111	0.000	96	5200	2.83	
35 2-Methyl-2-propanol	59		3.269				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348				ND	
28 trans-1,2-Dichloroethene	96		3.397				ND	
29 Methyl tert-butyl ether	73		3.409				ND	
31 Hexane	57		3.708				ND	
32 1,1-Dichloroethane	63		3.787				ND	
33 Vinyl acetate	86		3.854				ND	
34 2-Chloro-1,3-butadiene	53		3.885				ND	
36 Isopropyl ether	87		3.909				ND	
37 Tert-butyl ethyl ether	59		4.245				ND	
39 cis-1,2-Dichloroethene	96		4.336				ND	
38 2,2-Dichloropropane	77		4.336				ND	
40 2-Butanone (MEK)	43		4.354				ND	
41 Propionitrile	54		4.397				ND	
104 Ethyl acetate	61		4.427				ND	
43 Methacrylonitrile	67		4.549				ND	
42 Chlorobromomethane	128		4.549				ND	
44 Tetrahydrofuran	71		4.604				ND	
45 Chloroform	83		4.647				ND	
46 1,1,1-Trichloroethane	97		4.811				ND	
47 Cyclohexane	56		4.872				ND	
48 Carbon tetrachloride	117		4.976				ND	
49 1,1-Dichloropropene	75		4.982				ND	
108 Isobutyl alcohol	43		5.122				ND	
50 Benzene	78		5.177				ND	
51 1,2-Dichloroethane	62		5.183				ND	
116 n-Butanol	56		5.299				ND	
52 Tert-amyl methyl ether	73		5.311				ND	
53 n-Heptane	43		5.476				ND	
54 Trichloroethene	95		5.811				ND	
117 Ethyl acrylate	55		5.939				ND	
114 Methylcyclohexane	83		6.012				ND	
55 1,2-Dichloropropane	63		6.019				ND	
56 Dibromomethane	93		6.128				ND	
115 1,4-Dioxane	58		6.159				ND	
57 Methyl methacrylate	69		6.165				ND	
58 Dichlorobromomethane	83		6.293				ND	
106 2-Nitropropane	43		6.525				ND	
59 2-Chloroethyl vinyl ether	63		6.622				ND	
60 cis-1,3-Dichloropropene	75		6.756				ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933				ND	
62 Toluene	92		7.116				ND	
63 trans-1,3-Dichloropropene	75		7.341				ND	
64 Ethyl methacrylate	69		7.463				ND	
65 1,1,2-Trichloroethane	83		7.530				ND	
66 Tetrachloroethene	166		7.689				ND	
67 1,3-Dichloropropane	76		7.707				ND	
68 2-Hexanone	43		7.817				ND	
69 Chlorodibromomethane	129		7.945				ND	
109 n-Butyl acetate	43		7.975				ND	
70 Ethylene Dibromide	107		8.061				ND	
71 Chlorobenzene	112		8.616				ND	
72 1,1,1,2-Tetrachloroethane	131		8.713				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750				ND	
74 m-Xylene & p-Xylene	106		8.890				ND	
75 o-Xylene	106		9.329				ND	
76 Styrene	104		9.347				ND	
77 Bromoform	173		9.530				ND	
78 Isopropylbenzene	105		9.762				ND	
79 Bromobenzene	156		10.085				ND	
80 1,1,2,2-Tetrachloroethane	83		10.103				ND	
81 1,2,3-Trichloropropane	110		10.140				ND	
82 trans-1,4-Dichloro-2-butene	53		10.170				ND	
83 N-Propylbenzene	91		10.243				ND	
84 2-Chlorotoluene	91		10.323				ND	
85 4-Chlorotoluene	91		10.451				ND	
86 1,3,5-Trimethylbenzene	105		10.457				ND	
87 tert-Butylbenzene	119		10.835				ND	
88 1,2,4-Trimethylbenzene	105		10.890				ND	
89 sec-Butylbenzene	105		11.097				ND	
90 1,3-Dichlorobenzene	146		11.200				ND	
91 4-Isopropyltoluene	119		11.280				ND	
92 1,4-Dichlorobenzene	146		11.304				ND	
110 1,2,3-Trimethylbenzene	105		11.383				ND	
113 Benzyl chloride	126		11.475				ND	
93 1,2-Dichlorobenzene	146		11.743				ND	
94 n-Butylbenzene	91		11.767				ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676				ND	
96 1,2,4-Trichlorobenzene	180		12.944				ND	
112 1,3,5-Trichlorobenzene	180		13.694				ND	
97 Hexachlorobutadiene	225		13.926				ND	
98 Naphthalene	128		13.974				ND	
99 1,2,3-Trichlorobenzene	180		14.279				ND	
138 Dodecane	57		0.000				ND	
131 1-Chlorohexane	55		0.000				ND	
124 Acetaldehyde TIC	1		0.000				ND	
139 C6-C12	1		0.000				ND	
130 Dichloroacetonitrile TIC	1		0.000				ND	
129 Pentachloroethane	167		0.000				ND	
123 Cyclohexanone	55		0.000				ND	
133 Isooctane	57		0.000				ND	
136 n-Decane	57		0.000				ND	
132 t-Amyl alcohol	1		0.000				ND	
137 C6-C10	1		0.000				ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
128 1,1-Dichloroacetone TIC	43		4.690				ND	
S 101 1,2-Dichloroethene, Total	1		0.000				ND	
S 100 Xylenes, Total	1		0.000				ND	
S 102 1,3-Dichloropropene, Total	1		0.000				ND	
T 120 Methyl n-amyl ketone TIC	1		9.100				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

a - User Assigned ID

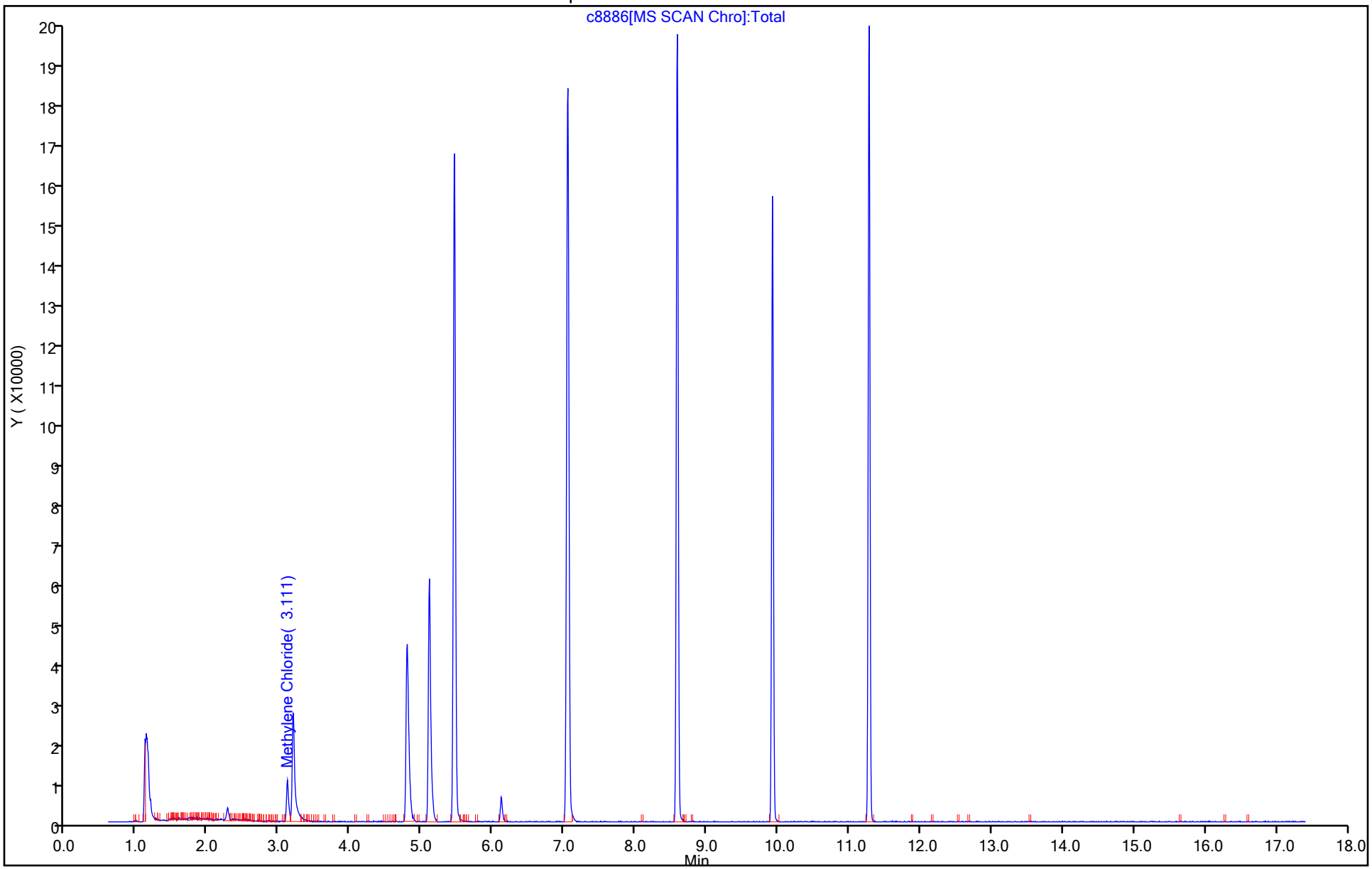
Reagents:

VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 09:25:16 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8886.D				
Injection Date:	01-Dec-2020 08:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	240-140882-A-2	Lab Sample ID:	310-140882-2	Worklist Smp#:	13
Client ID:	TB-112320-BE-005				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8886.D
Lims ID: 240-140882-A-2
Client ID: TB-112320-BE-005
Sample Type: Client
Inject. Date: 01-Dec-2020 08:30:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-013
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 09:25:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 09:22:19

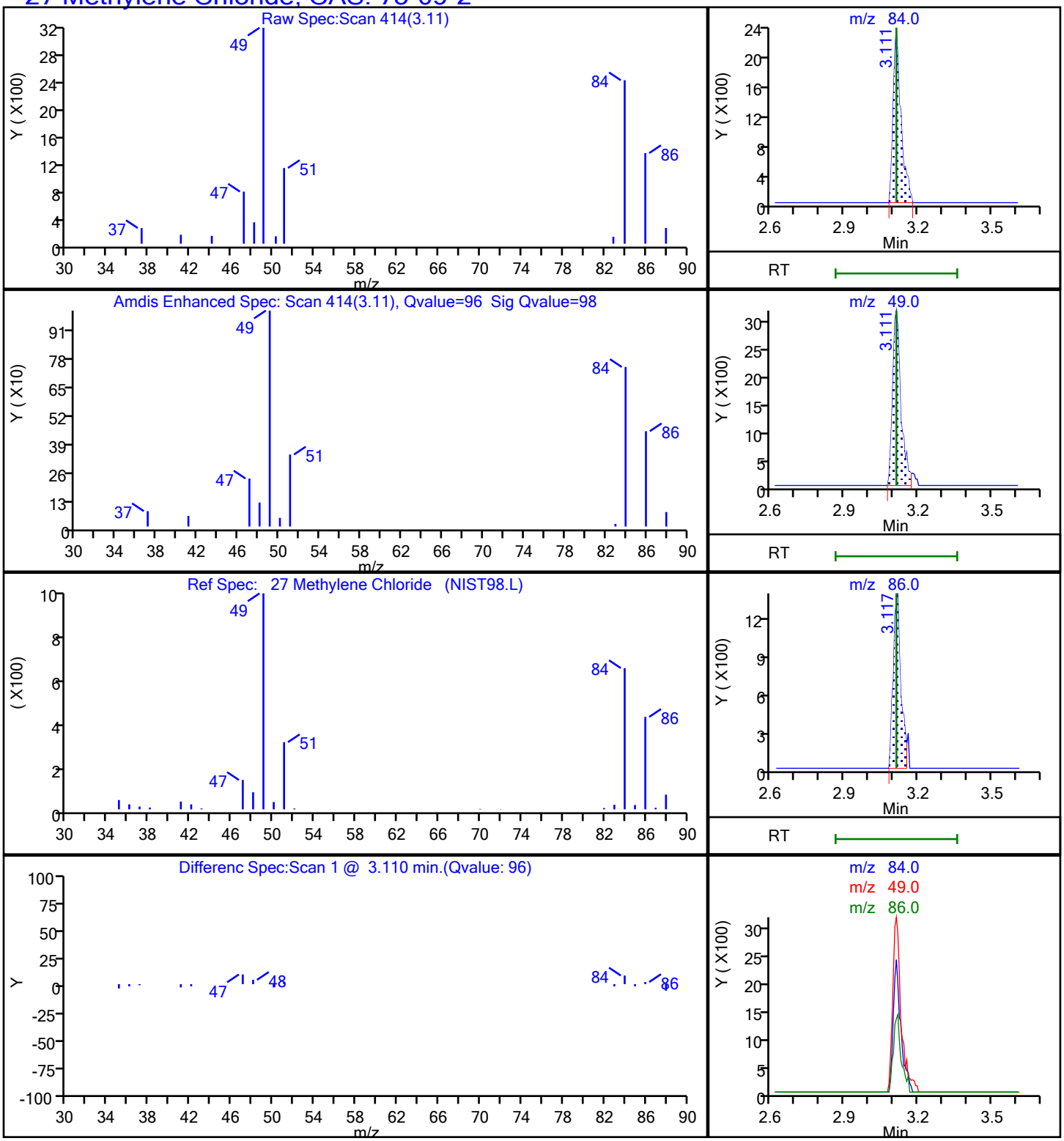
Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.9	105.71
$ 6 Toluene-d8 (Surr)	50.0	51.3	102.70
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.9	95.82

Report Date: 01-Dec-2020 09:25:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8886.D				
Injection Date:	01-Dec-2020 08:30:30	Instrument ID:	Calvin		
Lims ID:	240-140882-A-2	Lab Sample ID:	310-140882-2		
Client ID:	TB-112320-BE-005				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

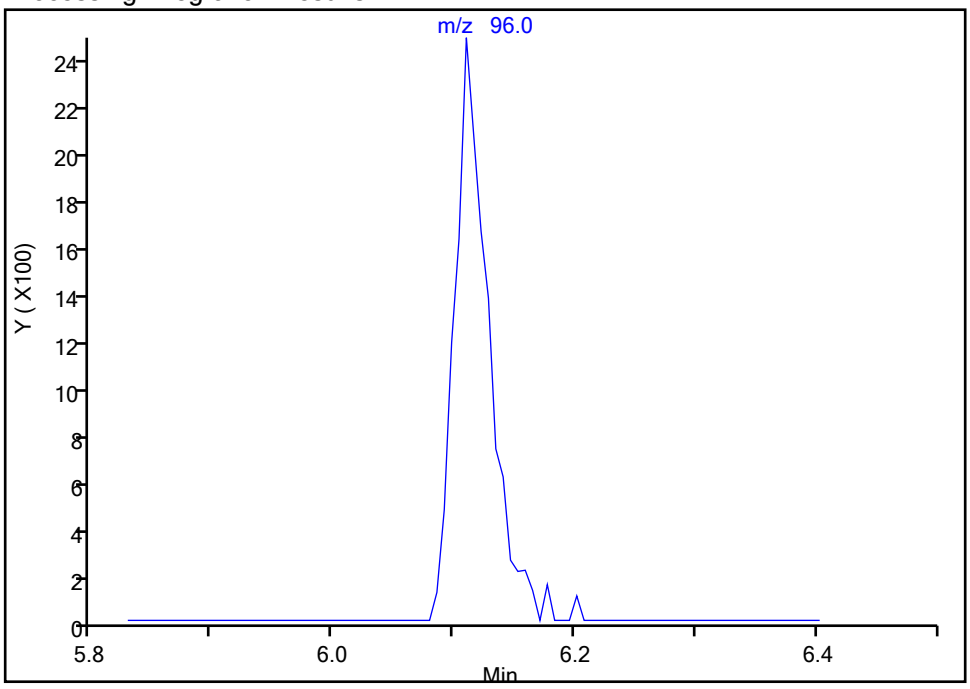
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8886.D				
Injection Date:	01-Dec-2020 08:30:30	Instrument ID:	Calvin		
Lims ID:	240-140882-A-2	Lab Sample ID:	310-140882-2		
Client ID:	TB-112320-BE-005				
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

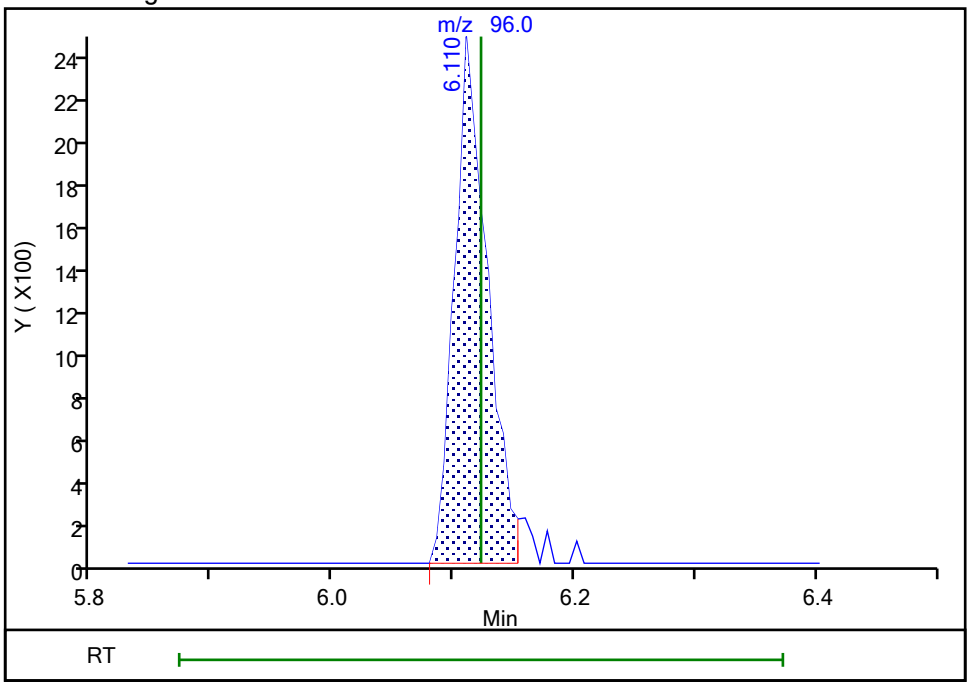
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 4576
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 08:54:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-293913/24	c5282.D
Level 2	STD2 310-293913/25	c5283.D
Level 3	STD3 310-293913/26	c5284.D
Level 4	STD4 310-293913/27	c5285.D
Level 5	STD5 310-293913/28	c5286.D
Level 6	STD6 310-293913/29	c5287.D
Level 7	STD7 310-293913/30	c5288.D
Level 8	STD8 310-293913/31	c5289.D
Level 9	STD9 310-293913/32	c5290.D
Level 10	STD10 310-293913/33	c5291.D
Level 11	STD11 310-293913/34	c5292.D
Level 12	STD12 310-293913/35	c5293.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.8371 0.7425	0.9085 0.7346 0.7941	0.9864 0.8675	0.7342 0.8985	0.7955 0.8151	Ave		0.8285			0.1000	9.8		20.0			
Chloromethane	+++++ 0.5166 0.5627	0.6358 0.5354 0.5717	0.5765 0.5524	0.4577 0.5396	0.4531 0.5783	Ave		0.5436			0.1000	9.8		20.0			
Vinyl chloride	0.9055 0.8491 0.8715	0.7784 0.8117 0.8602	0.8764 0.9096	0.8060 0.9516	0.8156 0.9045	Ave		0.8617			0.1000	6.0		20.0			
1,3-Butadiene	+++++ 0.8293 0.8585	1.0580 0.7975 0.8616	0.9704 0.8990	0.6994 0.9557	0.8240 0.9000	Ave		0.8776				10.9		20.0			
Bromomethane	+++++ 0.3391 +++++	+++++ 0.3405 +++++	0.3213 0.4184	0.2853 +++++	0.3026 +++++	Ave		0.3345			0.1000	13.8		20.0			
Chloroethane	+++++ 0.4885 0.5015	0.5531 0.4559 0.4907	0.5411 0.5109	0.5138 0.5341	0.4686 0.5188	Ave		0.5070			0.1000	5.9		20.0			
Dichlorofluoromethane	1.0939 1.1243 1.2012	1.1187 1.0920 1.1814	1.1684 1.2302	1.0545 1.2748	1.1065 1.2410	Ave		1.1572				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Trichlorofluoromethane	1.0231 1.1166 1.1126	0.9595 1.0437 1.1406	1.0923 1.1843	0.9472 1.2326	1.0064 1.1644	Ave		1.0853			0.1000	8.3		20.0			
Dibromofluoromethane (Surr)	0.2296 0.2311 0.2356	0.2336 0.2313 0.2319	0.2324 0.2289	0.2298 0.2224	0.2337 0.2334	Ave		0.2311				1.5		20.0			
Toluene-d8 (Surr)	1.2403 1.2471 1.2304	1.2283 1.2324 1.2410	1.2226 1.2436	1.2081 1.2500	1.2361 1.2379	Ave		1.2348				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.8163 0.8083 0.8199	0.8097 0.8214 0.8105	0.8051 0.8180	0.8148 0.8015	0.8110 0.8030	Ave		0.8116				0.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-293913/24	c5282.D
Level 2	STD2 310-293913/25	c5283.D
Level 3	STD3 310-293913/26	c5284.D
Level 4	STD4 310-293913/27	c5285.D
Level 5	STD5 310-293913/28	c5286.D
Level 6	STD6 310-293913/29	c5287.D
Level 7	STD7 310-293913/30	c5288.D
Level 8	STD8 310-293913/31	c5289.D
Level 9	STD9 310-293913/32	c5290.D
Level 10	STD10 310-293913/33	c5291.D
Level 11	STD11 310-293913/34	c5292.D
Level 12	STD12 310-293913/35	c5293.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	+++++ 65307 662630	3727 144618 1513261	7901 317355	10694 491329	62980 578355	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Chloromethane	FB	Ave	+++++ 40298 502228	2608 105403 1089527	4618 202095	6667 295058	35872 410332	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Vinyl chloride	FB	Ave	1856 66237 777837	3193 159813 1639192	7020 332757	11741 520365	64572 641772	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
1,3-Butadiene	FB	Ave	+++++ 64696 766157	4340 157001 1641946	7773 328893	10188 522618	65231 638544	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Bromomethane	FB	Ave	+++++ 26455 +++++	+++++ 67031 +++++	2574 153056	4156 +++++	23954 +++++	+++++ 20.0 +++++	+++++ 50.0 +++++	2.00 100	4.00 +++++	20.0 +++++
Chloroethane	FB	Ave	+++++ 38111 447568	2269 89757 935034	4334 186917	7484 292081	37099 368122	+++++ 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Dichlorofluoromethane	FB	Ave	2242 87706 1072050	4589 214983 2251396	9359 450077	15360 697088	87599 880526	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Trichlorofluoromethane	FB	Ave	2097 87110 992942	3936 205487 2173501	8749 433276	13797 674004	79672 826172	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	20.0 200
Dibromofluoromethane (Surr)	FB	Ave	47050	47919	46536	41844	46257	50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			45069 42045	45534 44194	41873	40540	41392	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	200538 193301 175372	201283 193082 190020	198035 180927	176531 180073	197431 177088	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	64279 62709 56460	65236 61976 59760	64581 57085	58668 56549	62521 55184	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 293913

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2020 00:09 Calibration End Date: 10/02/2020 04:33 Calibration ID: 16826

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-293913/24	c5282.D
Level 2	STD2 310-293913/25	c5283.D
Level 3	STD3 310-293913/26	c5284.D
Level 4	STD4 310-293913/27	c5285.D
Level 5	STD5 310-293913/28	c5286.D
Level 6	STD6 310-293913/29	c5287.D
Level 7	STD7 310-293913/30	c5288.D
Level 8	STD8 310-293913/31	c5289.D
Level 9	STD9 310-293913/32	c5290.D
Level 10	STD10 310-293913/33	c5291.D
Level 11	STD11 310-293913/34	c5292.D
Level 12	STD12 310-293913/35	c5293.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Dichlorodifluoromethane	+++++	9.7						40				
Chloromethane	+++++	16.9						40				
Vinyl chloride	5.1						40					
1,3-Butadiene	+++++	20.6						40				
Bromomethane	+++++	+++++	-3.9 +++++	+++++	+++++	+++++			40			
Chloroethane	+++++	9.1						40				
Dichlorofluoromethane	-5.5						40					
Trichlorofluoromethane	-5.7						40					

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2020 00:09:30 ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:15 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:52:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	204961	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	8032	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	161679	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	78745	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	47050	50.0	49.7	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	200538	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	91	64279	50.0	50.3	
9 Dichlorodifluoromethane	85	1.294	1.282	0.012	58	3419	0.5000	1.01	M
11 Vinyl chloride	62	1.556	1.532	0.024	85	1856	0.5000	0.5254	M
10 Chloromethane	50	1.520	1.562	-0.042	35	1798	0.5000	0.8069	M
12 Butadiene	54	1.574	1.568	0.006	83	2706	0.5000	0.7522	M
13 Bromomethane	94	1.830	1.867	-0.037	1	2574	0.5000	1.88	M
14 Chloroethane	64	1.910	1.910	0.000	21	1443	0.5000	0.6943	M
15 Dichlorofluoromethane	67	2.123	2.111	0.012	92	2242	0.5000	0.4726	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	92	2097	0.5000	0.4714	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

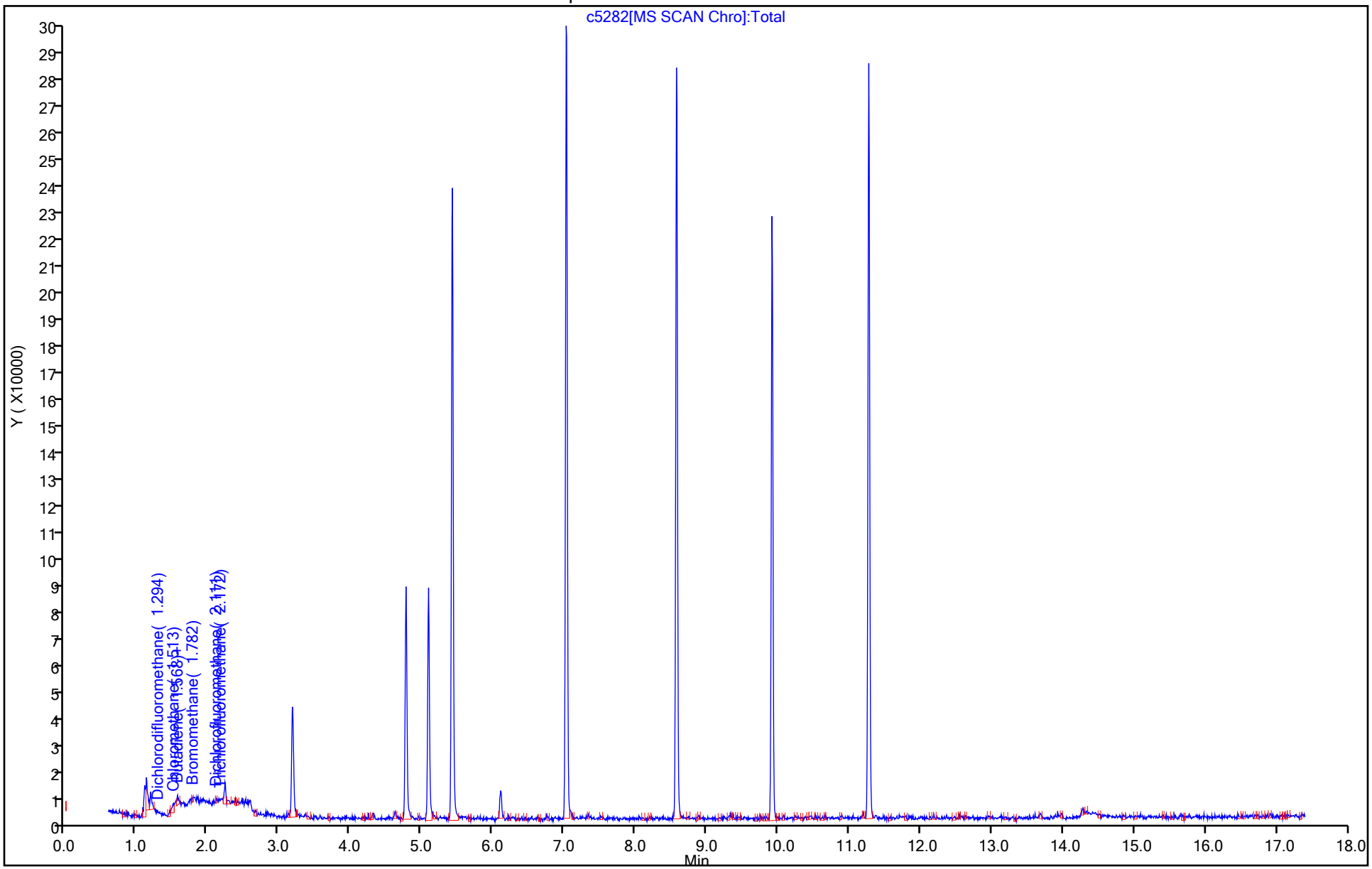
VV_I_GASES_00407 Amount Added: 0.50 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:16 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D

Injection Date:	02-Oct-2020 00:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std1			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

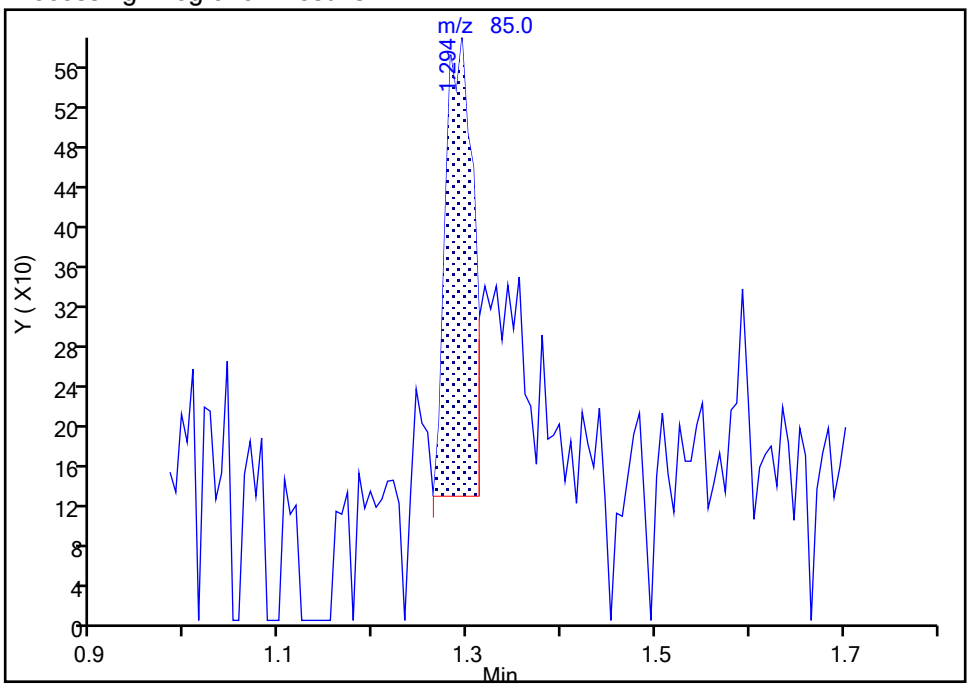
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

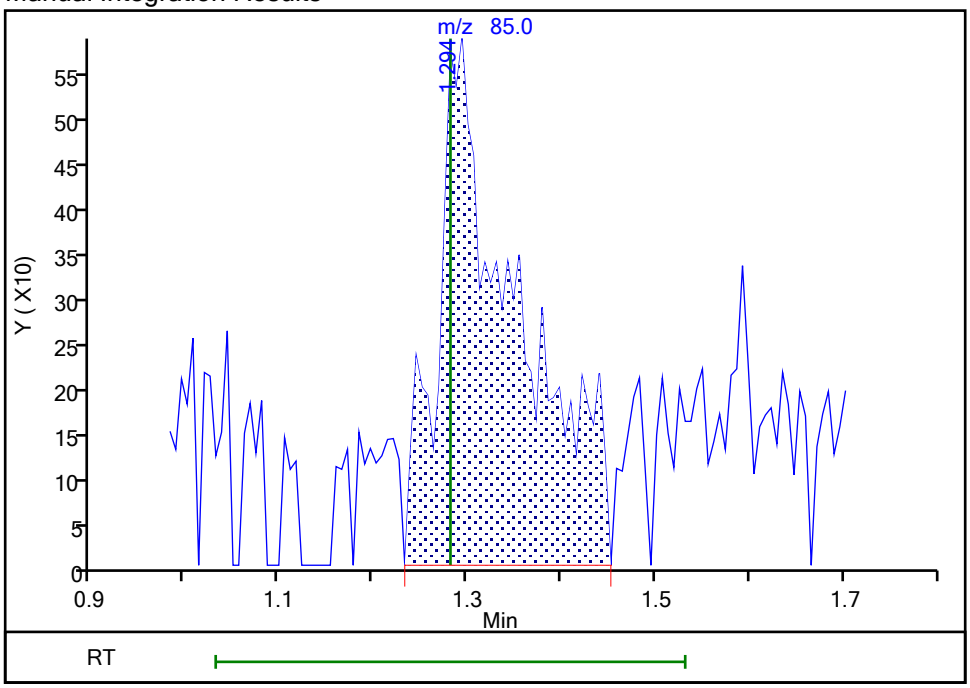
Processing Integration Results

RT: 1.29
Area: 919
Amount: 0.337300
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 3419
Amount: 1.006660
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

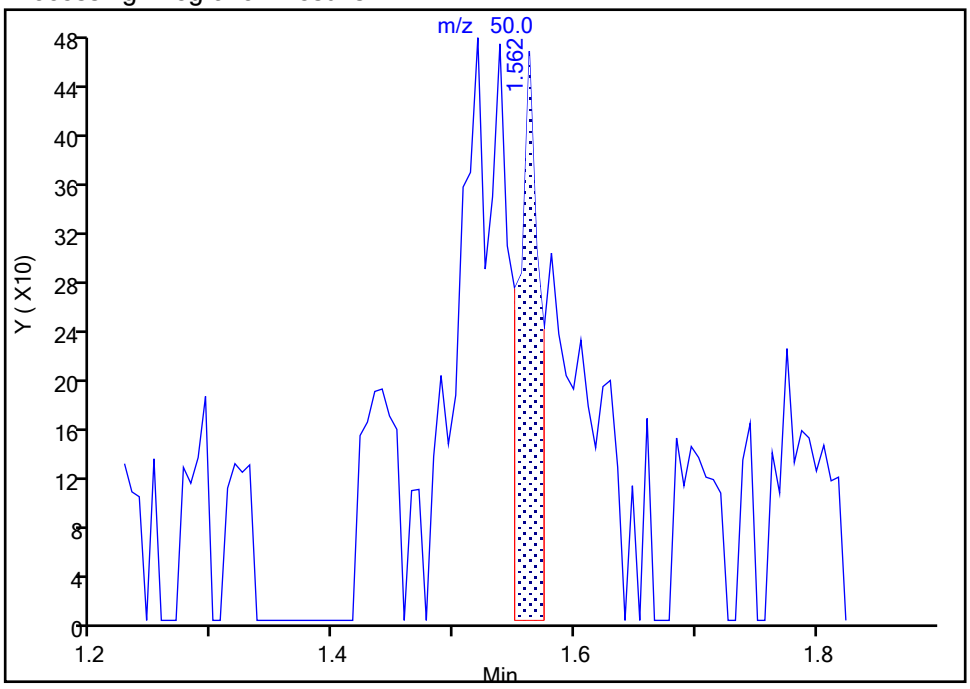
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

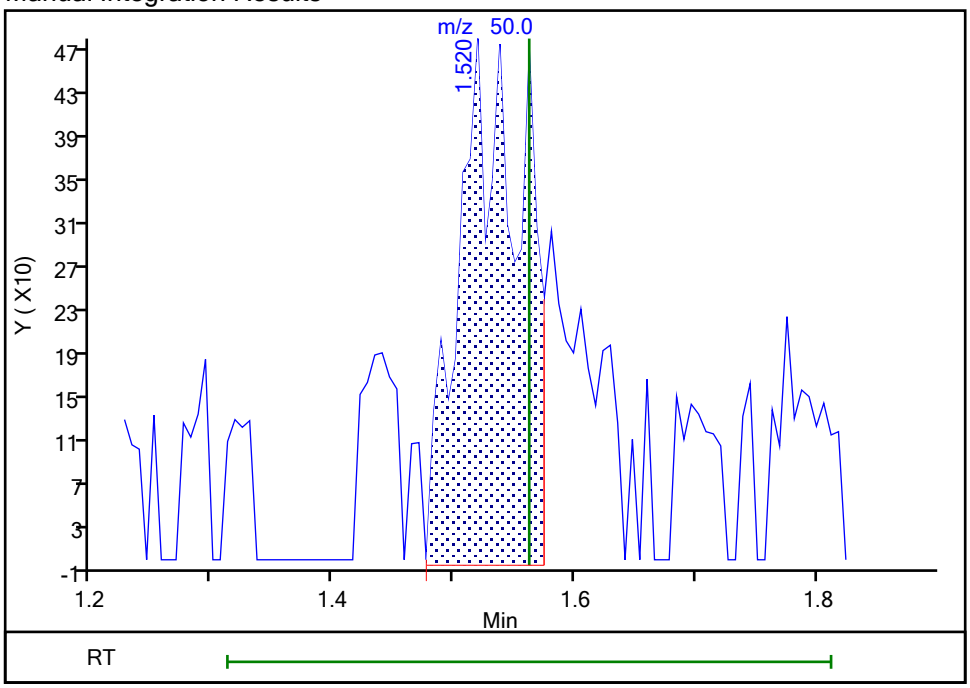
Processing Integration Results

RT: 1.56
Area: 571
Amount: 0.327593
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 1798
Amount: 0.806850
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

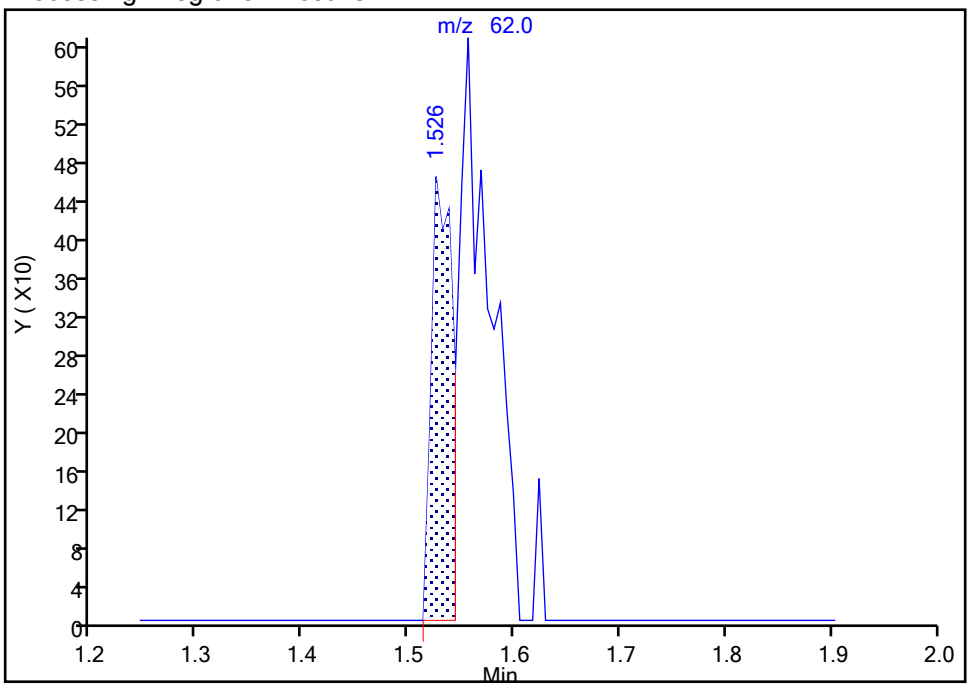
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

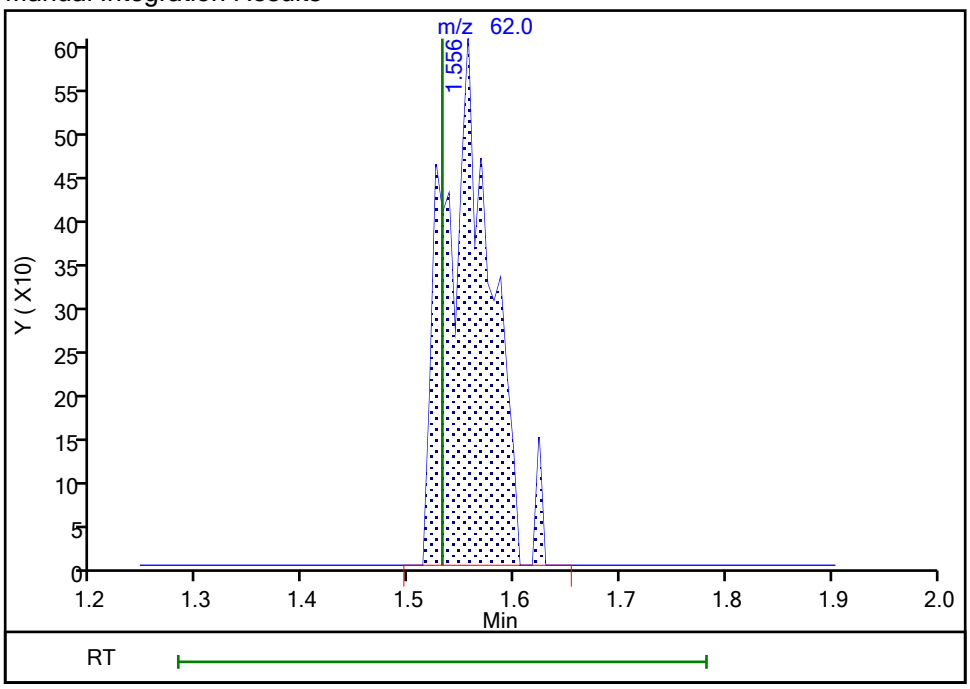
Processing Integration Results

RT: 1.53
Area: 636
Amount: 0.645423
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 1856
Amount: 0.525448
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

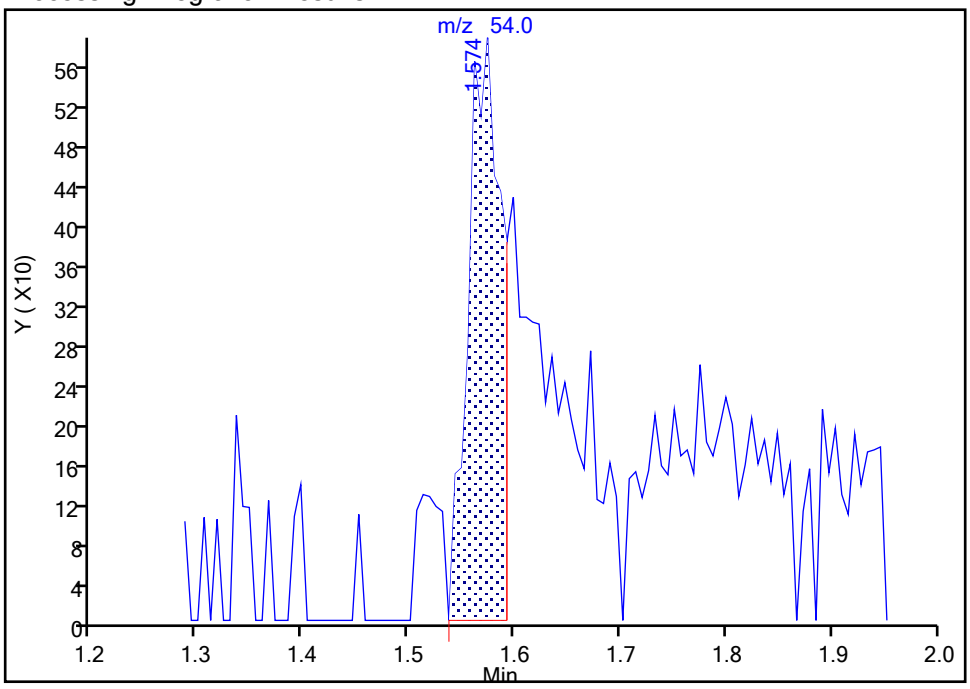
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

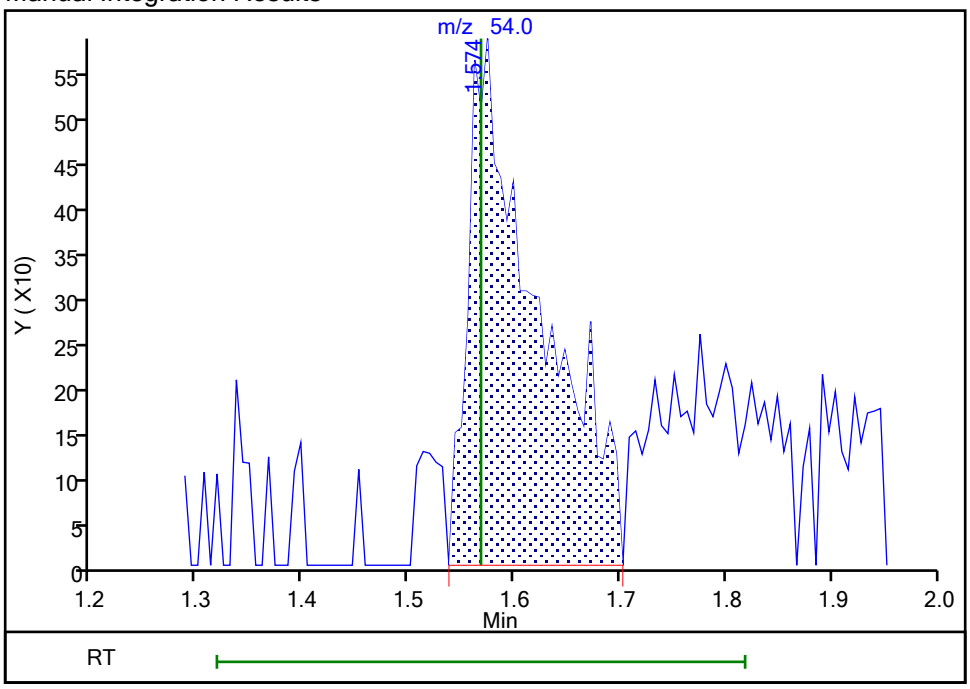
Processing Integration Results

RT: 1.57
Area: 1281
Amount: 0.401970
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 2706
Amount: 0.752217
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

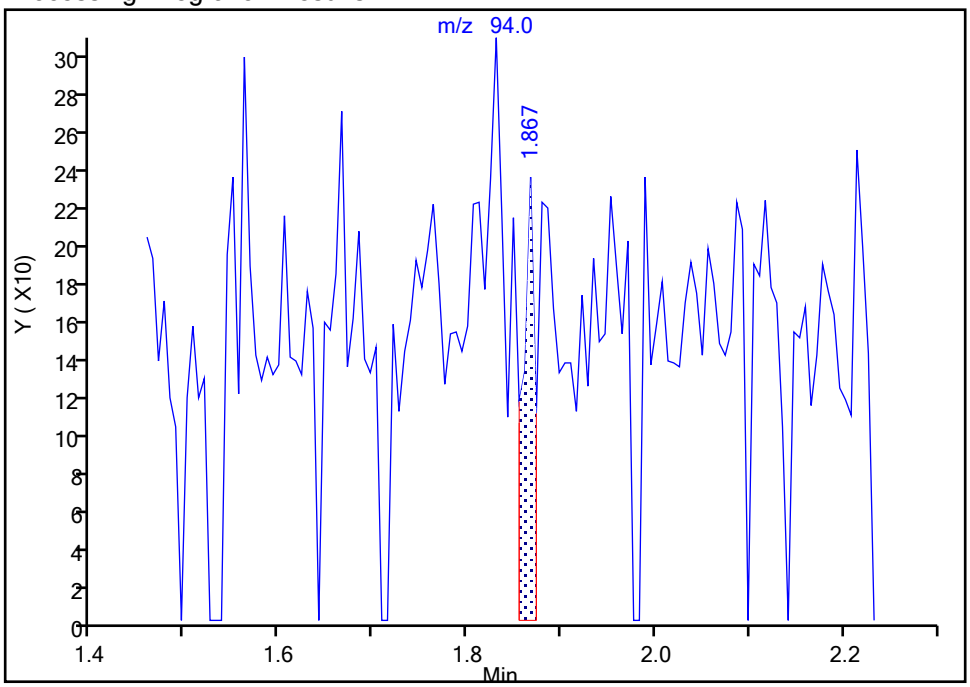
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

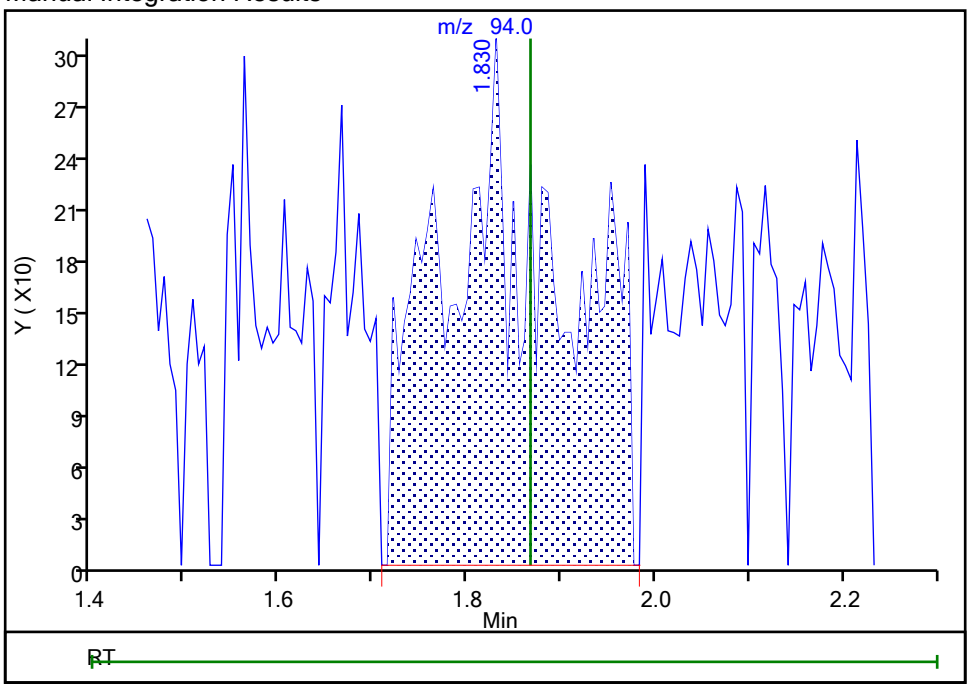
Processing Integration Results

RT: 1.87
Area: 211
Amount: 0.246729
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 2574
Amount: 1.877030
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

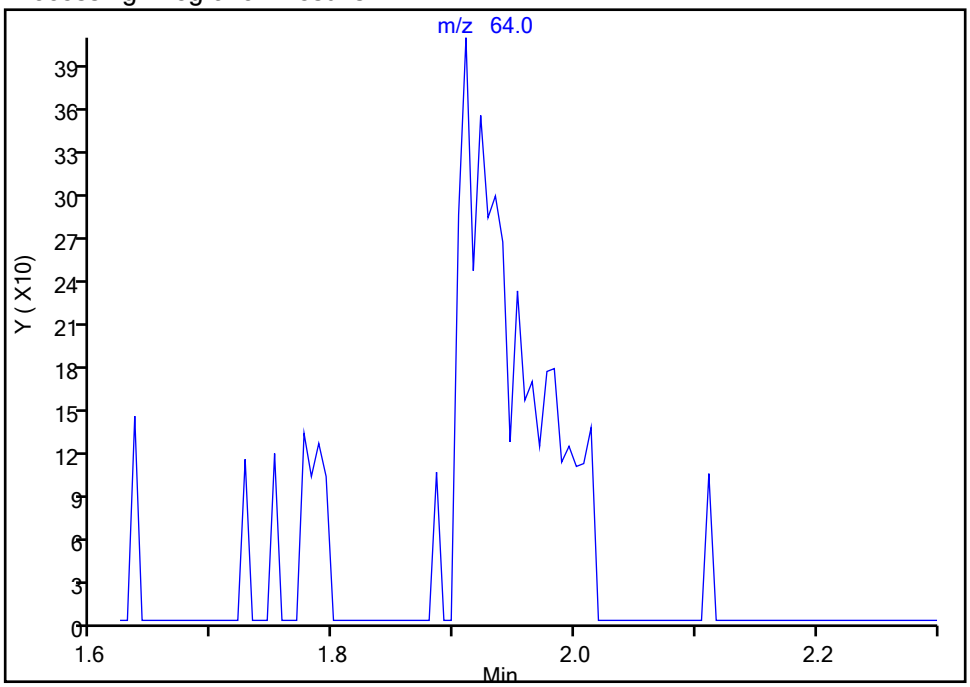
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

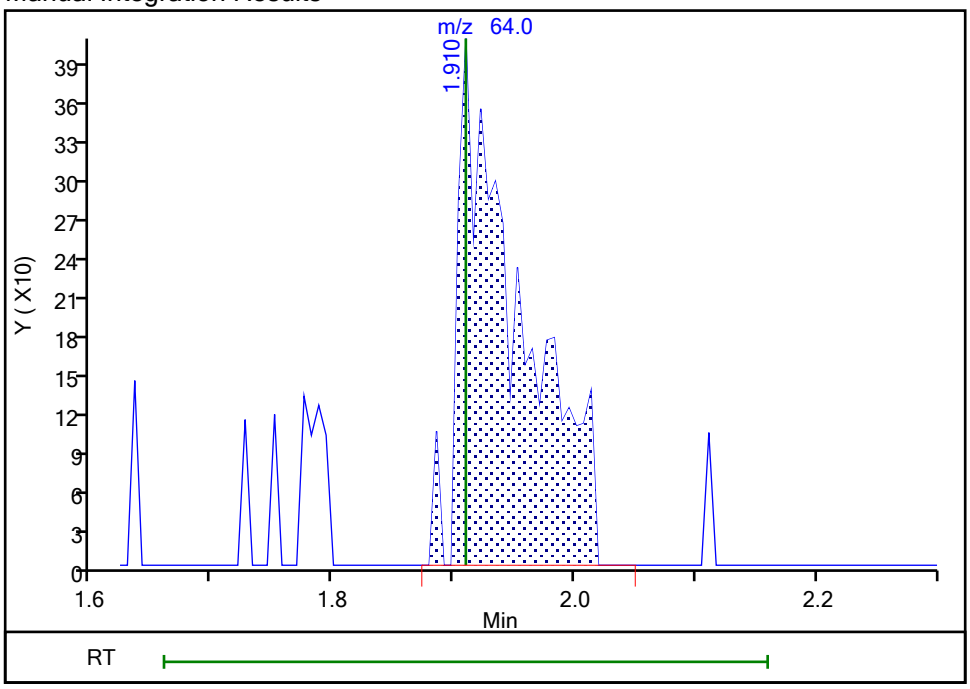
Not Detected
Expected RT: 1.91

Processing Integration Results



Manual Integration Results

RT: 1.91
Area: 1443
Amount: 0.694307
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

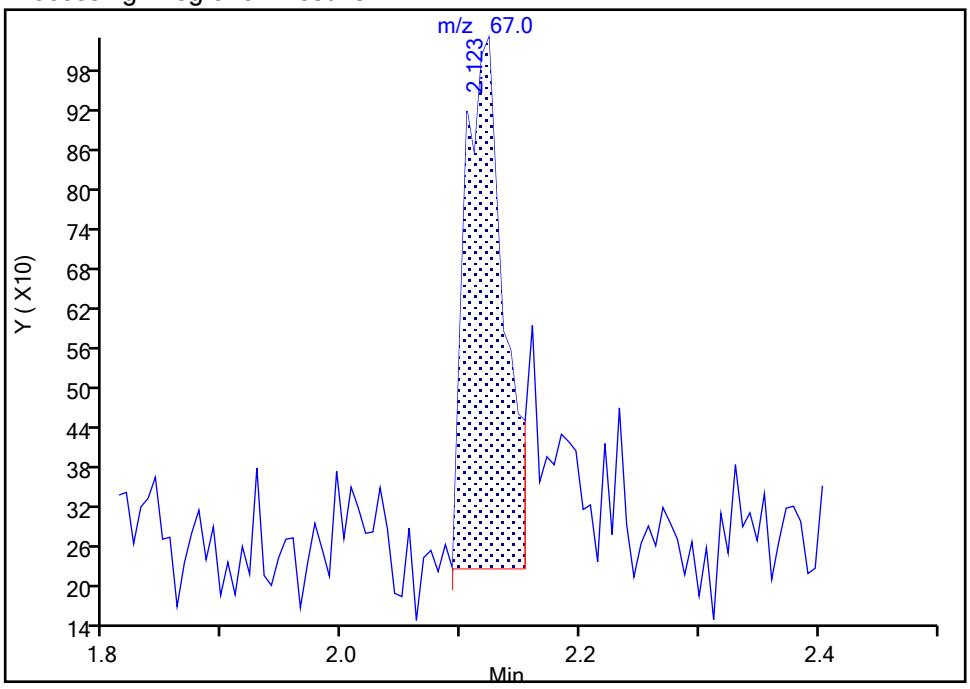
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D
Injection Date: 02-Oct-2020 00:09:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 34 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

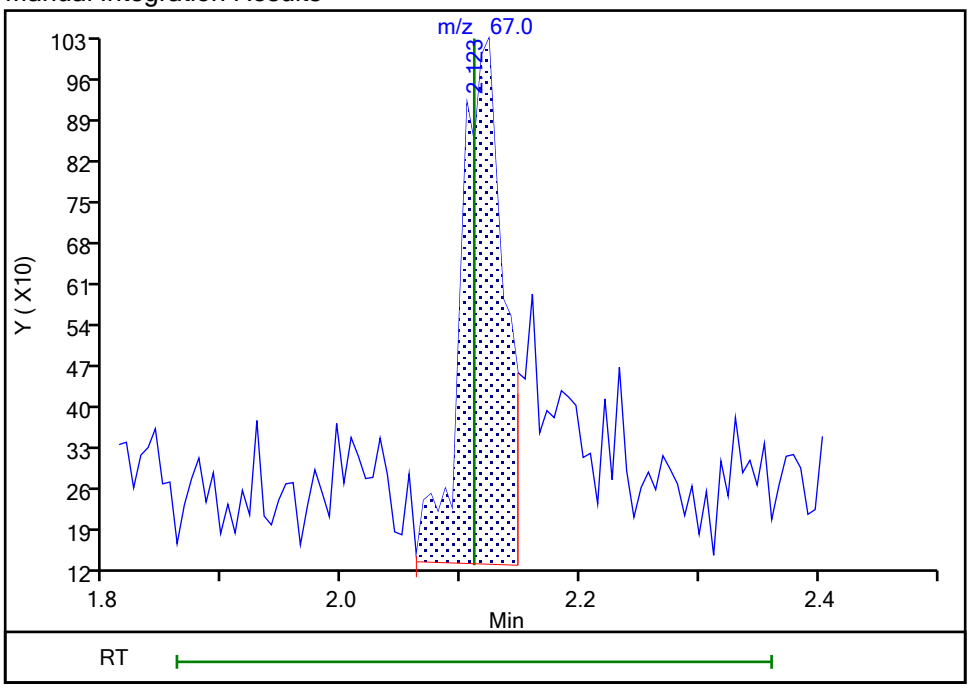
Processing Integration Results

RT: 2.12
Area: 1824
Amount: 0.407072
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 2242
Amount: 0.472620
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

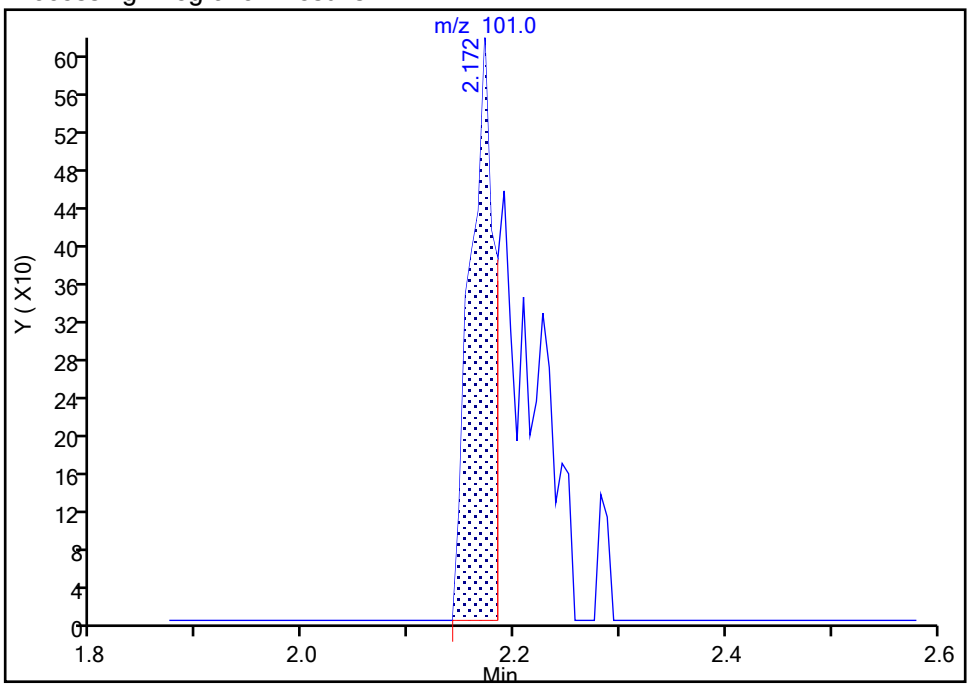
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5282.D				
Injection Date:	02-Oct-2020 00:09:30	Instrument ID:	Calvin		
Lims ID:	std1				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	34	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

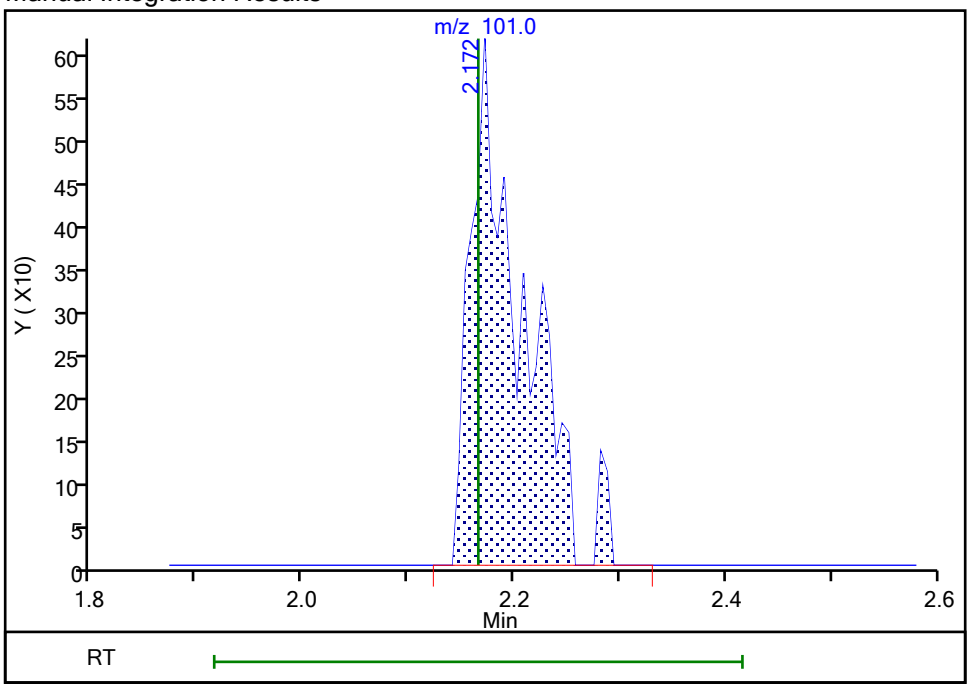
Processing Integration Results

RT: 2.17
Area: 993
Amount: 0.256153
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 2097
Amount: 0.471368
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:51:21

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 02-Oct-2020 00:33:30 ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:19 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:53:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	100	205109	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.098	6.104	-0.006	96	8165	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	163866	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	80568	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	47919	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	201283	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	91	65236	50.0	49.9	
9 Dichlorodifluoromethane	85	1.282	1.282	0.000	93	3727	1.00	1.10	M
11 Vinyl chloride	62	1.532	1.532	0.000	93	3193	1.00	0.9033	M
10 Chloromethane	50	1.538	1.562	-0.024	44	2608	1.00	1.17	M
12 Butadiene	54	1.568	1.568	0.000	88	4340	1.00	1.21	M
13 Bromomethane	94	1.812	1.867	-0.055	25	1854	1.00	1.35	M
14 Chloroethane	64	1.916	1.910	0.006	96	2269	1.00	1.09	M
15 Dichlorofluoromethane	67	2.111	2.111	0.000	93	4589	1.00	0.9667	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	94	3936	1.00	0.8841	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

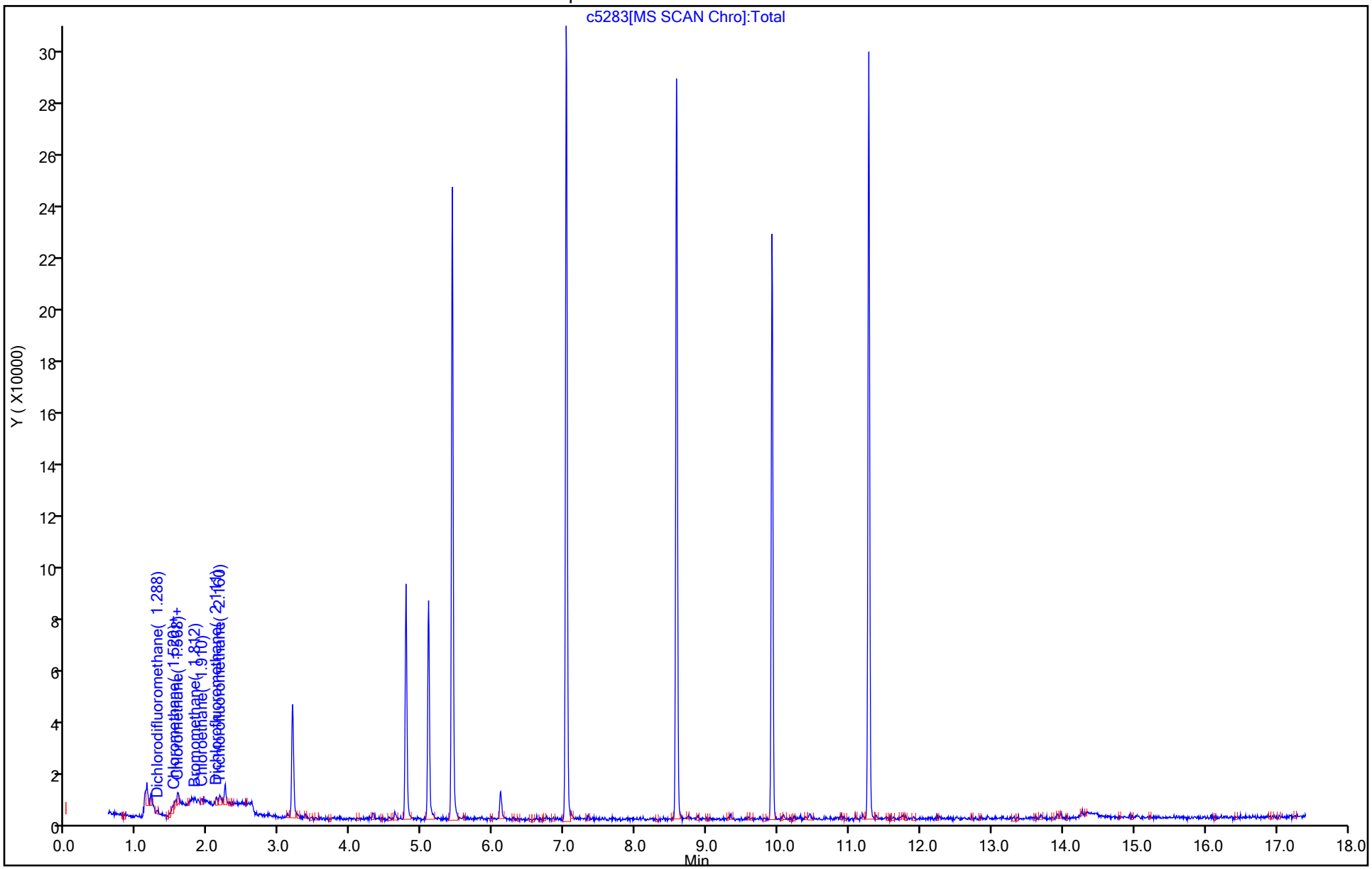
Reagents:

VV_I_GASES_00407 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:19 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D				
Injection Date:	02-Oct-2020 00:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std2			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

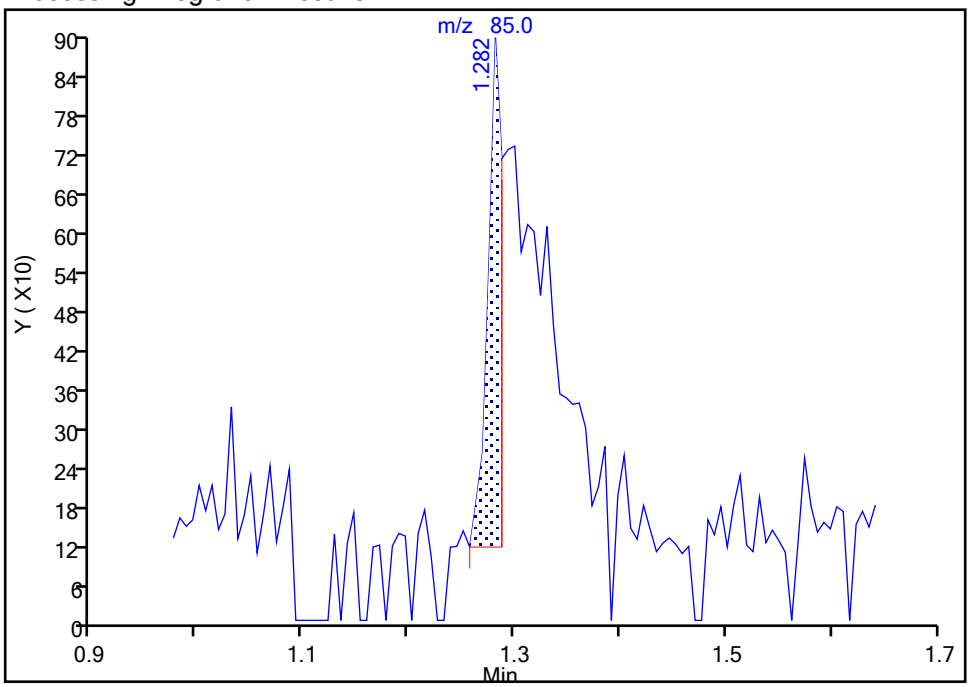
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D				
Injection Date:	02-Oct-2020 00:33:30	Instrument ID:	Calvin		
Lims ID:	std2				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	35	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

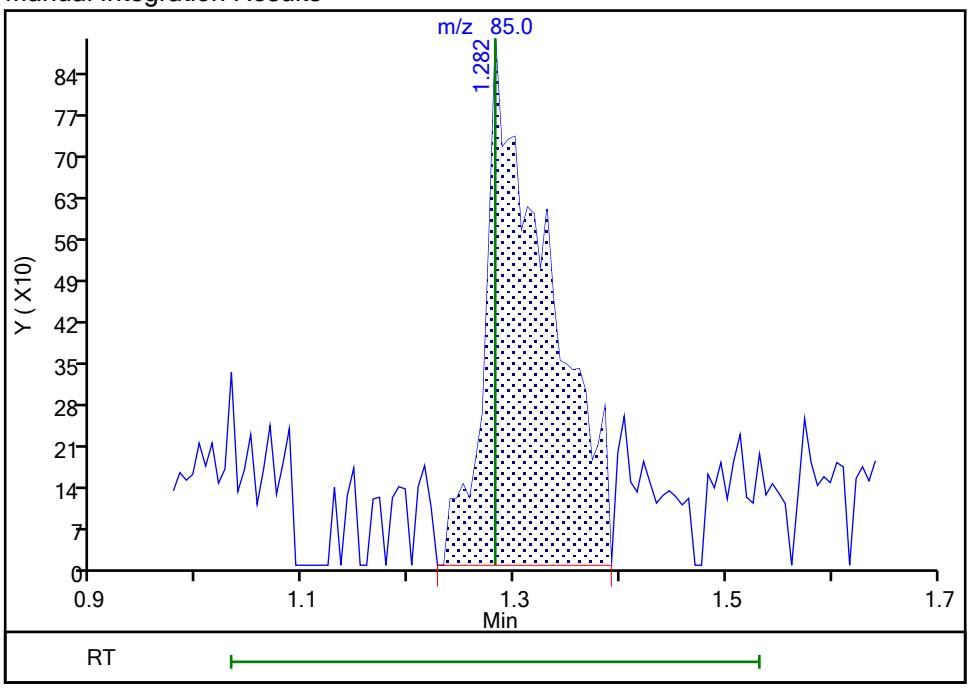
Processing Integration Results

RT: 1.28
Area: 746
Amount: 0.237314
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 3727
Amount: 1.096552
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:53
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

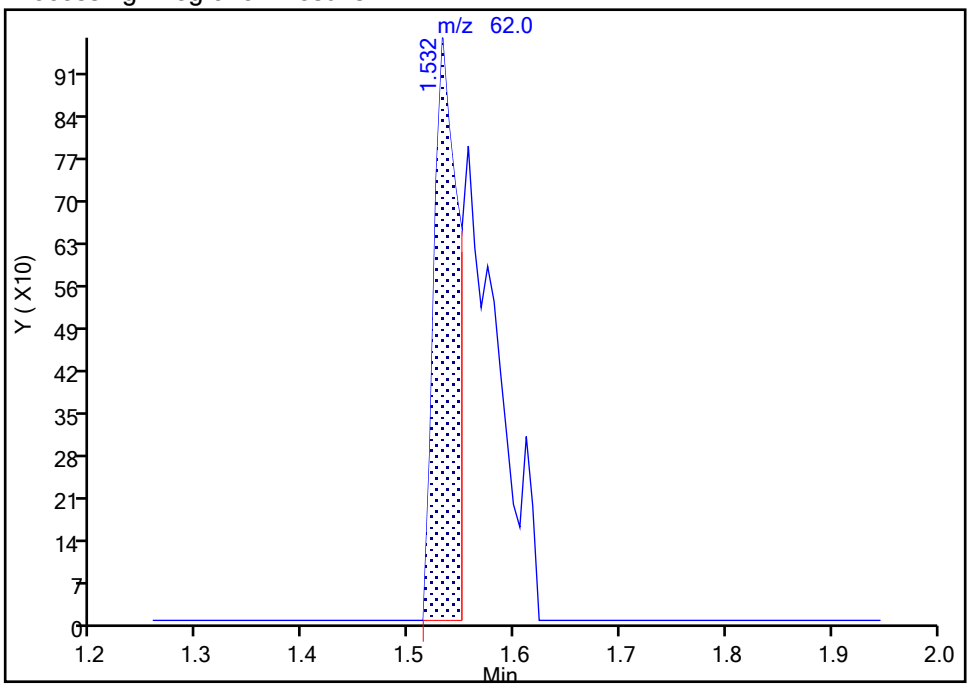
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

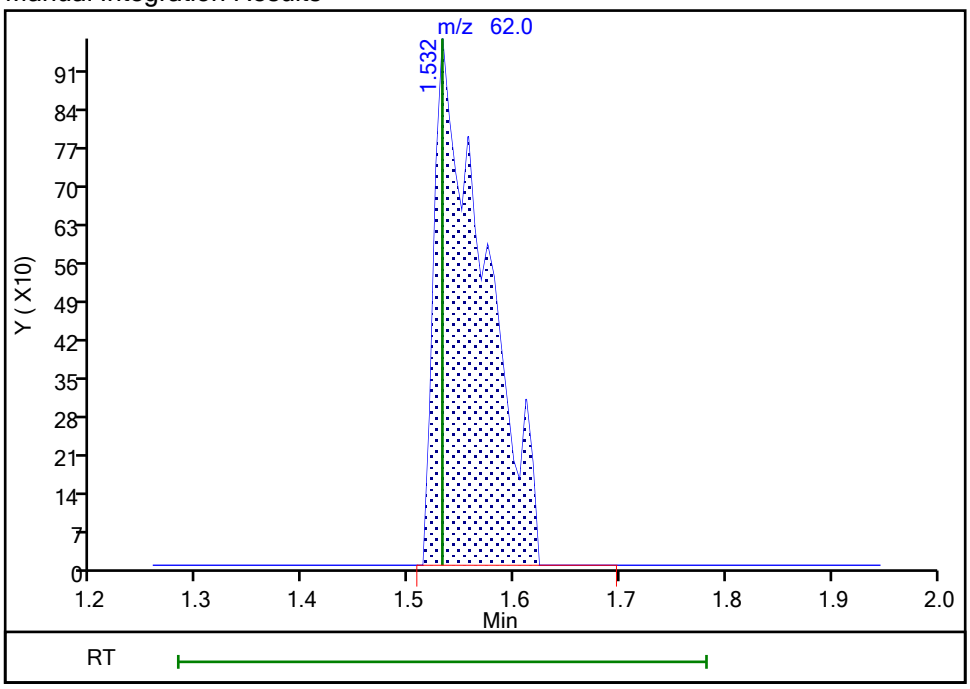
Processing Integration Results

RT: 1.53
Area: 1518
Amount: 0.463610
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 3193
Amount: 0.903310
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:53:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

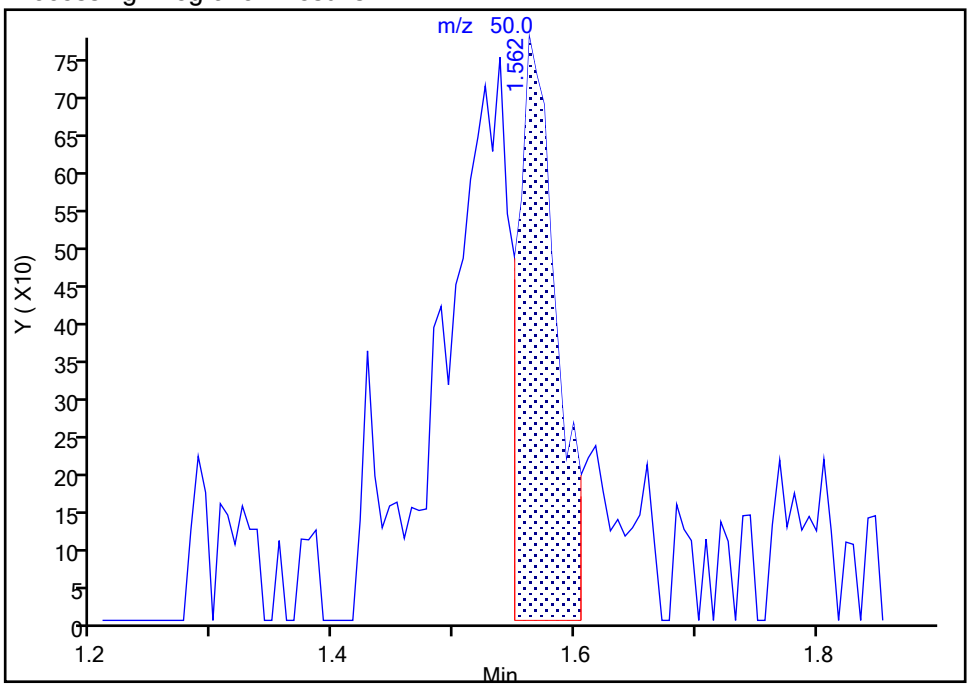
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

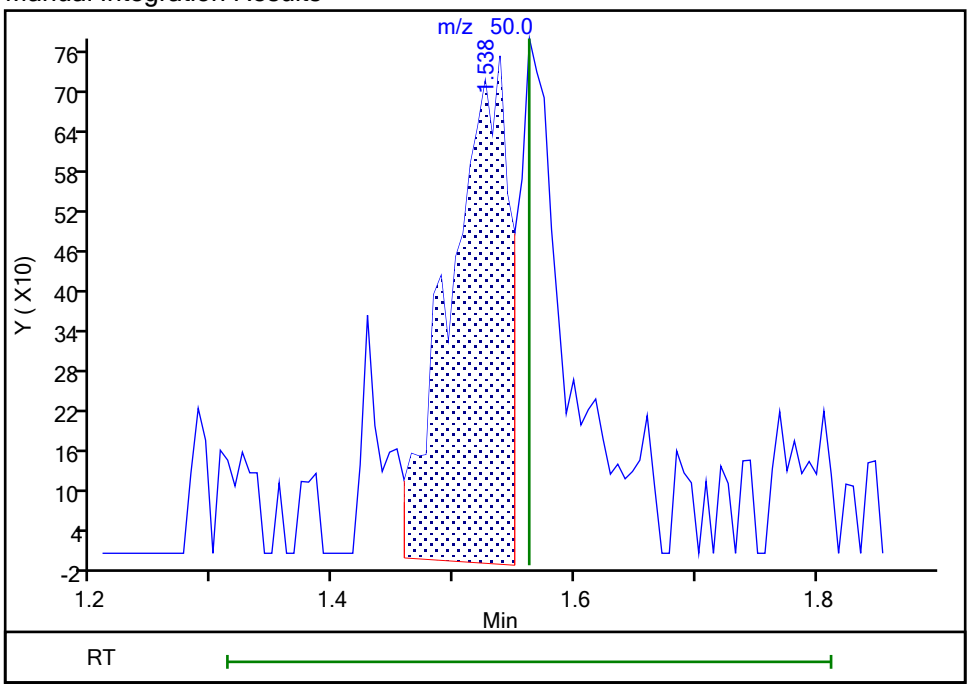
Processing Integration Results

RT: 1.56
Area: 1729
Amount: 0.887157
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 2608
Amount: 1.169492
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:53:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

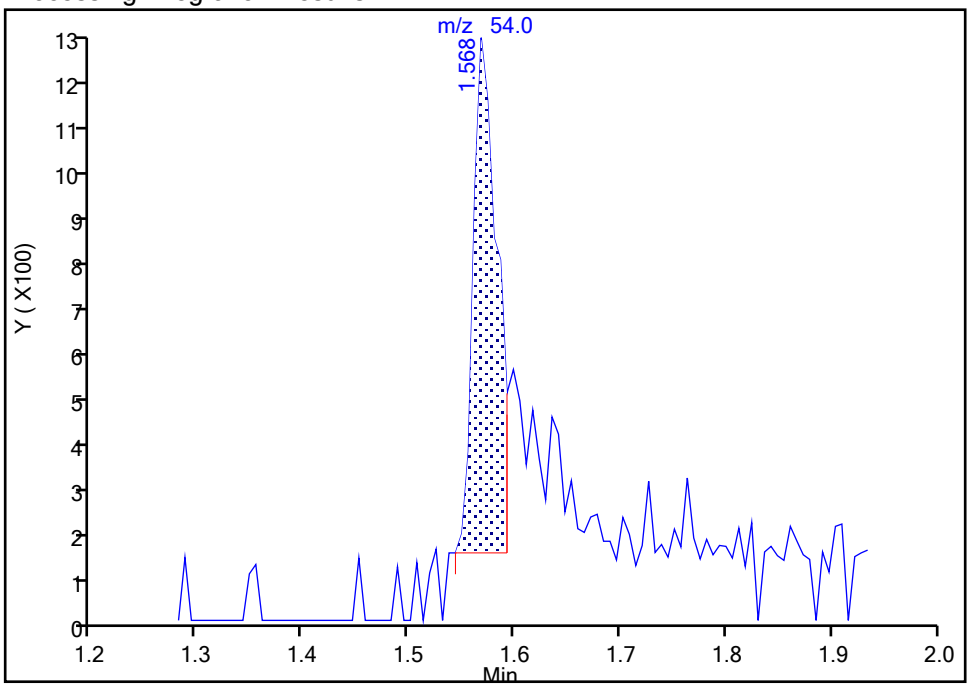
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

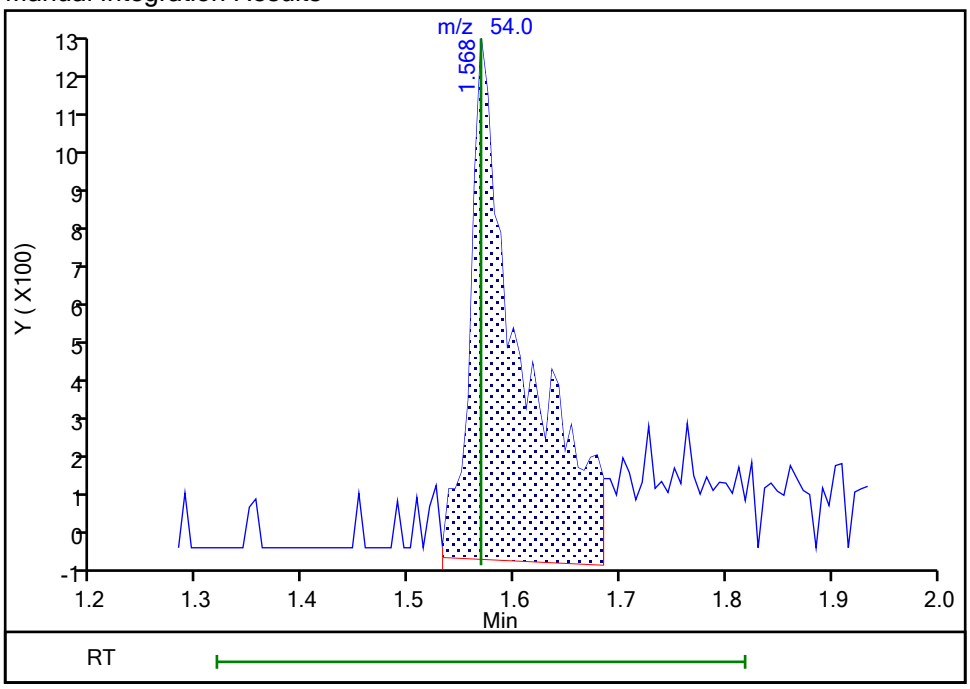
Processing Integration Results

RT: 1.57
Area: 1743
Amount: 0.508641
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 4340
Amount: 1.205568
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:53:29
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

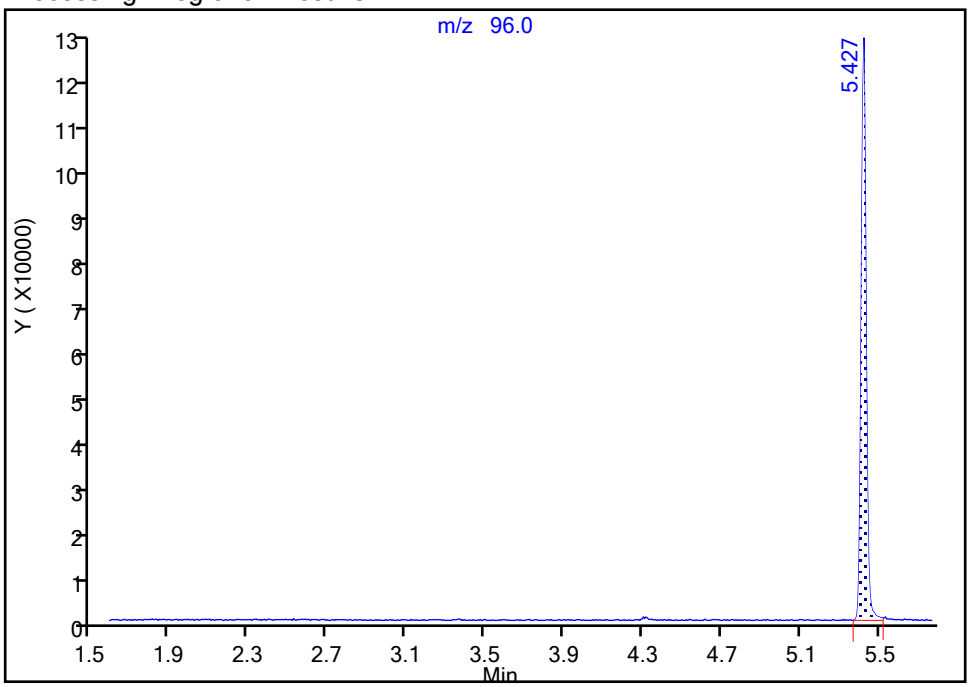
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 2

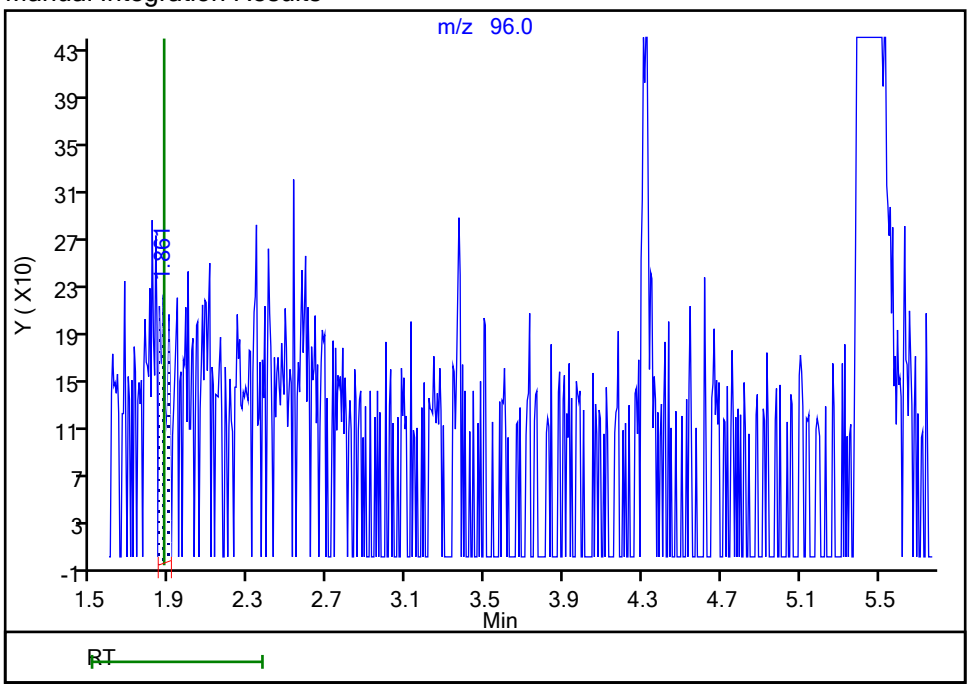
Processing Integration Results

RT: 5.43
Area: 205109
Amount: 2.807095
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 633
Amount: 1.351011
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

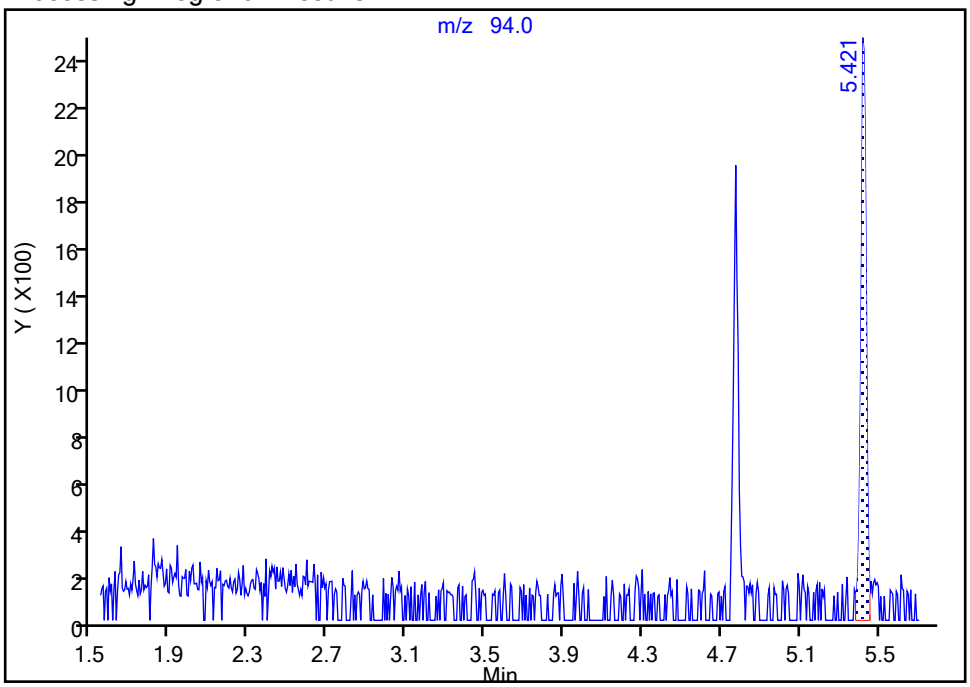
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

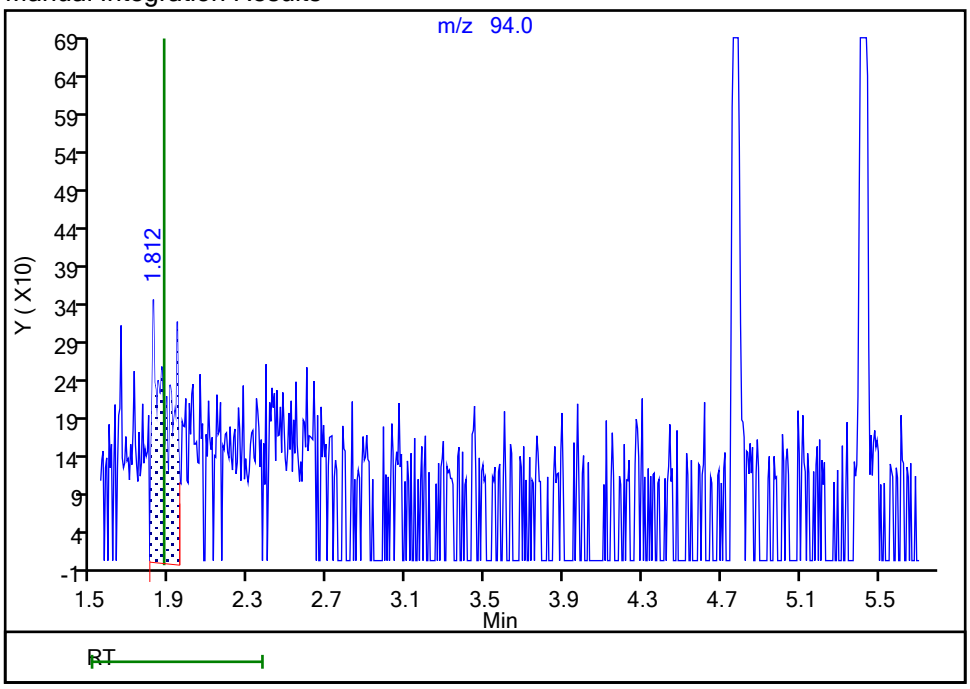
Processing Integration Results

RT: 5.42
Area: 4665
Amount: 2.807095
Amount Units: ug/l



Manual Integration Results

RT: 1.81
Area: 1854
Amount: 1.351011
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

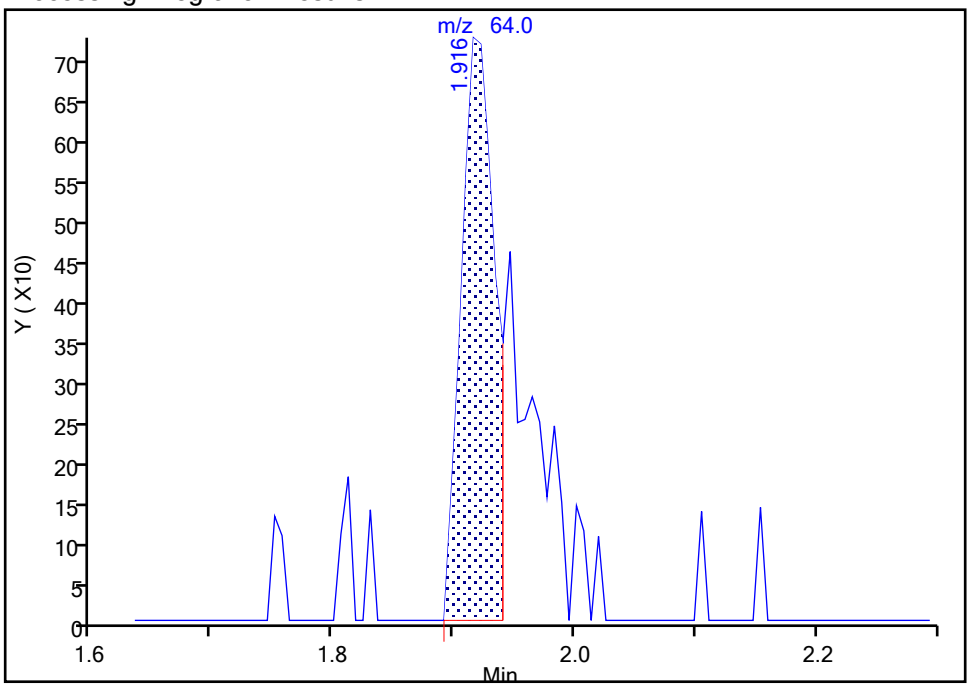
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

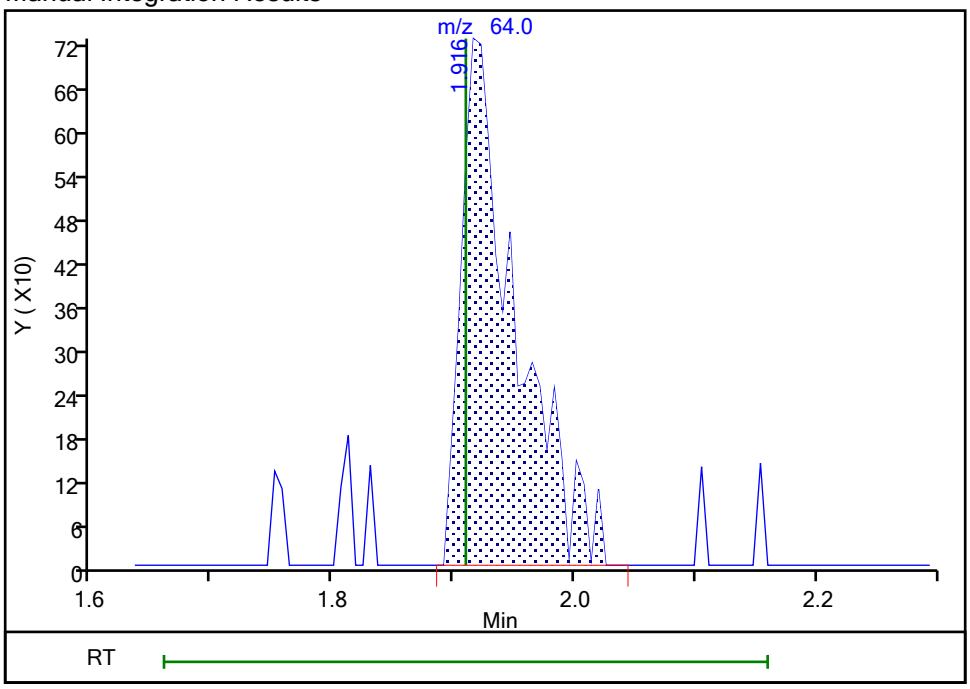
Processing Integration Results

RT: 1.92
Area: 1402
Amount: 0.718631
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 2269
Amount: 1.090954
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

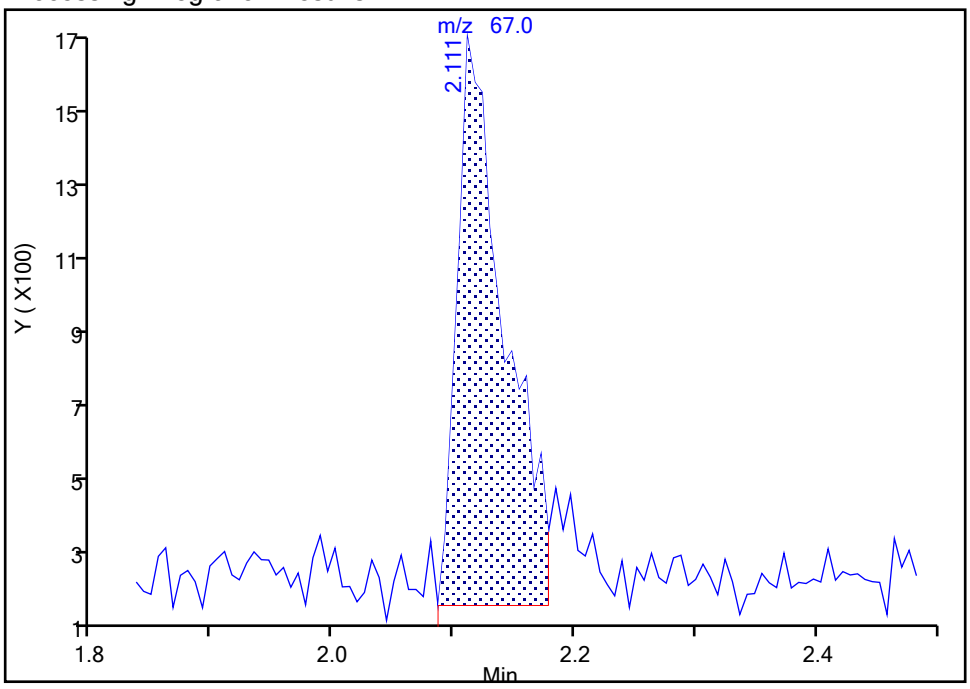
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D				
Injection Date:	02-Oct-2020 00:33:30	Instrument ID:	Calvin		
Lims ID:	std2				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	35	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

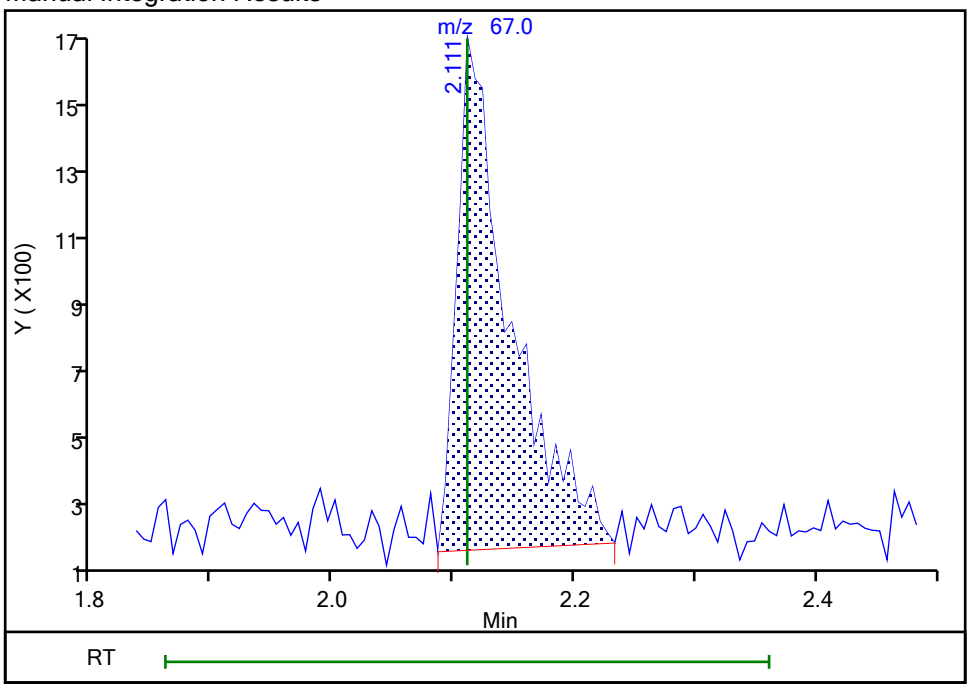
Processing Integration Results

RT: 2.11
Area: 4173
Amount: 0.916391
Amount Units: ug/l



Manual Integration Results

RT: 2.11
Area: 4589
Amount: 0.966676
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

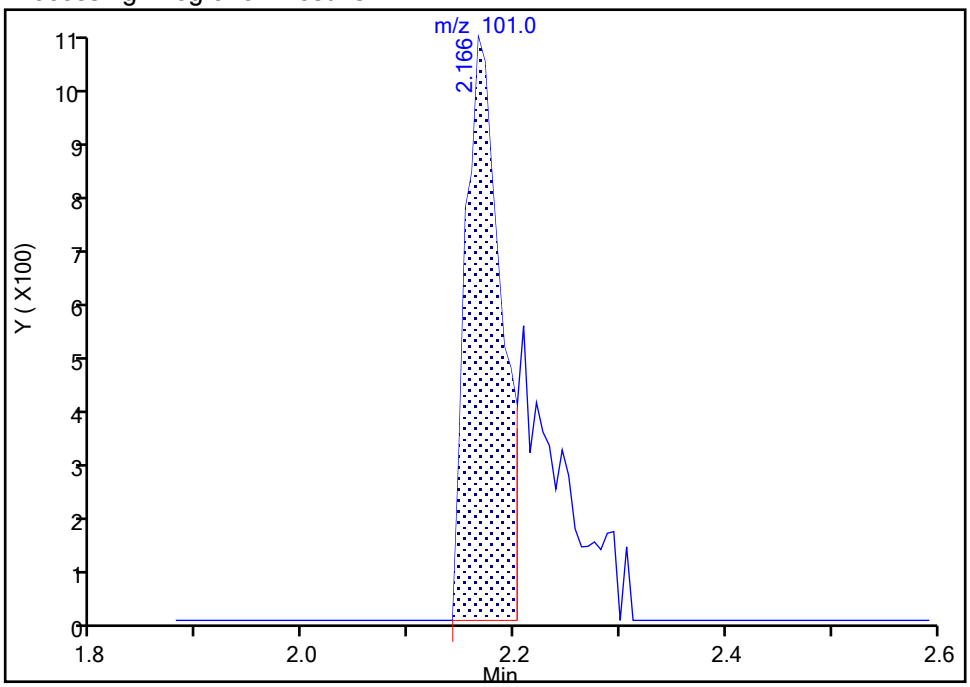
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

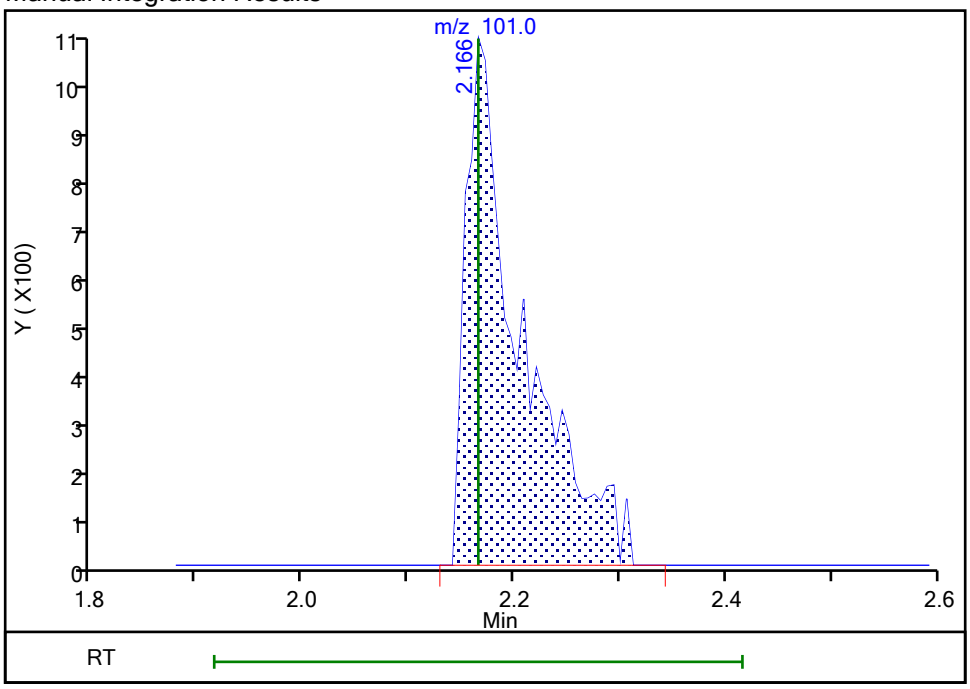
Processing Integration Results

RT: 2.17
Area: 2506
Amount: 0.616707
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 3936
Amount: 0.884105
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

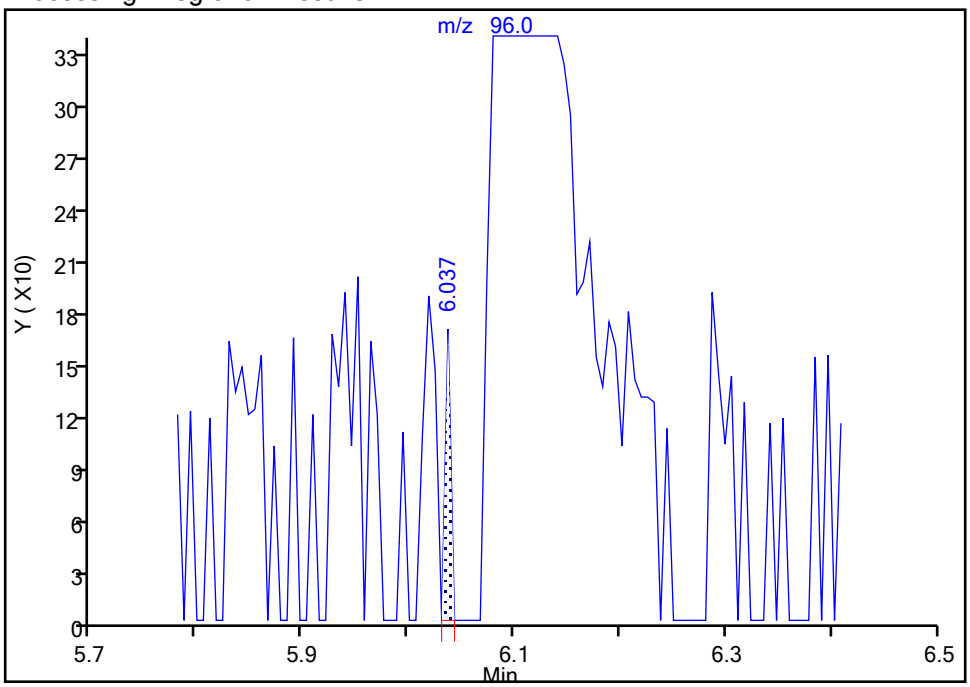
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5283.D
Injection Date: 02-Oct-2020 00:33:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 35 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

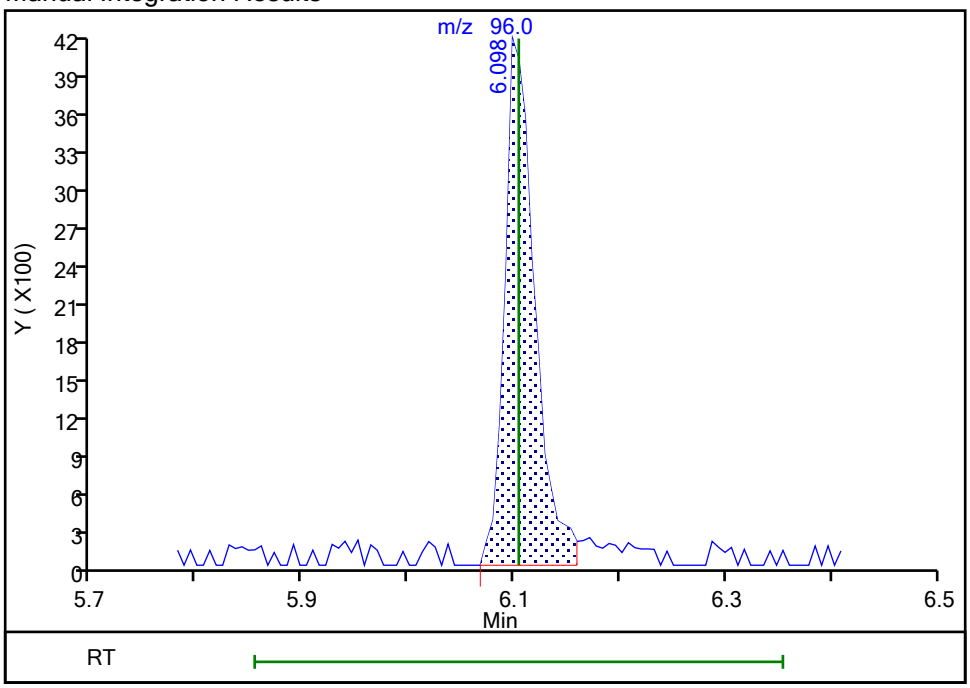
Processing Integration Results

RT: 6.04
Area: 61
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 8165
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:52:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 02-Oct-2020 00:57:30 ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:22 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:56:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	200249	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	95	8583	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	161977	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	80211	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	46536	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	198035	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	91	64581	50.0	49.6	
9 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	7901	2.00	2.38	M
11 Vinyl chloride	62	1.538	1.532	0.006	98	7020	2.00	2.03	M
10 Chloromethane	50	1.526	1.562	-0.036	96	4618	2.00	2.12	M
12 Butadiene	54	1.568	1.568	0.000	94	7773	2.00	2.21	M
13 Bromomethane	94	1.806	1.867	-0.061	25	2574	2.00	1.92	M
14 Chloroethane	64	1.916	1.910	0.006	95	4334	2.00	2.13	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	97	9359	2.00	2.02	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	97	8749	2.00	2.01	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

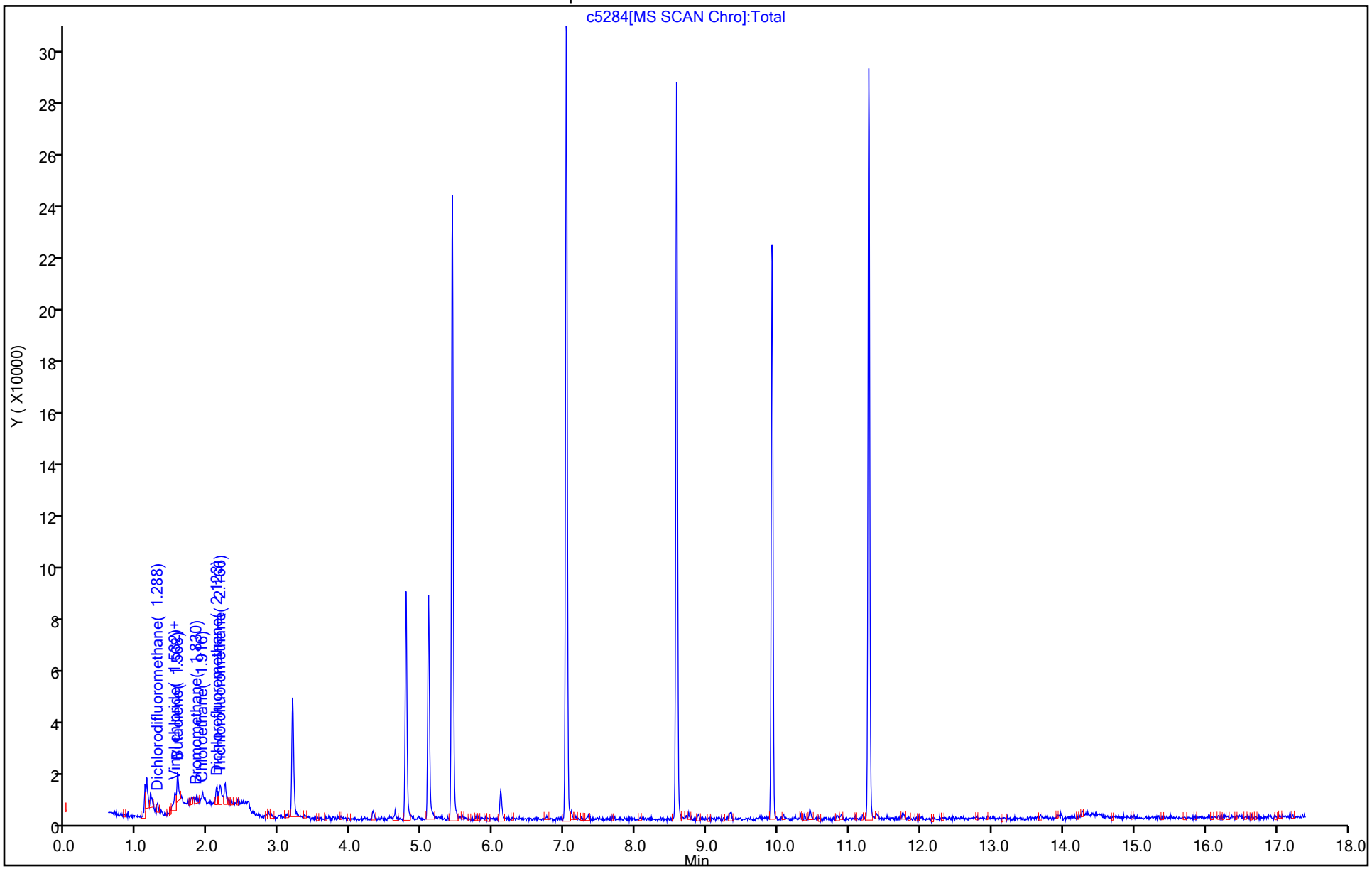
Reagents:

VV_I_GASES_00407 Amount Added: 2.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:23 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D				
Injection Date:	02-Oct-2020 00:57:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std3			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

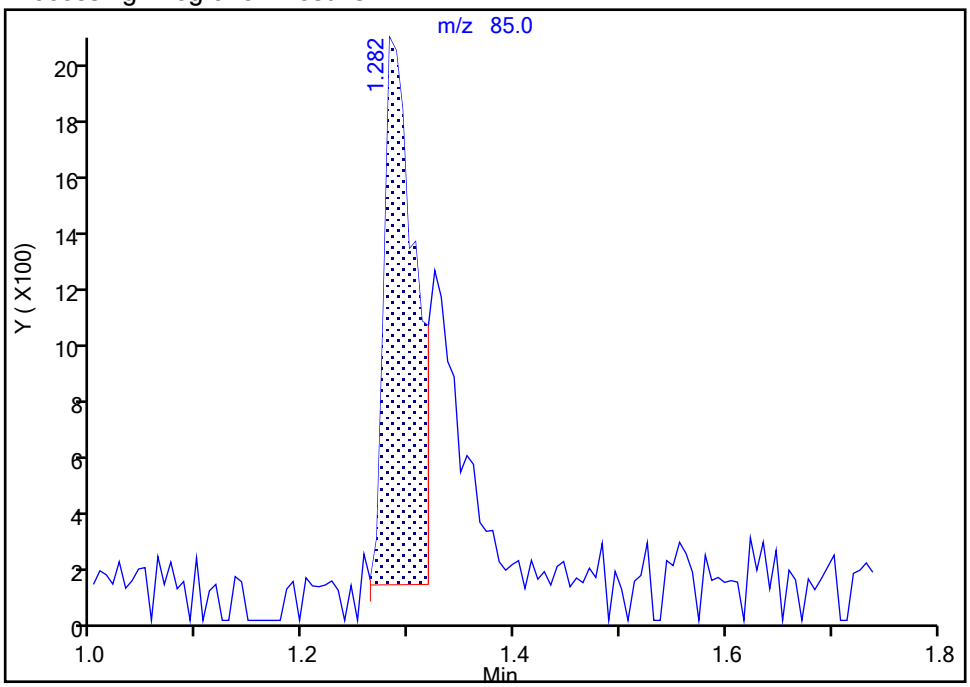
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D				
Injection Date:	02-Oct-2020 00:57:30	Instrument ID:	Calvin		
Lims ID:	std3				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	36	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

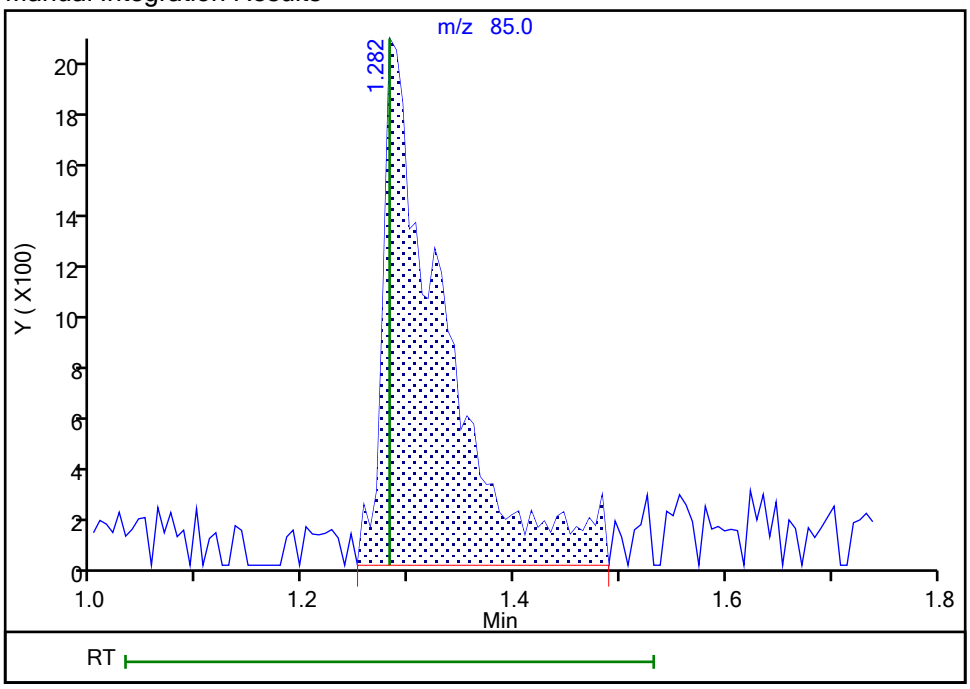
Processing Integration Results

RT: 1.28
Area: 3884
Amount: 1.172863
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 7901
Amount: 2.381039
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

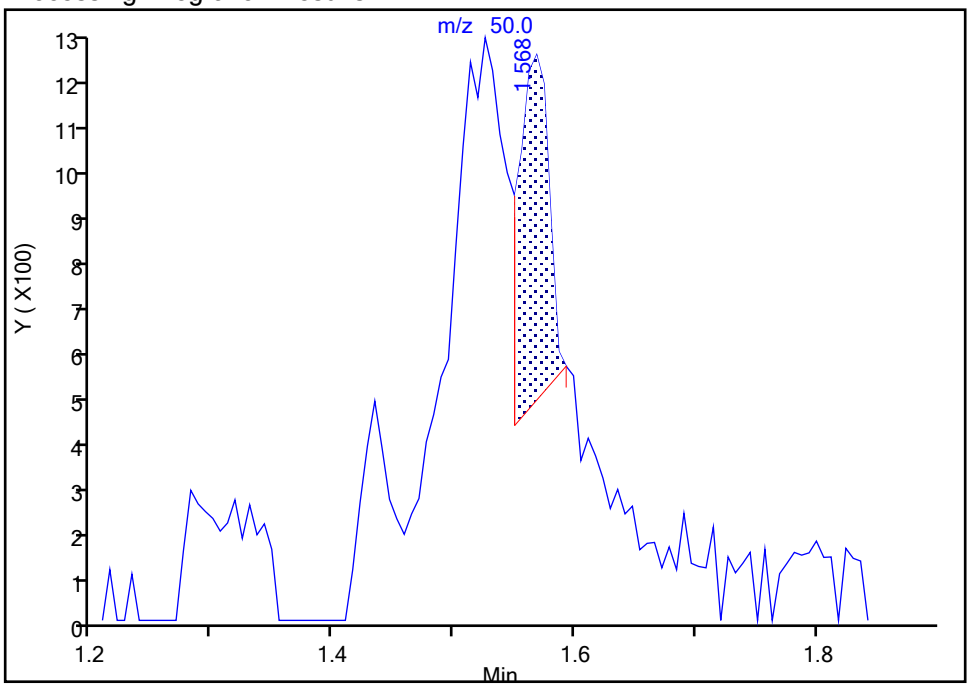
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

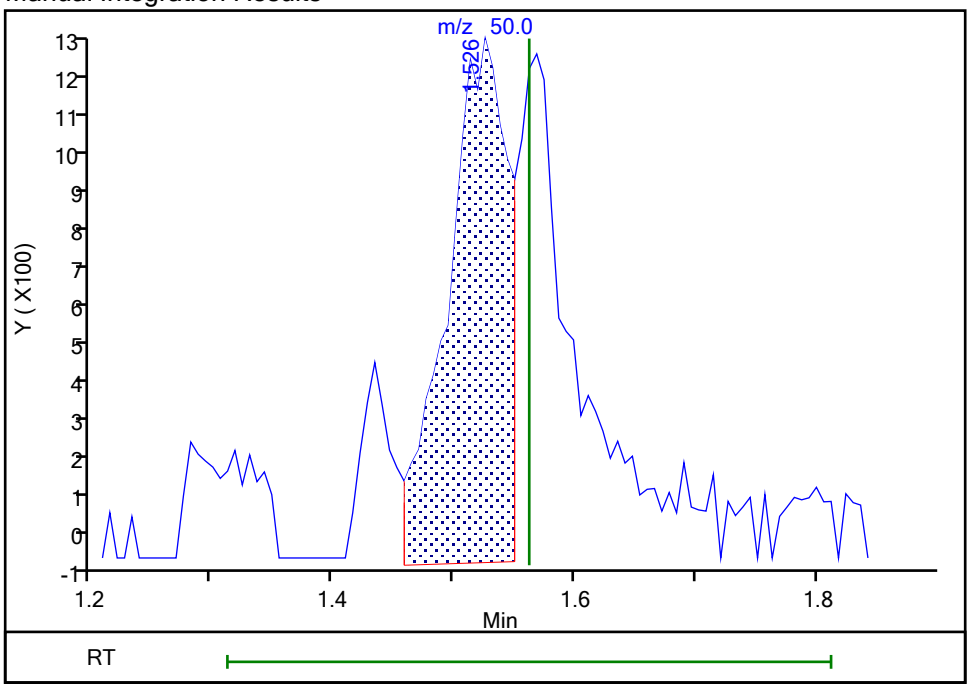
Processing Integration Results

RT: 1.57
Area: 1345
Amount: 0.681269
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 4618
Amount: 2.121085
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

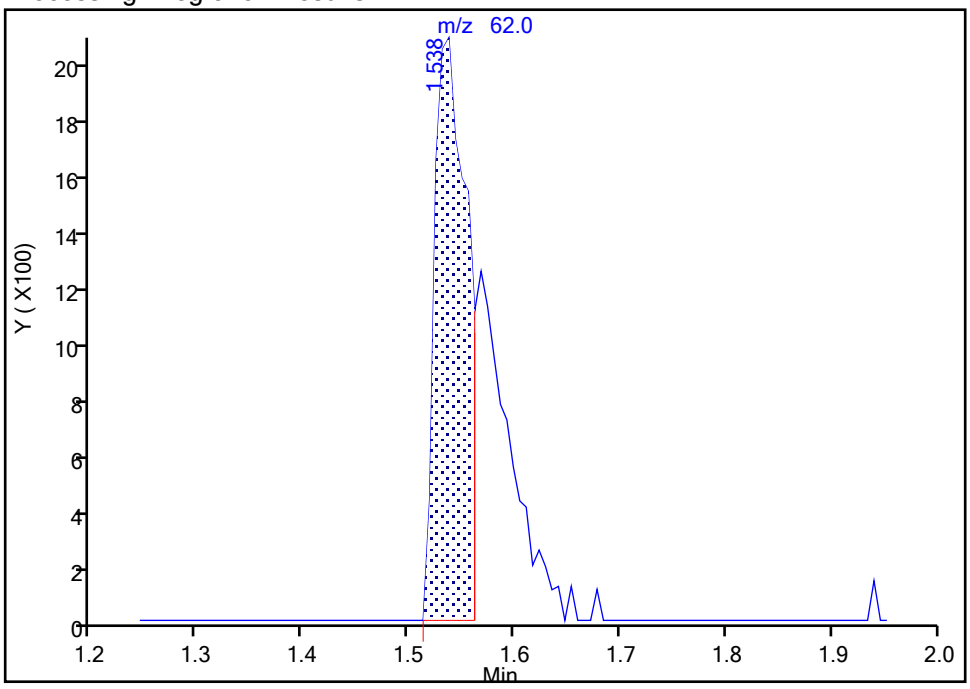
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

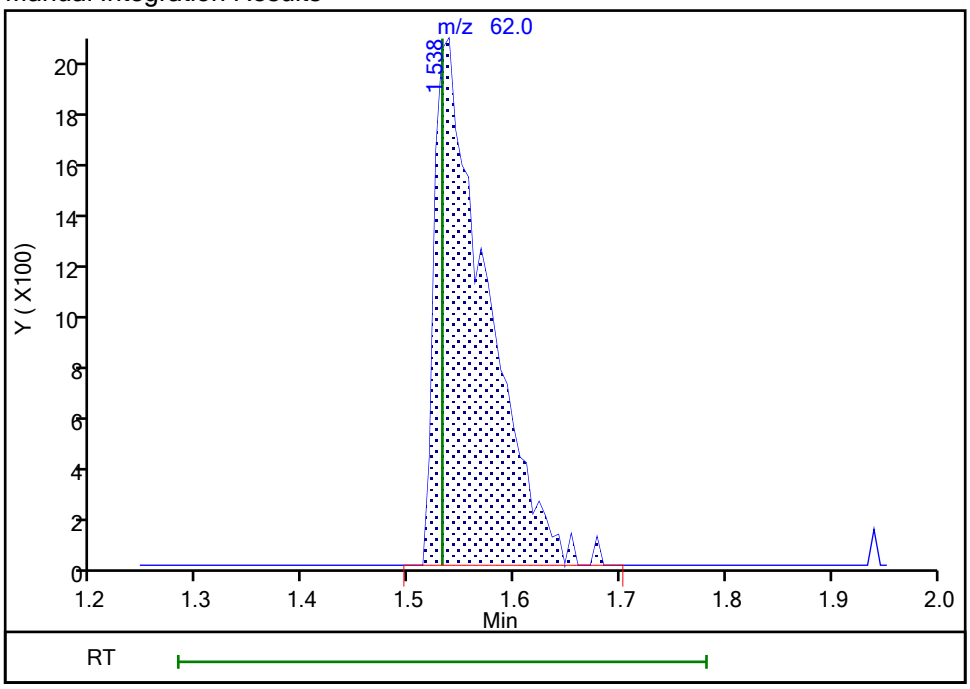
Processing Integration Results

RT: 1.54
Area: 4387
Amount: 1.316233
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 7020
Amount: 2.034181
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

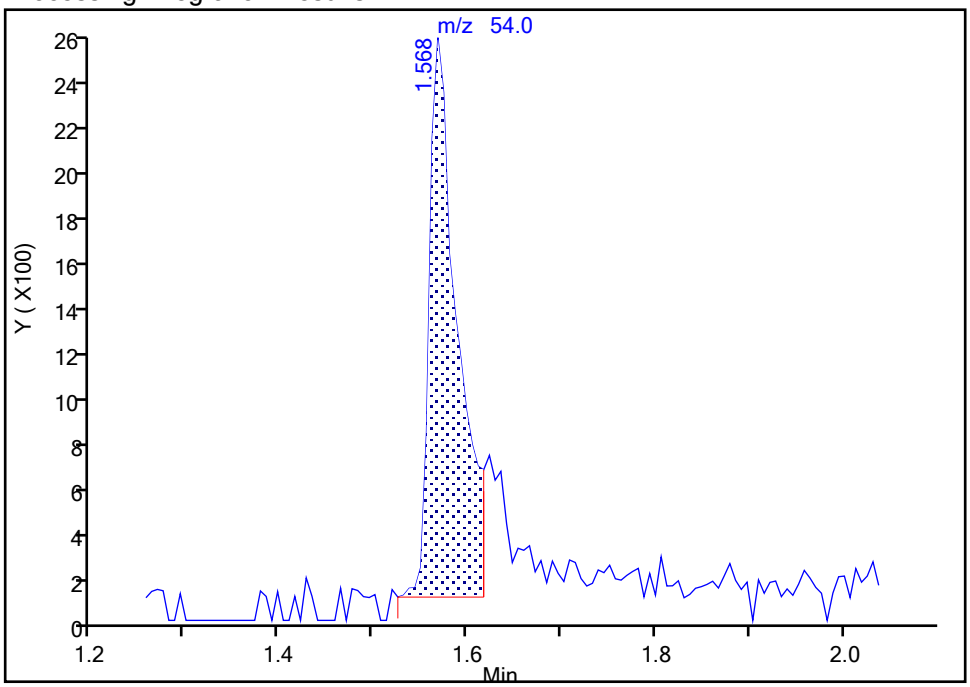
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

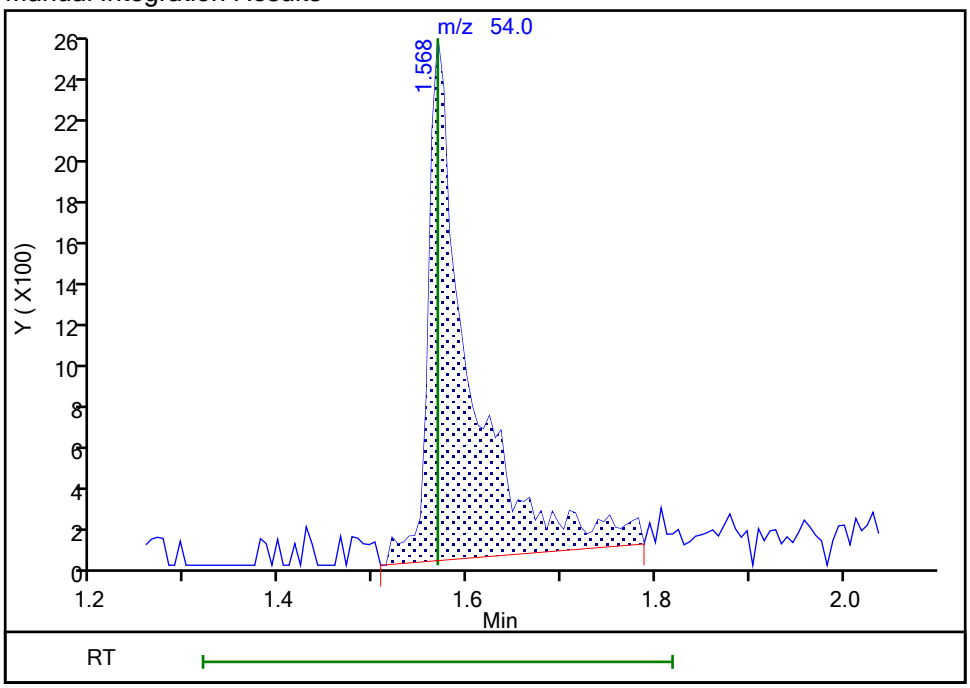
Processing Integration Results

RT: 1.57
Area: 5178
Amount: 1.455774
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 7773
Amount: 2.211591
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

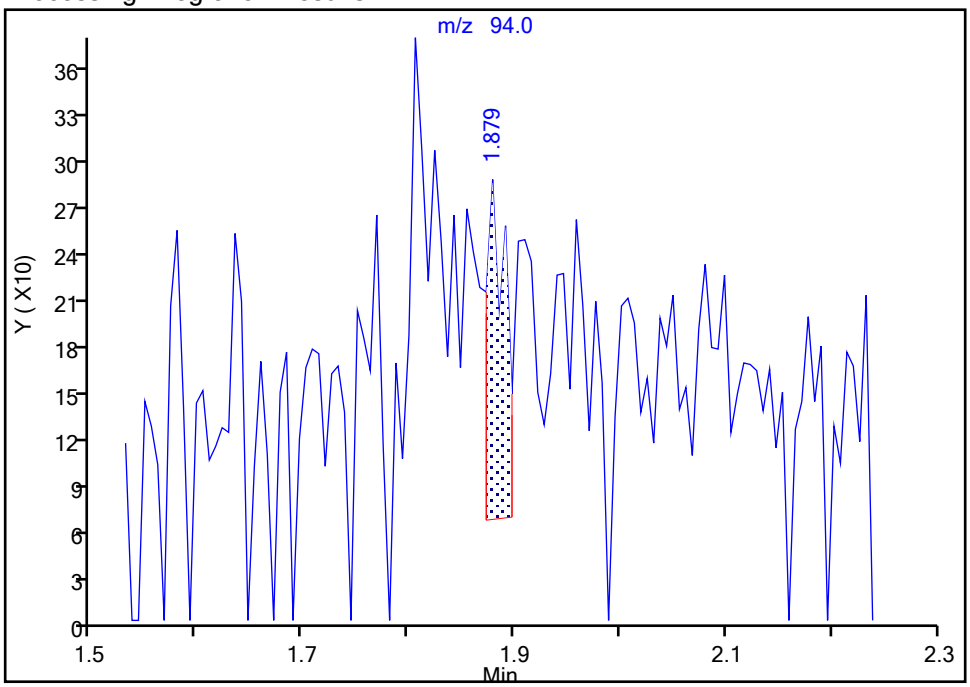
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

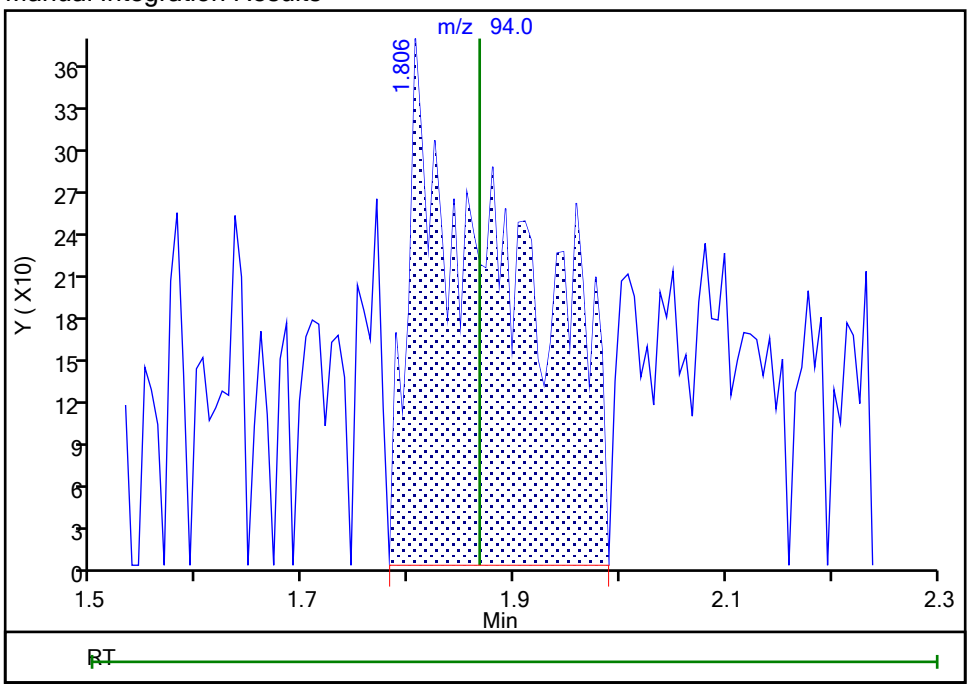
Processing Integration Results

RT: 1.88
Area: 281
Amount: 0.201609
Amount Units: ug/l



Manual Integration Results

RT: 1.81
Area: 2574
Amount: 1.921198
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

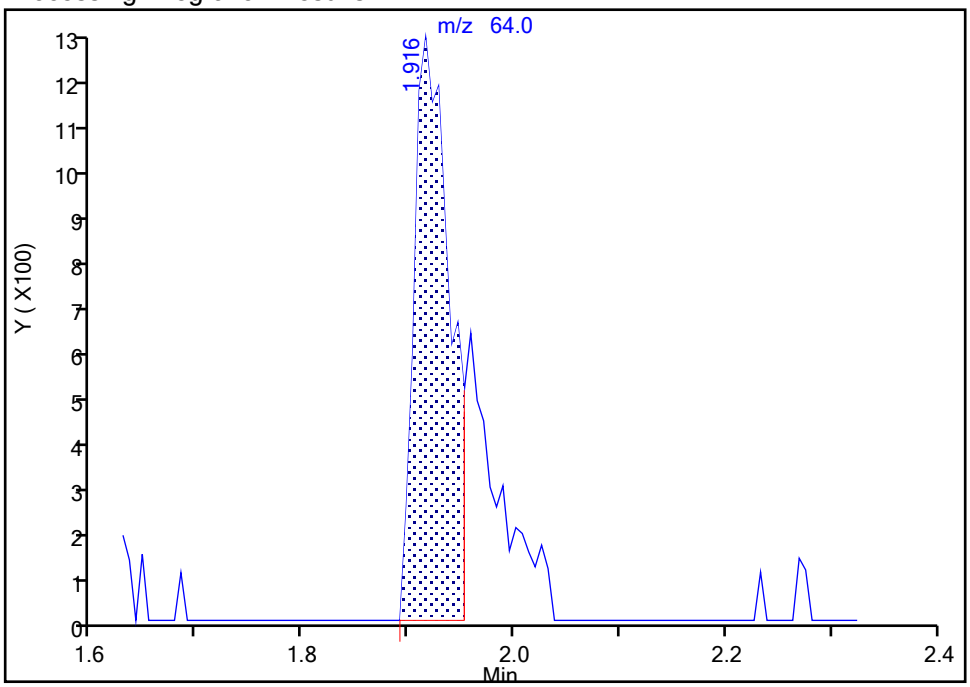
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

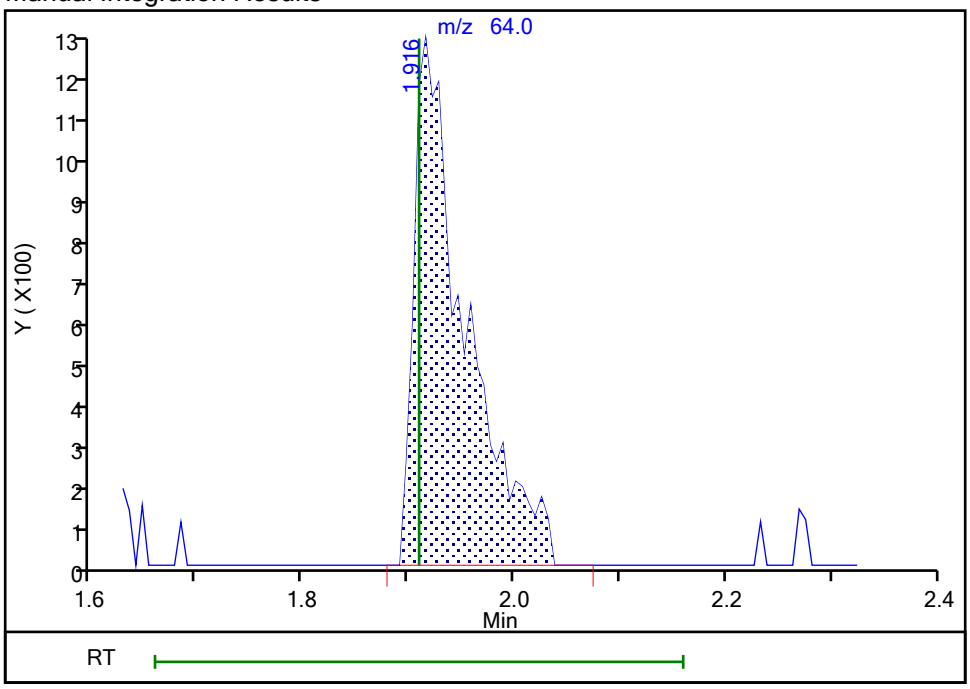
Processing Integration Results

RT: 1.92
Area: 3044
Amount: 1.541076
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 4334
Amount: 2.134397
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

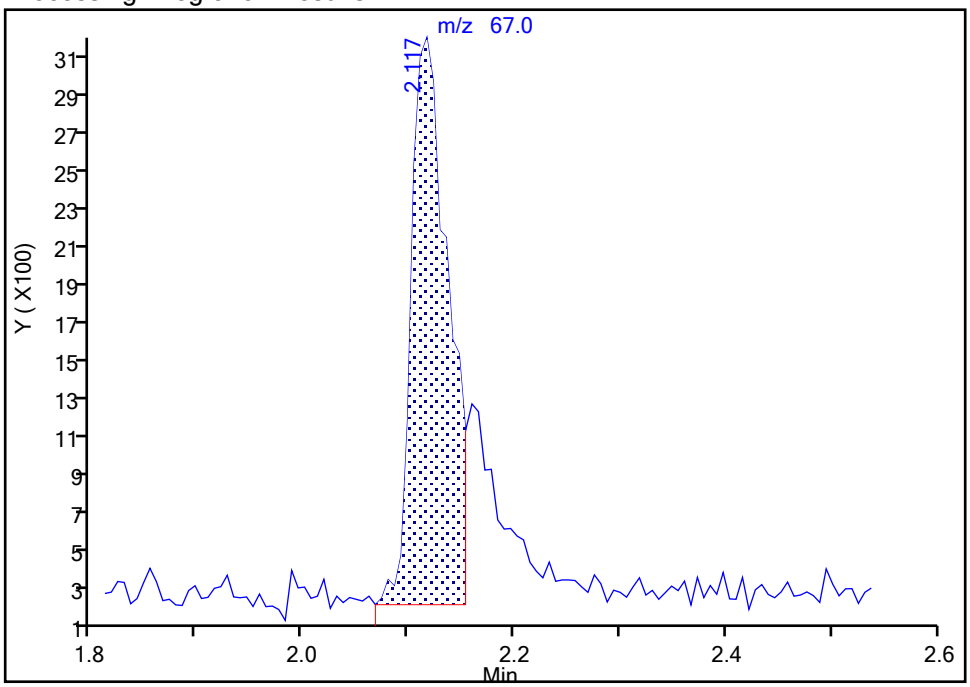
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D				
Injection Date:	02-Oct-2020 00:57:30	Instrument ID:	Calvin		
Lims ID:	std3				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	36	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

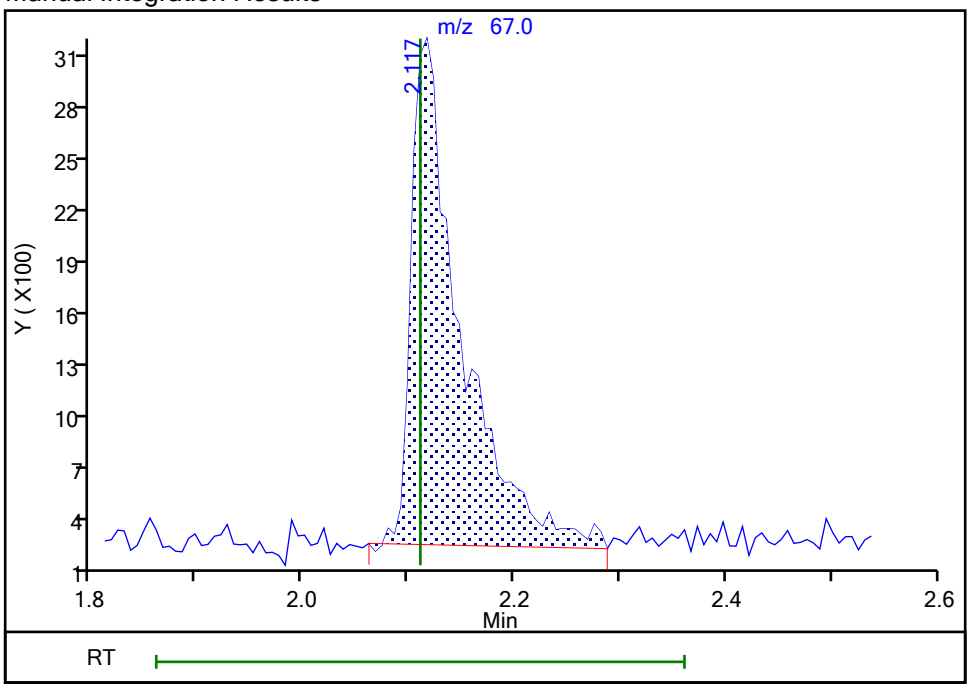
Processing Integration Results

RT: 2.12
Area: 7174
Amount: 1.601454
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 9359
Amount: 2.019326
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:56:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

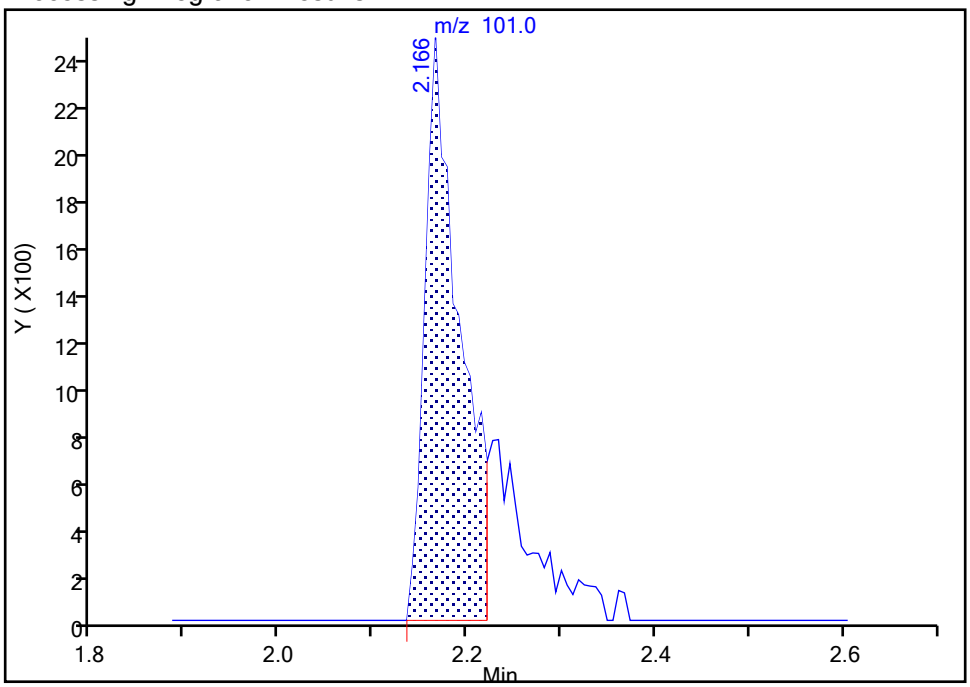
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5284.D
Injection Date: 02-Oct-2020 00:57:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 36 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

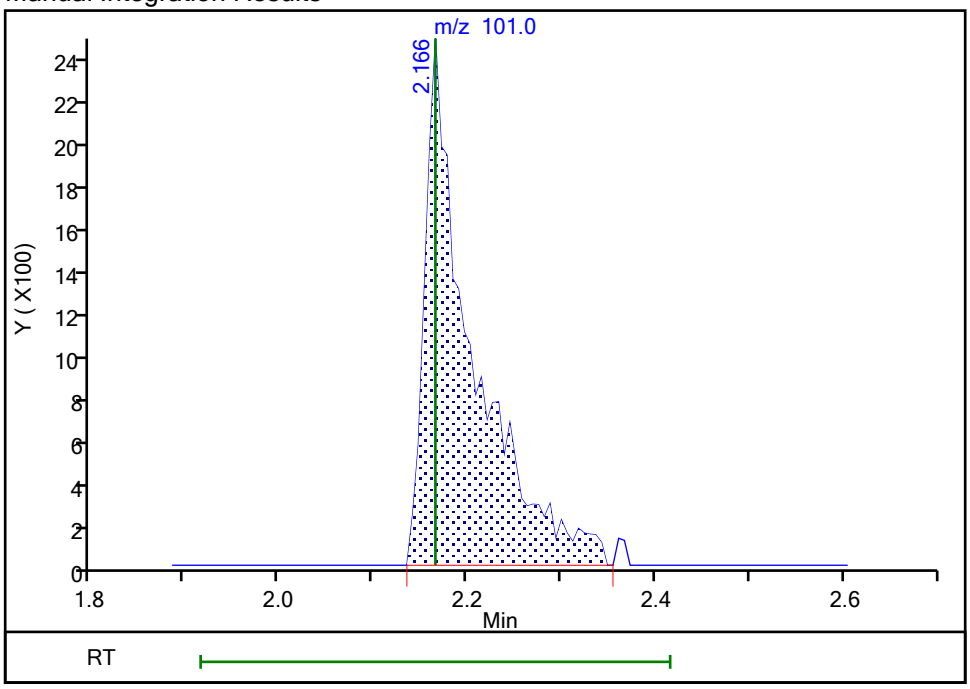
Processing Integration Results

RT: 2.17
Area: 6469
Amount: 1.584151
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 8749
Amount: 2.012896
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:55:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 02-Oct-2020 01:21:30 ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:25 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:58:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	182081	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	95	7065	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	146128	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	72007	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	41844	50.0	49.7	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	176531	50.0	48.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	92	58668	50.0	50.2	
9 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	10694	4.00	3.54	M
11 Vinyl chloride	62	1.532	1.532	0.000	98	11741	4.00	3.74	M
10 Chloromethane	50	1.526	1.562	-0.036	95	6667	4.00	3.37	M
12 Butadiene	54	1.568	1.568	0.000	92	10188	4.00	3.19	M
13 Bromomethane	94	1.824	1.867	-0.043	25	4156	4.00	3.41	M
14 Chloroethane	64	1.916	1.910	0.006	98	7484	4.00	4.05	M
15 Dichlorofluoromethane	67	2.111	2.111	0.000	97	15360	4.00	3.64	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	97	13797	4.00	3.49	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

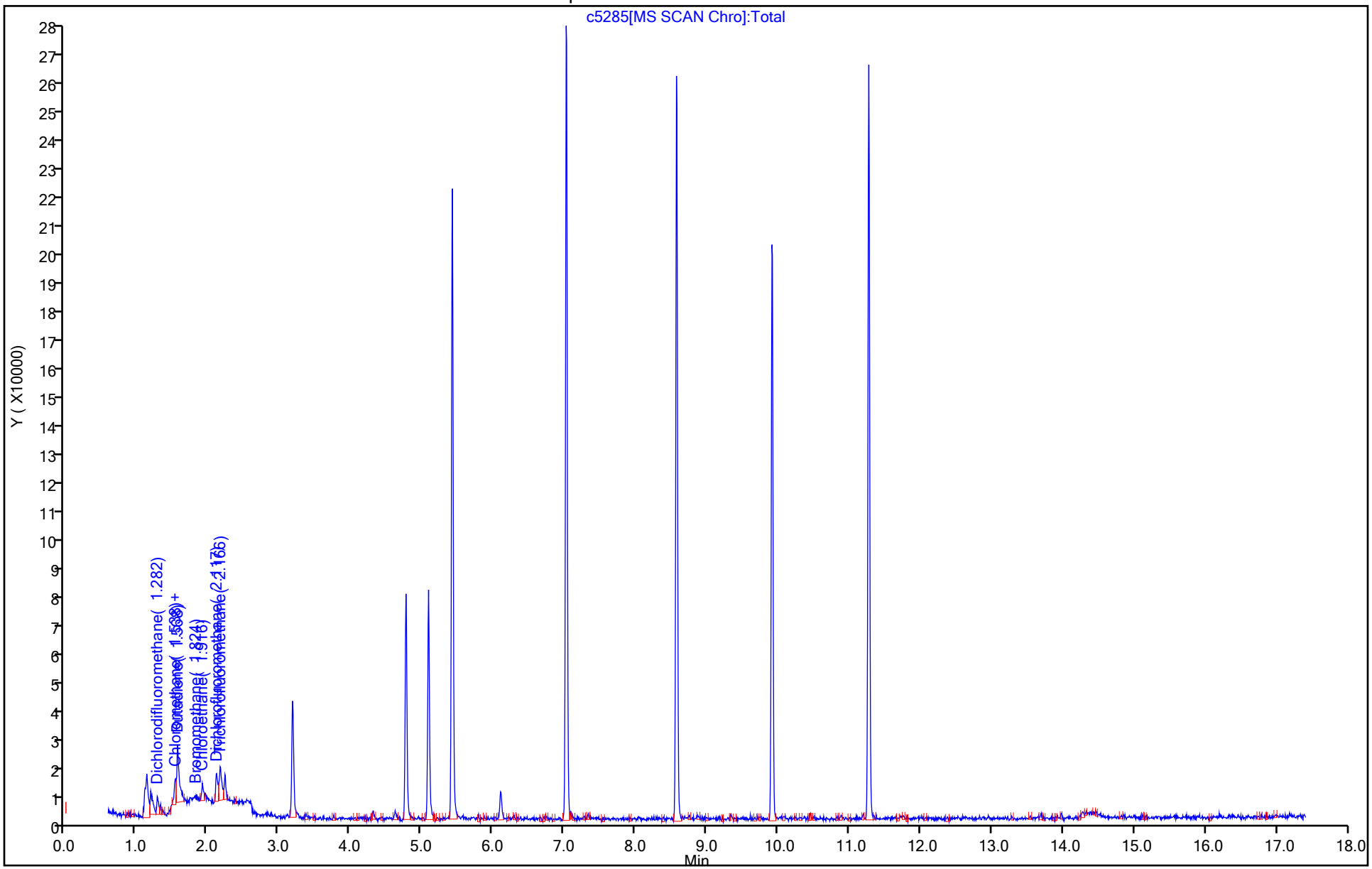
VV_I_GASES_00407 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D

Injection Date:	02-Oct-2020 01:21:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std4			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

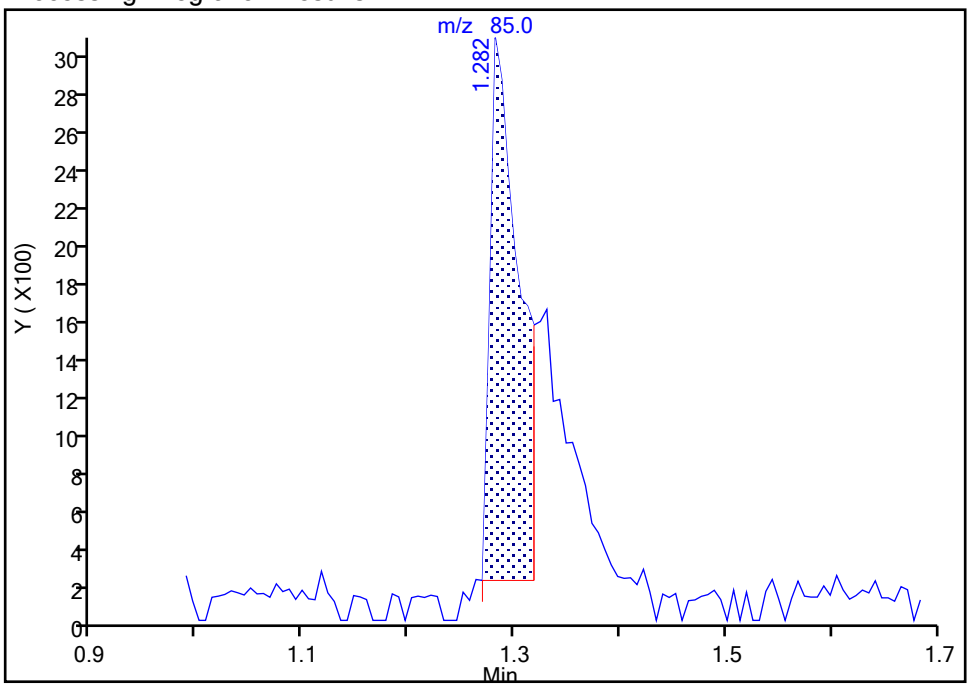
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

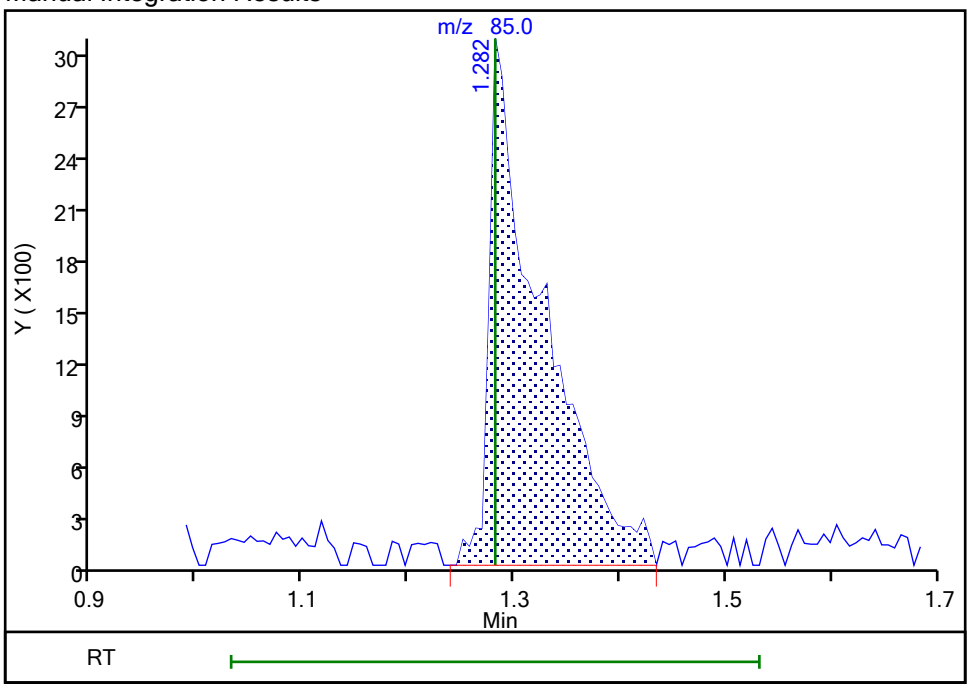
Processing Integration Results

RT: 1.28
Area: 5475
Amount: 1.730789
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 10694
Amount: 3.544298
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

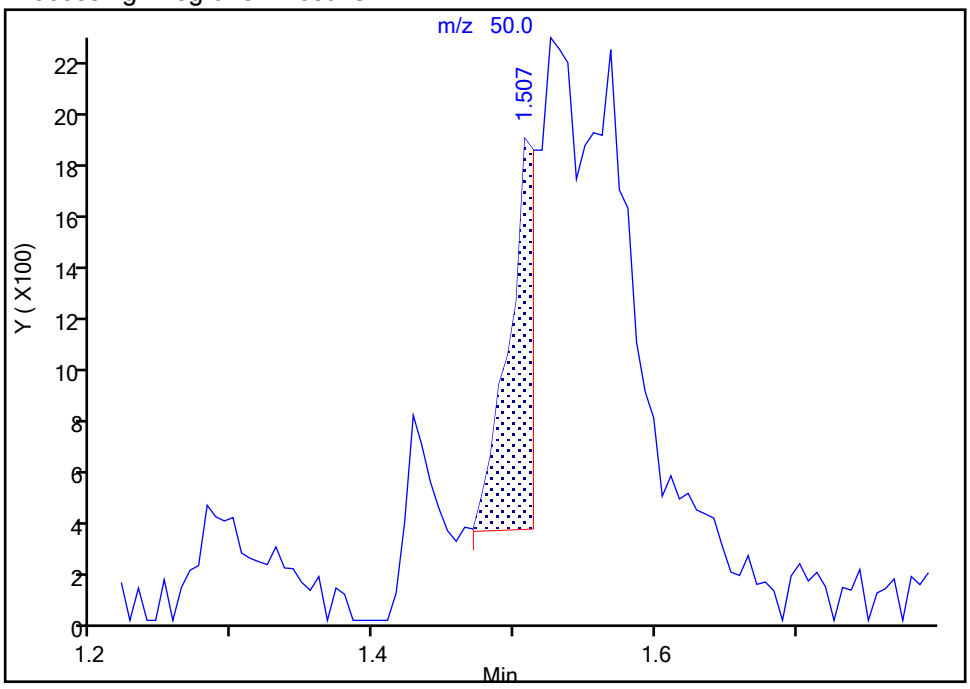
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

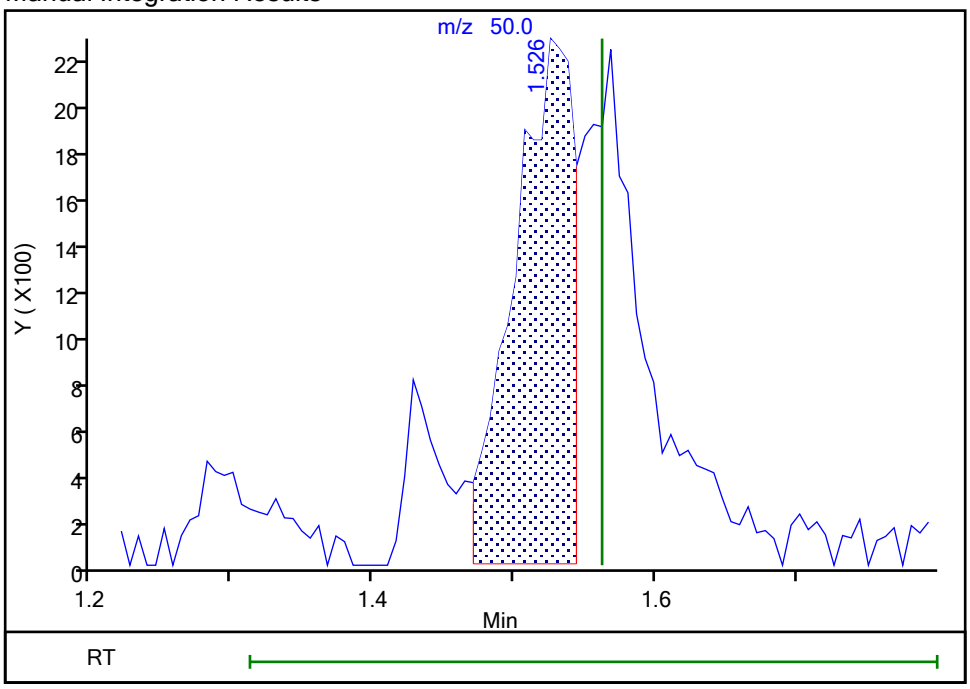
Processing Integration Results

RT: 1.51
Area: 2007
Amount: 1.045781
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 6667
Amount: 3.367754
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

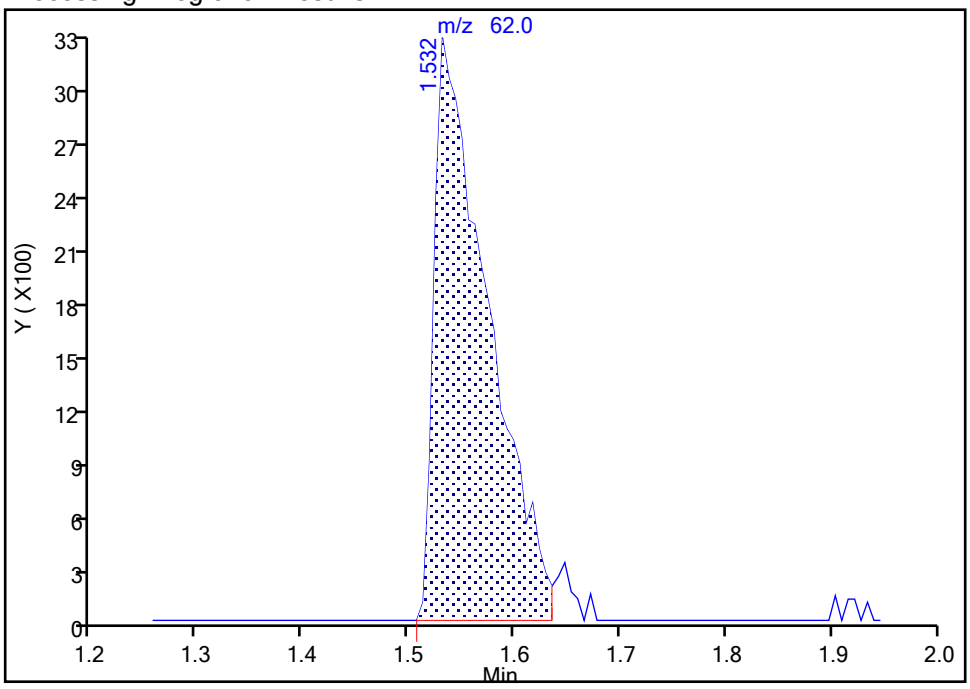
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

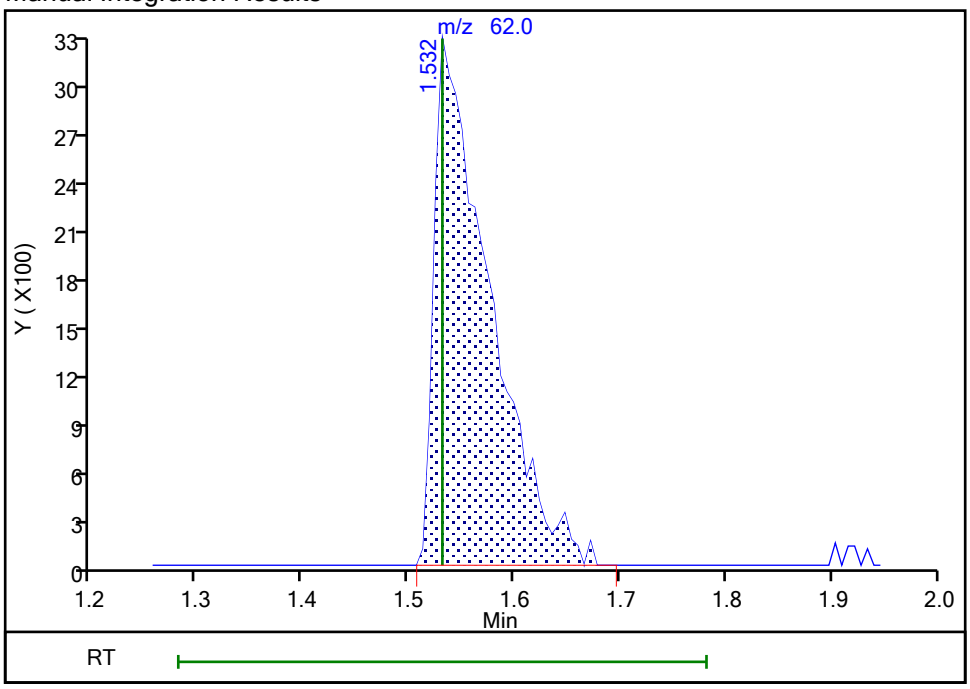
Processing Integration Results

RT: 1.53
Area: 11378
Amount: 3.634729
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 11741
Amount: 3.741650
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:26
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

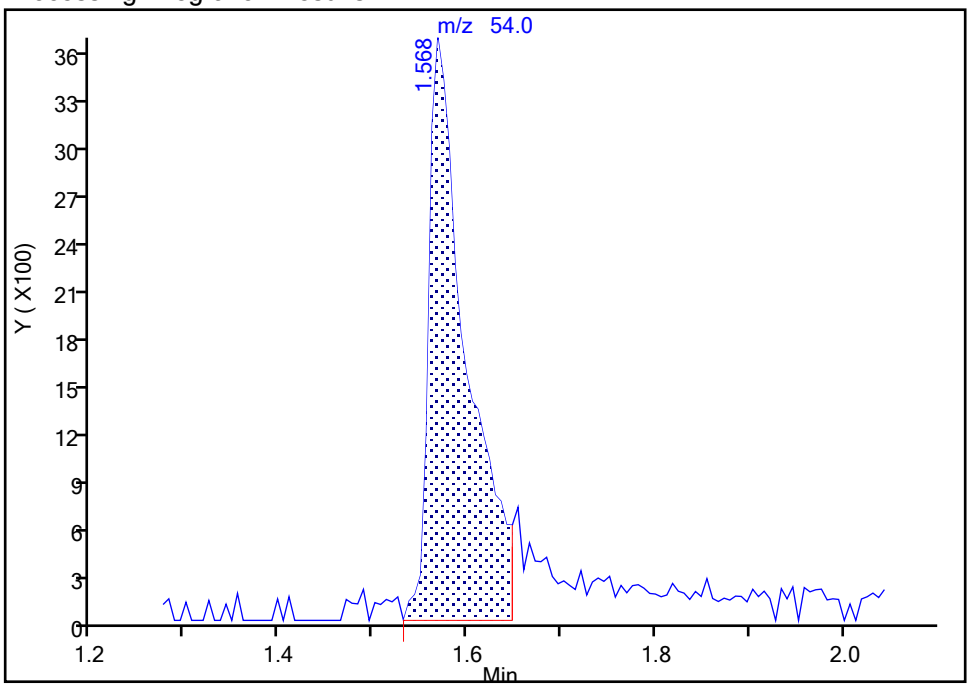
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

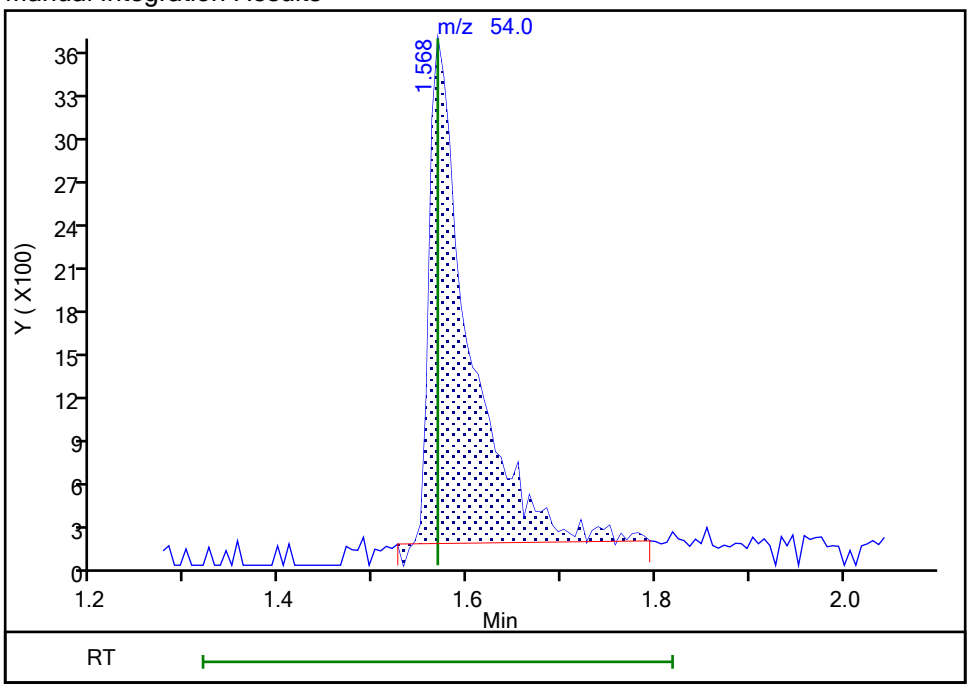
Processing Integration Results

RT: 1.57
Area: 10301
Amount: 3.092167
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 10188
Amount: 3.187945
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

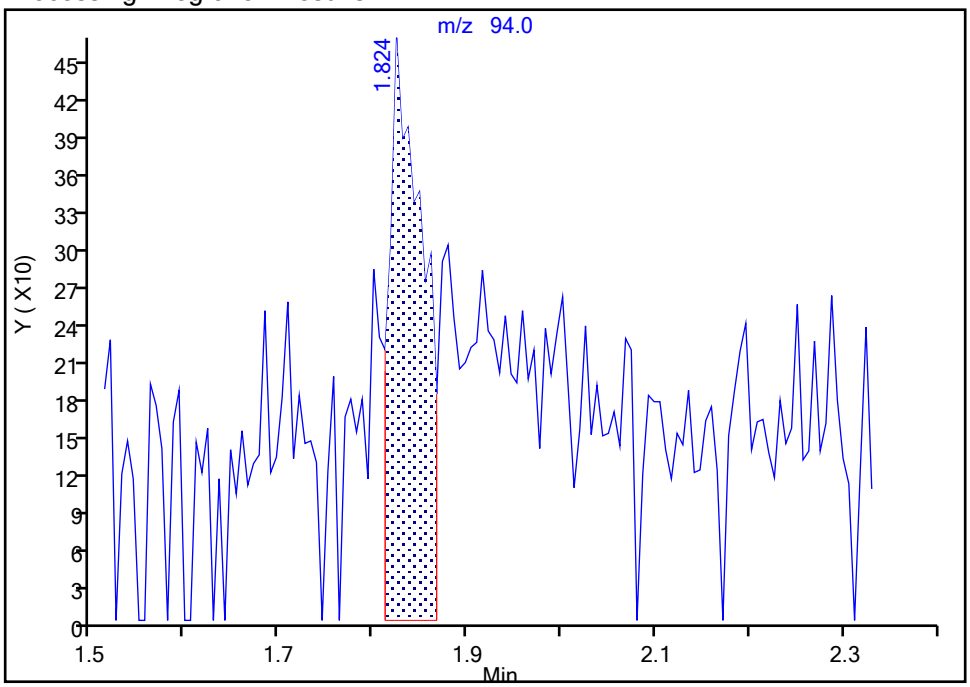
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

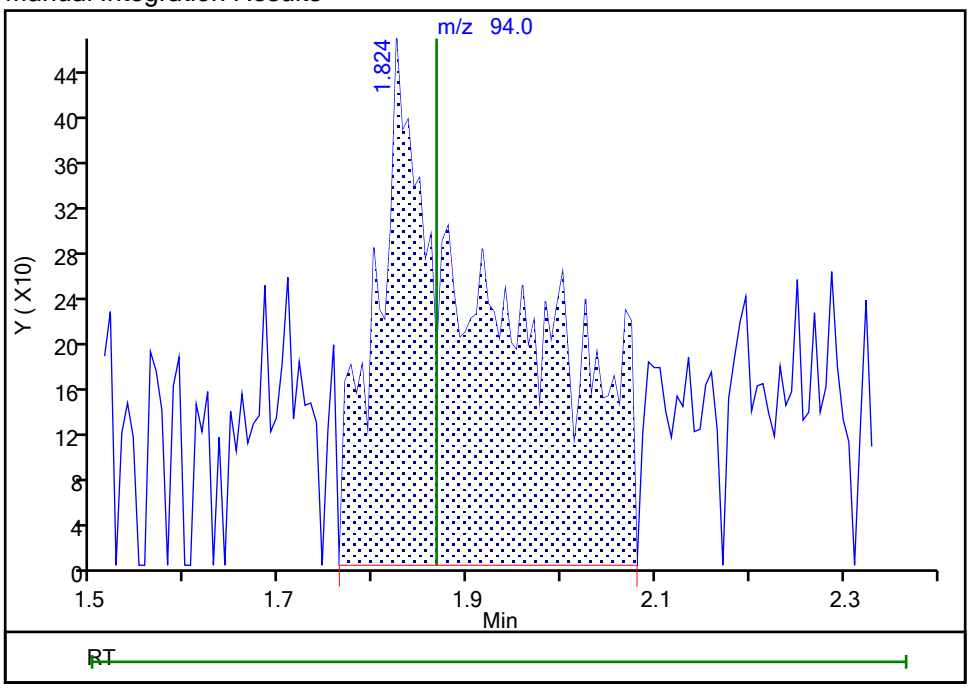
Processing Integration Results

RT: 1.82
Area: 1151
Amount: 0.849946
Amount Units: ug/l



Manual Integration Results

RT: 1.82
Area: 4156
Amount: 3.411496
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

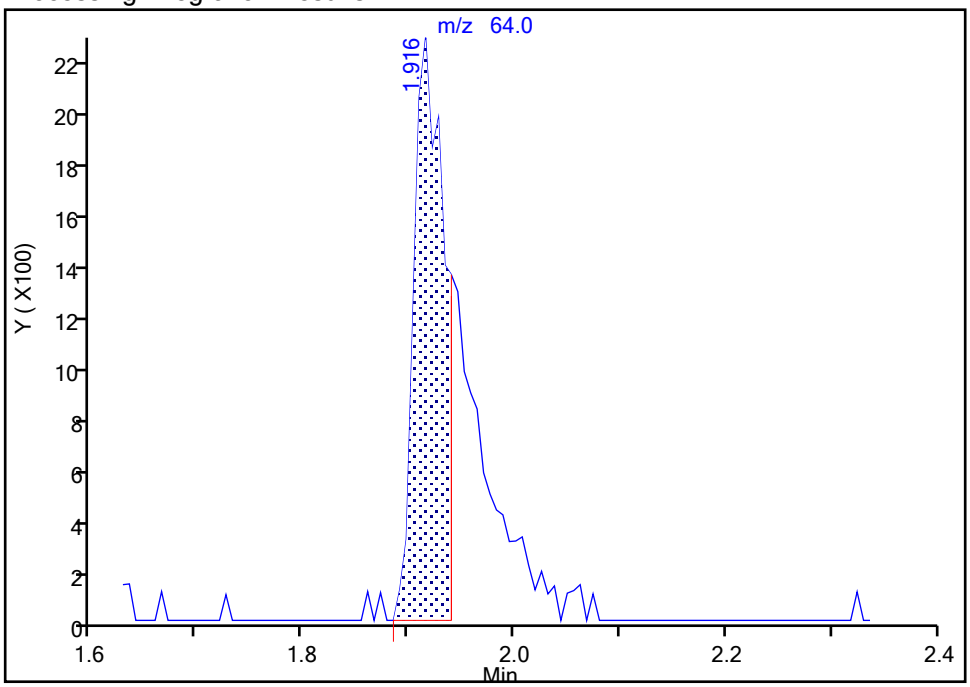
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

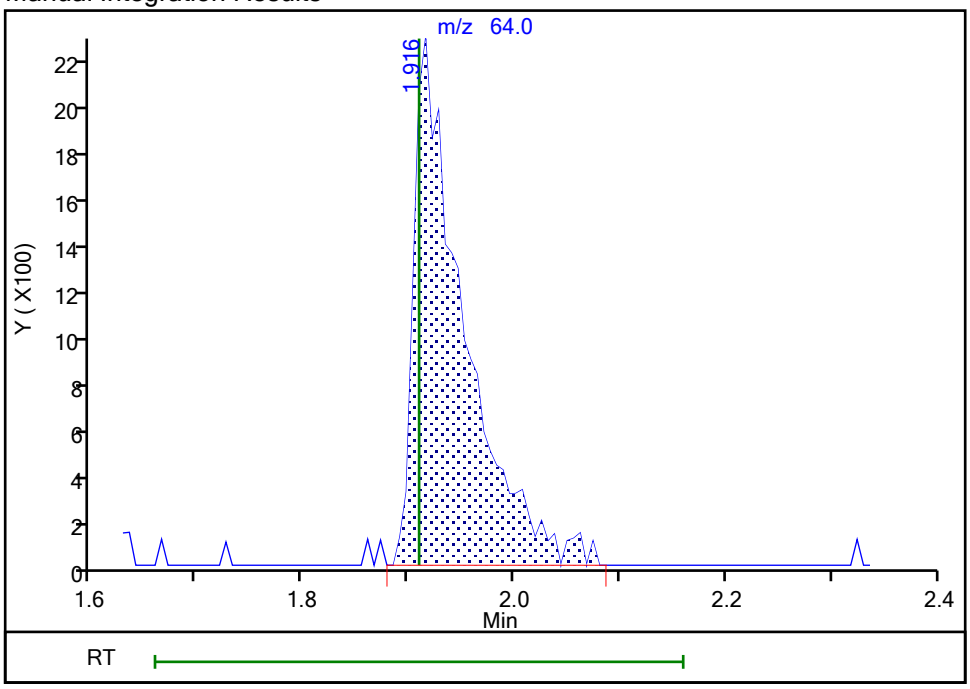
Processing Integration Results

RT: 1.92
Area: 4546
Amount: 2.464079
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 7484
Amount: 4.053460
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

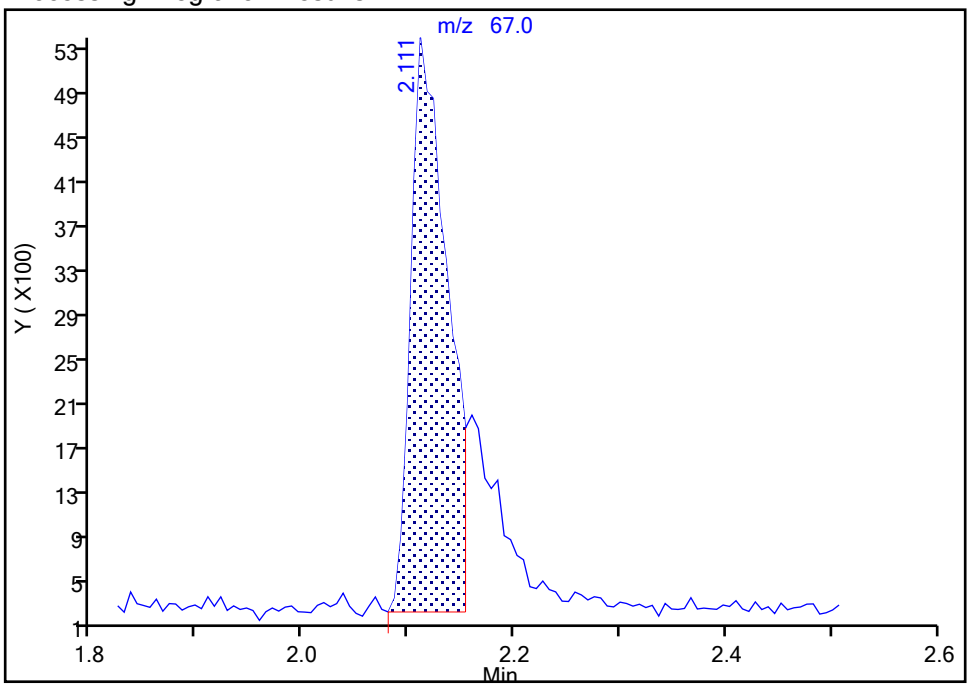
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D
Injection Date: 02-Oct-2020 01:21:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 37 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

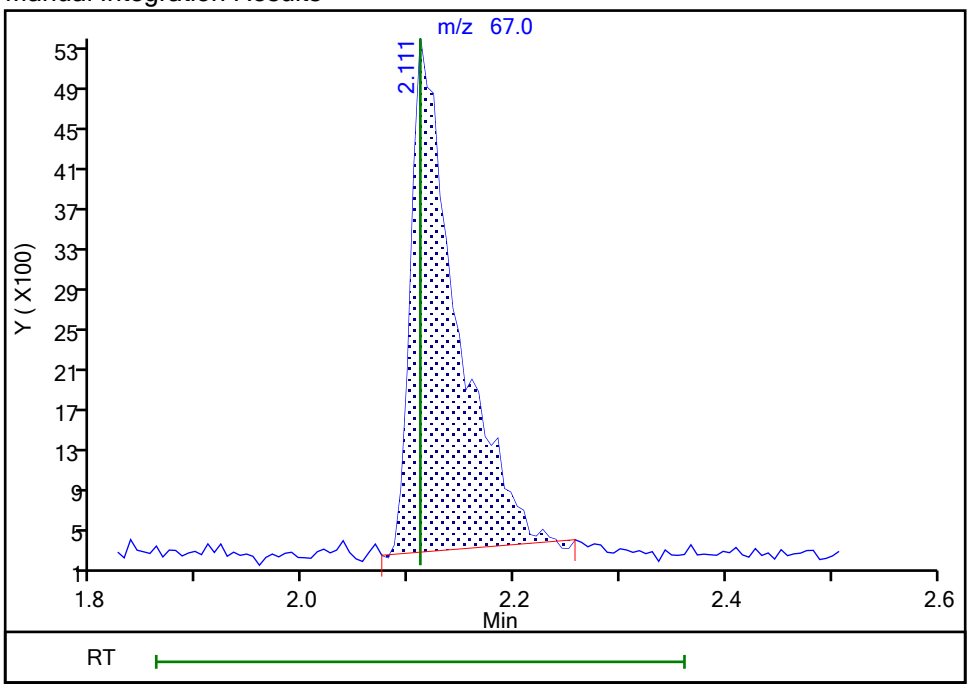
Processing Integration Results

RT: 2.11
Area: 12567
Amount: 3.023797
Amount Units: ug/l



Manual Integration Results

RT: 2.11
Area: 15360
Amount: 3.644802
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

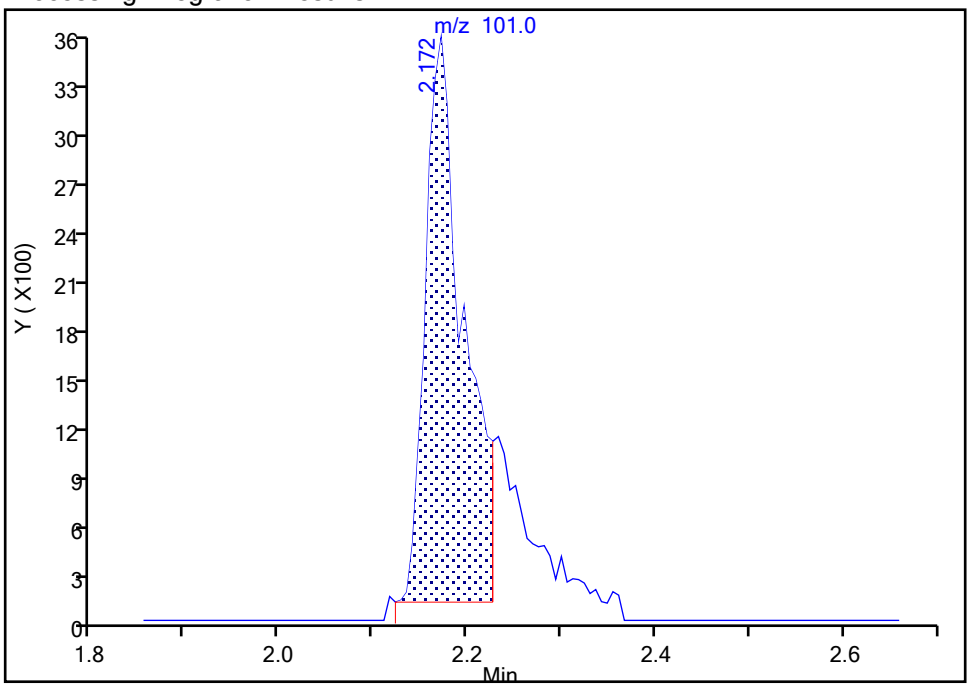
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5285.D				
Injection Date:	02-Oct-2020 01:21:30	Instrument ID:	Calvin		
Lims ID:	std4				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	37	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

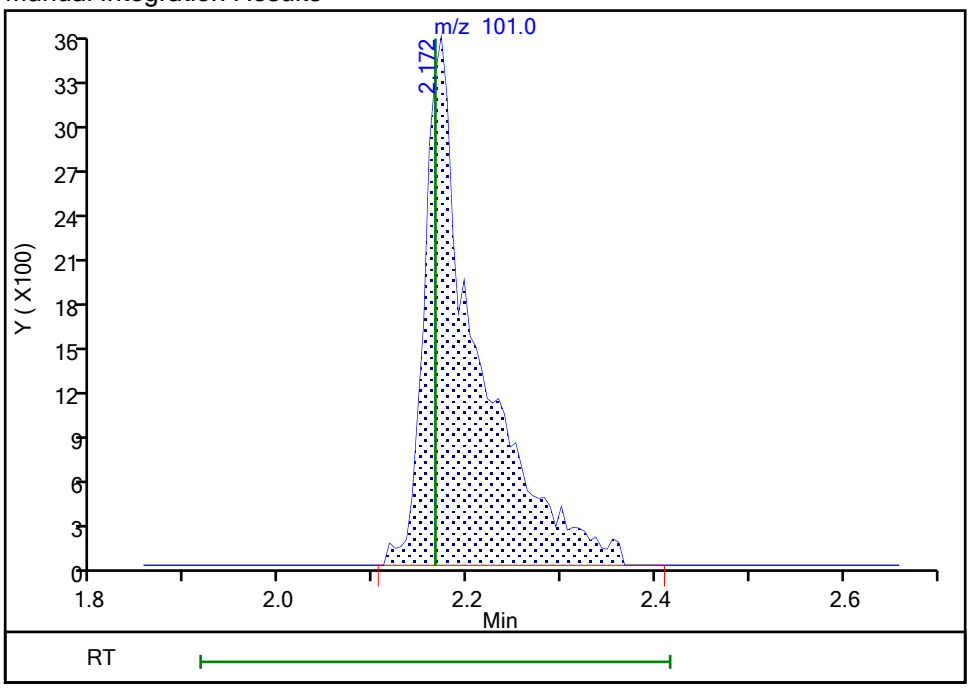
Processing Integration Results

RT: 2.17
Area: 9696
Amount: 2.551937
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 13797
Amount: 3.491028
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:57:56
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5286.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 02-Oct-2020 01:45:30 ALS Bottle#: 38 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:28 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:58:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	197919	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	97	7779	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	159719	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	77095	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	46257	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	197431	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	93	62521	50.0	50.0	
9 Dichlorodifluoromethane	85	1.288	1.282	0.006	99	62980	20.0	19.2	
11 Vinyl chloride	62	1.538	1.532	0.006	100	64572	20.0	18.9	
10 Chloromethane	50	1.532	1.562	-0.030	97	35872	20.0	16.7	
12 Butadiene	54	1.568	1.568	0.000	90	65231	20.0	18.8	
13 Bromomethane	94	1.861	1.867	-0.006	90	23954	20.0	18.1	M
14 Chloroethane	64	1.916	1.910	0.006	99	37099	20.0	18.5	
15 Dichlorofluoromethane	67	2.117	2.111	0.006	97	87599	20.0	19.1	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	79672	20.0	18.5	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

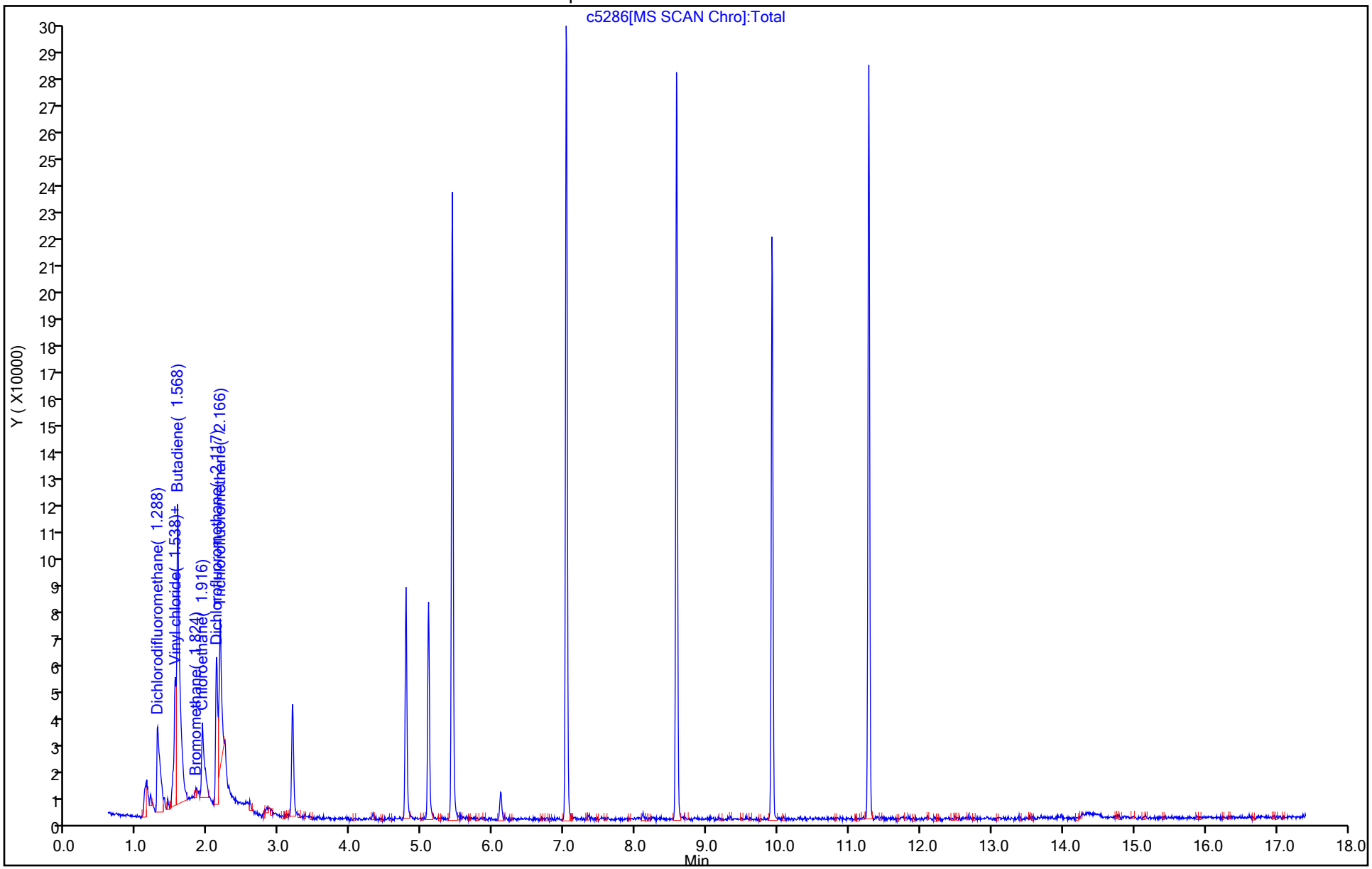
VV_I_GASES_00407 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:29 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5286.D

Injection Date:	02-Oct-2020 01:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std5			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

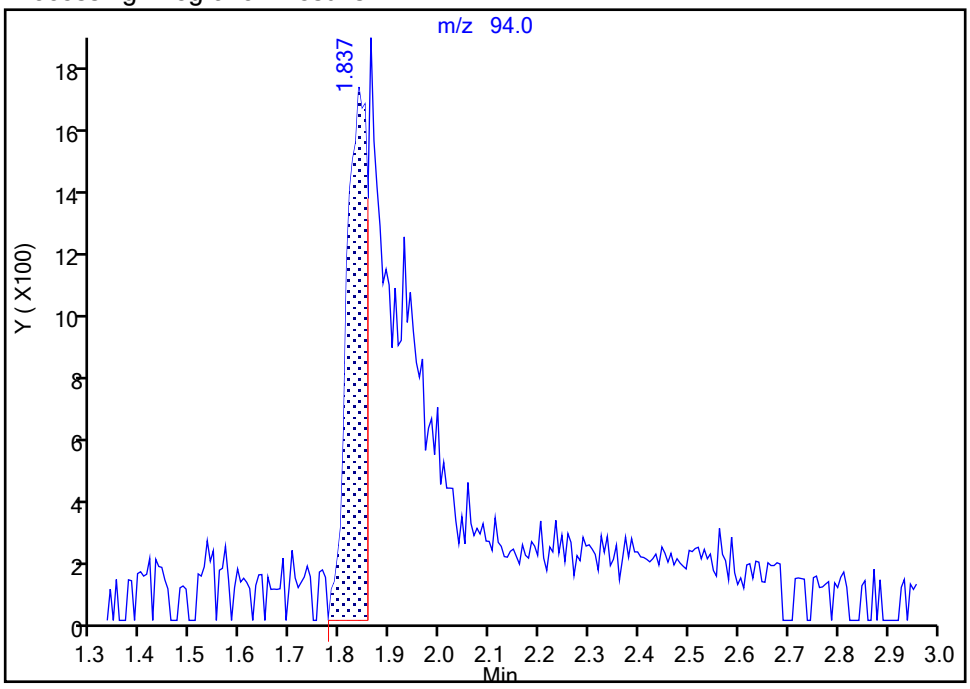
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5286.D
Injection Date: 02-Oct-2020 01:45:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 38 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

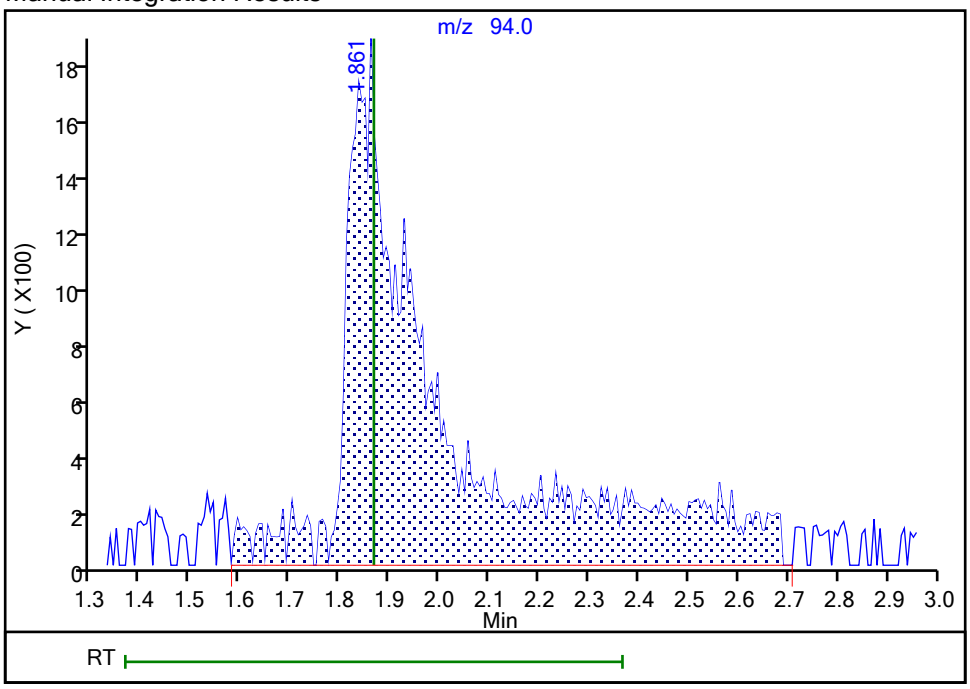
Processing Integration Results

RT: 1.84
Area: 4872
Amount: 3.163542
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 23954
Amount: 18.089413
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:08:15
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 02-Oct-2020 02:09:30 ALS Bottle#: 39 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:31 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:00:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	195032	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	7662	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	154999	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	77583	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	45069	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	193301	50.0	50.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	94	62709	50.0	49.8	
9 Dichlorodifluoromethane	85	1.288	1.282	0.006	99	65307	20.0	20.2	
11 Vinyl chloride	62	1.538	1.532	0.006	98	66237	20.0	19.7	
10 Chloromethane	50	1.526	1.562	-0.036	44	40298	20.0	19.0	M
12 Butadiene	54	1.568	1.568	0.000	91	64696	20.0	18.9	
13 Bromomethane	94	1.861	1.867	-0.006	90	26455	20.0	20.3	M
14 Chloroethane	64	1.916	1.910	0.006	99	38111	20.0	19.3	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	98	87706	20.0	19.4	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	98	87110	20.0	20.6	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

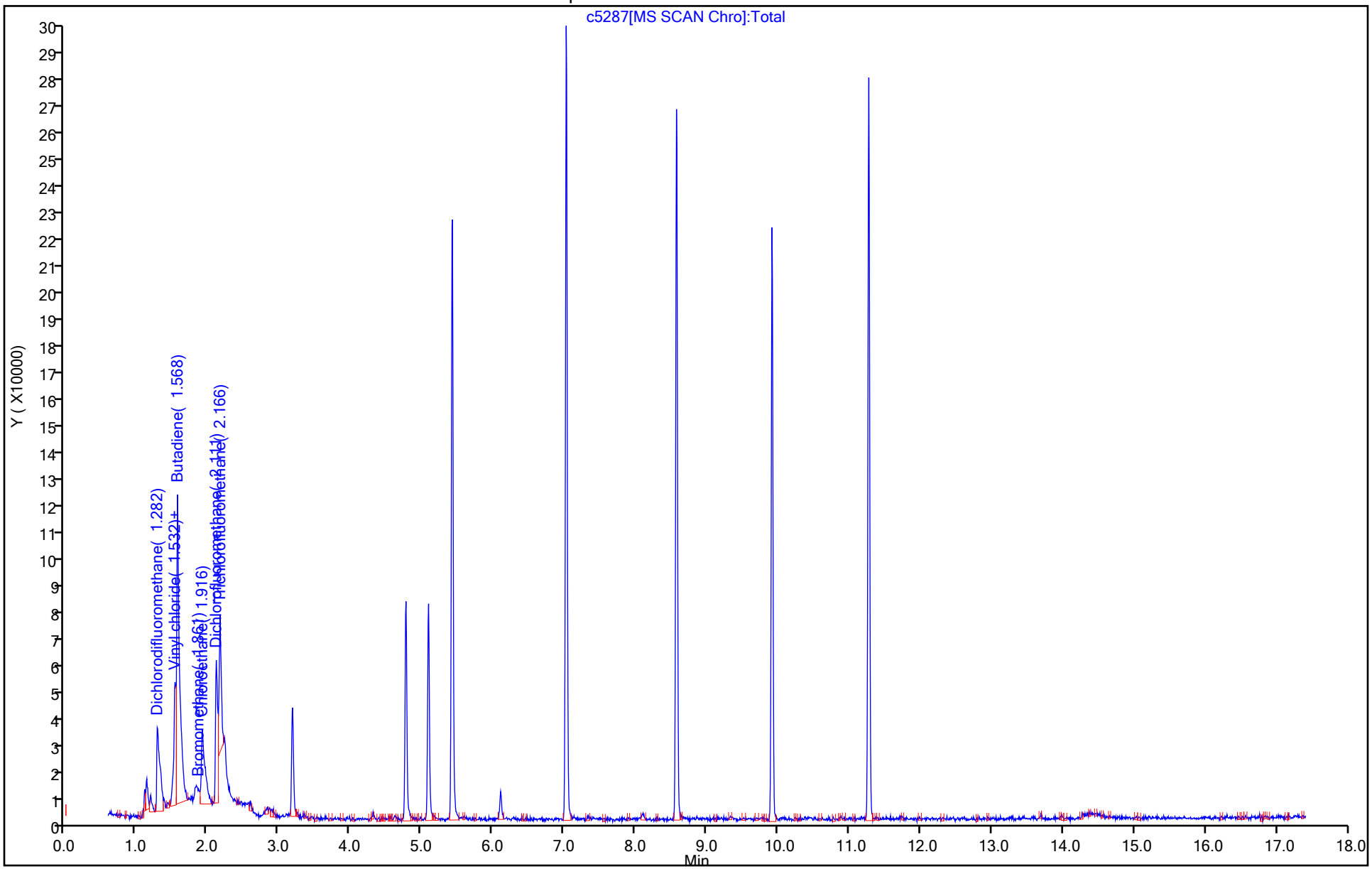
VV_I_GASES_00407 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:32 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D

Injection Date:	02-Oct-2020 02:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std6			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

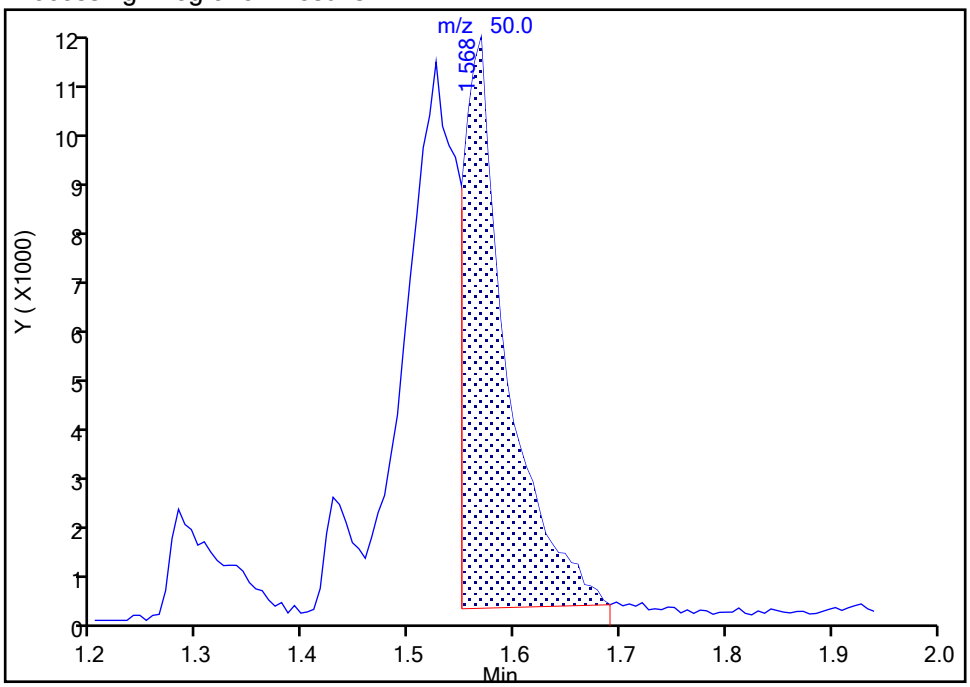
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D
Injection Date: 02-Oct-2020 02:09:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 39 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

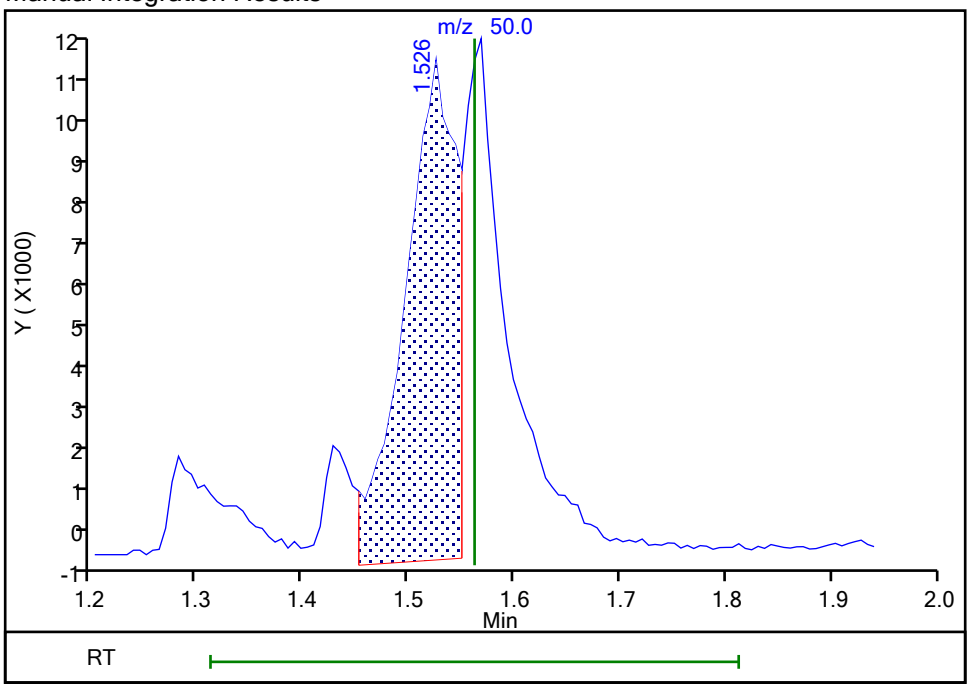
Processing Integration Results

RT: 1.57
Area: 33456
Amount: 15.491522
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 40298
Amount: 19.004310
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:58:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

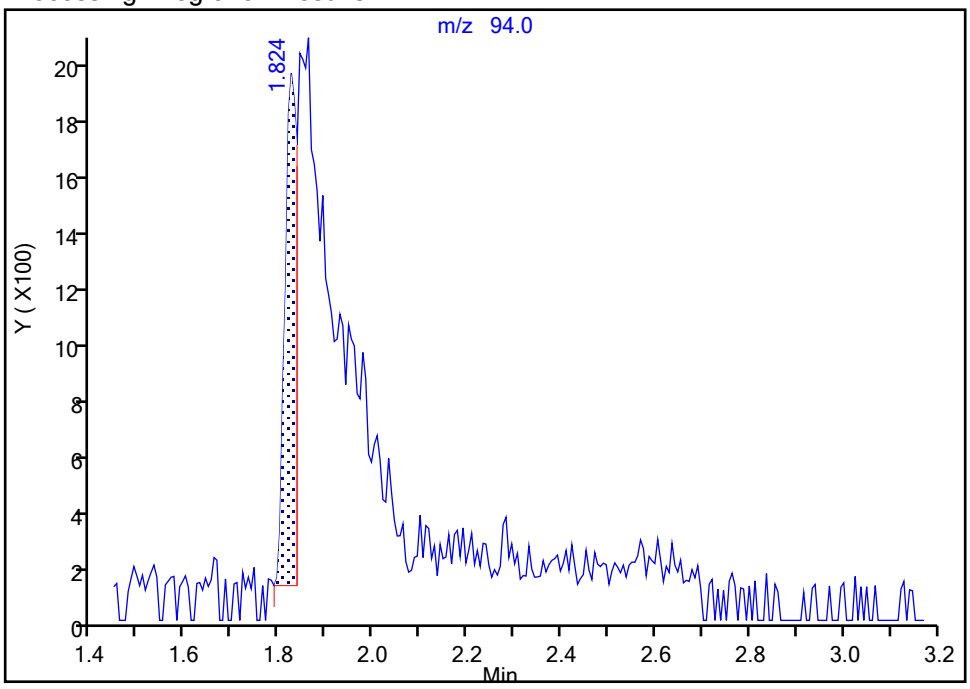
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D				
Injection Date:	02-Oct-2020 02:09:30	Instrument ID:	Calvin		
Lims ID:	std6				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	39	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

13 Bromomethane, CAS: 74-83-9

Signal: 1

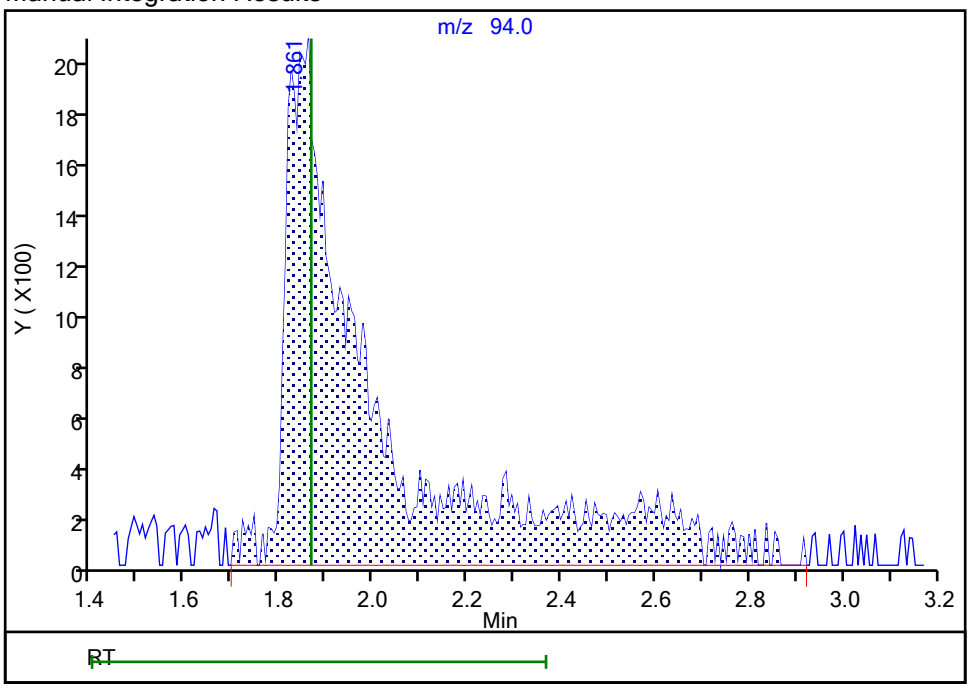
Processing Integration Results

RT: 1.82
Area: 3230
Amount: 2.064162
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 26455
Amount: 20.273831
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:59:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

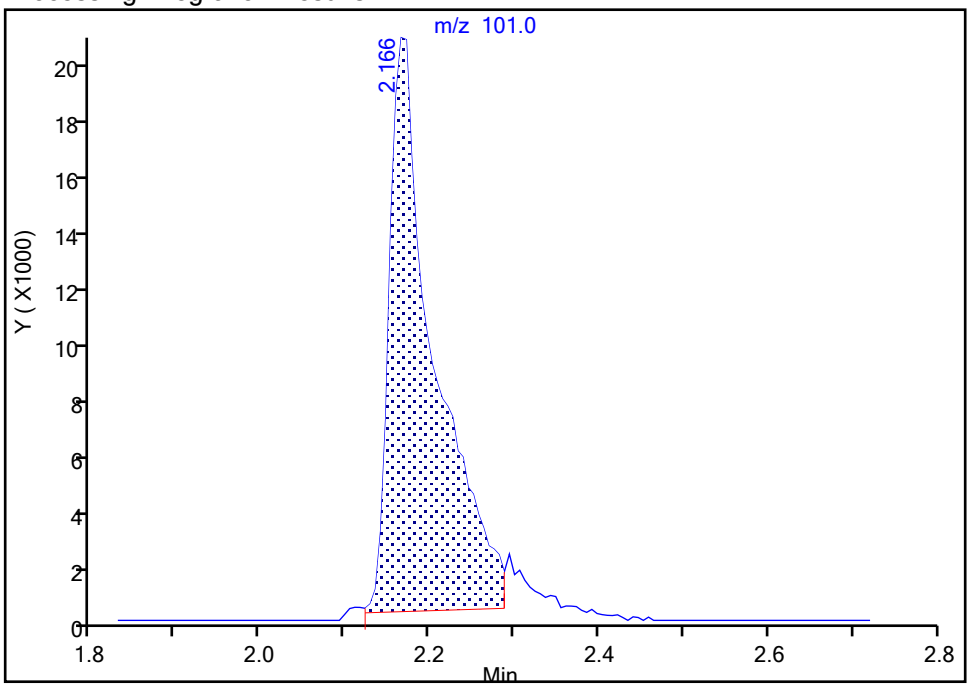
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5287.D				
Injection Date:	02-Oct-2020 02:09:30	Instrument ID:	Calvin		
Lims ID:	std6				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	39	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

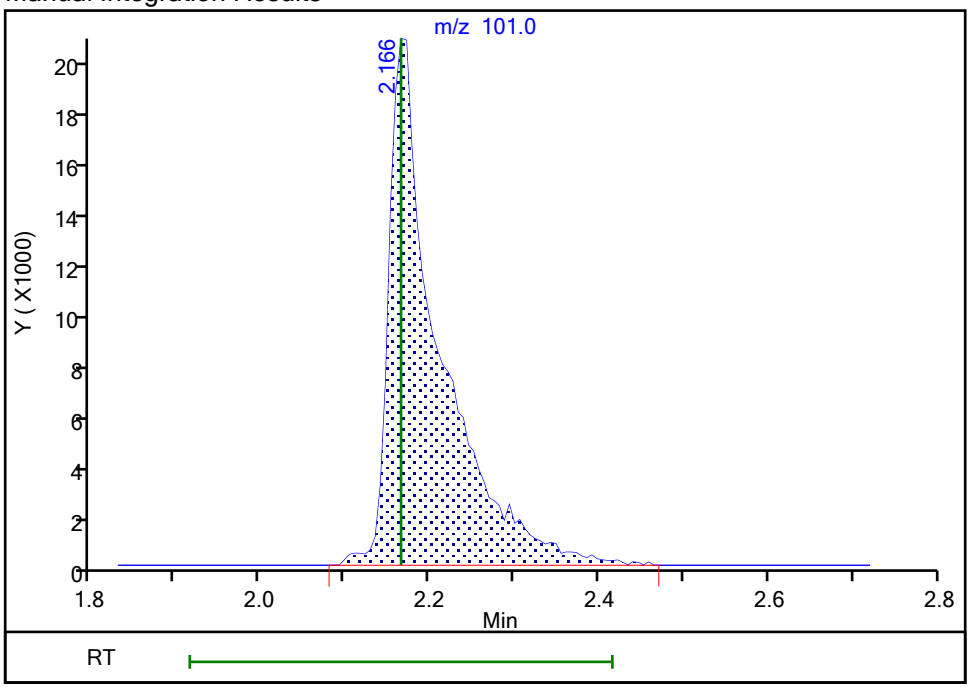
Processing Integration Results

RT: 2.17
Area: 76508
Amount: 18.385917
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 87110
Amount: 20.577634
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:59:58

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 02-Oct-2020 02:33:30 ALS Bottle#: 40 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:34 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:01:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	196877	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	97	7546	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	156671	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	75448	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	45534	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	7.025	7.031	-0.006	93	193082	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	90	61976	50.0	50.6	
9 Dichlorodifluoromethane	85	1.288	1.282	0.006	99	144618	50.0	44.3	
11 Vinyl chloride	62	1.538	1.532	0.006	98	159813	50.0	47.1	
10 Chloromethane	50	1.532	1.562	-0.030	39	105403	50.0	49.2	M
12 Butadiene	54	1.574	1.568	0.006	92	157001	50.0	45.4	
13 Bromomethane	94	1.867	1.867	0.000	91	67031	50.0	50.9	M
14 Chloroethane	64	1.916	1.910	0.006	99	89757	50.0	45.0	
15 Dichlorofluoromethane	67	2.117	2.111	0.006	97	214983	50.0	47.2	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	205487	50.0	48.1	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

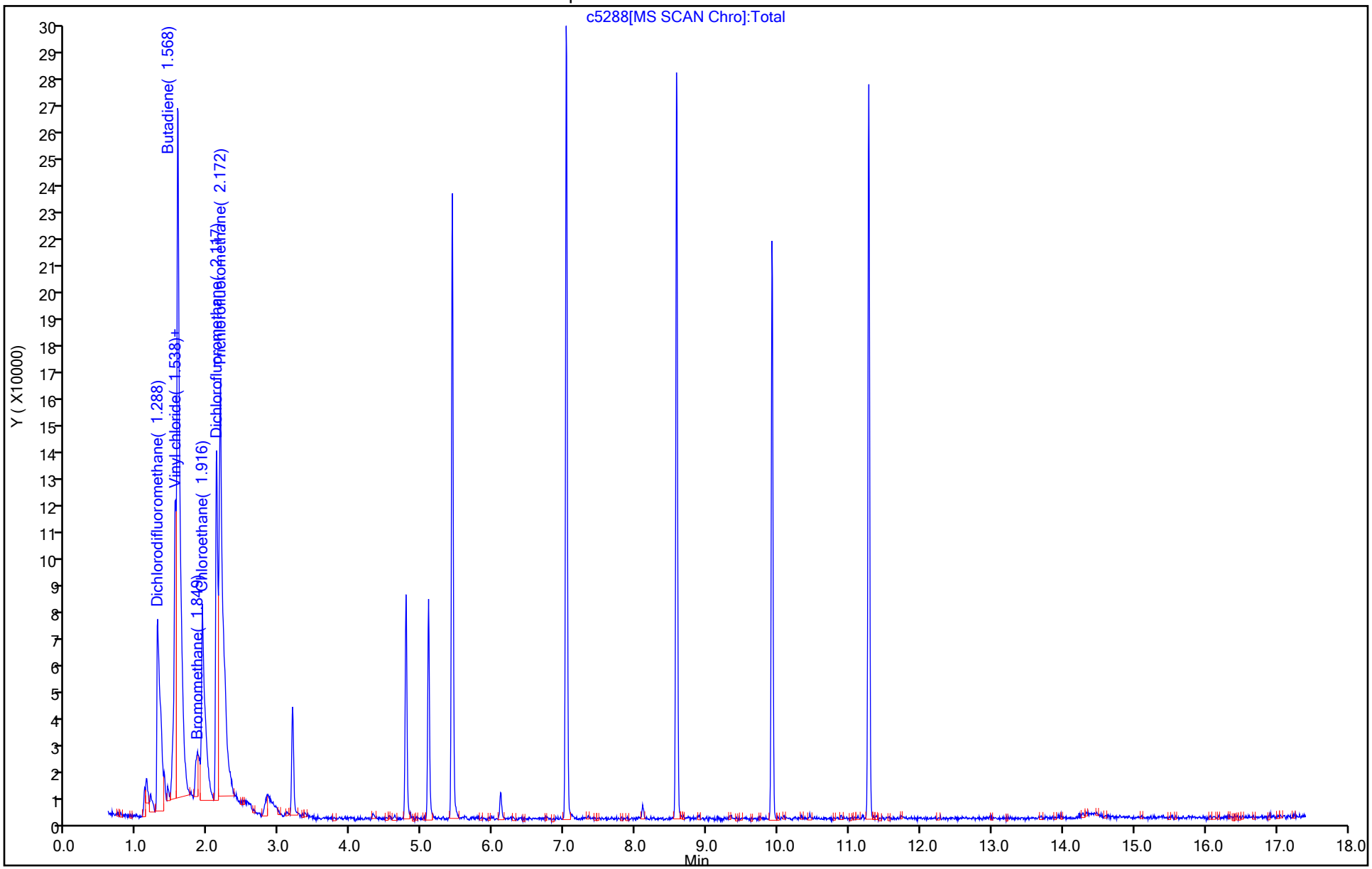
VV_I_GASES_00407 Amount Added: 50.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:35 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D

Injection Date:	02-Oct-2020 02:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std7			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

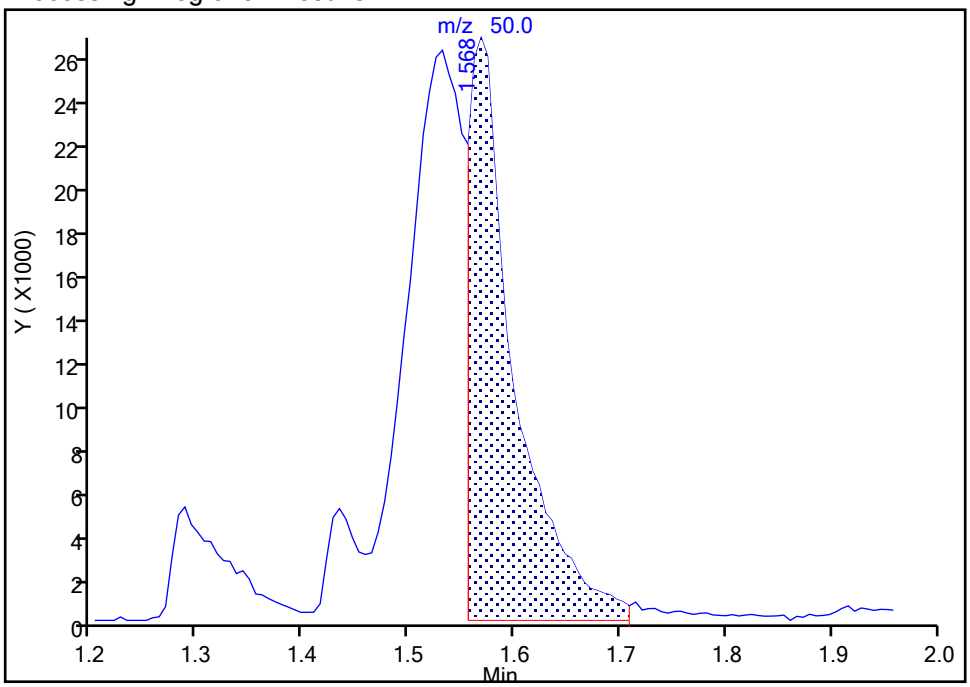
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D				
Injection Date:	02-Oct-2020 02:33:30	Instrument ID:	Calvin		
Lims ID:	std7				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	40	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Signal: 1

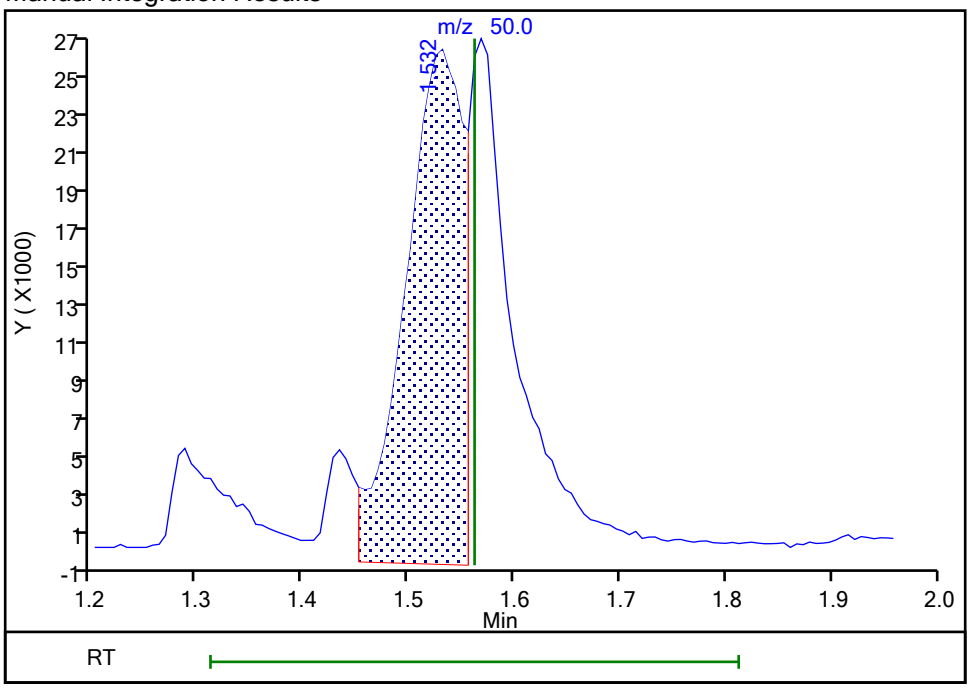
Processing Integration Results

RT: 1.57
Area: 80710
Amount: 36.539524
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 105403
Amount: 49.241638
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:01:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

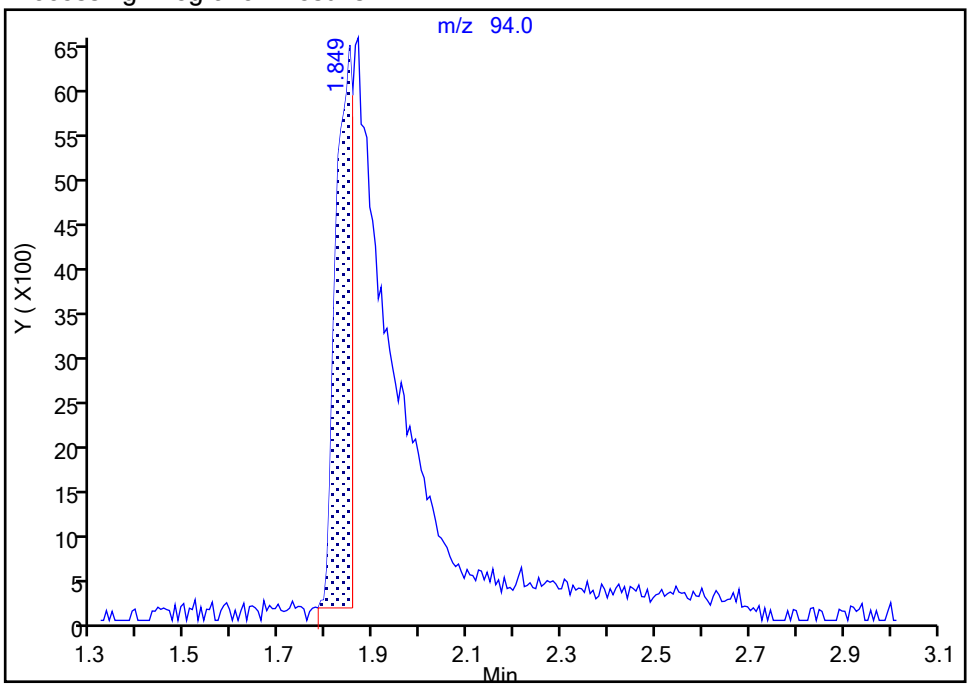
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D
Injection Date: 02-Oct-2020 02:33:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 40 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

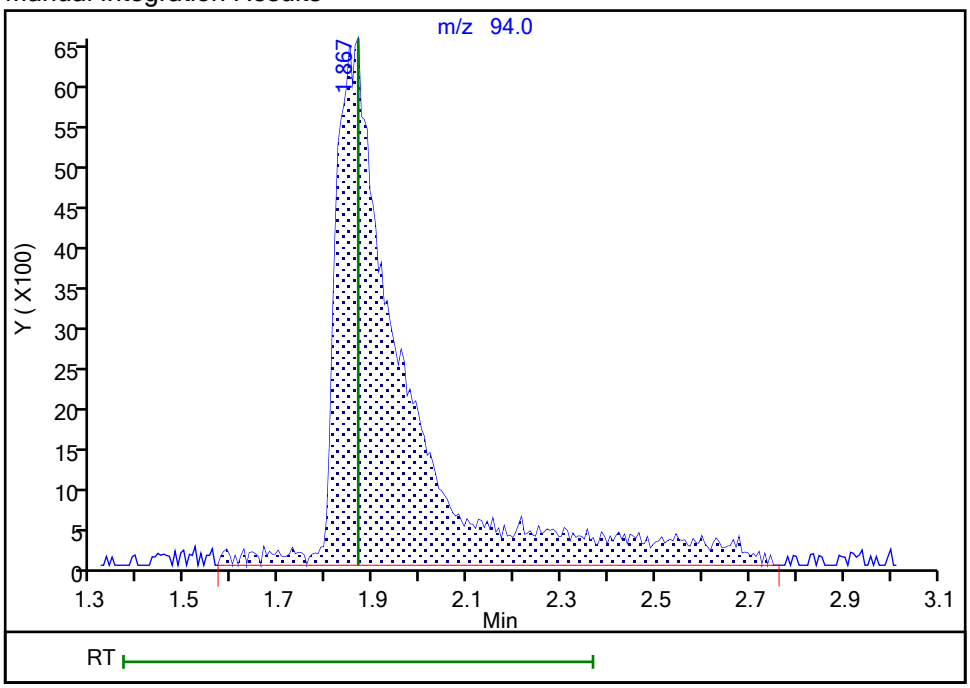
Processing Integration Results

RT: 1.85
Area: 15681
Amount: 9.349017
Amount Units: ug/l



Manual Integration Results

RT: 1.87
Area: 67031
Amount: 50.887913
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:00:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

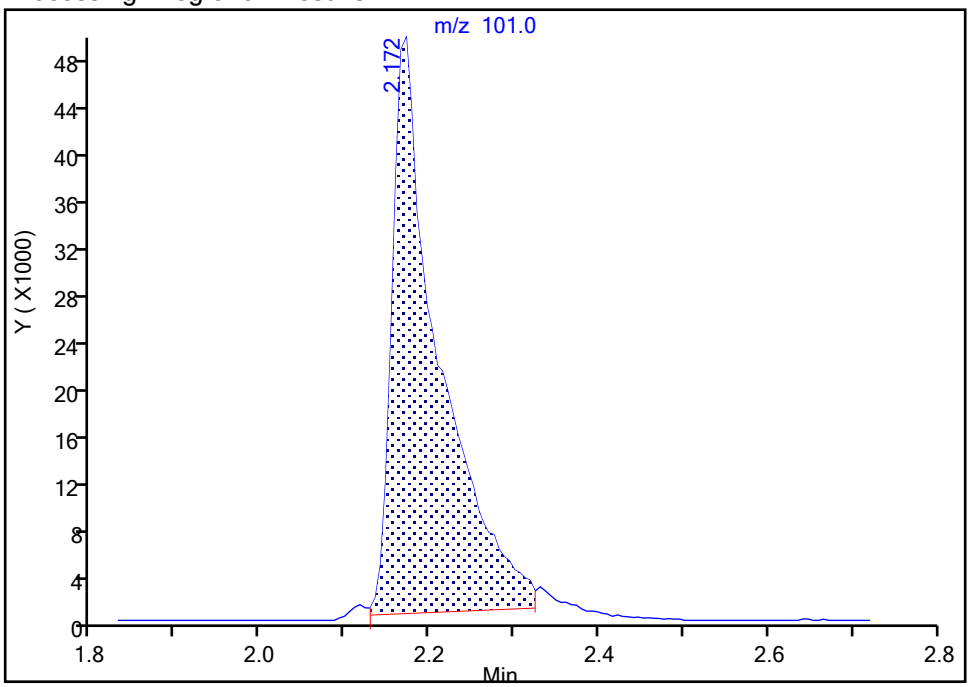
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5288.D				
Injection Date:	02-Oct-2020 02:33:30	Instrument ID:	Calvin		
Lims ID:	std7				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	40	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

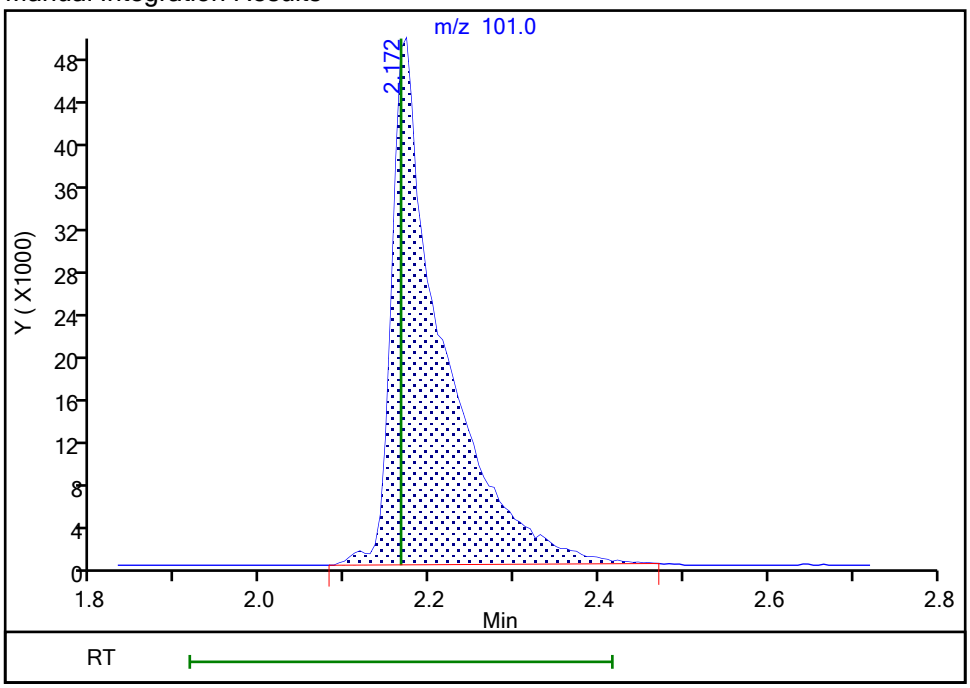
Processing Integration Results

RT: 2.17
Area: 188629
Amount: 44.433619
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 205487
Amount: 48.086446
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:00:12

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5289.D
Lims ID: std8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 02-Oct-2020 02:57:30 ALS Bottle#: 41 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:37 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:54:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	182921	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	97	6499	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	145485	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	69784	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	41873	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	180927	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	93	57085	50.0	50.4	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	317355	100.0	104.7	
11 Vinyl chloride	62	1.532	1.532	0.000	98	332757	100.0	105.6	
10 Chloromethane	50	1.526	1.526	0.000	84	202095	100.0	101.6	
12 Butadiene	54	1.574	1.574	0.000	91	328893	100.0	102.4	
13 Bromomethane	94	1.855	1.855	0.000	91	153056	100.0	125.1	M
14 Chloroethane	64	1.916	1.916	0.000	99	186917	100.0	100.8	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	450077	100.0	106.3	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	98	433276	100.0	109.1	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

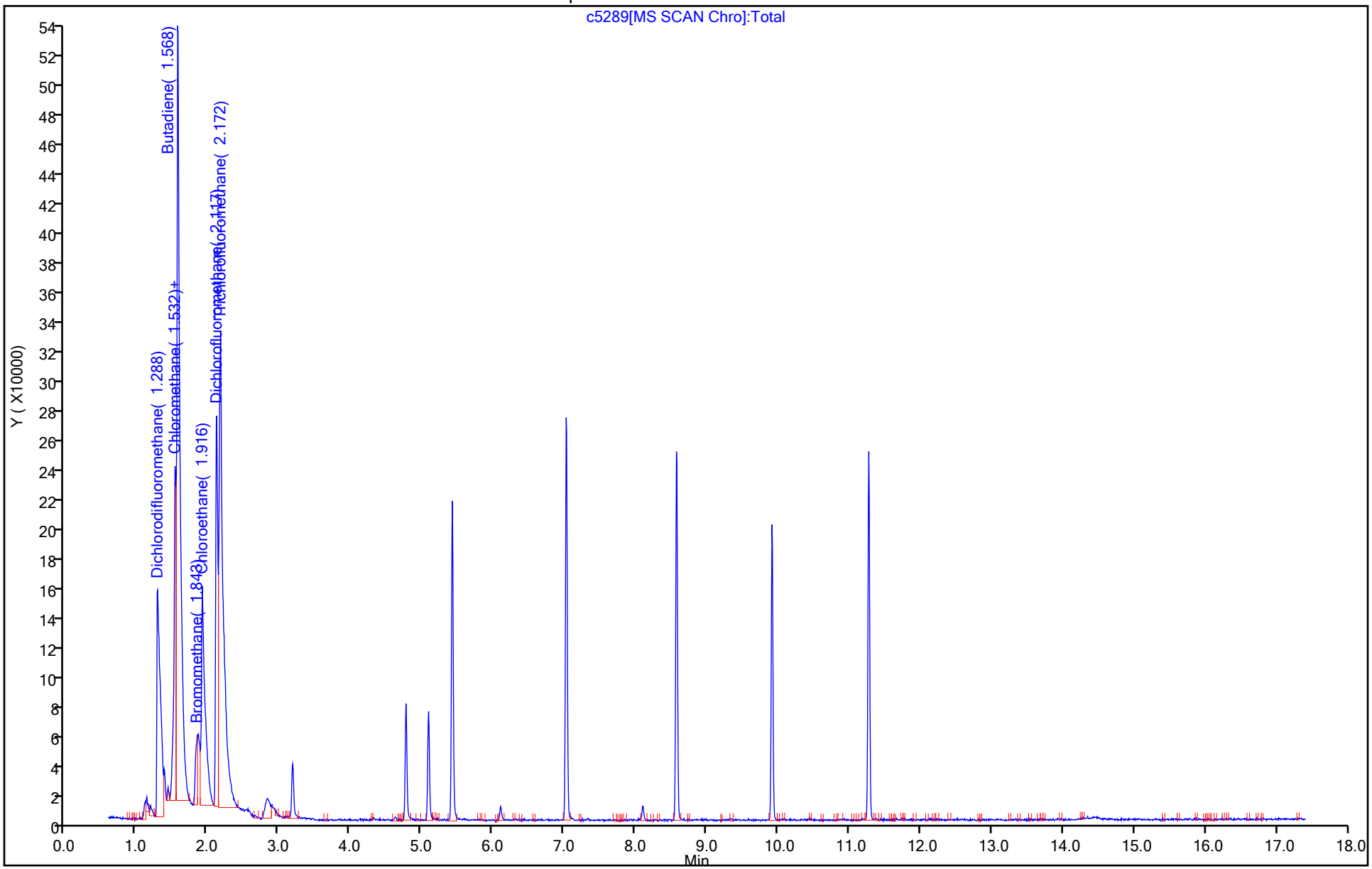
VV_I_GASES_00407 Amount Added: 100.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:38 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5289.D

Injection Date:	02-Oct-2020 02:57:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std8			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

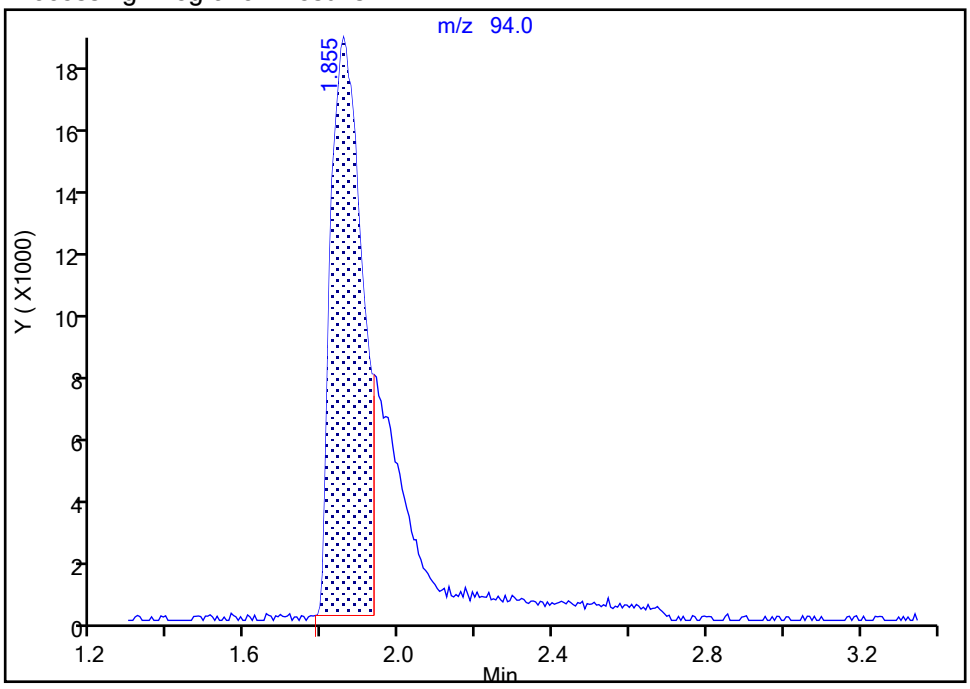
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5289.D
Injection Date: 02-Oct-2020 02:57:30 Instrument ID: Calvin
Lims ID: std8
Client ID:
Operator ID: sjn ALS Bottle#: 41 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

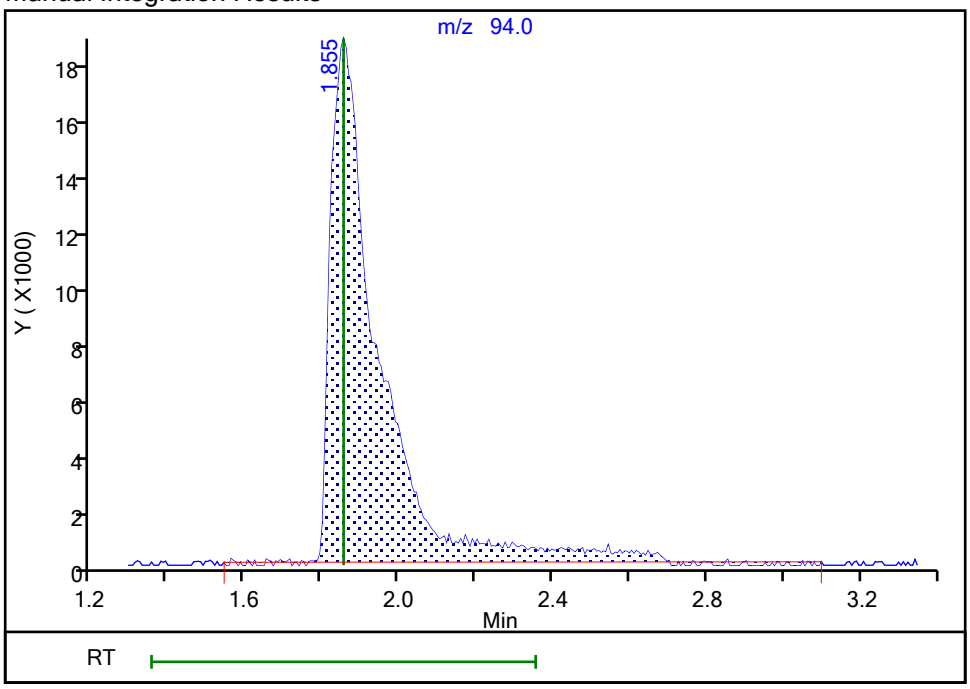
Processing Integration Results

RT: 1.85
Area: 101579
Amount: 70.580748
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 153056
Amount: 125.0607
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 07:54:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 02-Oct-2020 03:21:30 ALS Bottle#: 42 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:40 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:04:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	182274	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	95	6989	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	144055	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	70555	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	40540	50.0	48.1	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	180073	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	90	56549	50.0	49.4	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	491329	150.0	162.7	
10 Chloromethane	50	1.526	1.526	0.000	99	295058	150.0	148.9	
11 Vinyl chloride	62	1.538	1.532	0.006	98	520365	150.0	165.7	
12 Butadiene	54	1.575	1.574	0.001	92	522618	150.0	163.4	
13 Bromomethane	94	1.849	1.855	-0.006	91	269415	150.0	220.9	M
14 Chloroethane	64	1.916	1.916	0.000	99	292081	150.0	158.0	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	99	697088	150.0	165.2	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	98	674004	150.0	170.4	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

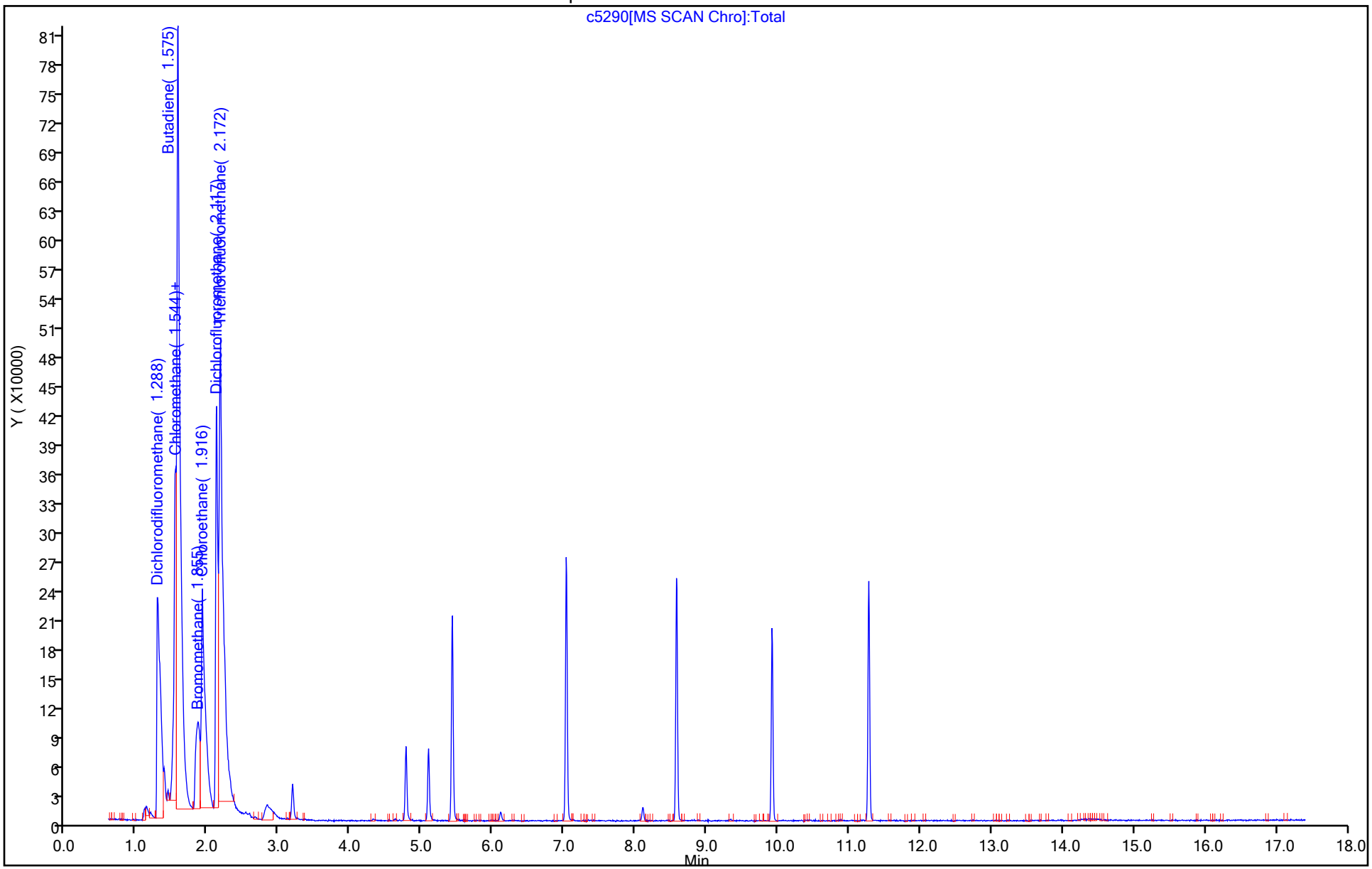
Reagents:

VV_I_GASES_00407 Amount Added: 150.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:41 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D				
Injection Date:	02-Oct-2020 03:21:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std9			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

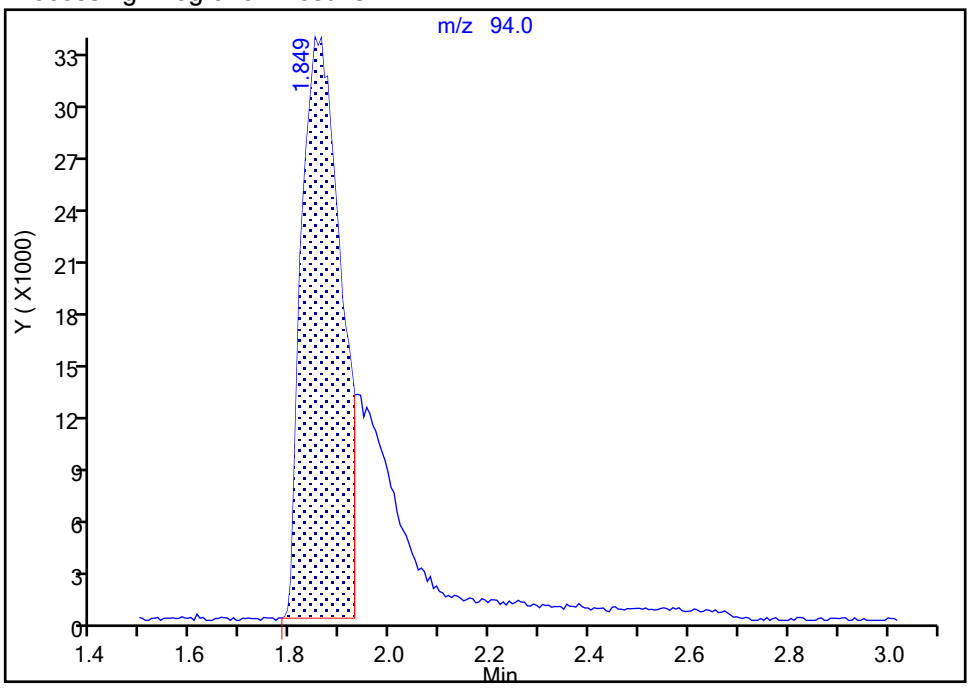
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D
Injection Date: 02-Oct-2020 03:21:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 42 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

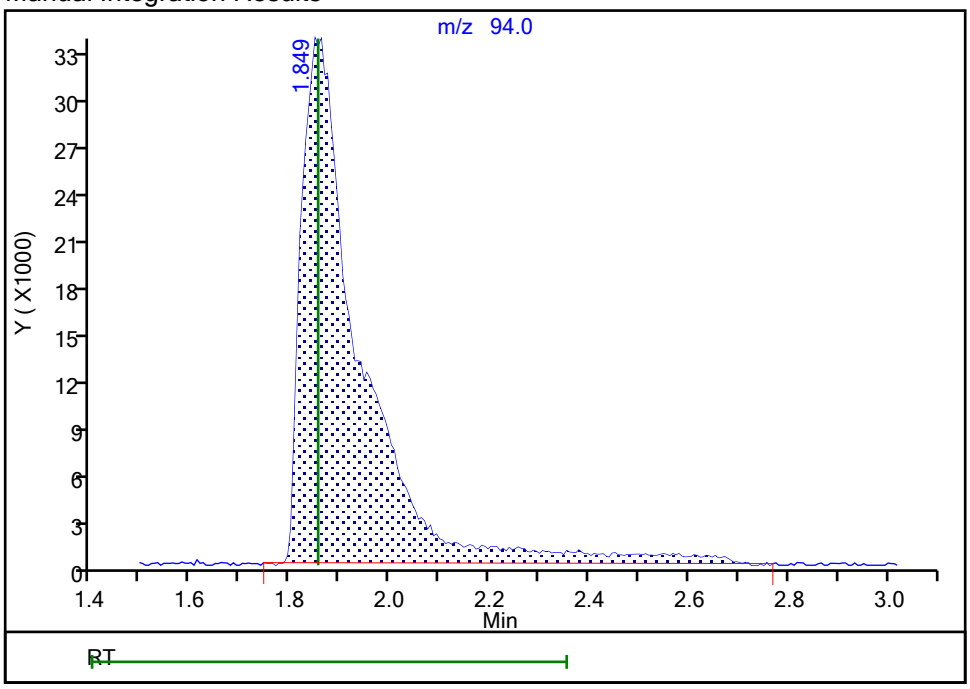
Processing Integration Results

RT: 1.85
Area: 179239
Amount: 109.8201
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 269415
Amount: 220.9179
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:04:02
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

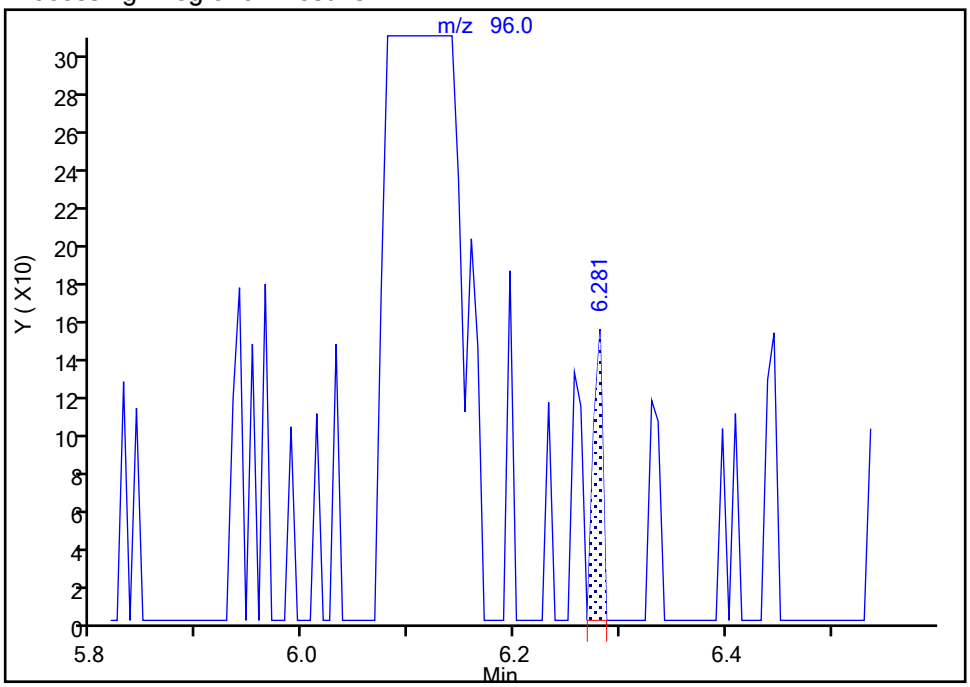
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5290.D
Injection Date: 02-Oct-2020 03:21:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 42 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

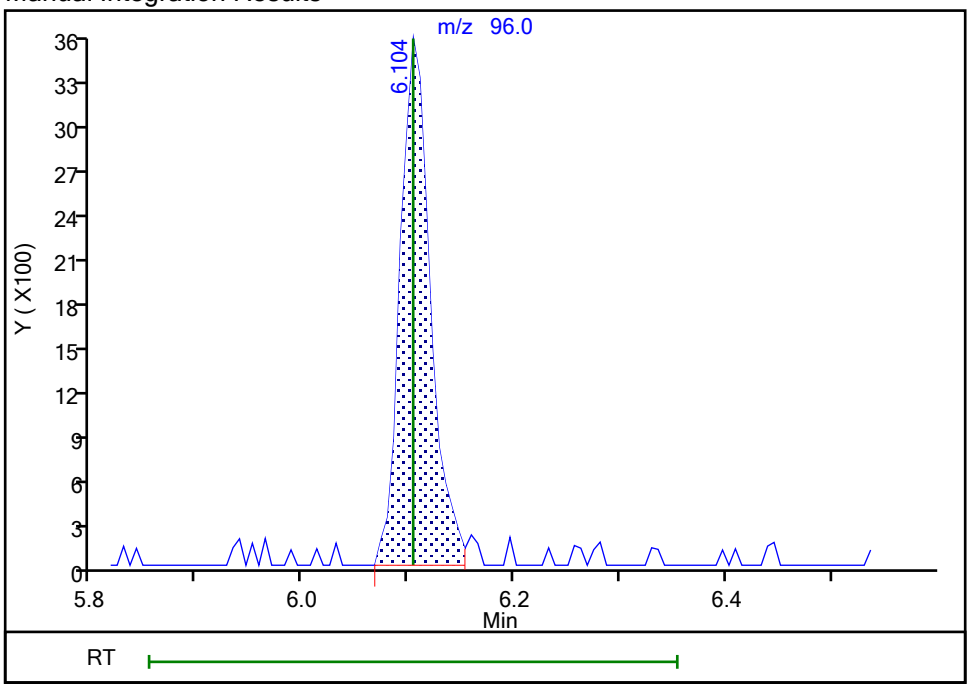
Processing Integration Results

RT: 6.28
Area: 95
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 6989
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 02-Oct-2020 08:03:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5291.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 02-Oct-2020 03:45:30 ALS Bottle#: 43 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:43 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:04:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	177380	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	98	7003	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	85	143054	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	68726	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	41392	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	177088	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	91	55184	50.0	49.5	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	578355	200.0	196.8	
10 Chloromethane	50	1.526	1.526	0.000	98	410332	200.0	212.8	
11 Vinyl chloride	62	1.532	1.532	0.000	100	641772	200.0	209.9	
12 Butadiene	54	1.574	1.574	0.000	95	638544	200.0	205.1	
13 Bromomethane	94	1.855	1.855	0.000	92	334973	200.0	282.3	
14 Chloroethane	64	1.916	1.916	0.000	99	368122	200.0	204.7	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	99	880526	200.0	214.5	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	98	826172	200.0	214.6	

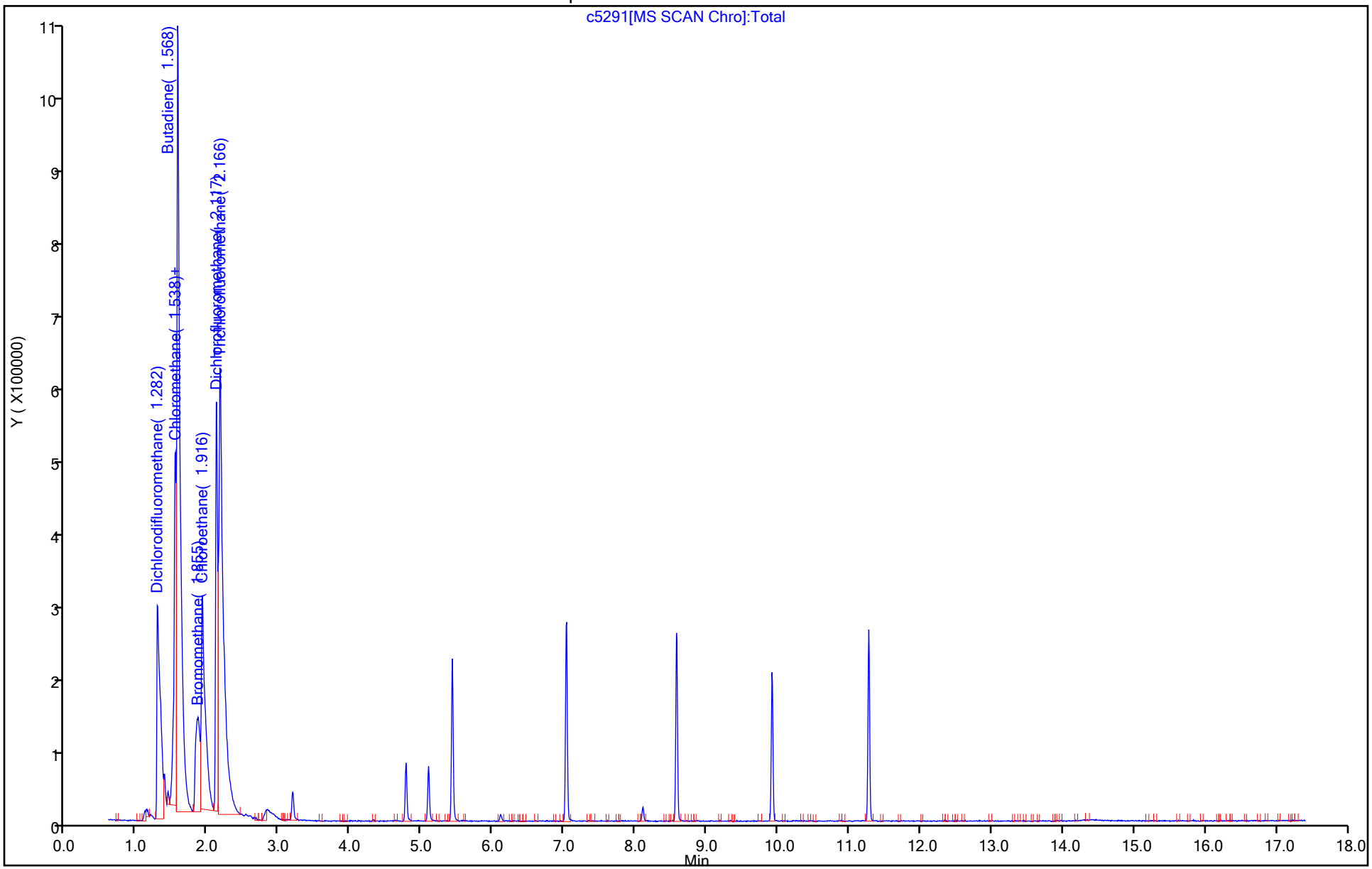
QC Flag Legend
Processing Flags

Reagents:
VV_I_GASES_00407 Amount Added: 200.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:44 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5291.D				
Injection Date:	02-Oct-2020 03:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std10			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5292.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 02-Oct-2020 04:09:30 ALS Bottle#: 44 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:45 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:04:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	178497	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	6977	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	142530	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	68864	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	42045	50.0	51.0	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	175372	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	90	56460	50.0	50.5	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	100	662630	250.0	224.0	
10 Chloromethane	50	1.538	1.526	0.012	73	502228	250.0	258.8	
11 Vinyl chloride	62	1.538	1.532	0.006	99	777837	250.0	252.9	
12 Butadiene	54	1.575	1.574	0.001	93	766157	250.0	244.6	
13 Bromomethane	94	1.855	1.855	0.000	92	422019	250.0	353.4	
14 Chloroethane	64	1.916	1.916	0.000	99	447568	250.0	247.3	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	1072050	250.0	259.5	
16 Trichlorofluoromethane	101	2.172	2.172	0.000	97	992942	250.0	256.3	

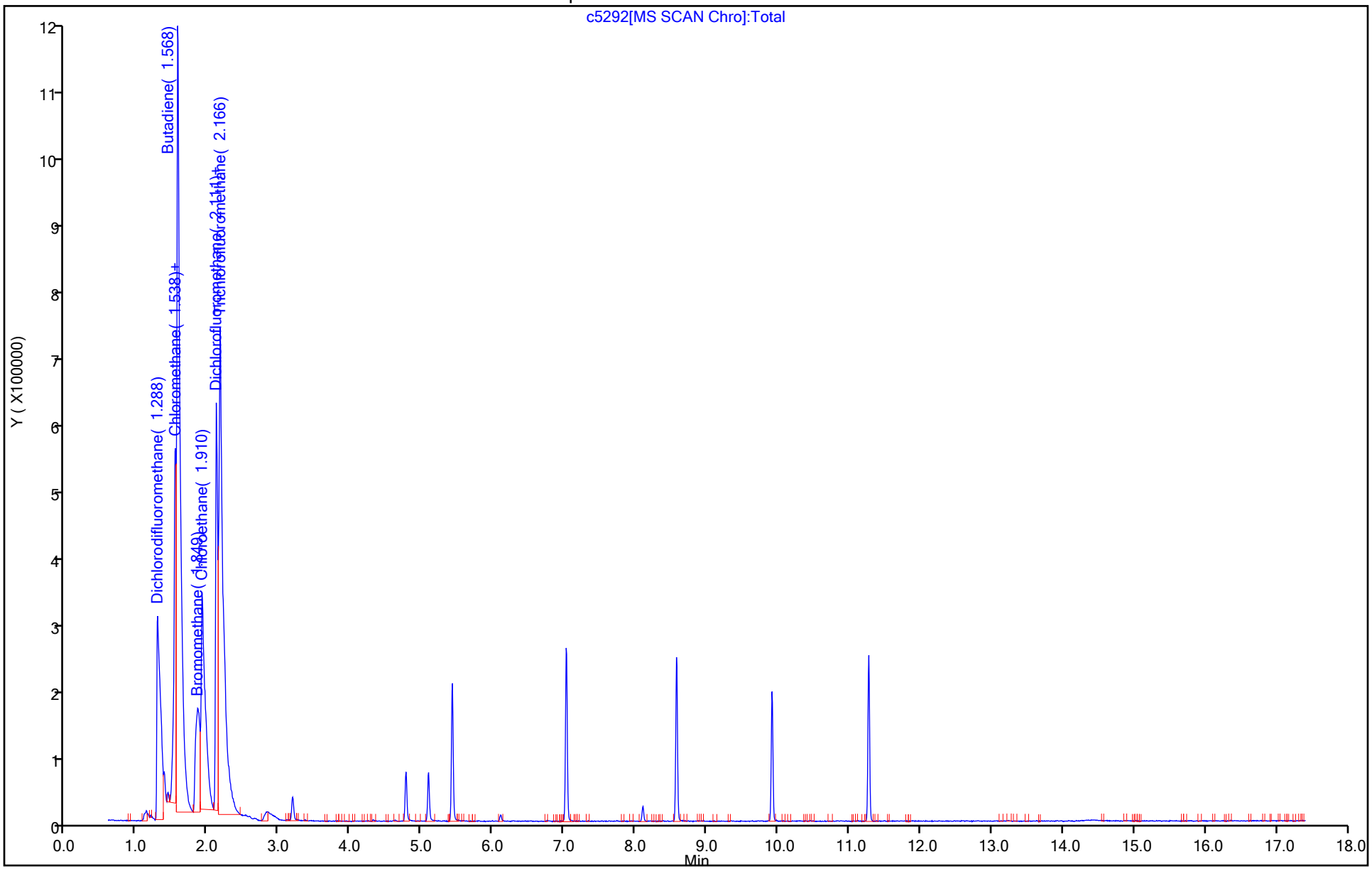
QC Flag Legend
Processing Flags

Reagents:
VV_I_GASES_00407 Amount Added: 250.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:46 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5292.D				
Injection Date:	02-Oct-2020 04:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std11			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 02-Oct-2020 04:33:30 ALS Bottle#: 45 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub20

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:48 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 08:07:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	190564	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	96	7295	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	153118	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	73732	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	44194	50.0	50.2	
$ 6 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	190020	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.920	-0.006	89	59760	50.0	49.9	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	100	1513261	500.0	479.2	
10 Chloromethane	50	1.532	1.526	0.006	74	1089527	500.0	525.9	
11 Vinyl chloride	62	1.538	1.532	0.006	99	1639192	500.0	499.1	
12 Butadiene	54	1.574	1.574	0.000	93	1641946	500.0	490.9	
13 Bromomethane	94	1.843	1.855	-0.012	93	915731	500.0	718.2	
14 Chloroethane	64	1.910	1.916	-0.006	99	935034	500.0	483.9	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	2251396	500.0	510.5	
16 Trichlorofluoromethane	101	2.166	2.172	-0.006	99	2173501	500.0	525.5	

QC Flag Legend

Processing Flags

Reagents:

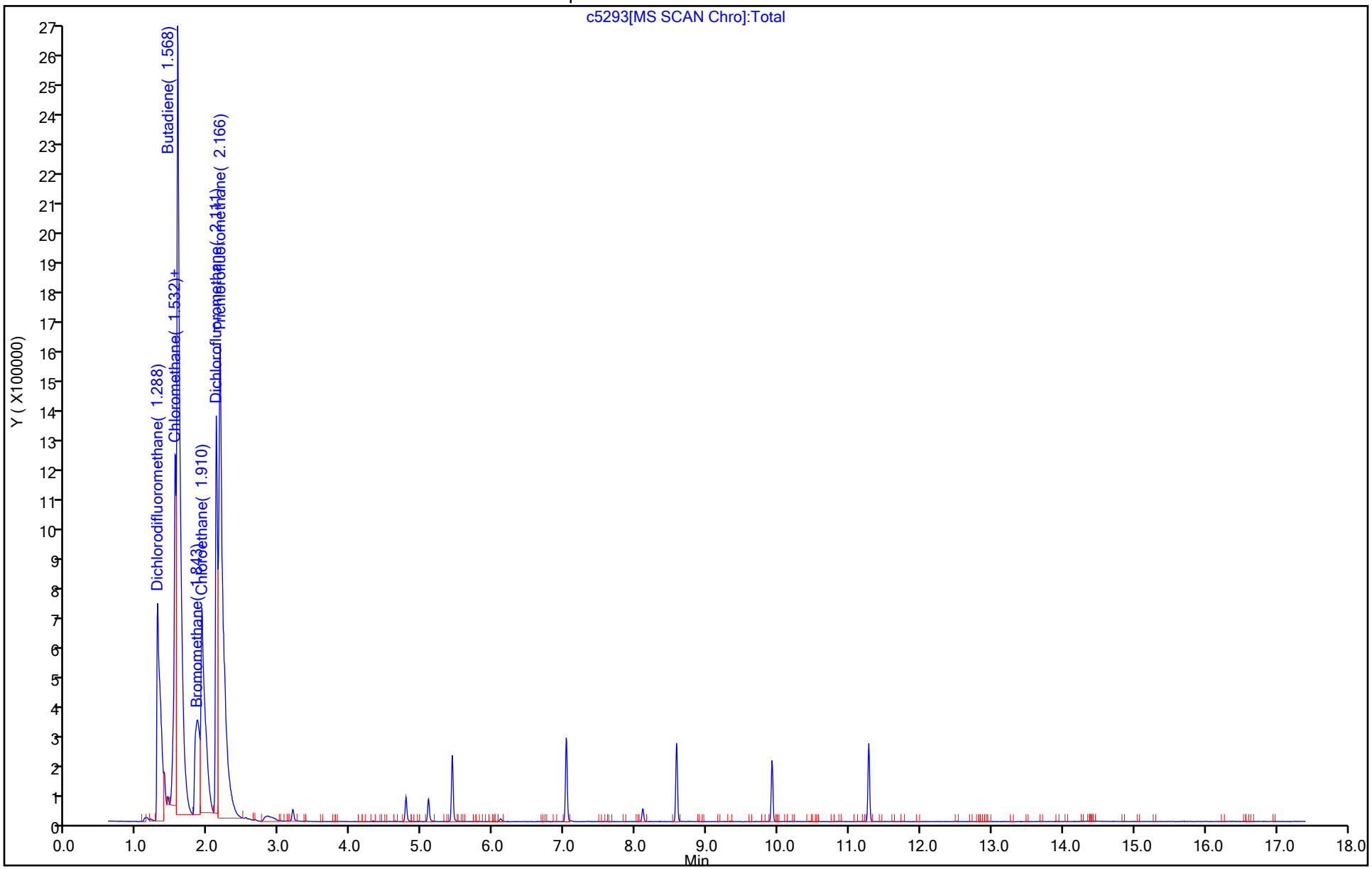
VV_I_GASES_00407 Amount Added: 500.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 02-Oct-2020 08:11:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Injection Date:	02-Oct-2020 04:33:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std12			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/3	c5865.D
Level 2	STD2 310-295162/4	c5866.D
Level 3	STD3 310-295162/5	c5867.D
Level 4	STD4 310-295162/6	c5868.D
Level 5	STD5 310-295162/7	c5869.D
Level 6	STD6 310-295162/8	c5870.D
Level 7	STD7 310-295162/9	c5871.D
Level 8	ICIS 310-295162/10	c5872.D
Level 9	STD9 310-295162/11	c5873.D
Level 10	STD10 310-295162/12	c5874.D
Level 11	STD11 310-295162/13	c5875.D
Level 12	STD12 310-295162/14	c5876.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Ethanol	+++++ 0.0047 0.0043	+++++ 0.0042 0.0042	+++++ 0.0043	+++++ 0.0042	+++++ 0.0046	Ave		0.0043				5.0		20.0			
Diethyl ether	0.3240 0.3752 0.4538	0.3938 0.4125 0.4426	0.4164 0.4337	0.4502 0.4306	0.4814 0.4579	Ave		0.4227				10.1		20.0			
Acrolein	+++++ 0.0568 0.0660	0.0650 0.0609 0.0654	0.0599 0.0631	0.0649 0.0628	0.0760 0.0667	Ave		0.0643				7.6		20.0			
1,1-Dichloroethene	+++++ 0.4574 0.5474	0.4705 0.5091 0.5224	0.5529 0.5387	0.4598 0.5155	0.5223 0.5615	Ave		0.5143			0.1000	7.2		20.0			
1,1,2-Trichlorotrifluoroethane	+++++ 0.4548 0.5723	0.3770 0.5036 0.5748	0.5062 0.5338	0.4023 0.5251	0.5858 0.5797	Ave		0.5105			0.1000	14.1		20.0			
Acetone	+++++ 0.1109 0.1331	+++++ 0.1147 0.1294	+++++ 0.1157	0.1826 0.1242	0.1857 0.1290	Lin1	0.4297	0.1266			0.0500	15.7			0.9960		0.9900
Iodomethane	+++++ 0.4020 0.4567	+++++ 0.4937 +++++	+++++ 0.5643	+++++ 0.5101	0.3663 0.5003	Ave		0.4705				14.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Carbon disulfide	1.5067 1.3204 1.6256	1.5547 1.4924 1.5776	1.5234 1.5919	1.3336 1.5327	1.5440 1.6693	Ave		1.5227			0.1000	6.8		20.0			
Isopropyl alcohol	+++++ 0.0241 0.0228	0.0178 0.0216 0.0226	0.0247 0.0229	0.0252 0.0220	0.0315 0.0240	Ave		0.0236				14.1		20.0			
Acetonitrile	+++++ 0.0414 0.0451	0.0622 0.0429 0.0437	0.0552 0.0434	0.0513 0.0443	0.0559 0.0458	Ave		0.0483				14.1		20.0			
Allyl chloride	+++++ 0.3035 0.3742	0.2639 0.3112 0.3475	0.3058 0.3719	0.3406 0.3590	0.3035 0.3745	Ave		0.3323				11.1		20.0			
Methyl acetate	0.4196 0.2841 0.3463	0.4124 0.3170 0.3442	0.3654 0.3297	0.3735 0.3296	0.3678 0.3477	Ave		0.3531			0.1000	10.8		20.0			
Methylene Chloride	0.6284 0.5222 0.6001	0.7180 0.5622 0.5792	0.6530 0.5865	0.6152 0.5747	0.6532 0.6140	Ave		0.6089			0.1000	8.4		20.0			
tert-Butanol	+++++ 0.0330 0.0314	0.0287 0.0303 0.0314	0.0349 0.0318	0.0382 0.0306	0.0432 0.0334	Ave		0.0333				12.4		20.0			
Acrylonitrile	0.1400 0.1645 0.1892	0.1653 0.1793 0.1876	0.1774 0.1848	0.1925 0.1800	0.2147 0.1915	Ave		0.1806				10.2		20.0			
trans-1,2-Dichloroethene	0.4341 0.5323 0.6419	0.5646 0.5988 0.6223	0.5745 0.6336	0.5253 0.6176	0.6401 0.6554	Ave		0.5867			0.1000	11.0		20.0			
Methyl tert-butyl ether	1.0248 1.1878 1.4896	1.2916 1.3433 1.4957	1.3061 1.4052	1.3924 1.3917	1.5125 1.4898	Ave		1.3609			0.1000	10.6		20.0			
Hexane	0.6066 0.7806 0.8732	0.6674 0.8211 0.8435	0.8490 0.8708	0.6664 0.7972	0.8796 0.8913	Ave		0.7956				12.1		20.0			
1,1-Dichloroethane	0.7921 1.0141 1.1951	1.0422 1.1047 1.1675	1.0728 1.1802	1.1112 1.1354	1.1644 1.2254	Ave		1.1004			0.2000	10.5		20.0			
Vinyl acetate	+++++ 0.0953 0.1235	0.0947 0.1077 0.1214	0.0761 0.1190	0.1010 0.1158	0.1201 0.1241	Ave		0.1090				14.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chloroprene	+++++ 0.9698 1.2003	0.8501 1.0492 1.2231	0.9927 1.1386	0.8739 1.1010	1.0973 1.2085	Ave		1.0640				12.2		20.0			
Di-isopropyl ether (DIPE)	0.4341 0.4906 0.5710	0.4582 0.5441 0.5610	0.5086 0.5558	0.5568 0.5503	0.6295 0.5695	Ave		0.5358				10.1		20.0			
tert-Butyl ethyl ether	1.2270 1.5611 1.8994	1.6131 1.6920 1.8947	1.6290 1.7971	1.7245 1.7767	1.9340 1.8949	Ave		1.7203				11.6		20.0			
2,2-Dichloropropane	+++++ 0.7542 0.9747	+++++ 0.8539 1.0038	0.6891 0.9216	0.7277 0.9010	0.8792 0.9758	Ave		0.8681				12.8		20.0			
cis-1,2-Dichloroethene	0.4863 0.6350 0.7068	0.6651 0.6805 0.6879	0.6330 0.7137	0.6813 0.6883	0.7482 0.7299	Ave		0.6713			0.1000	10.1		20.0			
2-Butanone (MEK)	+++++ 0.1930 0.2024	0.2174 0.1846 0.1971	0.2190 0.1961	0.2339 0.1941	0.2587 0.2077	Ave		0.2094			0.0500	10.3		20.0			
Propionitrile	+++++ 0.0675 0.0699	0.0647 0.0676 0.0698	0.0710 0.0692	0.0781 0.0677	0.0921 0.0722	Ave		0.0718				10.5		20.0			
Ethyl acetate	+++++ 0.0732 0.0903	0.0642 0.0740 0.0953	0.0809 0.0854	0.0873 0.0794	0.0887 0.0856	Ave		0.0822				10.9		20.0			
Methacrylonitrile	+++++ 0.1938 0.2169	0.1946 0.2066 0.2160	0.2003 0.2114	0.2222 0.2056	0.2569 0.2190	Ave		0.2130				8.2		20.0			
Bromochloromethane	+++++ 0.2690 0.2597	0.2829 0.2920 0.2528	0.2688 0.2865	0.3109 0.2637	0.3282 0.2710	Ave		0.2805				8.1		20.0			
Tetrahydrofuran	+++++ 0.0440 0.0499	+++++ 0.0482 0.0512	0.0470 0.0483	0.0492 0.0489	0.0606 0.0510	Ave		0.0498				8.7		20.0			
Chloroform	+++++ 0.9705 1.1343	1.3533 1.0570 1.1180	1.3263 1.1197	1.1470 1.0731	1.2023 1.1577	Ave		1.1508			0.2000	9.7		20.0			
1,1,1-Trichloroethane	+++++ 0.8544 1.0588	0.7414 0.9345 1.0713	0.8683 1.0173	0.7779 0.9789	1.0055 1.0679	Ave		0.9433			0.1000	12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Cyclohexane	+++++ 1.0432 1.2306	0.9026 1.1407 1.2461	1.1195 1.1870	0.9090 1.1320	1.2141 1.2499	Ave		1.1250			0.1000	11.1		20.0			
Carbon tetrachloride	+++++ 0.7074 0.9092	+++++ 0.8015 0.9512	0.7099 0.8663	0.6204 0.8435	0.8270 0.9256	Ave		0.8162			0.1000	13.2		20.0			
1,1-Dichloropropene	+++++ 0.8273 0.9415	0.7511 0.8781 0.9408	0.8749 0.9193	0.7765 0.8943	0.9494 0.9608	Ave		0.8831				8.1		20.0			
Isobutyl alcohol	+++++ 0.0174 0.0172	0.0156 0.0164 0.0173	0.0194 0.0171	0.0184 0.0167	0.0227 0.0179	Ave		0.0178				10.7		20.0			
Benzene	1.9974 2.4460 2.7331	2.4238 2.5914 2.6964	2.5669 2.7266	2.5341 2.6110	2.8722 2.8048	Ave		2.5836			0.5000	8.9		20.0			
1,2-Dichloroethane	0.5899 0.7239 0.8689	0.8602 0.7850 0.8756	0.8291 0.8259	0.8284 0.8044	0.9500 0.8704	Ave		0.8176			0.1000	11.1		20.0			
n-Butanol	0.0192 0.0246 0.0269	0.0210 0.0260 0.0267	0.0277 0.0275	0.0202 0.0252	0.0288 0.0275	Ave		0.0251				12.8		20.0			
tert-Amyl methyl ether	+++++ 1.3873 1.6224	1.3530 1.4936 1.6529	1.4185 1.5690	1.6041 1.5389	1.7792 1.6386	Ave		1.5507				8.3		20.0			
Heptane	0.7863 0.7843 0.8441	0.7191 0.8109 0.8263	0.8470 0.8434	0.6441 0.7902	0.8755 0.8664	Ave		0.8031				8.2		20.0			
Trichloroethene	0.4863 0.6196 0.7161	0.6015 0.6683 0.7102	0.6832 0.6934	0.6183 0.6657	0.7415 0.7212	Ave		0.6604			0.2000	10.7		20.0			
Ethyl acrylate	0.4508 0.5660 0.6729	0.5457 0.6066 0.6890	0.5643 0.6367	0.6669 0.6368	0.7794 0.6753	Ave		0.6242				13.6		20.0			
Methylcyclohexane	0.8936 1.0561 1.1592	1.0076 1.1150 1.1525	1.0875 1.1733	0.8616 1.0831	1.2358 1.1885	Ave		1.0845			0.1000	10.6		20.0			
1,2-Dichloropropane	0.4566 0.5890 0.6721	0.6421 0.6222 0.6700	0.5822 0.6567	0.6430 0.6364	0.7126 0.6887	Ave		0.6310			0.1000	10.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dibromomethane	+++++ 0.3068 0.3290	0.3205 0.3283 0.3066	0.3327 0.3449	0.3441 0.3308	0.3995 0.3446	Ave		0.3352				7.5		20.0			
Methyl methacrylate	+++++ 0.3293 0.3738	0.2993 0.3444 0.3745	0.3231 0.3590	0.3686 0.3566	0.4448 0.3764	Ave		0.3591				10.5		20.0			
Dichlorobromomethane	0.5791 0.6504 0.8585	0.7172 0.7498 0.8632	0.6806 0.8110	0.7375 0.7948	0.8402 0.8612	Ave		0.7620			0.2000	12.1		20.0			
2-Nitropropane	+++++ 0.0944 +++++	+++++ 0.1117 +++++	+++++ 0.1325	0.0946 +++++	0.1203 +++++	Ave		0.1107				14.9		20.0			
2-Chloroethyl vinyl ether	+++++ 0.3058 0.3785	0.2792 0.3454 0.3788	0.2928 0.3613	0.3620 0.3592	0.4076 0.3797	Ave		0.3500				11.6		20.0			
cis-1,3-Dichloropropene	0.5834 0.8328 1.0647	0.6852 0.9613 1.0618	0.7189 1.0196	0.8743 1.0025	1.0588 1.0851	Ave		0.9124			0.2000	18.8		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4501 0.4859	0.4076 0.4530 0.4895	0.4439 0.4630	0.5160 0.4613	0.6428 0.4913	Ave		0.4822			0.1000	12.6		20.0			
Toluene	1.4219 1.6147 1.8147	1.6801 1.7424 1.7919	1.7692 1.8298	1.7667 1.7527	2.0520 1.8490	Ave		1.7571			0.4000	8.5		20.0			
trans-1,3-Dichloropropene	0.4718 0.7336 +++++	0.5754 0.8482 +++++	0.6262 0.9141	0.7433 0.9049	0.9685 +++++	Lin1	-0.324	0.8940			0.1000	13.6			0.9970		0.9900
Ethyl methacrylate	+++++ 0.6053 0.7210	0.6149 0.6564 0.7237	0.5822 0.6923	0.6811 0.6787	0.8629 0.7312	Ave		0.6863				11.2		20.0			
1,1,2-Trichloroethane	0.2667 0.3932 0.4409	0.3596 0.4158 0.4363	0.3894 0.4382	0.4750 0.4223	0.5451 0.4520	Ave		0.4195			0.1000	16.0		20.0			
Tetrachloroethene	0.5827 0.7101 0.7327	0.6886 0.7493 0.7153	0.7438 0.7745	0.6878 0.7221	0.8123 0.7648	Ave		0.7237			0.2000	7.9		20.0			
1,3-Dichloropropane	0.6356 0.8084 0.9246	0.8658 0.8898 0.9097	0.8989 0.9169	0.9838 0.8952	1.1173 0.9429	Ave		0.8991				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Hexanone	+++++ 0.3043 0.3192	0.2468 0.2968 0.3220	0.2926 0.3065	0.3305 0.3047	0.4199 0.3225	Ave		0.3151			0.1000	13.1		20.0			
Chlorodibromomethane	+++++ 0.4851 0.6248	0.4407 0.5540 0.6173	0.4422 0.6055	0.5176 0.5934	0.6432 0.6348	Ave		0.5599			0.1000	13.7		20.0			
n-Butyl acetate	+++++ 0.7709 0.8256	+++++ 0.7762 0.8322	0.7228 0.8004	0.8495 0.7866	1.0631 0.8302	Ave		0.8257				11.1		20.0			
1,2-Dibromoethane (EDB)	+++++ 0.4763 0.5320	0.4236 0.5110 0.5234	0.4326 0.5367	0.5462 0.5214	0.6393 0.5471	Ave		0.5172			0.1000	11.4		20.0			
Chlorobenzene	1.8416 2.2674 2.5134	2.8062 2.4475 2.4336	2.3968 2.5144	2.7329 2.3786	3.1981 2.5540	Ave		2.5070			0.5000	12.9		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.7110 0.8700	0.5823 0.8065 0.8468	0.6832 0.8499	0.8258 0.8225	1.0415 0.8780	Ave		0.8107				14.7		20.0			
Ethylbenzene	3.3847 4.0974 4.6231	3.9830 4.4029 4.4927	4.3031 4.5632	4.3835 4.3782	5.3564 4.6924	Ave		4.3884			0.1000	10.6		20.0			
m,p-Xylene	1.3900 1.5841 1.7787	1.5510 1.7011 1.7263	1.6493 1.7746	1.7175 1.6870	2.1439 1.7972	Ave		1.7084			0.1000	10.5		20.0			
o-Xylene	1.0820 1.4987 1.6951	1.6202 1.6279 1.6570	1.5860 1.6689	1.7076 1.5884	2.0596 1.7212	Ave		1.6261			0.3000	13.5		20.0			
Styrene	1.8939 2.5054 2.8997	2.3458 2.7029 2.8226	2.3390 2.8147	2.8585 2.7044	3.5090 2.9251	Ave		2.6934			0.3000	14.8		20.0			
Bromoform	+++++ 0.3400 0.4868	+++++ 0.3946 0.4967	+++++ 0.4521	0.3321 0.4470	0.4878 0.4904	Ave		0.4364			0.1000	14.9		20.0			
Isopropylbenzene	3.1489 3.9775 4.4905	3.7400 4.2824 4.3652	4.0299 4.4711	4.1844 4.2378	5.2405 4.5876	Ave		4.2297			0.1000	12.0		20.0			
Bromobenzene	+++++ 0.8956 1.0001	1.0606 0.9926 0.9682	0.9330 1.0158	1.1146 0.9608	1.3226 1.0227	Ave		1.0260				11.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1,2,2-Tetrachloroethane	0.4621 0.7568 0.8000	0.7271 0.7514 0.7861	0.7270 0.7778	0.8778 0.7617	1.1011 0.8124	Lin1	-0.037	0.7905			0.2000	16.9			0.9980		0.9900
1,2,3-Trichloropropane	+++++ 0.2424 0.2502	0.2149 0.2419 0.2432	0.3027 0.2474	0.3018 0.2383	0.3612 0.2514	Ave		0.2632				15.9		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1869 0.2451	+++++ 0.1979 0.2515	+++++ 0.2182	0.1748 0.2224	0.2354 0.2383	Ave		0.2190				12.3		20.0			
n-Propylbenzene	3.6424 4.6676 5.1556	4.2381 5.0003 5.0015	4.5717 5.1574	4.7204 4.9373	6.1000 5.2950	Ave		4.8739				12.3		20.0			
2-Chlorotoluene	2.1335 2.6353 2.9057	2.7549 2.8339 2.8893	2.7873 2.9154	2.9115 2.8054	3.6591 3.0235	Ave		2.8546				11.9		20.0			
4-Chlorotoluene	2.4967 3.0655 3.5371	3.0903 3.3200 3.4606	3.1601 3.3872	3.5018 3.3194	4.3769 3.5968	Ave		3.3594				13.0		20.0			
1,3,5-Trimethylbenzene	2.4919 3.1599 3.5624	3.0811 3.3723 3.4868	3.1366 3.4915	3.3871 3.3514	4.3441 3.6381	Ave		3.3753				12.8		20.0			
tert-Butylbenzene	2.3674 2.7608 3.0337	2.6745 2.9492 2.9578	2.7769 3.0618	2.8288 2.8893	3.6986 3.1042	Ave		2.9253				10.8		20.0			
1,2,4-Trimethylbenzene	+++++ 3.1866 3.5513	3.0405 3.3885 3.4979	3.1741 3.5143	3.5148 3.3551	4.3685 3.6398	Ave		3.4756				10.0		20.0			
sec-Butylbenzene	3.0966 4.0242 4.4426	3.4147 4.2550 4.3244	4.0045 4.4311	3.8993 4.2208	5.2242 4.5844	Ave		4.1601				13.2		20.0			
1,3-Dichlorobenzene	1.3301 1.6883 1.8385	1.7456 1.7990 1.7936	1.7629 1.8398	2.0074 1.7659	2.4850 1.8751	Ave		1.8276			0.6000	14.3		20.0			
p-Isopropyltoluene	6.0061 6.7983 7.9631	6.4219 7.5187 7.6955	6.8170 7.7741	7.2043 7.6710	9.3612 8.0827	Ave		7.4428				11.9		20.0			
1,4-Dichlorobenzene	3.2049 3.4842 3.9320	3.8777 3.8122 3.8090	3.9065 3.8870	4.5031 3.8510	5.3967 3.9767	Ave		3.9701			0.5000	13.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2,3-Trimethylbenzene	5.2172 6.2882 7.4084	6.3985 6.9317 7.2885	6.5833 7.1731	7.6354 7.1546	9.4265 7.4680	Ave		7.0811				14.1		20.0			
Benzyl chloride	+++++ 0.4496 0.7214	+++++ 0.5912 0.7364	+++++ 0.6549	+++++ 0.6734	0.6143 0.7118	Ave		0.6441				14.6		20.0			
1,2-Dichlorobenzene	+++++ 3.2754 3.6747	3.2704 3.5755 3.5786	3.6962 3.6054	4.0261 3.5755	5.1124 3.7074	Ave		3.7361			0.4000	13.4		20.0			
n-Butylbenzene	+++++ 5.7908 6.9879	5.2194 6.5617 6.7797	5.8661 6.8567	6.0368 6.8160	8.0585 7.1149	Ave		6.5535				11.9		20.0			
1,2-Dibromo-3-chloropropane	+++++ 0.2042 0.2607	+++++ 0.2257 0.2716	0.1806 0.2407	0.1955 0.2541	0.2844 0.2610	Ave		0.2379			0.0500	14.7		20.0			
1,2,4-Trichlorobenzene	1.6967 2.0225 2.3533	2.0384 2.2469 2.2798	2.2128 2.3576	2.3570 2.3519	3.0441 2.4181	Ave		2.2816			0.2000	13.8		20.0			
1,3,5-Trichlorobenzene	+++++ 1.6390 1.9251	1.6321 1.8177 1.8409	1.8098 1.9143	2.0273 1.9299	2.4747 1.9534	Ave		1.9058				11.8		20.0			
Hexachlorobutadiene	+++++ 0.8207 0.9768	0.7983 0.9217 0.9222	0.8241 0.9759	0.8696 0.9611	1.1544 0.9851	Ave		0.9282				10.9		20.0			
Naphthalene	+++++ 3.8732 4.2015	3.3750 3.9827 4.0014	3.8456 4.1818	4.2599 4.1629	5.5616 4.2750	Ave		4.1564				12.8		20.0			
1,2,3-Trichlorobenzene	1.1127 1.3721 1.5371	1.4585 1.4788 1.4577	1.5238 1.5238	1.6290 1.5273	2.0641 1.5718	Ave		1.5214				14.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/3	c5865.D
Level 2	STD2 310-295162/4	c5866.D
Level 3	STD3 310-295162/5	c5867.D
Level 4	STD4 310-295162/6	c5868.D
Level 5	STD5 310-295162/7	c5869.D
Level 6	STD6 310-295162/8	c5870.D
Level 7	STD7 310-295162/9	c5871.D
Level 8	ICIS 310-295162/10	c5872.D
Level 9	STD9 310-295162/11	c5873.D
Level 10	STD10 310-295162/12	c5874.D
Level 11	STD11 310-295162/13	c5875.D
Level 12	STD12 310-295162/14	c5876.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Ethanol	FB	Ave	+++++ 12012 144217	+++++ 26155 289149	+++++ 54539	+++++ 86149	+++++ 119684	+++++ 800 10000	+++++ 2000 20000	+++++ 4000	+++++ 6000	+++++ 8000
Diethyl ether	FB	Ave	447 23923 384793	1058 63989 765976	2263 136339	6383 223212	13878 298566	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Acrolein	FB	Ave	+++++ 17231 266433	831 44935 538297	1550 94356	4378 154853	10425 206827	+++++ 95.2 1190	4.76 238 2380	9.52 476	23.8 714	47.6 952
1,1-Dichloroethene	FB	Ave	+++++ 29164 464156	1264 78968 903993	3005 169348	6520 267205	15058 366088	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,2-Trichlorotrifluoroethane	FB	Ave	+++++ 28999 485273	1013 78118 994689	2751 167783	5704 272172	16888 377961	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Acetone	FB	Lin1	+++++ 14137 225662	+++++ 35597 447694	+++++ 72721	5179 128729	10707 168271	+++++ 40.0 500	+++++ 100 1000	+++++ 200	10.0 300	20.0 400
Iodomethane	FB	Ave	+++++ 25632 387251	+++++ 76573 +++++	+++++ 177375	+++++ 264409	10561 326157	+++++ 20.0 250	+++++ 50.0 +++++	+++++ 100	+++++ 150	10.0 200
Carbon disulfide	FB	Ave	2079 84184 1378380	4177 231488 2730049	8279 500417	18910 794423	44513 1088335	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Isopropyl alcohol	FB	Ave	+++++	477	1343	3572	9087	+++++	10.0	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			15345 193100	33439 391322	72053	114198	156610	200 2500	500 5000	1000	1500	2000
Acetonitrile	FB	Ave	+++++ 26386 382505	1671 66605 756184	3001 136343	7279 229730	16111 298576	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Allyl chloride	FB	Ave	+++++ 19350 317309	709 48267 601341	1662 116896	4829 186082	8750 244182	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methyl acetate	FB	Ave	1158 36226 587283	2216 98353 1191325	3972 207296	10592 341651	21205 453391	1.00 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Methylene Chloride	FB	Ave	867 33290 508797	1929 87198 1002379	3549 184369	8724 297867	18831 400344	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
tert-Butanol	FB	Ave	+++++ 21035 266006	770 46928 543563	1897 100031	5421 158525	12445 217696	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Acrylonitrile	FB	Ave	1932 104876 1604328	4442 278089 3246937	9642 581014	27301 932977	61893 1248302	5.00 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
trans-1,2-Dichloroethene	FB	Ave	599 33939 544308	1517 92873 1076950	3122 199161	7449 320120	18453 427320	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methyl tert-butyl ether	FB	Ave	1414 75730 1263087	3470 208359 2588342	7098 441722	19744 721382	43605 971336	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Hexane	FB	Ave	837 49770 740402	1793 127364 1459703	4614 273746	9450 413206	25358 581122	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1-Dichloroethane	FB	Ave	1093 64654 1013362	2800 171356 2020287	5830 370988	15757 588499	33570 798918	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Vinyl acetate	FB	Ave	+++++ 12154 209497	509 33401 420294	827 74802	2864 120034	6923 161865	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Chloroprene	FB	Ave	+++++ 61831 1017778	2284 162736 2116590	5395 357917	12392 570674	31634 787903	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Di-isopropyl ether (DIPE)	FB	Ave	599 31277 484165	1231 84398 970817	2764 174705	7895 285228	18147 371279	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
tert-Butyl ethyl ether	FB	Ave	1693 99532 1610503	4334 262448 3278675	8853 564903	24453 920936	55757 1235473	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2,2-Dichloropropane	FB	Ave	+++++ 48085 826438	+++++ 132455 1737091	3745 289710	10319 467030	25347 636194	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
cis-1,2-Dichloroethene	FB	Ave	671 40484 599338	1787 105556 1190436	3440 224357	9661 356748	21569 475897	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Butanone (MEK)	FB	Ave	+++++ 24606 343182	1168 57256 682199	2380 123300	6634 201245	14915 270827	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Propionitrile	FB	Ave	+++++ 43014 592518	1738 104790 1208385	3859 217461	11076 351145	26561 470953	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Ethyl acetate	FB	Ave	+++++ 9336 153061	345 22941 329929	879 53714	2477 82353	5113 111574	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Methacrylonitrile	FB	Ave	+++++ 123577 1838957	5227 320400 3737625	10885 664416	31501 1065799	74057 1427644	+++++ 200 2500	10.0 500 5000	20.0 1000	50.0 1500	100 2000
Bromochloromethane	FB	Ave	+++++ 17152 220182	760 45286 437534	1461 90073	4409 136698	9461 176667	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Tetrahydrofuran	FB	Ave	+++++ 5606 84674	+++++ 14966 177100	511 30348	1396 50732	3494 66548	+++++ 40.0 500	+++++ 100 1000	4.00 200	10.0 300	20.0 400
Chloroform	FB	Ave	+++++ 61875 961757	3636 163959 1934707	7208 351967	16264 556220	34663 754824	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,1-Trichloroethane	FB	Ave	+++++ 54474 897749	1992 144945 1853831	4719 319797	11030 507413	28987 696226	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Cyclohexane	FB	Ave	+++++ 66512 1043474	2425 176929 2156428	6084 373121	12890 586722	35003 814904	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Carbon tetrachloride	FB	Ave	+++++ 45100 770898	+++++ 124328 1646053	3858 272324	8797 437207	23843 603475	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
1,1-Dichloropropene	FB	Ave	+++++ 52748	2018 136208	4755 288977	11010 463519	27371 626437	+++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			798317	1628010				250	500			
Isobutyl alcohol	FB	Ave	+++++ 27699 364011	1045 63711 747062	2633 133992	6523 216458	16344 291625	+++++ 500 6250	25.0 1250 12500	50.0 2500	125 3750	250 5000
Benzene	FB	Ave	2756 155947 2317477	6512 401953 4666102	13950 857100	35933 1353344	82804 1828665	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dichloroethane	FB	Ave	814 46150 736768	2311 121762 1515161	4506 259608	11747 416961	27388 567476	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
n-Butanol	FB	Ave	664 39188 571159	1411 101015 1155461	3758 215916	7175 327034	20725 447648	12.5 500 6250	25.0 1250 12500	50.0 2500	125 3750	250 5000
tert-Amyl methyl ether	FB	Ave	+++++ 88451 1375681	3635 231676 2860395	7709 493216	22745 797639	51294 1068336	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Heptane	FB	Ave	1085 50002 715764	1932 125772 1429890	4603 265129	9133 409601	25241 564880	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Trichloroethene	FB	Ave	671 39505 607159	1616 103662 1228959	3713 217976	8767 345027	21376 470196	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Ethyl acrylate	FB	Ave	622 36085 570579	1466 94097 1192229	3067 200154	9456 330069	22470 440304	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methylcyclohexane	FB	Ave	1233 67334 982937	2707 172955 1994384	5910 368808	12217 561404	35629 774861	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dichloropropane	FB	Ave	630 37550 569883	1725 96515 1159412	3164 206428	9118 329863	20545 449040	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Dibromomethane	FB	Ave	+++++ 19559 278956	861 50926 530577	1808 108431	4879 171460	11516 224693	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Methyl methacrylate	FB	Ave	+++++ 41993 633981	1608 106838 1296121	3512 225693	10454 369629	25644 490835	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Dichlorobromomethane	FB	Ave	799 41469 727919	1927 116297 1493680	3699 254937	10458 411966	24223 561520	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Nitropropane	FB	Ave	+++++	+++++	+++++	2682	6934	+++++	+++++	+++++	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			12034 +++++	34658 +++++	83296	+++++	+++++	40.0 +++++	100 +++++	200	+++++	+++++
2-Chloroethyl vinyl ether	FB	Ave	+++++ 19499 320975	750 53569 655456	1591 113588	5133 186190	11751 247569	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
cis-1,3-Dichloropropene	FB	Ave	805 53096 902811	1841 149104 1837353	3907 320494	12398 519632	30524 707454	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 57389 824007	2190 140519 1694170	4825 291062	14634 478227	37062 640642	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Toluene	FB	Ave	1962 102944 1538700	4514 270263 3100949	9615 575198	25051 908469	59158 1205515	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
trans-1,3-Dichloropropene	FB	Lin1	651 46768 +++++	1546 131564 +++++	3403 287350	10540 469028	27921 +++++	0.500 20.0 +++++	1.00 50.0 +++++	2.00 100	5.00 150	10.0 +++++
Ethyl methacrylate	FB	Ave	+++++ 38591 611318	1652 101807 1252335	3164 217634	9658 351773	24877 476733	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,2-Trichloroethane	FB	Ave	368 25070 373824	966 64494 755043	2116 137753	6736 218875	15716 294668	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Tetrachloroethene	FB	Ave	804 45271 621264	1850 116227 1237748	4042 243474	9753 374289	23418 498635	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3-Dichloropropane	FB	Ave	877 51539 783956	2326 138017 1574200	4885 288225	13950 463989	32211 614765	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Hexanone	FB	Ave	+++++ 38798 541233	1326 92086 1114548	3180 192696	9374 315901	24213 420569	+++++ 40.0 500	2.00 100 1000	4.00 200	10.0 300	20.0 400
Chlorodibromomethane	FB	Ave	+++++ 30929 529757	1184 85925 1068212	2403 190332	7339 307574	18543 413885	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
n-Butyl acetate	FB	Ave	+++++ 49151 700054	+++++ 120393 1440031	3928 251591	12046 407719	30650 541266	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dibromoethane (EDB)	FB	Ave	+++++ 30367 451068	1138 79261 905817	2351 168707	7745 270235	18430 356689	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chlorobenzene	CBNZd5	Ave	1937 111261 1577563	5797 289226 3151533	9914 602850	29009 937906	68339 1253361	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 34891 546096	1203 95306 1096544	2826 203777	8766 324315	22255 430882	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Ethylbenzene	CBNZd5	Ave	3560 201060 2901779	8228 520303 5818033	17799 1094090	46529 1726342	114457 2302794	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
m,p-Xylene	CBNZd5	Ave	1462 77730 1116451	3204 201025 2235485	6822 425486	18231 665198	45812 881949	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
o-Xylene	CBNZd5	Ave	1138 73542 1063985	3347 192378 2145850	6560 400141	18126 626337	44010 844682	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Styrene	CBNZd5	Ave	1992 122940 1820064	4846 319407 3655260	9675 674858	30342 1066367	74982 1435489	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Bromoform	CBNZd5	Ave	+++++ 16686 305575	+++++ 46626 643252	+++++ 108385	3525 176253	10424 240686	+++++ 20.0 250	+++++ 50.0 500	+++++ 100	5.00 150	10.0 200
Isopropylbenzene	CBNZd5	Ave	3312 195179 2818535	7726 506065 5652838	16669 1072001	44416 1671006	111982 2251337	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Bromobenzene	CBNZd5	Ave	+++++ 43949 627734	2191 117293 1253773	3859 243560	11831 378854	28261 501867	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,1,2,2-Tetrachloroethane	CBNZd5	Lin1	486 37137 502162	1502 88795 1017959	3007 186481	9318 300355	23528 398669	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,3-Trichloropropane	CBNZd5	Ave	+++++	444	1252	3204	7718	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			11895 157048	28589 314907	59328	93956	123377	20.0 250	50.0 500	100	150	200
trans-1,4-Dichloro-2-butene	CBNZd5	Ave	+++++ 9173 153844	+++++ 23391 325722	+++++ 52313	1855 87699	5031 116968	+++++ 20.0 250	+++++ 50.0 500	+++++ 100	5.00 150	10.0 200
n-Propylbenzene	CBNZd5	Ave	3831 229040 3236015	8755 590896 6476857	18910 1236556	50105 1946827	130348 2598529	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
2-Chlorotoluene	CBNZd5	Ave	2244 129314 1823817	5691 334892 3741652	11529 698997	30904 1106175	78189 1483757	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
4-Chlorotoluene	CBNZd5	Ave	2626 150423 2220113	6384 392335 4481390	13071 812123	37170 1308877	93528 1765116	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3,5-Trimethylbenzene	CBNZd5	Ave	2621 155060 2236003	6365 398516 4515326	12974 837133	35953 1321492	92826 1785375	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
tert-Butylbenzene	CBNZd5	Ave	2490 135472 1904173	5525 348509 3830382	11486 734102	30027 1139275	79033 1523388	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,4-Trimethylbenzene	CBNZd5	Ave	+++++ 156367 2229026	6281 400430 4529742	13129 842589	37308 1322936	93347 1786213	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
sec-Butylbenzene	CBNZd5	Ave	3257 197468 2788442	7054 502827 5600030	16564 1062415	41390 1664286	111633 2249763	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3-Dichlorobenzene	CBNZd5	Ave	1399 82846 1153950	3606 212595 2322712	7292 441110	21308 696302	53101 920200	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
p-Isopropyltoluene	DCBd4	Ave	2931 164844 2343928	6323 420087 4701903	13327 886323	36080 1385446	95136 1876962	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dichlorobenzene	DCBd4	Ave	1564 84486 1157395	3818 212997 2327243	7637 443152	22552 695523	54846 923470	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,3-Trimethylbenzene	DCBd4	Ave	2546 152476 2180658	6300 387286 4453213	12870 817804	38239 1292178	95800 1734226	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Benzyl chloride	DCBd4	Ave	+++++ 10901 212334	+++++ 33030 449904	+++++ 74667	+++++ 121624	6243 165299	+++++ 20.0 250	+++++ 50.0 500	+++++ 100	+++++ 150	10.0 200
1,2-Dichlorobenzene	DCBd4	Ave	+++++ 79423 1081640	3220 199770 2186474	7226 411046	20163 645769	51956 860941	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
n-Butylbenzene	DCBd4	Ave	+++++ 140416 2056899	5139 366616 4142334	11468 781733	30233 1231038	81897 1652224	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2-Dibromo-3-chloropropane	DCBd4	Ave	+++++ 4952 76750	+++++ 12612 165970	353 27437	979 45896	2890 60609	+++++ 20.0 250	+++++ 50.0 500	2.00 100	5.00 150	10.0 200
1,2,4-Trichlorobenzene	DCBd4	Ave	828 49042 692684	2007 125538 1392929	4326 268789	11804 424780	30937 561538	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,3,5-Trichlorobenzene	DCBd4	Ave	+++++ 39742 566644	1607 101560 1124797	3538 218247	10153 348565	25150 453613	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Hexachlorobutadiene	DCBd4	Ave	+++++ 19900 287521	786 51495 563478	1611 111264	4355 173590	11732 228752	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
Naphthalene	DCBd4	Ave	+++++ 93917 1236700	3323 222523 2444812	7518 476762	21334 751860	56521 992752	+++++ 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200
1,2,3-Trichlorobenzene	DCBd4	Ave	543 33271 452443	1436 82621 890617	2979 173729	8158 275840	20977 364999	0.500 20.0 250	1.00 50.0 500	2.00 100	5.00 150	10.0 200

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/3	c5865.D
Level 2	STD2 310-295162/4	c5866.D
Level 3	STD3 310-295162/5	c5867.D
Level 4	STD4 310-295162/6	c5868.D
Level 5	STD5 310-295162/7	c5869.D
Level 6	STD6 310-295162/8	c5870.D
Level 7	STD7 310-295162/9	c5871.D
Level 8	ICIS 310-295162/10	c5872.D
Level 9	STD9 310-295162/11	c5873.D
Level 10	STD10 310-295162/12	c5874.D
Level 11	STD11 310-295162/13	c5875.D
Level 12	STD12 310-295162/14	c5876.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Ethanol	+++++	+++++	+++++	+++++	+++++	8.3						40
Diethyl ether	-23.4						40					
Acrolein	+++++	1.1						40				
1,1-Dichloroethene	+++++	-8.5						40				
1,1,2-Trichlorotrifluoroethane	+++++	-26.1						40				
Acetone	+++++	+++++	+++++	10.3						40		
Iodomethane	+++++	+++++	+++++	+++++	-22.1	+++++					40	
Carbon disulfide	-1.0						40					
Isopropyl alcohol	+++++	-24.6						40				
Acetonitrile	+++++	28.8						40				
Allyl chloride	+++++	-20.6						40				
Methyl acetate	18.8						40					
Methylene Chloride	3.2						40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
tert-Butanol	+++++	-14.0						40				
Acrylonitrile	-22.5						40					
trans-1,2-Dichloroethene	-26.0						40					
Methyl tert-butyl ether	-24.7						40					
Hexane	-23.8						40					
1,1-Dichloroethane	-28.0						40					
Vinyl acetate	+++++	-13.1						40				
Chloroprene	+++++	-20.1						40				
Di-isopropyl ether (DIPE)	-19.0						40					
tert-Butyl ethyl ether	-28.7						40					
2,2-Dichloropropane	+++++	+++++	-20.6						40			
cis-1,2-Dichloroethene	-27.6						40					
2-Butanone (MEK)	+++++	3.8						40				
Propionitrile	+++++	-9.9						40				
Ethyl acetate	+++++	-21.9						40				
Methacrylonitrile	+++++	-8.7						40				
Bromochloromethane	+++++	0.8						40				
Tetrahydrofuran	+++++	+++++	-5.7						40			
Chloroform	+++++	17.6						40				
1,1,1-Trichloroethane	+++++	-21.4						40				
Cyclohexane	+++++	-19.8						40				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Carbon tetrachloride	+++++	+++++	-13.0						40			
1,1-Dichloropropene	+++++	-14.9						40				
Isobutyl alcohol	+++++	-12.6						40				
Benzene	-22.7						40					
1,2-Dichloroethane	-27.8						40					
n-Butanol	-23.4						40					
tert-Amyl methyl ether	+++++	-12.8						40				
Heptane	-2.1						40					
Trichloroethene	-26.4						40					
Ethyl acrylate	-27.8						40					
Methylcyclohexane	-17.6						40					
1,2-Dichloropropane	-27.6						40					
Dibromomethane	+++++	-4.4						40				
Methyl methacrylate	+++++	-16.7						40				
Dichlorobromomethane	-24.0						40					
2-Nitropropane	+++++	+++++	+++++ +++++	-14.6 +++++	+++++	+++++				40		
2-Chloroethyl vinyl ether	+++++	-20.2						40				
cis-1,3-Dichloropropene	-36.1						40					
4-Methyl-2-pentanone (MIBK)	+++++	-15.5						40				
Toluene	-19.1						40					
trans-1,3-Dichloropropene	25.3			+++++	+++++	+++++	40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Ethyl methacrylate	+++++	-10.4						40				
1,1,2-Trichloroethane	-36.4						40					
Tetrachloroethene	-19.5						40					
1,3-Dichloropropane	-29.3						40					
2-Hexanone	+++++	-21.7						40				
Chlorodibromomethane	+++++	-21.3						40				
n-Butyl acetate	+++++	+++++	-12.5						40			
1,2-Dibromoethane (EDB)	+++++	-18.1						40				
Chlorobenzene	-26.5						40					
1,1,1,2-Tetrachloroethane	+++++	-28.2						40				
Ethylbenzene	-22.9						40					
m,p-Xylene	-18.6						40					
o-Xylene	-33.5						40					
Styrene	-29.7						40					
Bromoform	+++++	+++++	+++++	-23.9						40		
Isopropylbenzene	-25.6						40					
Bromobenzene	+++++	3.4						40				
1,1,2,2-Tetrachloroethane	-32.2						40					
1,2,3-Trichloropropane	+++++	-18.3						40				
trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	-20.2						40		
n-Propylbenzene	-25.3						40					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/13/2020 08:16 Calibration End Date: 10/13/2020 12:43 Calibration ID: 16861

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
2-Chlorotoluene	-25.3						40					
4-Chlorotoluene	-25.7						40					
1,3,5-Trimethylbenzene	-26.2						40					
tert-Butylbenzene	-19.1						40					
1,2,4-Trimethylbenzene	+++++	-12.5						40				
sec-Butylbenzene	-25.6						40					
1,3-Dichlorobenzene	-27.2						40					
p-Isopropyltoluene	-19.3						40					
1,4-Dichlorobenzene	-19.3						40					
1,2,3-Trimethylbenzene	-26.3						40					
Benzyl chloride	+++++	+++++	+++++	+++++	-4.6						40	
1,2-Dichlorobenzene	+++++	-12.5						40				
n-Butylbenzene	+++++	-20.4						40				
1,2-Dibromo-3-chloropropane	+++++	+++++	-24.1						40			
1,2,4-Trichlorobenzene	-25.6						40					
1,3,5-Trichlorobenzene	+++++	-14.4						40				
Hexachlorobutadiene	+++++	-14.0						40				
Naphthalene	+++++	-18.8						40				
1,2,3-Trichlorobenzene	-26.9						40					

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Oct-2020 08:16:30 ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:25:42 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:12:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	137980	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	4669	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	105179	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	48800	50.0	50.0	
17 Ethanol	45	2.391	2.373	0.018	20	174	20.0	14.5	M
18 Ethyl ether	59	2.452	2.452	0.000	84	447	0.5000	0.3832	
19 Acrolein	56	2.556	2.550	0.006	4	142	2.38	0.8002	a
20 1,1-Dichloroethene	96	2.659	2.647	0.012	37	202	0.5000	0.1423	M
21 112TCTFE	101	2.659	2.666	-0.007	13	432	0.5000	0.3067	
22 Acetone	43	2.714	2.708	0.006	20	911	1.00	-0.7867	Ma
24 Carbon disulfide	76	2.830	2.836	-0.006	63	2079	0.5000	0.4948	M
105 Isopropyl alcohol	45	2.879	2.891	-0.012	21	139	5.00	2.14	M
118 Acetonitrile	40	2.970	2.971	-0.001	67	918	5.00	6.89	M
25 3-Chloro-1-propene	76	3.013	3.001	0.012	1	84	0.5000	0.0916	M
26 Methyl acetate	43	3.037	3.031	0.006	31	1158	1.00	1.19	M
27 Methylene Chloride	84	3.111	3.105	0.006	92	867	0.5000	0.5160	
23 Iodomethane	142		3.153				ND	ND	
35 2-Methyl-2-propanol	59	3.257	3.263	-0.006	6	316	5.00	3.43	M
30 Acrylonitrile	53	3.342	3.342	0.000	93	1932	5.00	3.88	M
28 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	95	599	0.5000	0.3700	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	1414	0.5000	0.3765	
31 Hexane	57	3.647	3.641	0.006	87	837	0.5000	0.3812	
32 1,1-Dichloroethane	63	3.763	3.775	-0.012	1	1093	0.5000	0.3599	M
33 Vinyl acetate	86	3.836	3.842	-0.006	97	191	1.00	0.6351	M
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	88	997	0.5000	0.3395	
36 Isopropyl ether	87	3.873	3.867	0.006	84	599	0.5000	0.4051	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	97	1693	0.5000	0.3566	
39 cis-1,2-Dichloroethene	96	4.330	4.312	0.018	82	671	0.5000	0.3622	M
38 2,2-Dichloropropane	77	4.318	4.318	0.000	73	863	0.5000	0.3602	a
40 2-Butanone (MEK)	43	4.348	4.348	0.000	31	373	1.00	0.6453	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	87	578	5.00	2.92	a
104 Ethyl acetate	61	4.415	4.415	0.000	23	42	1.00	0.1851	M
43 Methacrylonitrile	67	4.537	4.543	-0.006	88	1993	5.00	3.39	
42 Chlorobromomethane	128	4.537	4.543	-0.006	44	208	0.5000	0.2687	
44 Tetrahydrofuran	71		4.598				ND	ND	
45 Chloroform	83	4.622	4.635	-0.013	94	2393	0.5000	0.7535	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	90	877	0.5000	0.3369	
47 Cyclohexane	56	4.842	4.848	-0.006	90	966	0.5000	0.3112	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	74	613	0.5000	0.2722	
49 1,1-Dichloropropene	75	4.952	4.958	-0.006	80	799	0.5000	0.3279	
108 Isobutyl alcohol	43	5.110	5.117	-0.006	29	331	12.5	6.73	M
50 Benzene	78	5.153	5.153	0.000	96	2756	0.5000	0.3865	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	89	814	0.5000	0.3608	M
116 n-Butanol	56	5.256	5.257	-0.001	31	664	12.5	9.58	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	92	1435	0.5000	0.3353	
53 n-Heptane	43	5.445	5.446	-0.001	90	1085	0.5000	0.4895	a
54 Trichloroethene	95	5.793	5.793	0.000	89	671	0.5000	0.3682	
117 Ethyl acrylate	55	5.915	5.927	-0.012	91	622	0.5000	0.3611	Ma
114 Methylcyclohexane	83	5.982	5.988	-0.006	79	1233	0.5000	0.4120	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	86	630	0.5000	0.3618	
56 Dibromomethane	93	6.122	6.122	0.000	26	315	0.5000	0.3405	a
57 Methyl methacrylate	69	6.153	6.153	0.000	91	566	1.00	0.5712	
115 1,4-Dioxane	58		6.159				ND	ND	
58 Dichlorobromomethane	83	6.287	6.287	0.000	91	799	0.5000	0.3800	
106 2-Nitropropane	43	6.525	6.519	0.005	60	238	1.00	0.7792	M
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	1	225	0.5000	0.2329	a
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	92	805	0.5000	0.3197	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	90	714	1.00	0.5366	a
62 Toluene	92	7.098	7.098	0.000	97	1962	0.5000	0.4046	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	82	651	0.5000	0.6264	a
64 Ethyl methacrylate	69	7.463	7.458	0.005	84	546	0.5000	0.2883	a
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	78	368	0.5000	0.3179	
66 Tetrachloroethene	166	7.683	7.677	0.006	0	804	0.5000	0.4026	a
67 1,3-Dichloropropane	76	7.695	7.701	-0.006	86	877	0.5000	0.3535	
68 2-Hexanone	43	7.817	7.817	0.000	11	426	1.00	0.4899	M
69 Chlorodibromomethane	129	7.933	7.939	-0.006	1	417	0.5000	0.2699	M
109 n-Butyl acetate	43	7.975	7.970	0.005	36	766	0.5000	0.3362	M
70 Ethylene Dibromide	107	8.049	8.049	0.000	77	434	0.5000	0.3041	M
71 Chlorobenzene	112	8.603	8.610	-0.007	95	1937	0.5000	0.3673	a
72 1,1,1,2-Tetrachloroethane	131	8.701	8.707	-0.006	83	473	0.5000	0.2774	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	97	1462	0.5000	0.4068	a
73 Ethylbenzene	91	8.750	8.884	-0.134	95	3560	0.5000	0.3856	a
75 o-Xylene	106	9.323	9.317	0.006	97	1138	0.5000	0.3327	
76 Styrene	104	9.341	9.341	0.000	90	1992	0.5000	0.3516	
77 Bromoform	173	9.530	9.530	0.000	1	111	0.5000	0.1209	a
78 Isopropylbenzene	105	9.756	9.762	-0.006	94	3312	0.5000	0.3722	
79 Bromobenzene	156	10.073	10.085	-0.012	91	691	0.5000	0.3201	
80 1,1,2,2-Tetrachloroethane	83	10.091	10.097	-0.006	83	486	0.5000	0.3391	a
81 1,2,3-Trichloropropane	110	10.146	10.146	0.000	1	149	0.5000	0.2691	M
82 trans-1,4-Dichloro-2-butene	53		10.164				ND	ND	
83 N-Propylbenzene	91	10.237	10.237	0.000	95	3831	0.5000	0.3737	
84 2-Chlorotoluene	91	10.316	10.317	-0.001	93	2244	0.5000	0.3737	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	97	2626	0.5000	0.3716	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	79	2621	0.5000	0.3691	
87 tert-Butylbenzene	119	10.829	10.829	0.000	92	2490	0.5000	0.4046	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	94	2405	0.5000	0.3290	
89 sec-Butylbenzene	105	11.091	11.091	0.000	93	3257	0.5000	0.3722	
90 1,3-Dichlorobenzene	146	11.194	11.188	0.006	93	1399	0.5000	0.3639	
91 4-Isopropyltoluene	119	11.280	11.268	0.012	66	2931	0.5000	0.4035	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	94	2546	0.5000	0.3684	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	91	1564	0.5000	0.4036	a
113 Benzyl chloride	126		11.463				ND	ND	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	90	1151	0.5000	0.3156	
94 n-Butylbenzene	91	11.761	11.761	0.000	85	2104	0.5000	0.3289	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	ND	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	87	828	0.5000	0.3718	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	90	601	0.5000	0.3231	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	1	268	0.5000	0.2958	M
98 Naphthalene	128	13.974	13.974	0.000	90	1361	0.5000	0.3355	a
99 1,2,3-Trichlorobenzene	180	14.273	14.279	-0.006	1	543	0.5000	0.3657	a
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		1.00	0.7321	
S 102 1,3-Dichloropropene, Total	1				0		1.00	0.9462	
S 100 Xylenes, Total	1				0		1.00	0.7395	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

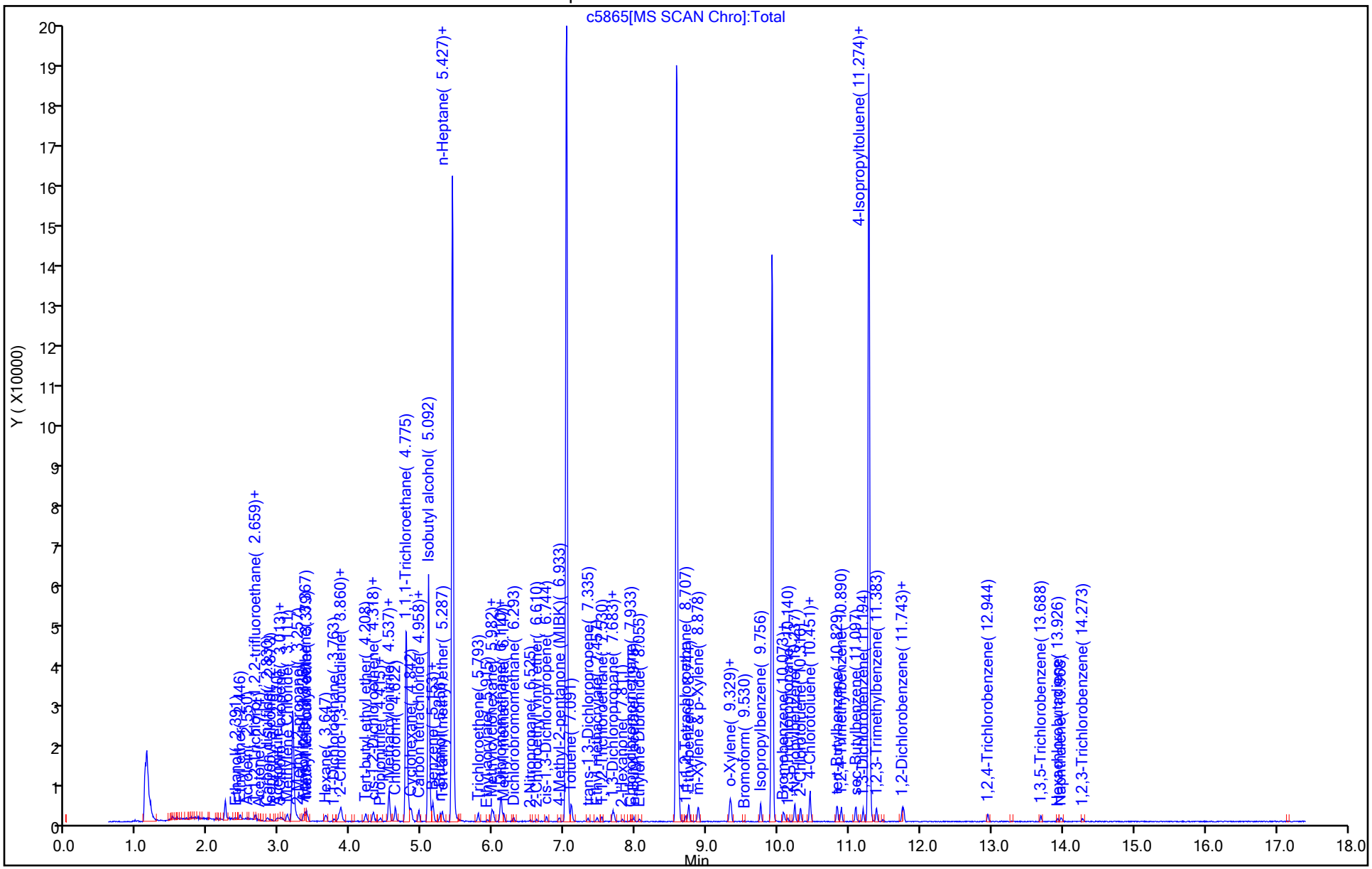
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	0.50	Units: uL

Report Date: 13-Oct-2020 18:25:44 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D

Injection Date:	13-Oct-2020 08:16:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

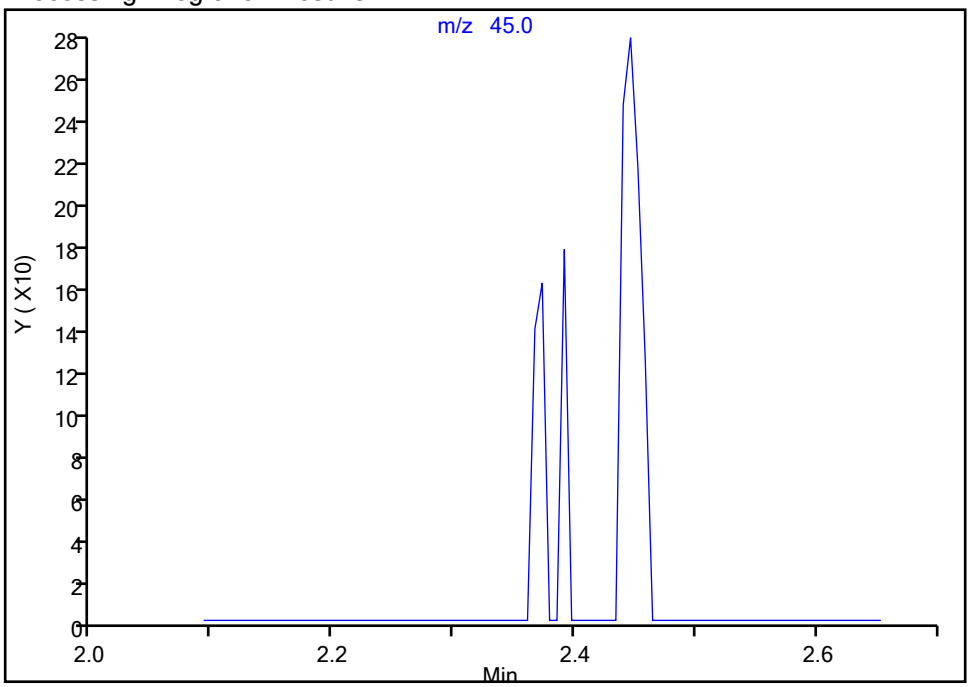
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

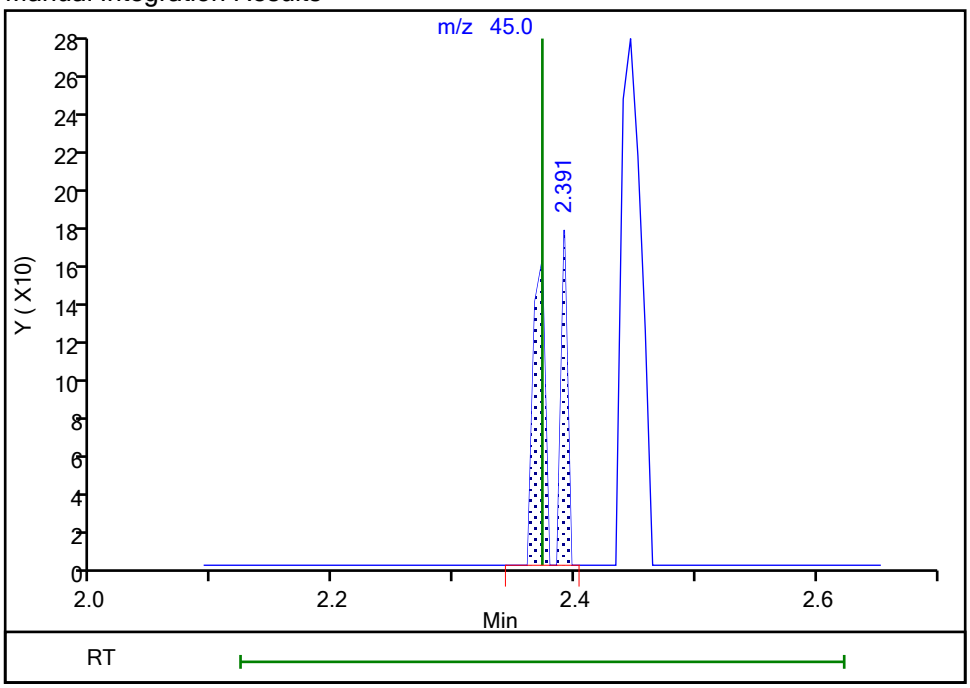
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.39
Area: 174
Amount: 14.501073
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:03
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

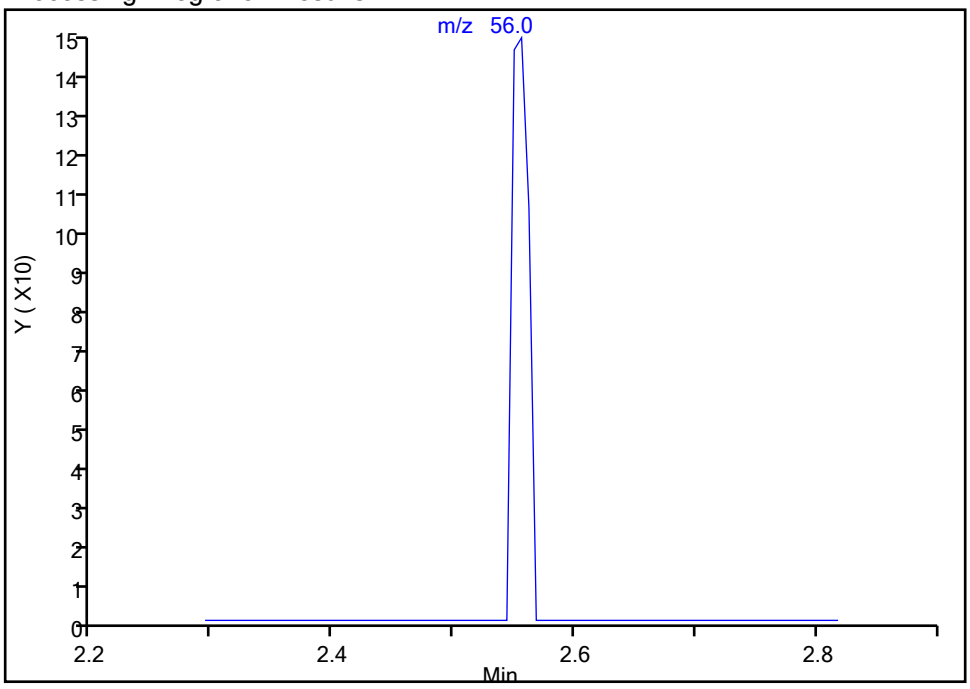
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

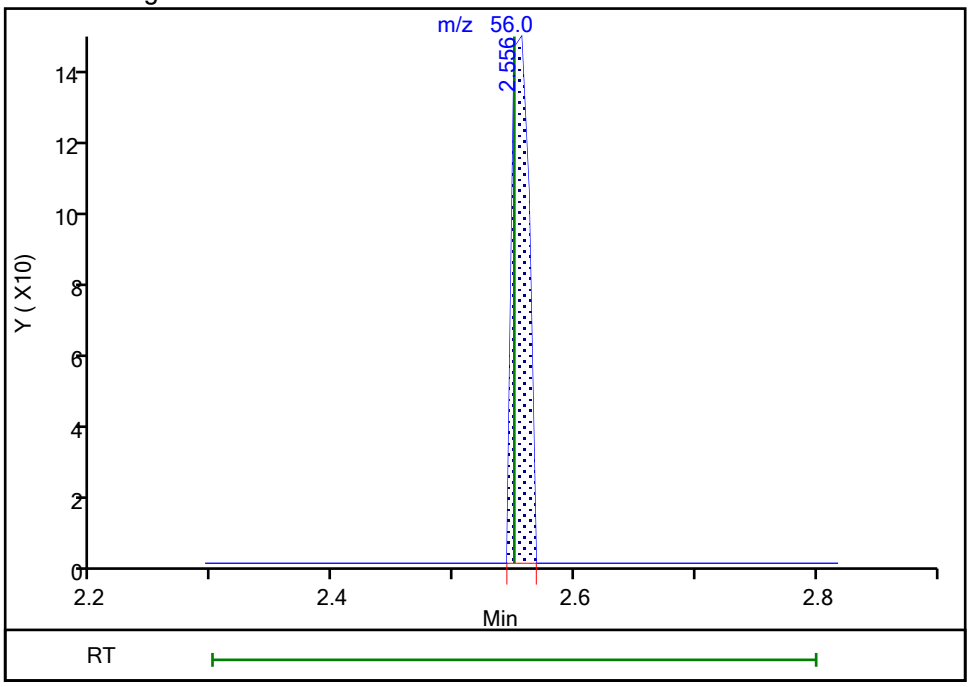
Not Detected
Expected RT: 2.55

Processing Integration Results



Manual Integration Results

RT: 2.56
Area: 142
Amount: 0.800239
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:12
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

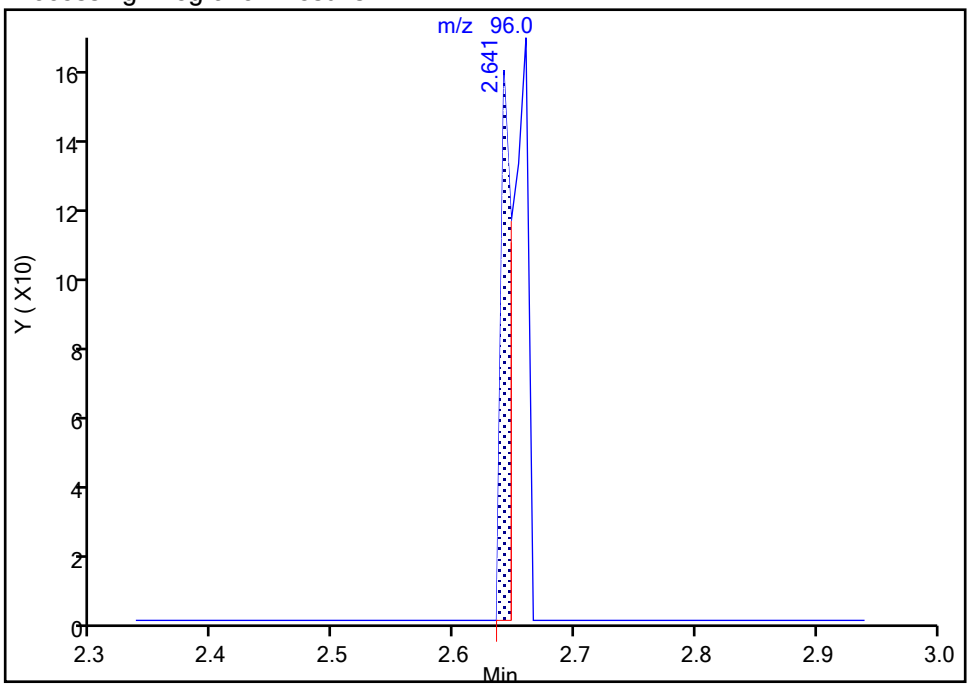
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

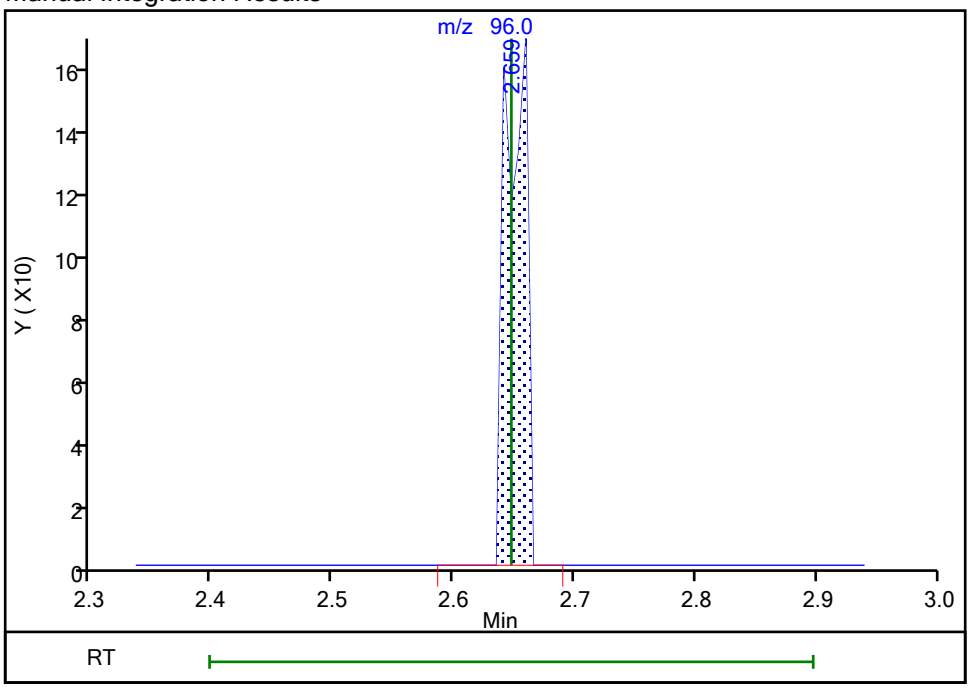
Processing Integration Results

RT: 2.64
Area: 96
Amount: 0.521048
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 202
Amount: 0.142320
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:19
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

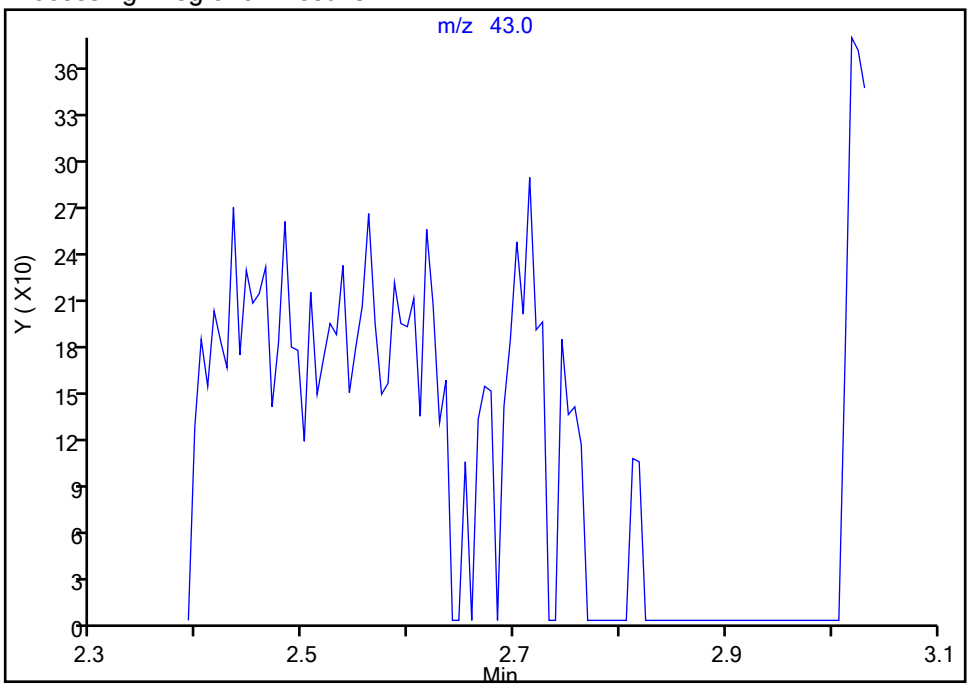
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

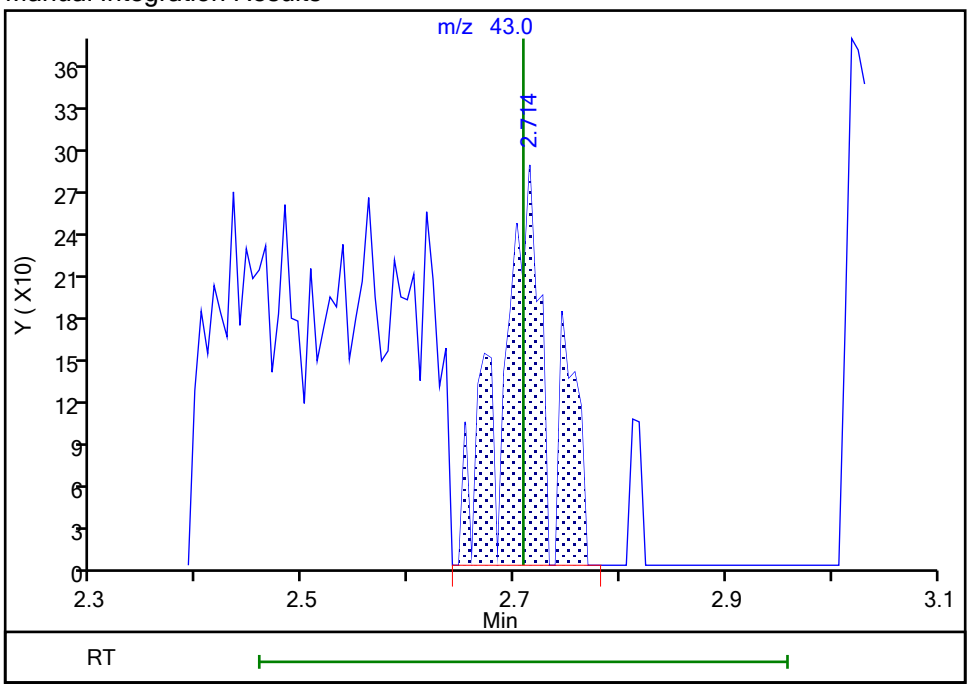
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 911
Amount: -0.786674
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:03:49
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

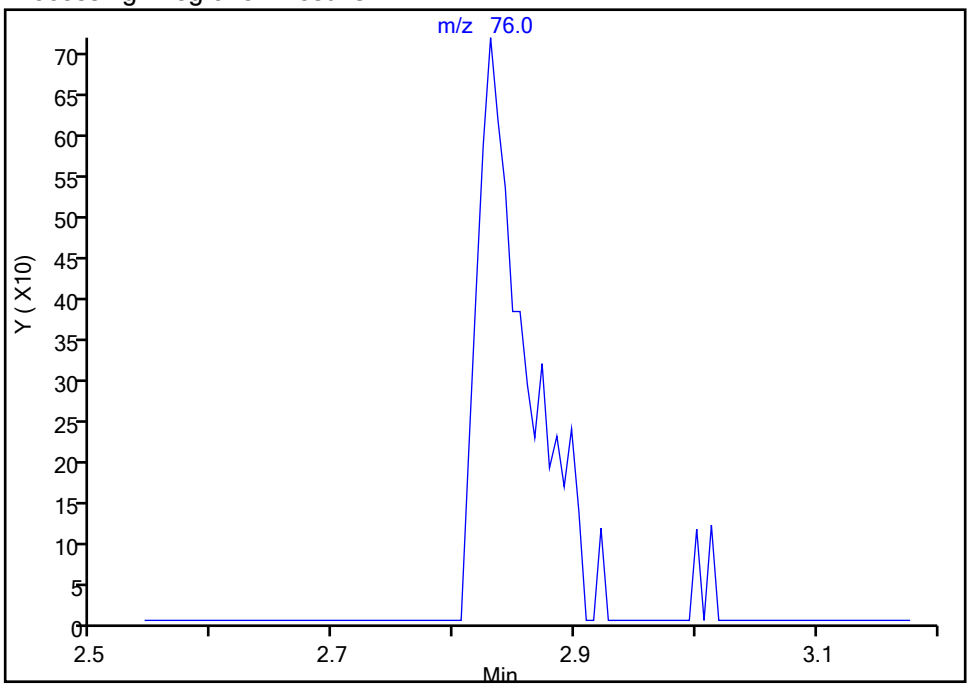
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

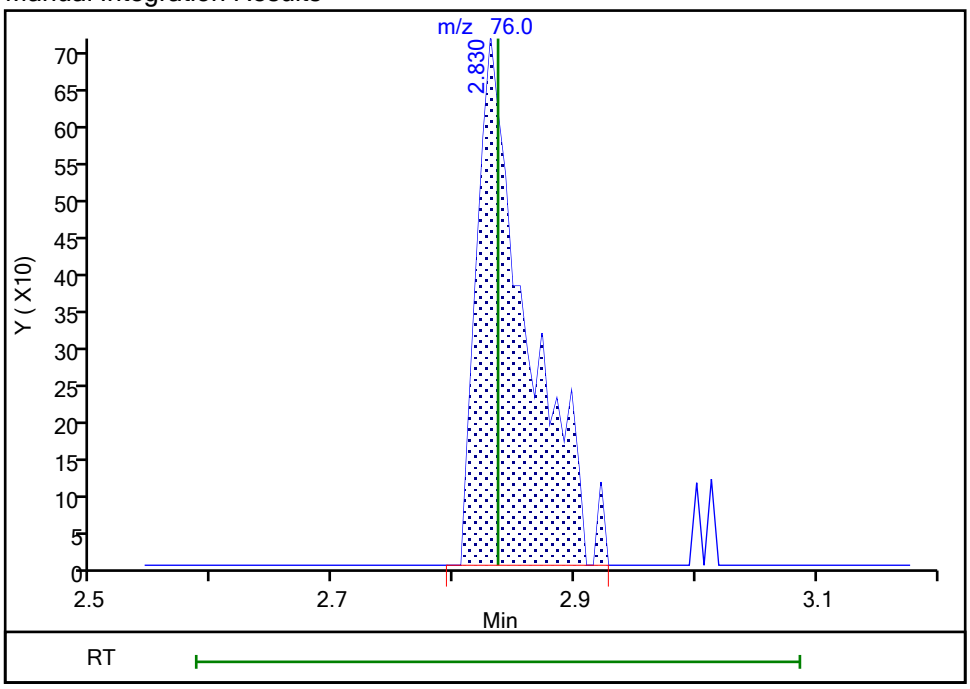
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.83
Area: 2079
Amount: 0.494761
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:01
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

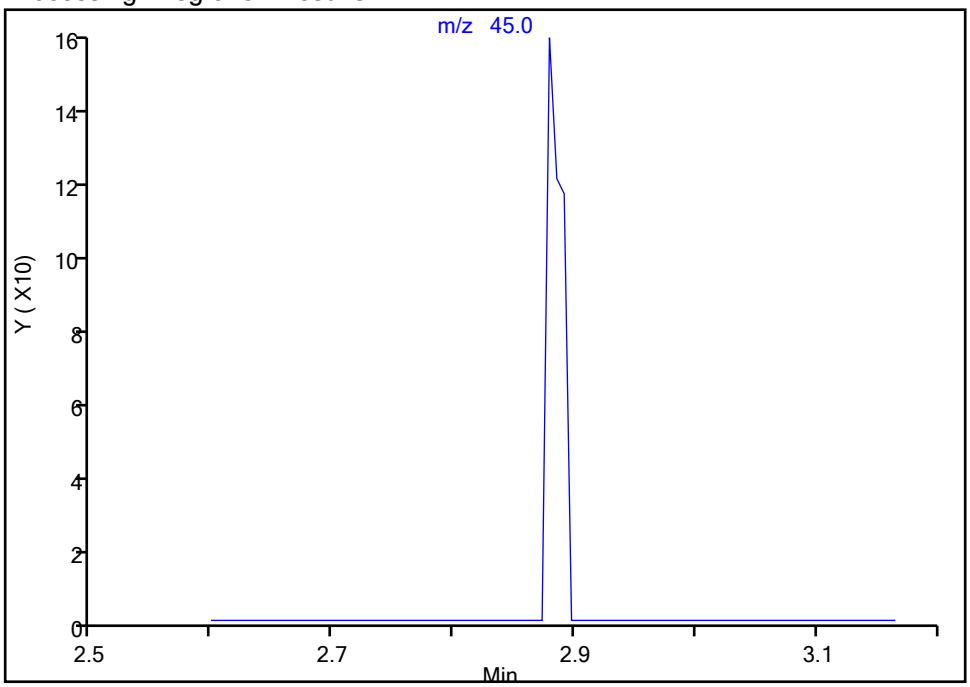
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

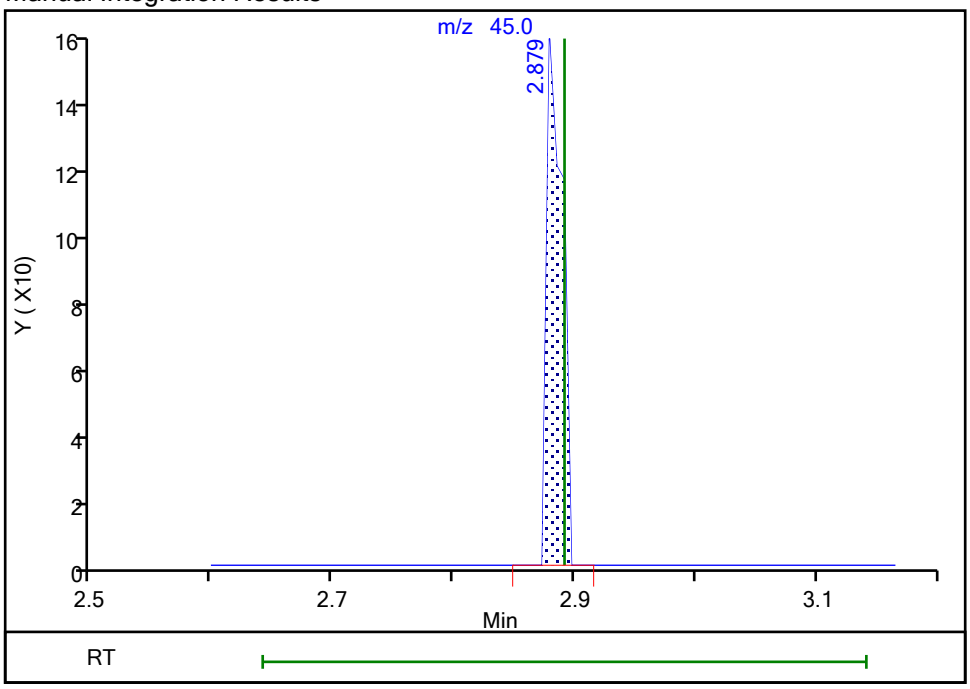
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.88
Area: 139
Amount: 2.137893
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:07
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

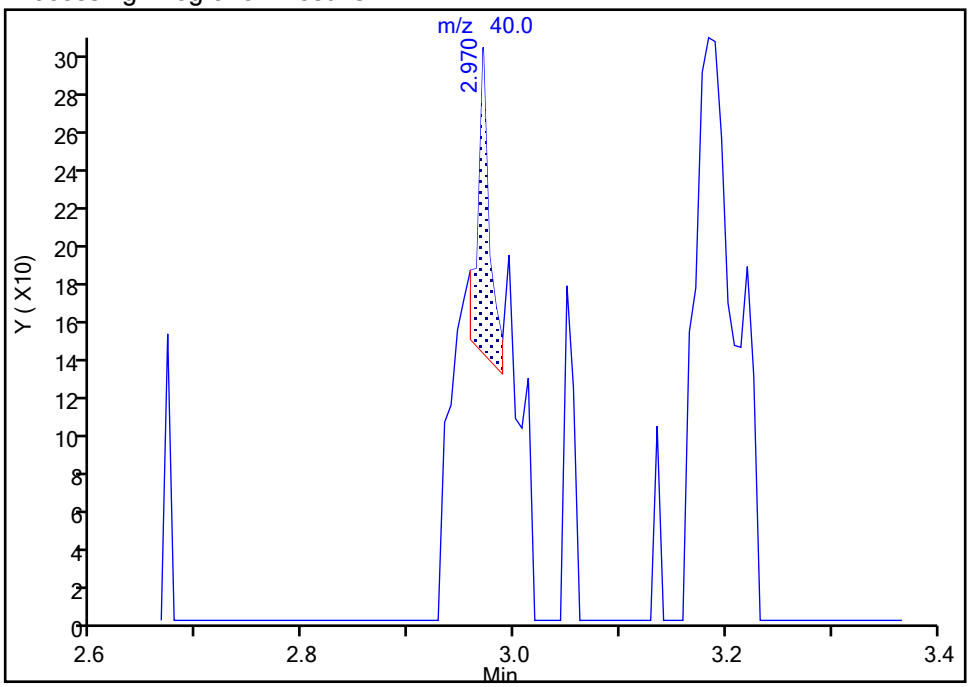
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

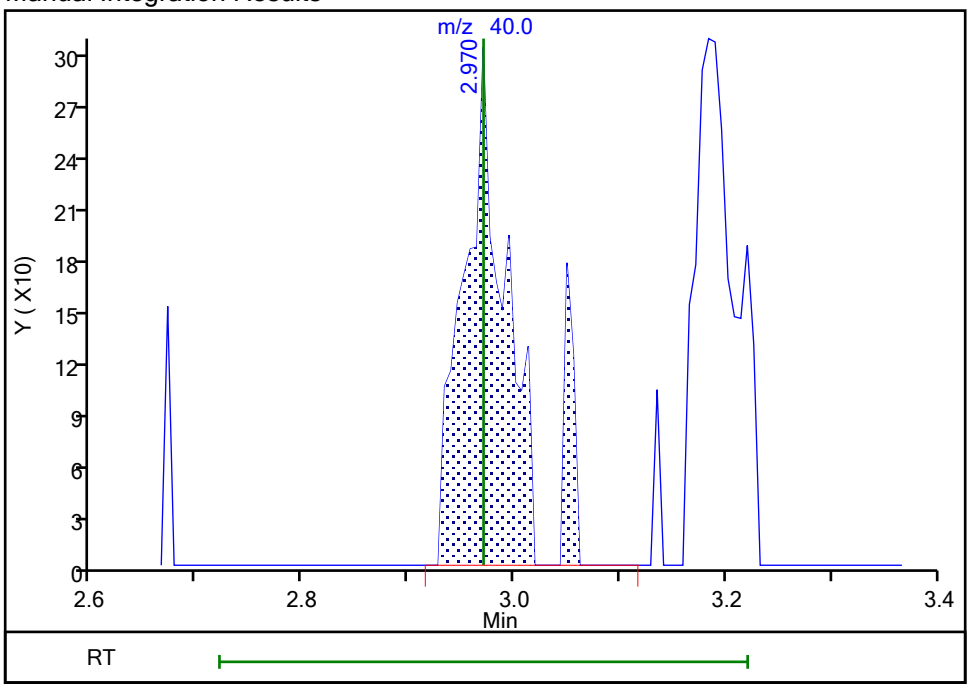
Processing Integration Results

RT: 2.97
Area: 124
Amount: 1.536645
Amount Units: ug/l



Manual Integration Results

RT: 2.97
Area: 918
Amount: 6.887842
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:25
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

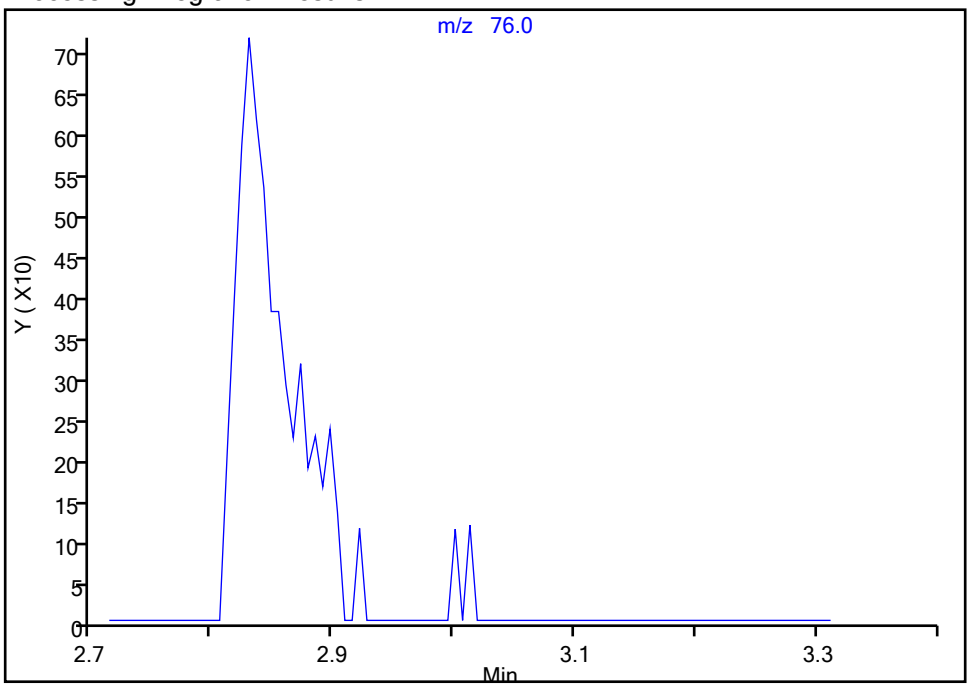
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

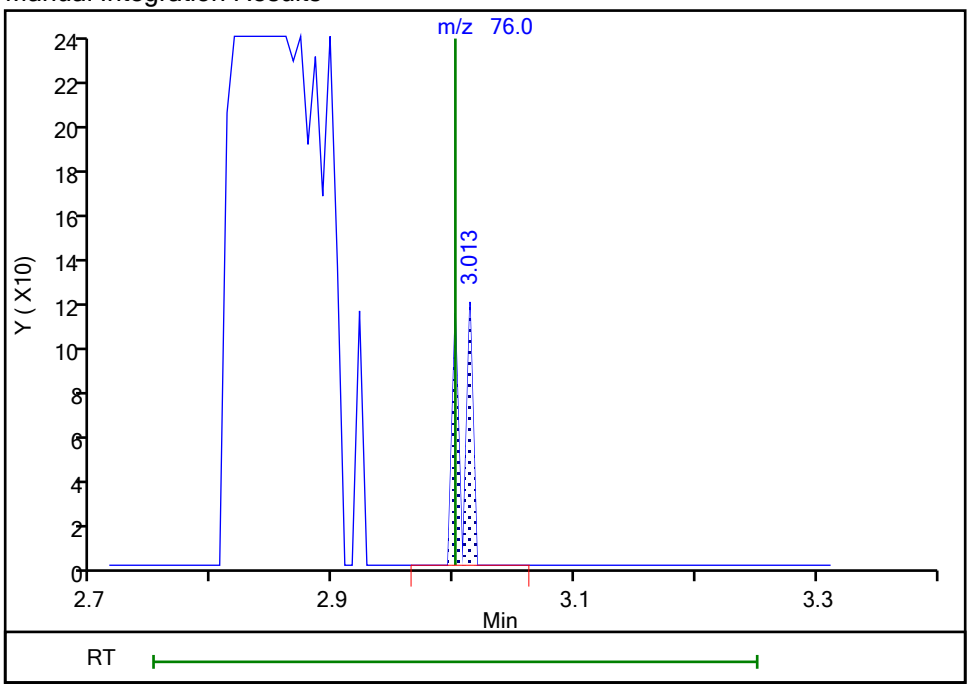
Not Detected
Expected RT: 3.00

Processing Integration Results



Manual Integration Results

RT: 3.01
Area: 84
Amount: 0.091595
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:32
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

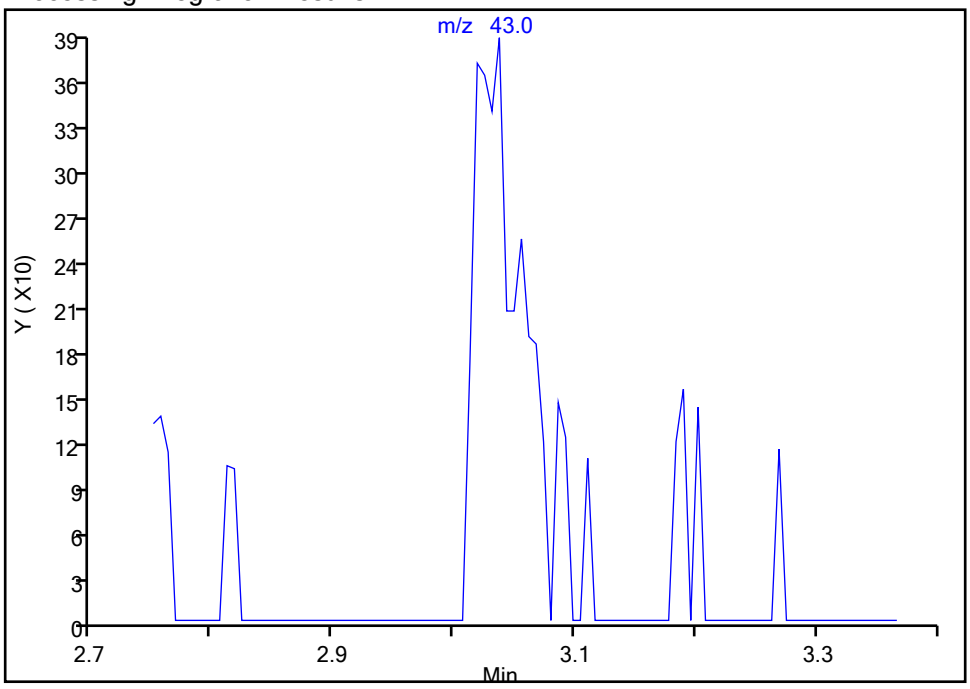
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

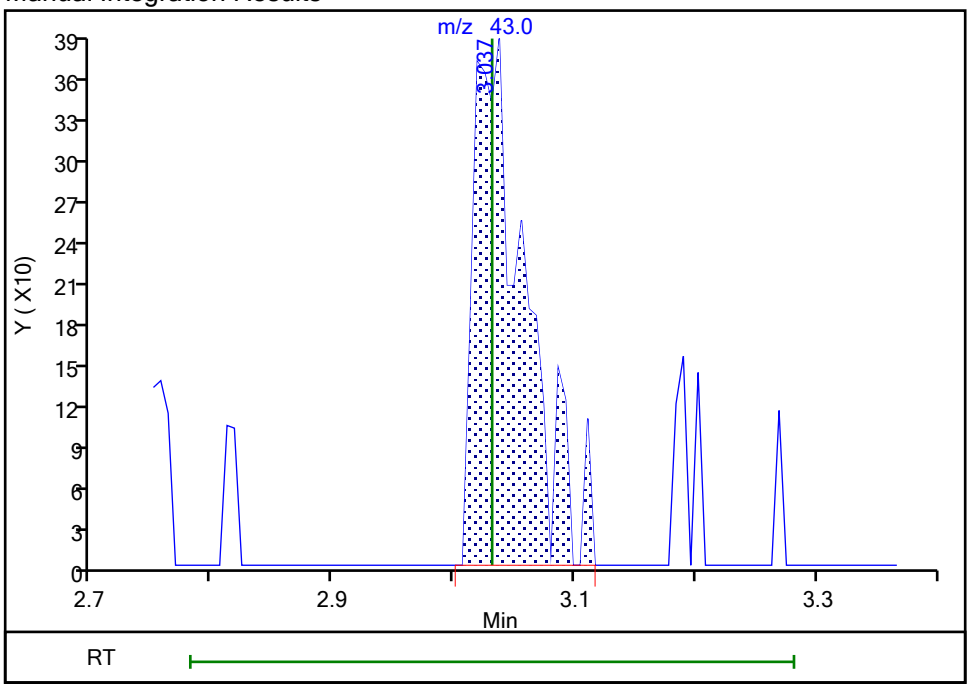
Not Detected
Expected RT: 3.03

Processing Integration Results



Manual Integration Results

RT: 3.04
Area: 1158
Amount: 1.188353
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:39
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

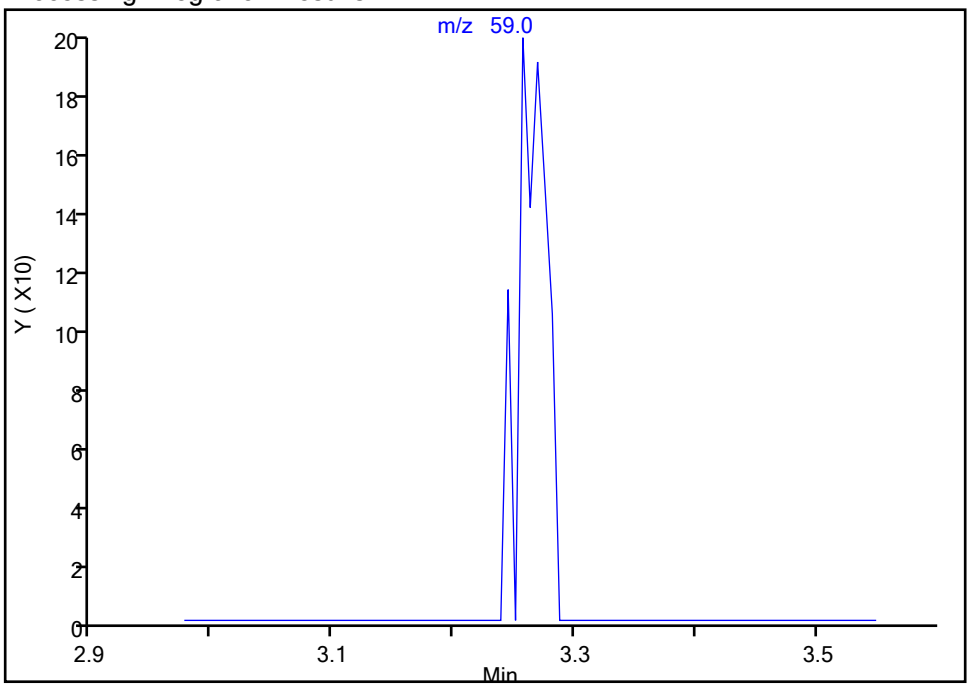
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

35 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

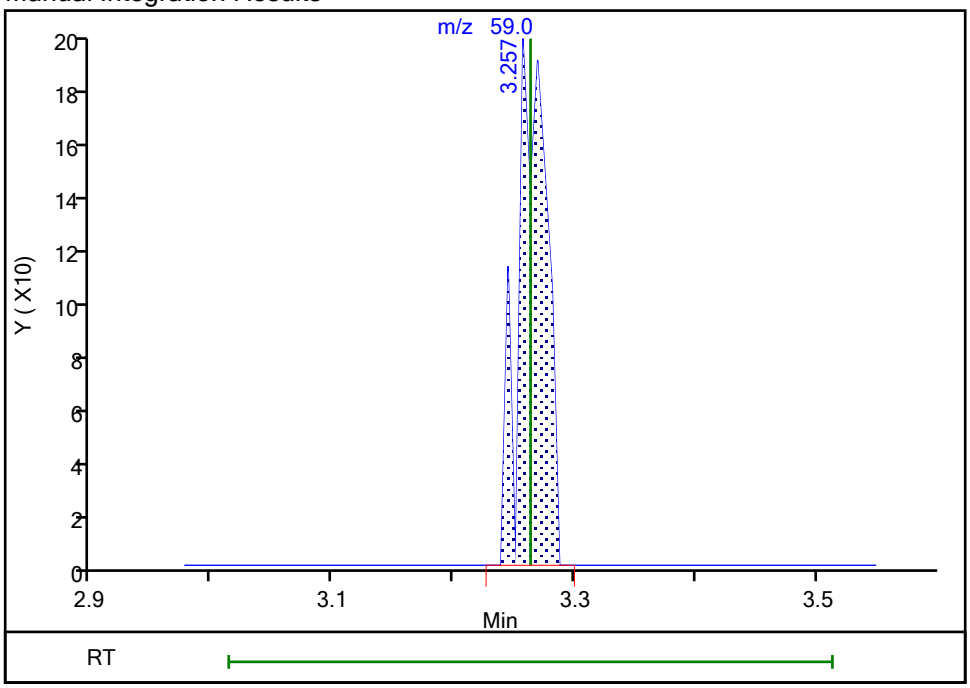
Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 316
Amount: 3.434125
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:04:57
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

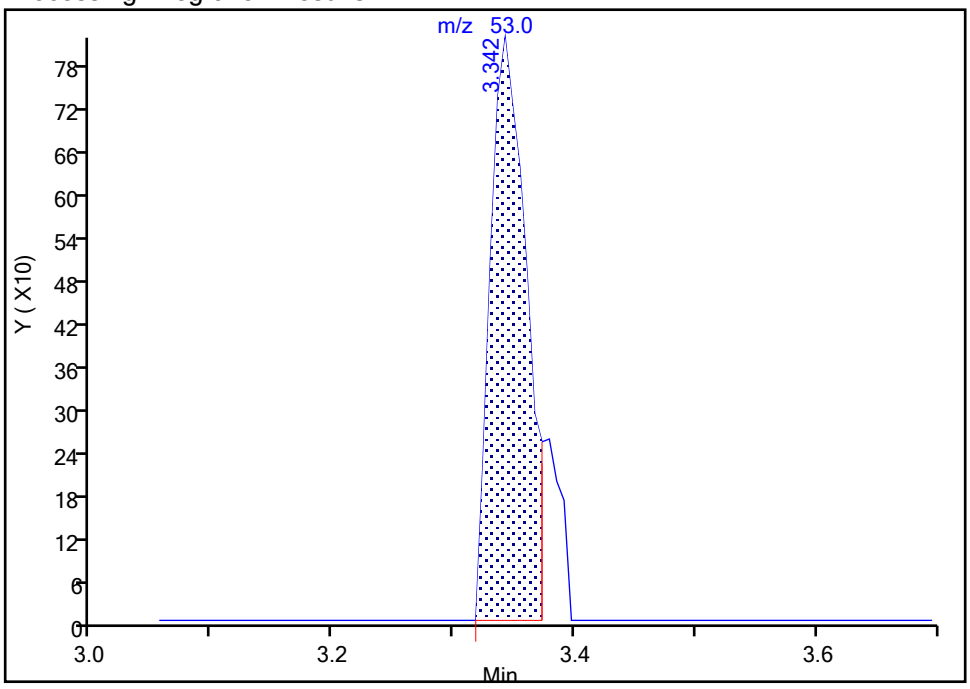
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

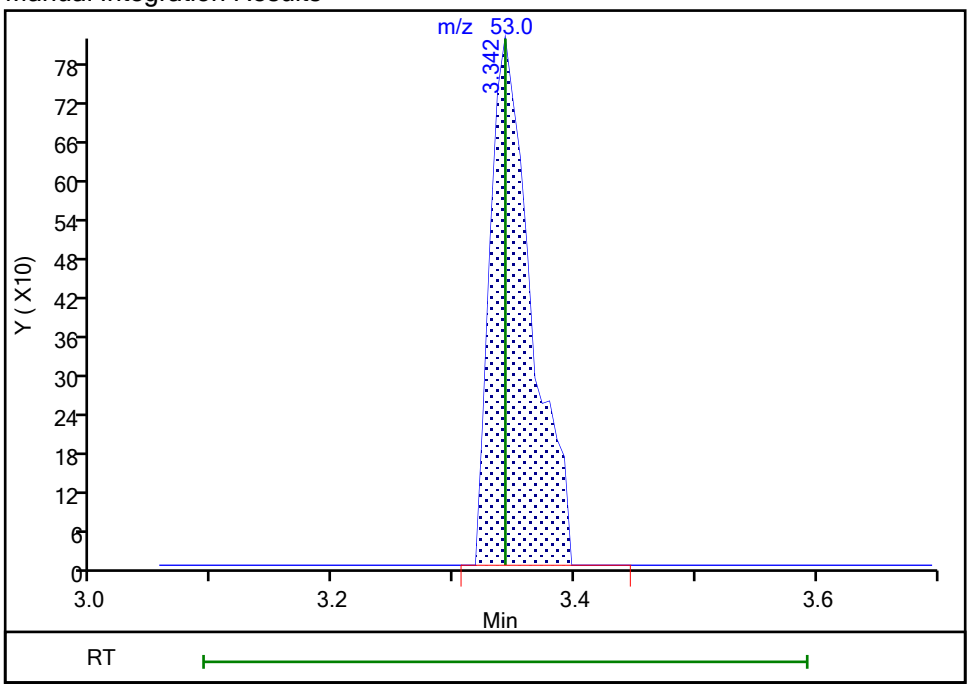
Processing Integration Results

RT: 3.34
Area: 1706
Amount: 3.499153
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 1932
Amount: 3.877055
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:03
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

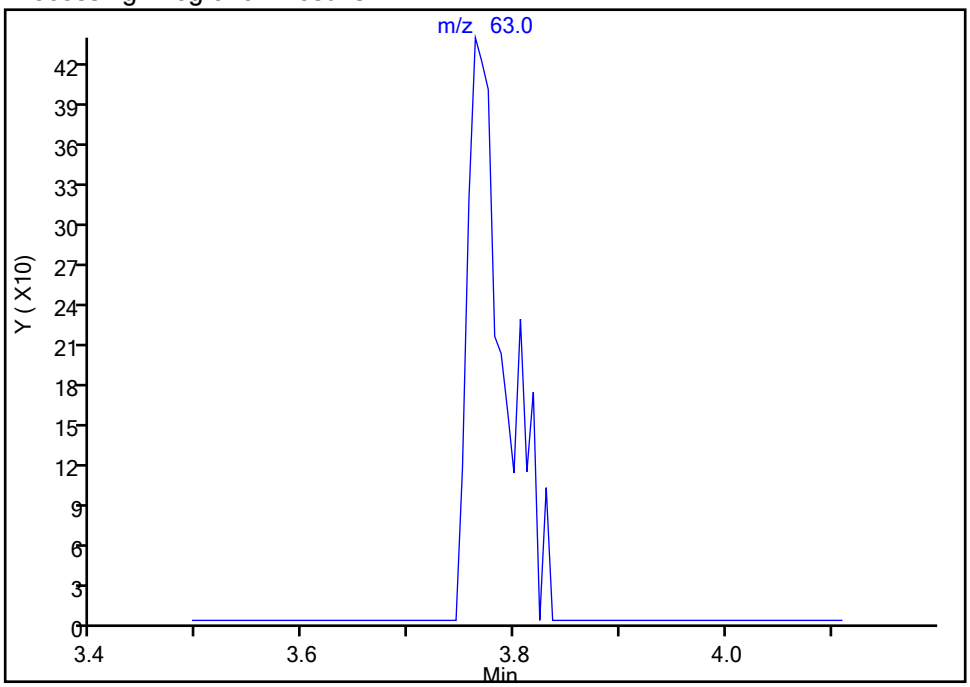
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

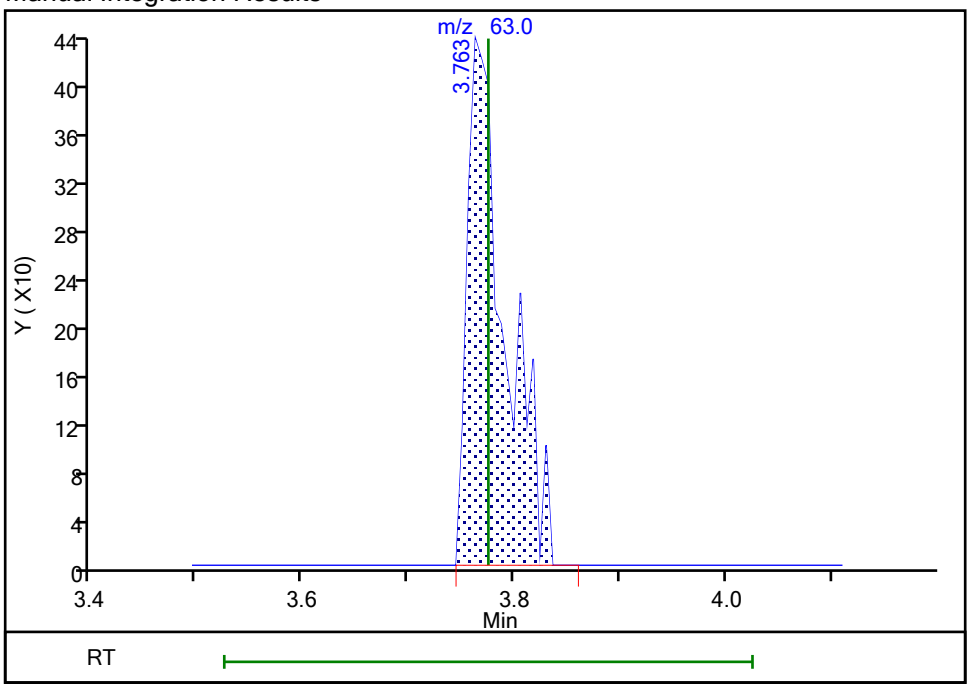
Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 1093
Amount: 0.359927
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:19
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

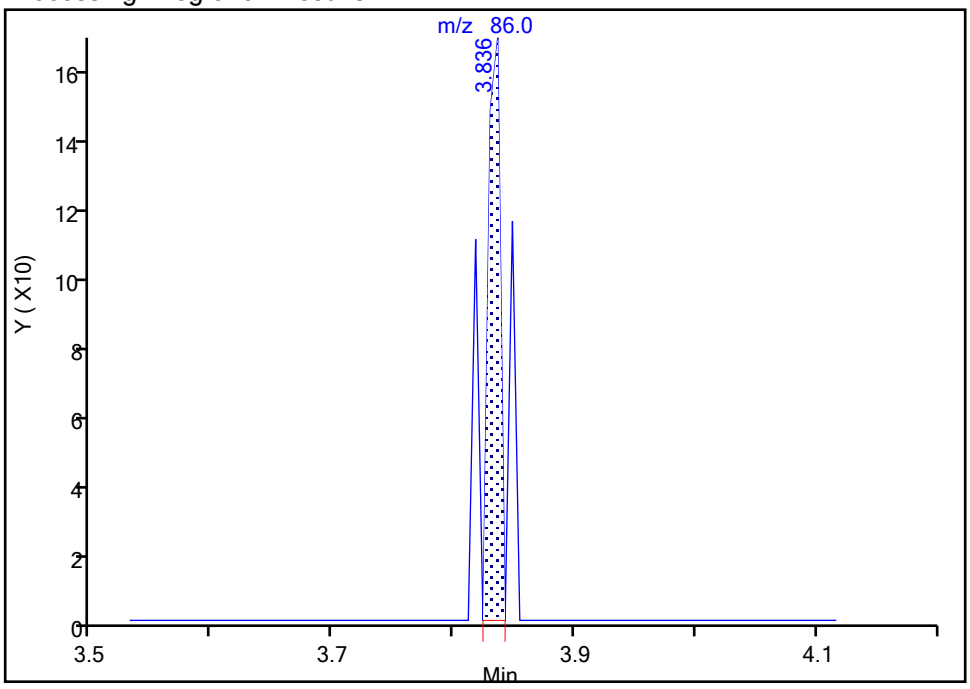
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

33 Vinyl acetate, CAS: 108-05-4

Signal: 1

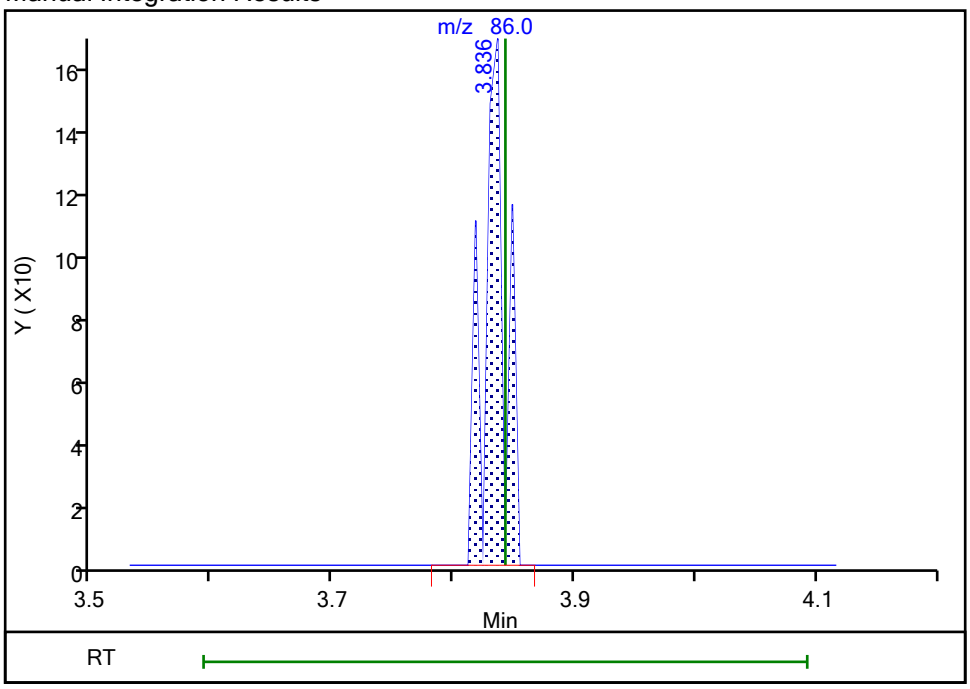
Processing Integration Results

RT: 3.84
Area: 111
Amount: 1.186618
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 191
Amount: 0.635123
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:27
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

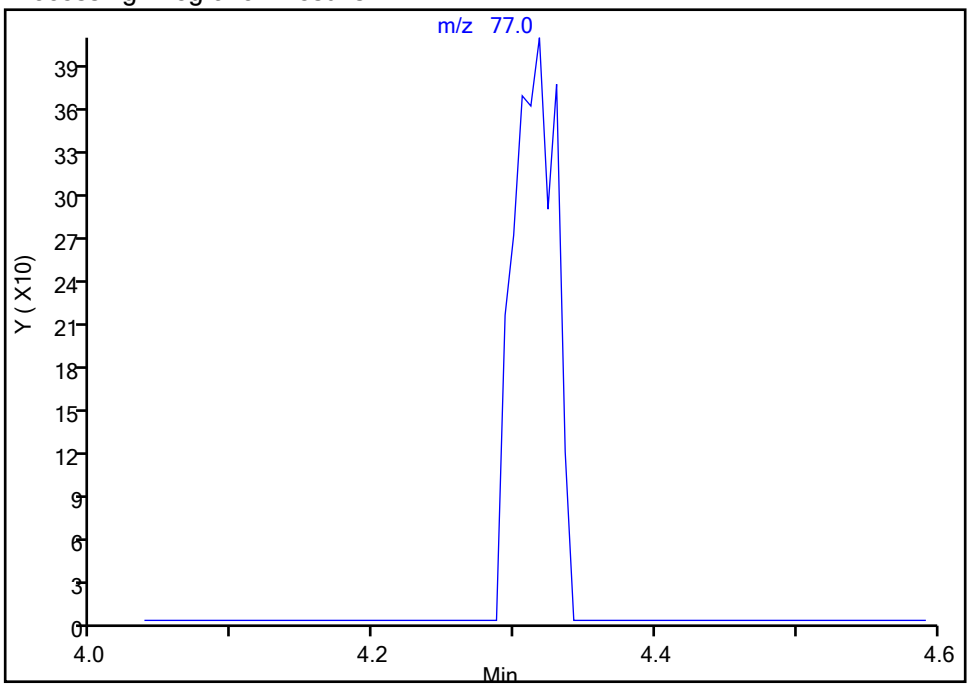
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

38 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

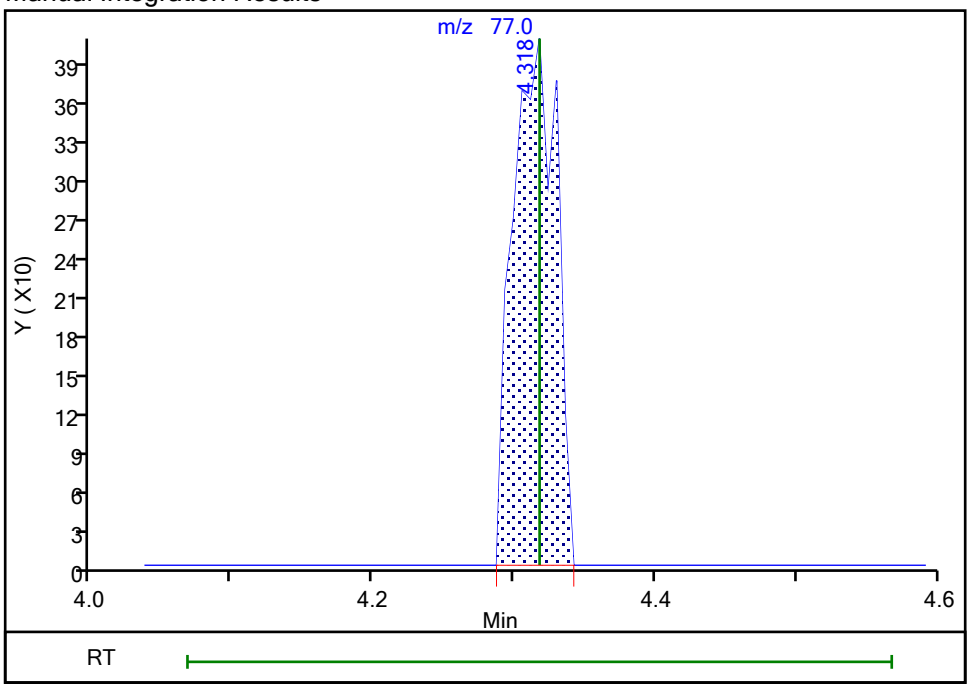
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 863
Amount: 0.360238
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:48
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

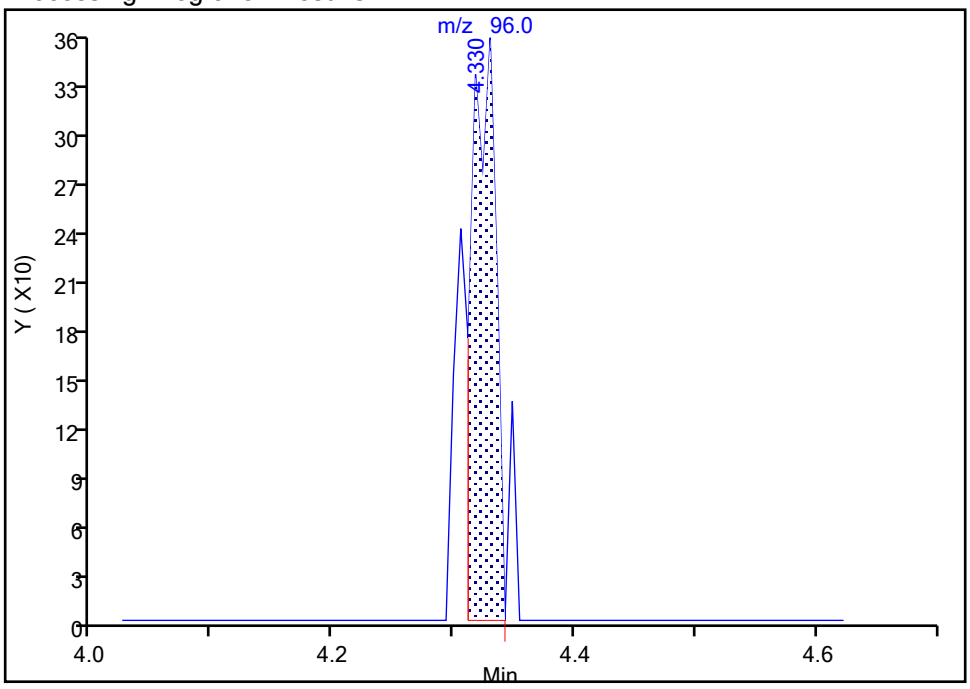
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

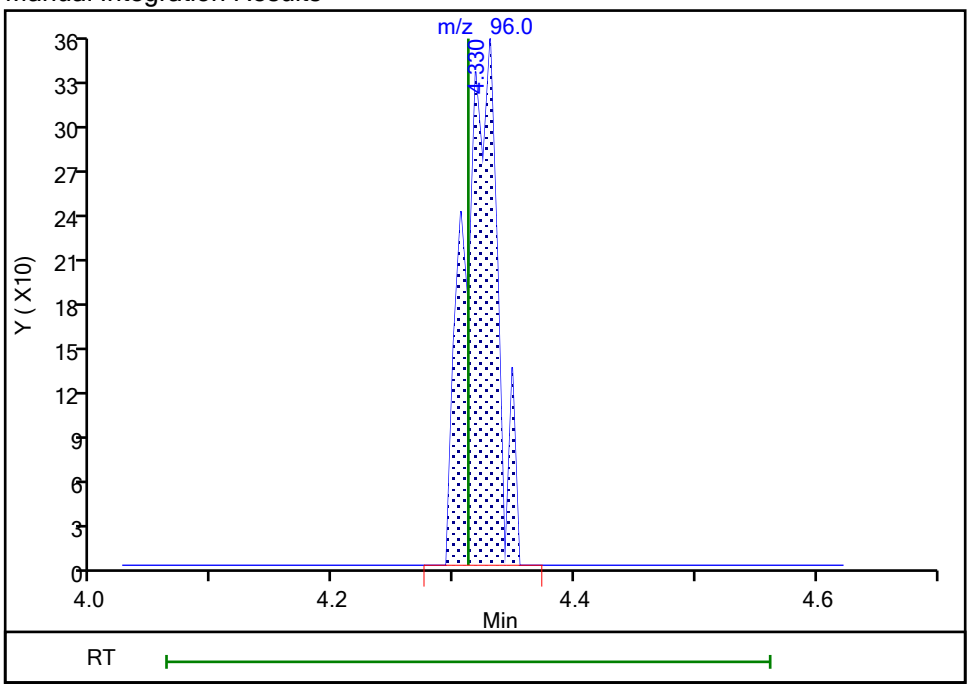
Processing Integration Results

RT: 4.33
Area: 482
Amount: 0.612475
Amount Units: ug/l



Manual Integration Results

RT: 4.33
Area: 671
Amount: 0.362188
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:05:40
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

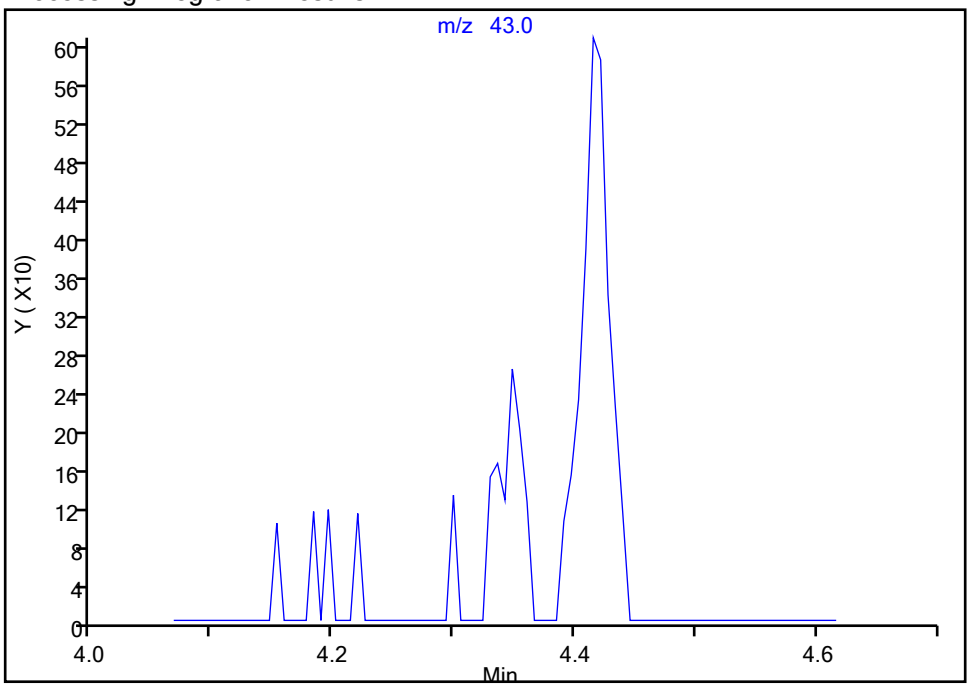
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

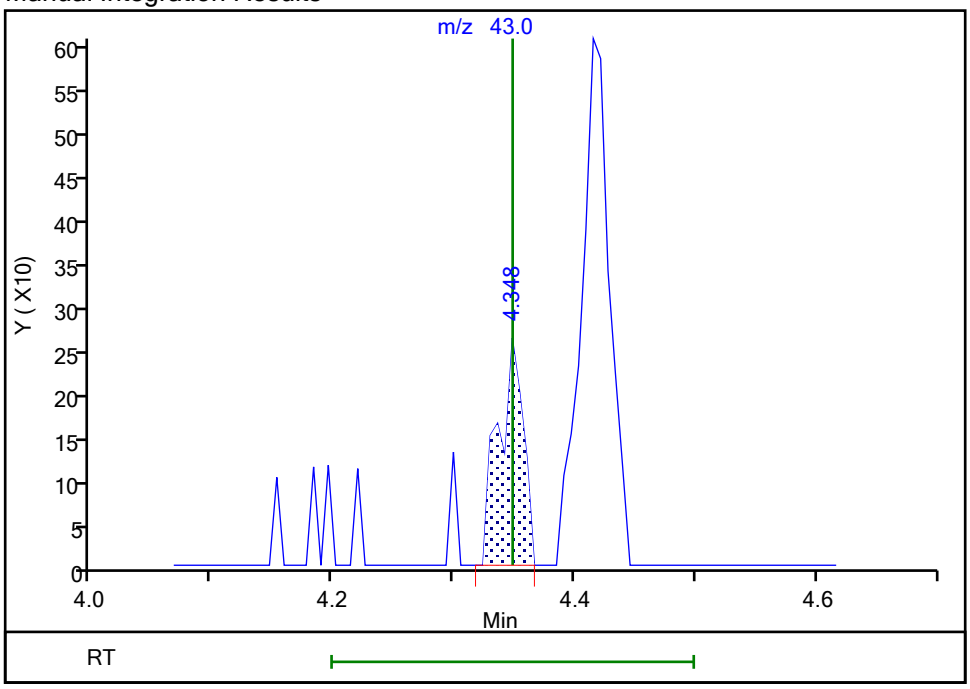
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 373
Amount: 0.645345
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:06:01
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

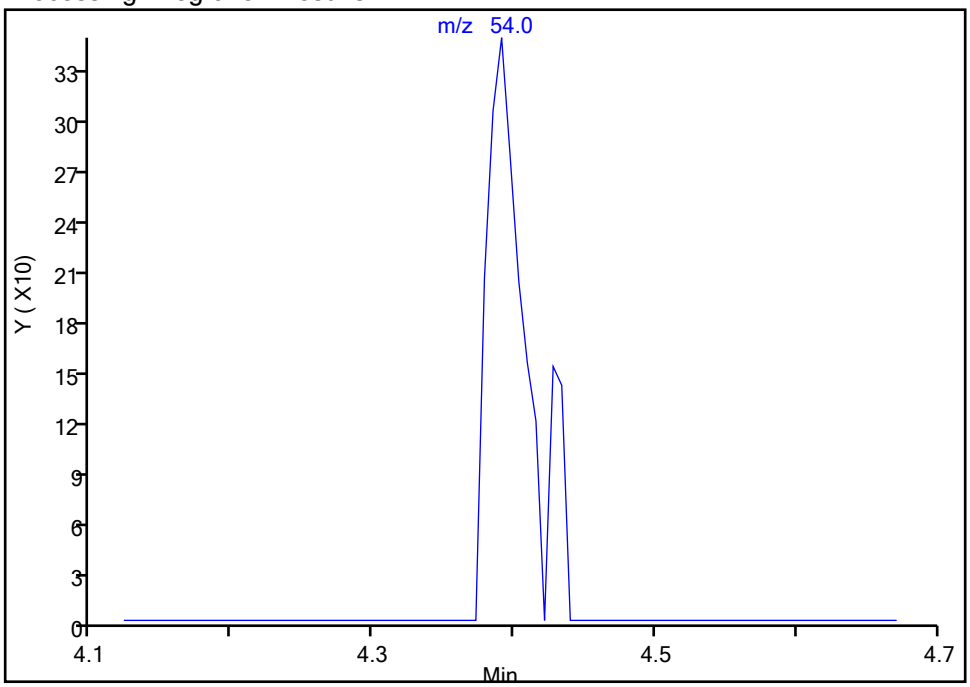
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

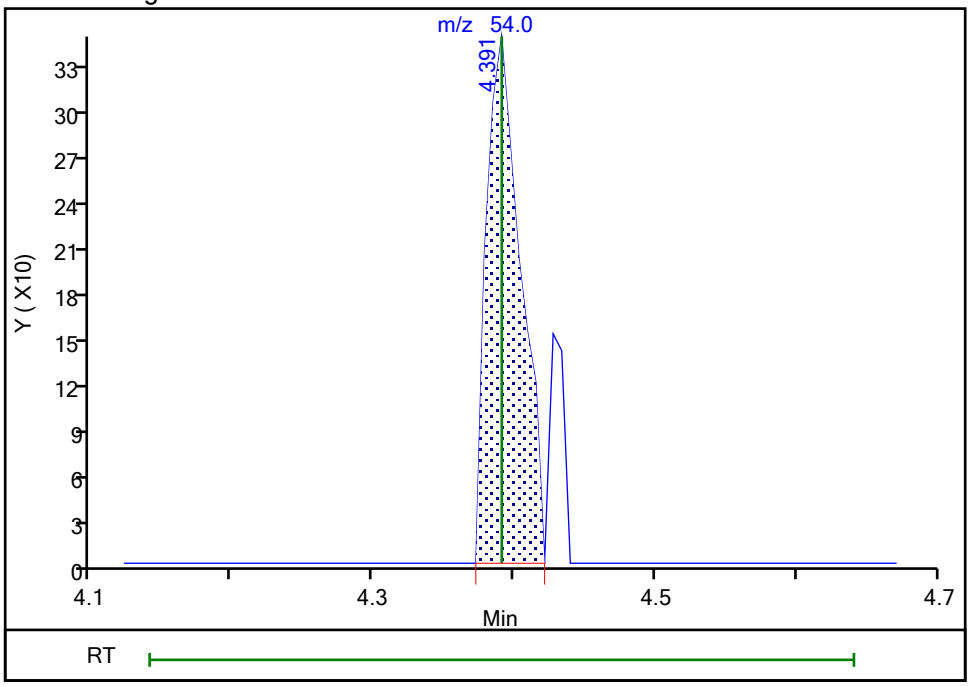
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 578
Amount: 2.917021
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:06:08
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

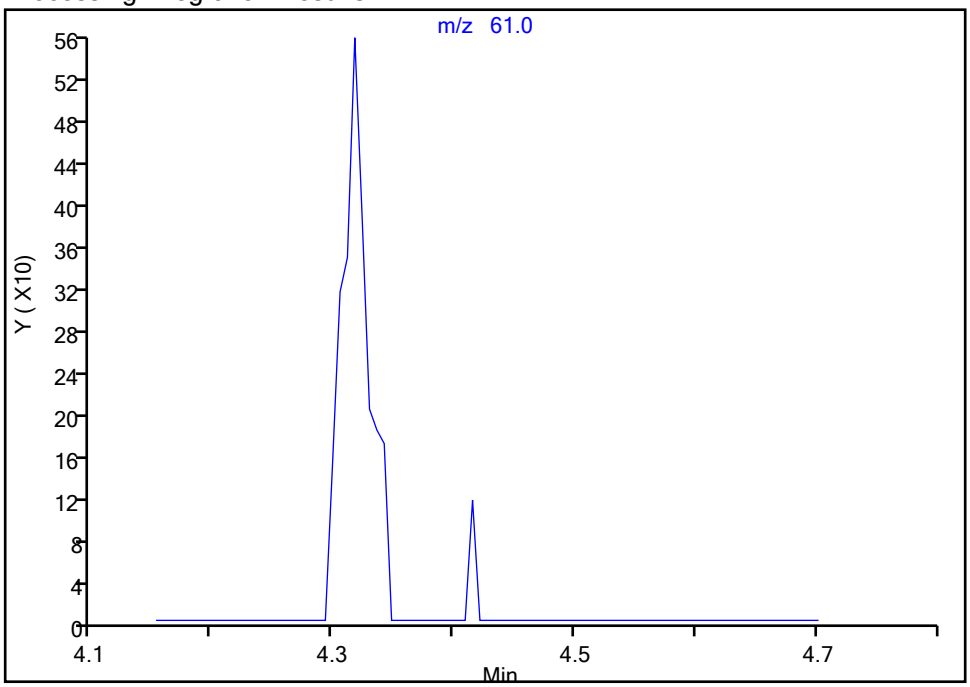
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

104 Ethyl acetate, CAS: 141-78-6

Signal: 1

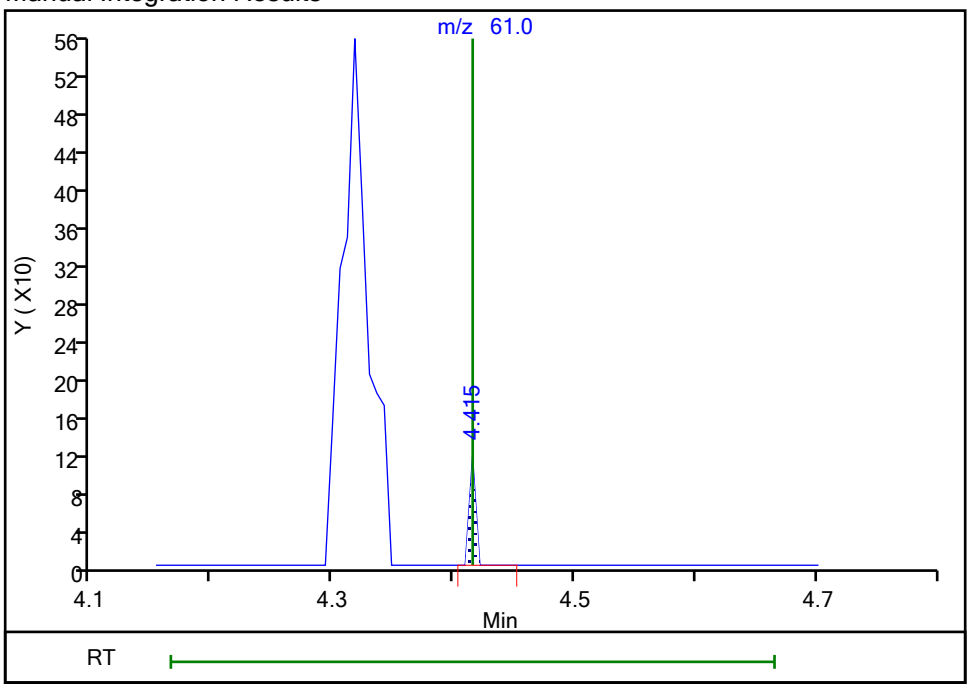
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 42
Amount: 0.185134
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:06:21
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

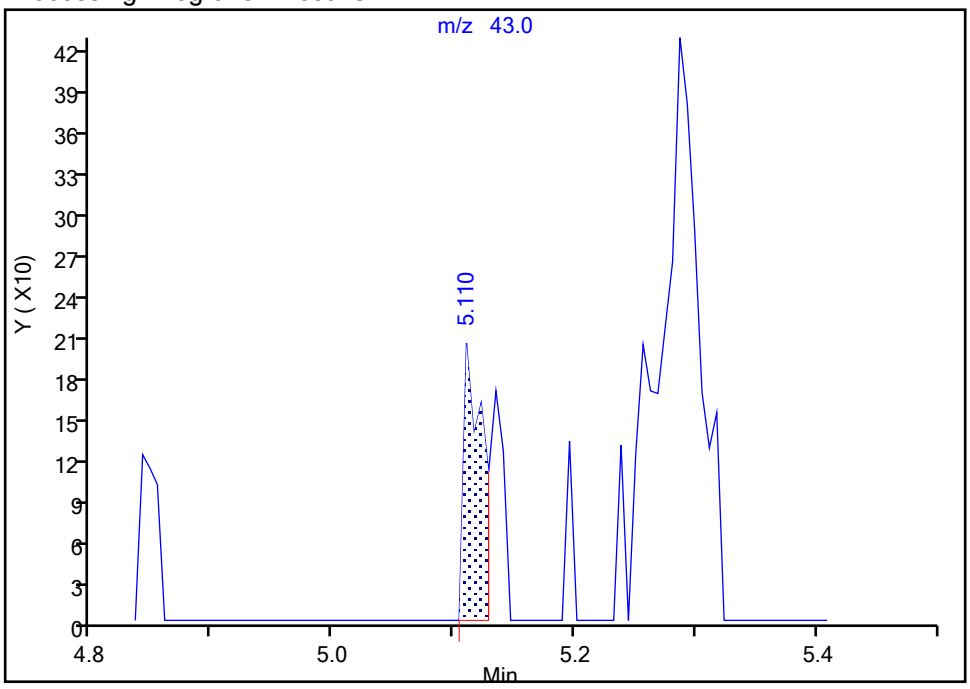
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

108 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

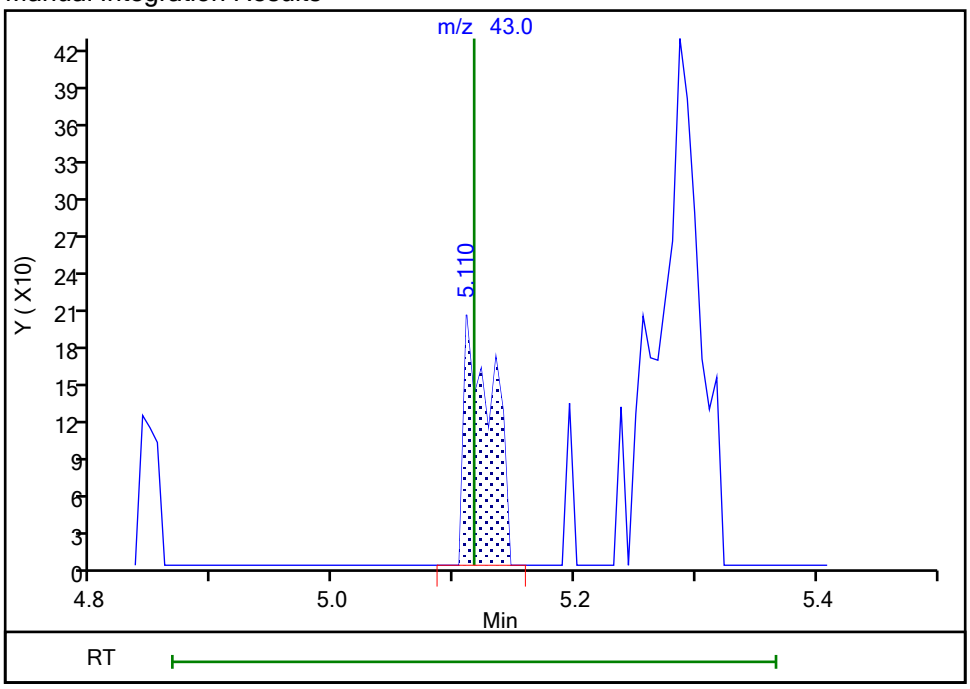
Processing Integration Results

RT: 5.11
Area: 223
Amount: 4.831655
Amount Units: ug/l



Manual Integration Results

RT: 5.11
Area: 331
Amount: 6.734701
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:05
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

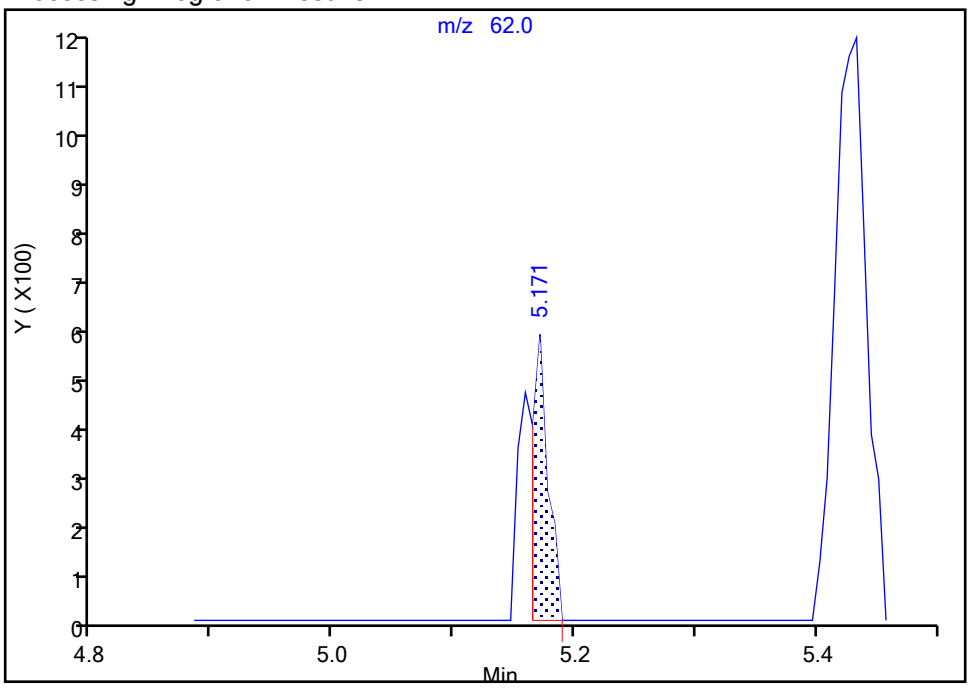
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

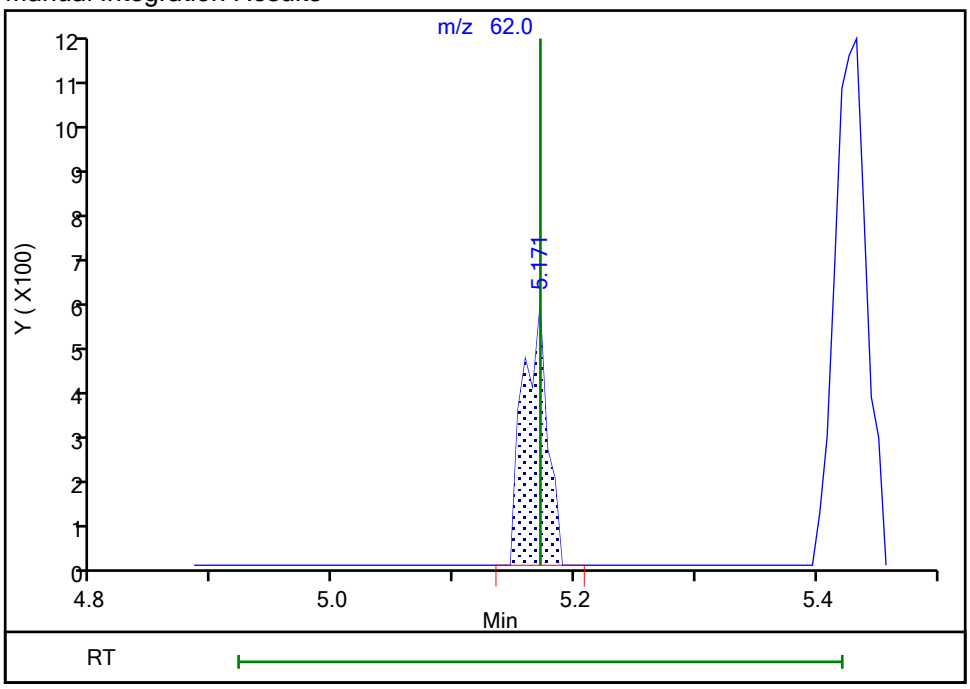
Processing Integration Results

RT: 5.17
Area: 520
Amount: 0.427781
Amount Units: ug/l



Manual Integration Results

RT: 5.17
Area: 814
Amount: 0.360757
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:15
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

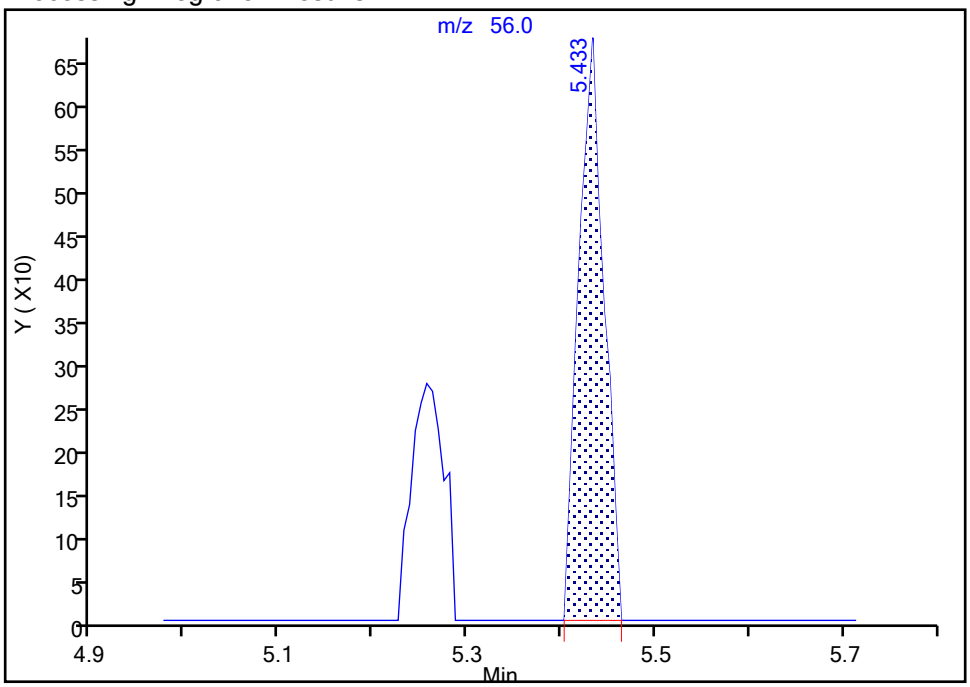
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

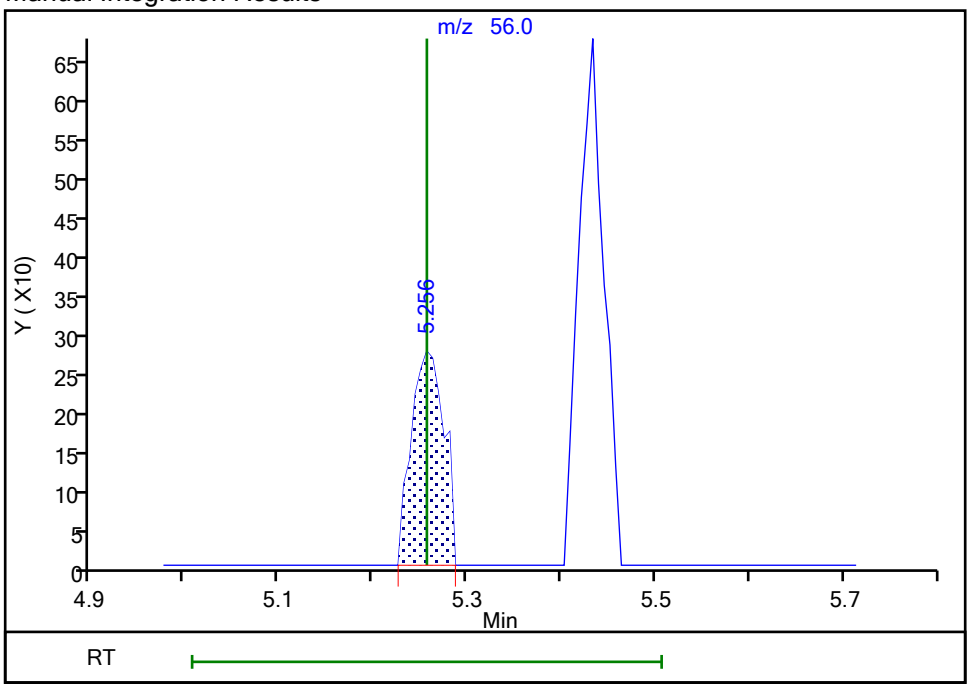
Processing Integration Results

RT: 5.43
Area: 1269
Amount: 73.519097
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 664
Amount: 9.580622
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:23
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

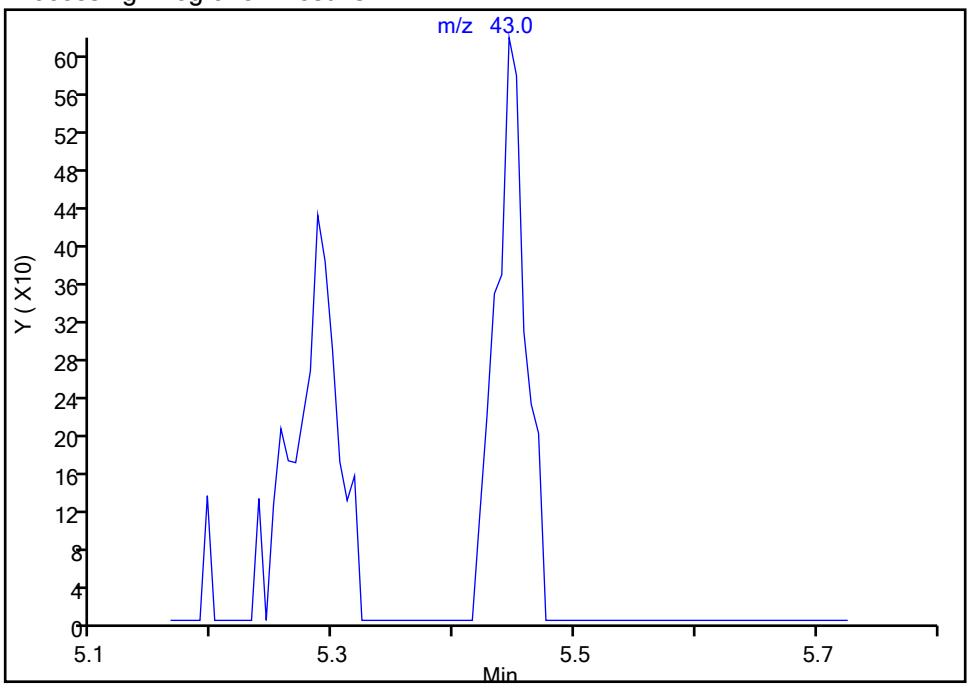
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

53 n-Heptane, CAS: 142-82-5

Signal: 1

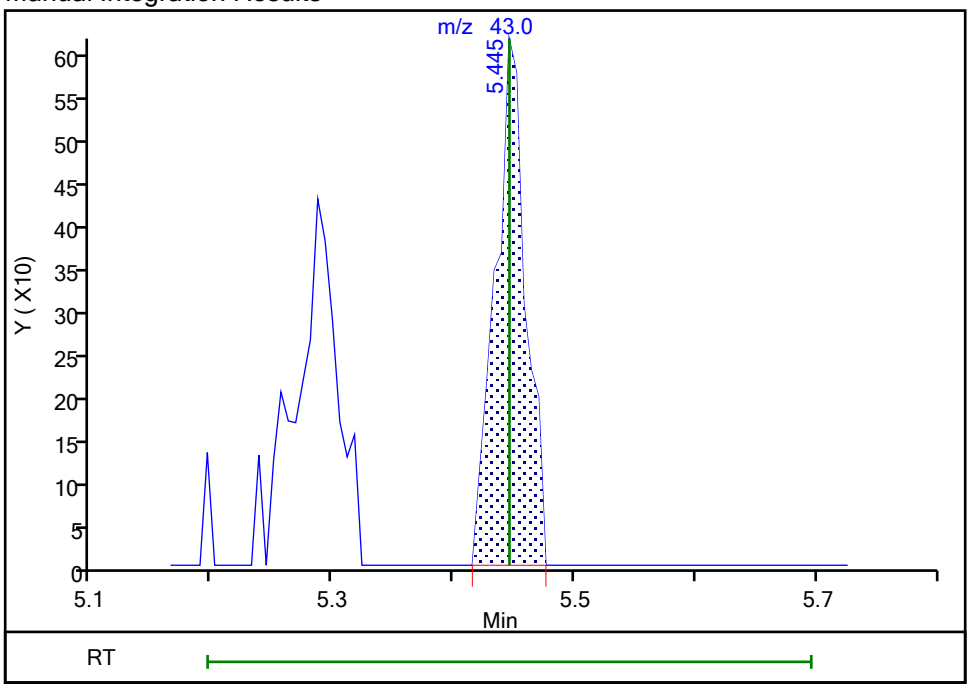
Not Detected
Expected RT: 5.45

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 1085
Amount: 0.489545
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:30
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

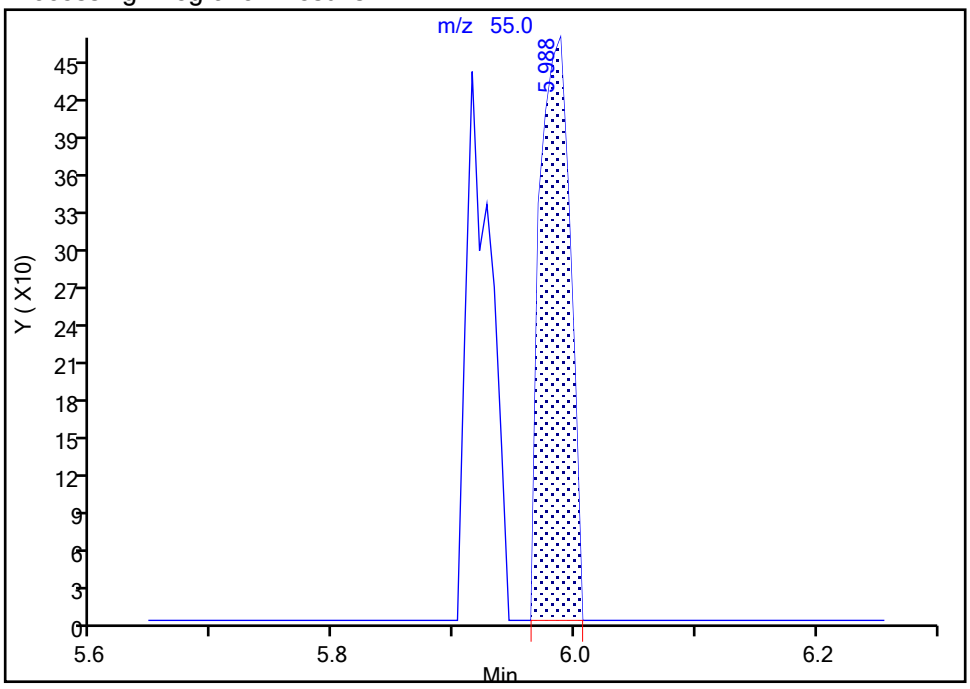
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

117 Ethyl acrylate, CAS: 140-88-5

Signal: 1

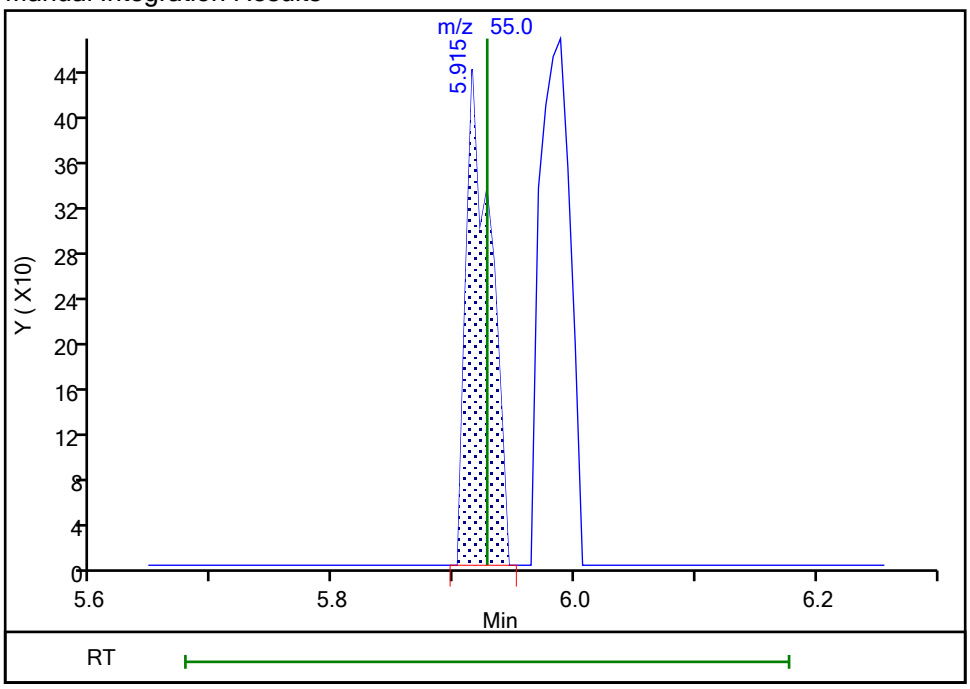
Processing Integration Results

RT: 5.99
Area: 804
Amount: 0.460762
Amount Units: ug/l



Manual Integration Results

RT: 5.91
Area: 622
Amount: 0.361093
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:45
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

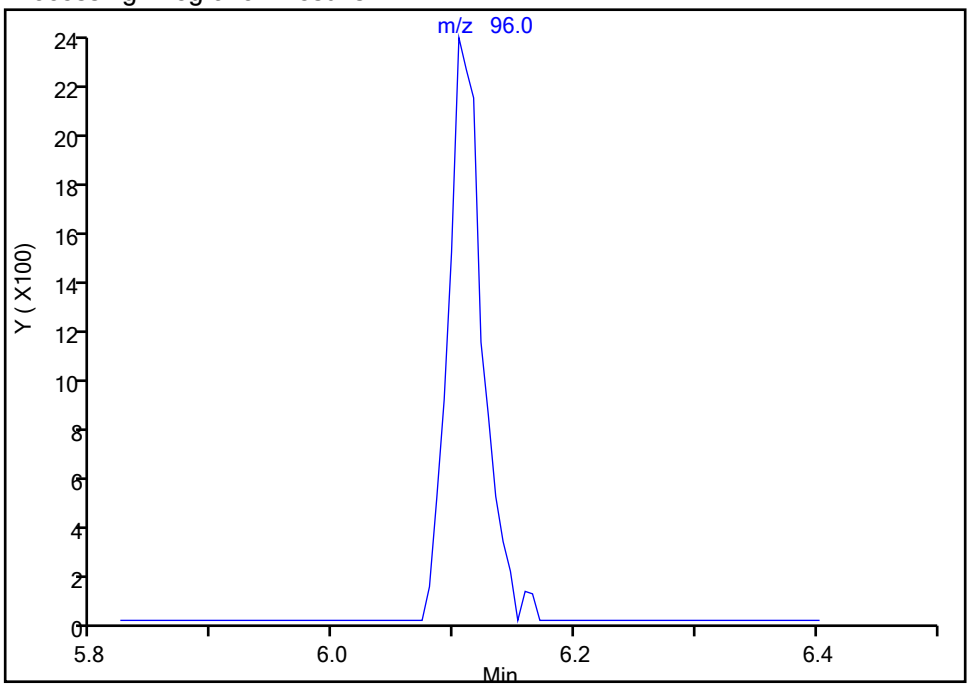
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

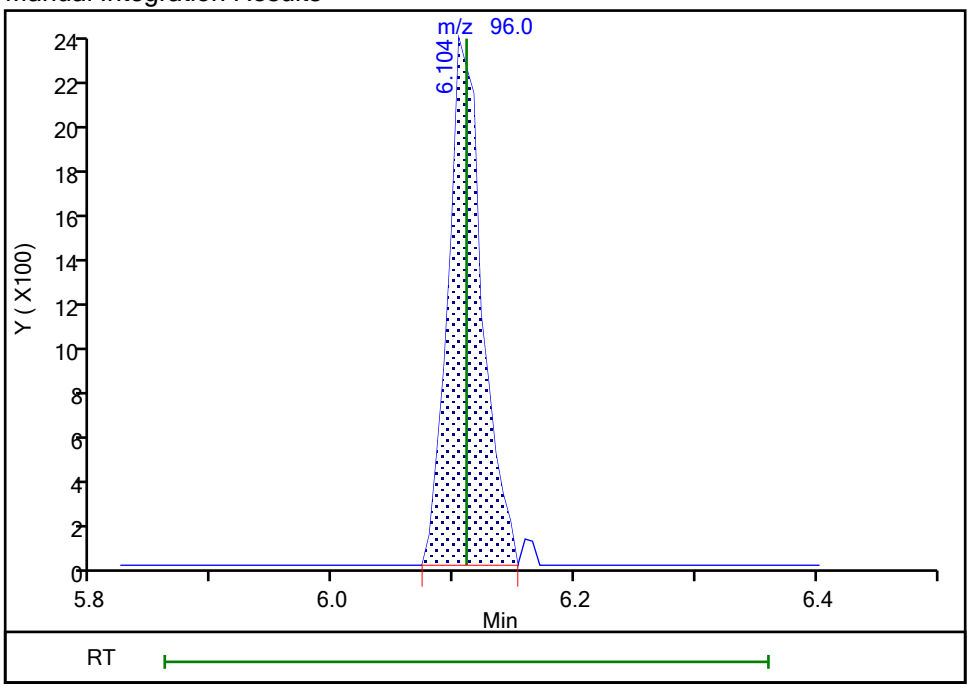
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 4669
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:02:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

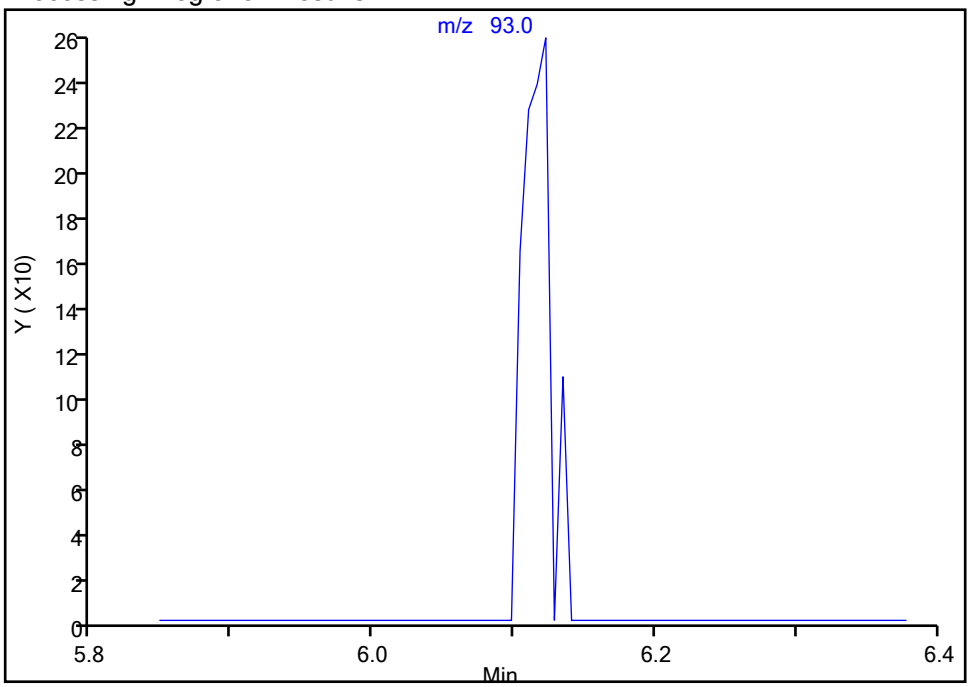
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

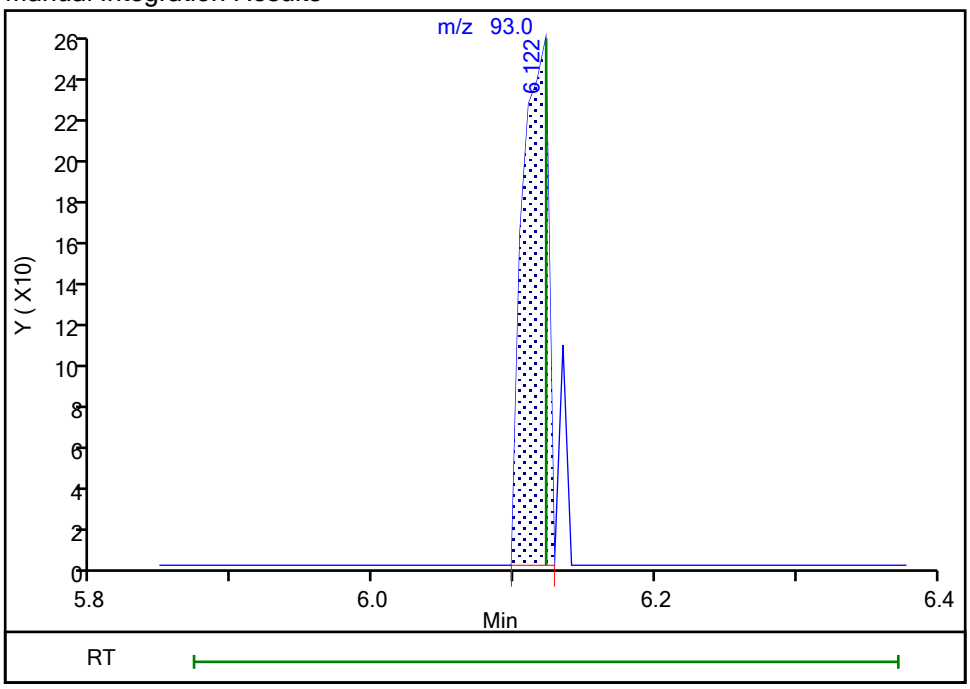
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 315
Amount: 0.340483
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:07:54
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

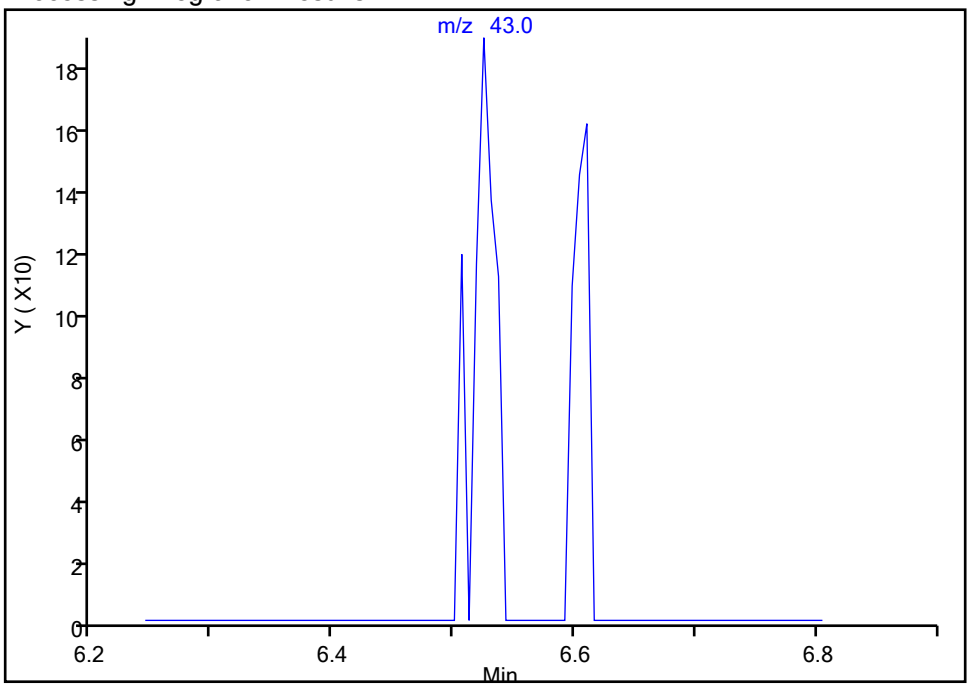
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

106 2-Nitropropane, CAS: 79-46-9

Signal: 1

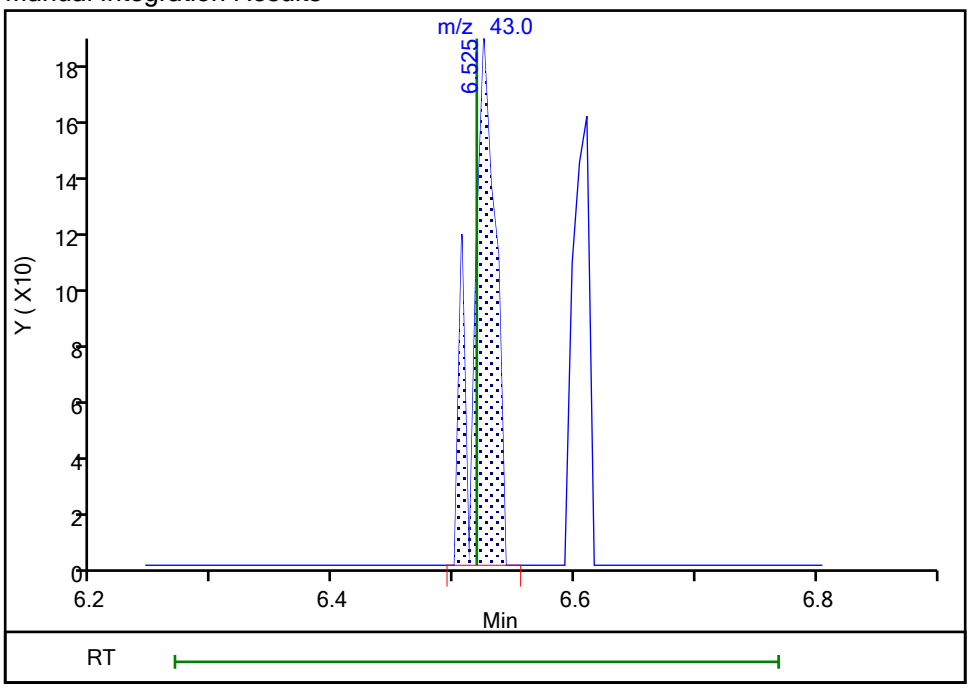
Not Detected
Expected RT: 6.52

Processing Integration Results



Manual Integration Results

RT: 6.52
Area: 238
Amount: 0.779197
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:07
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

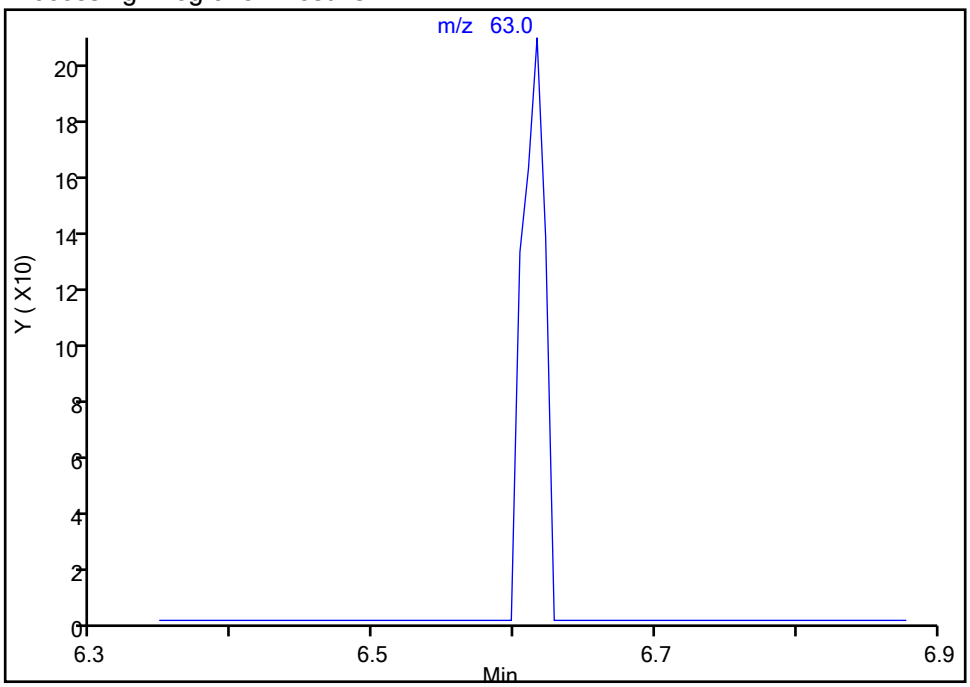
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

59 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

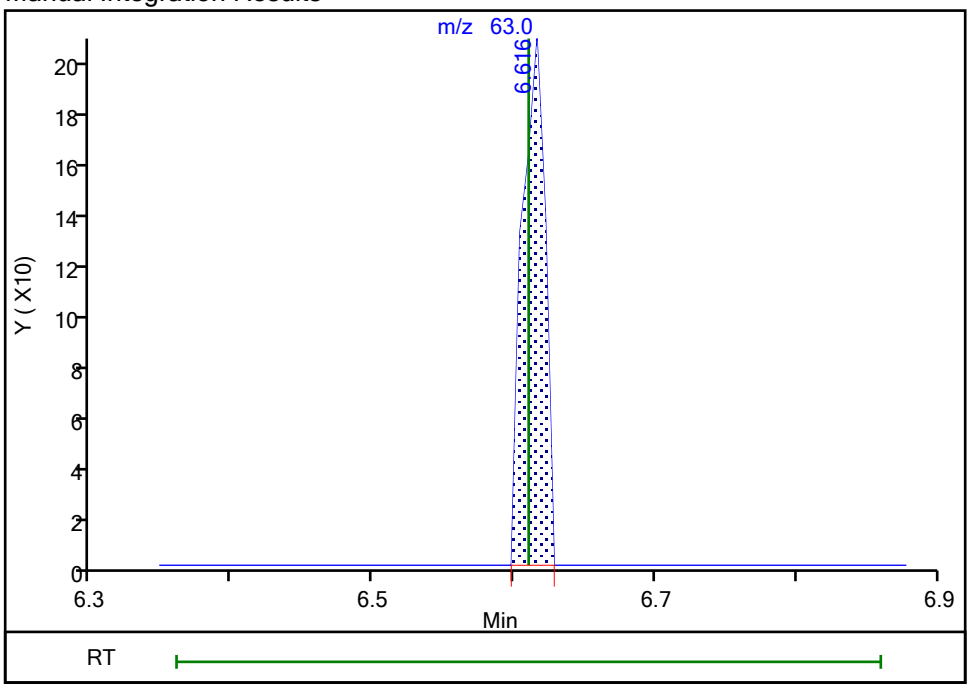
Not Detected
Expected RT: 6.61

Processing Integration Results



Manual Integration Results

RT: 6.62
Area: 225
Amount: 0.232935
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:15
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

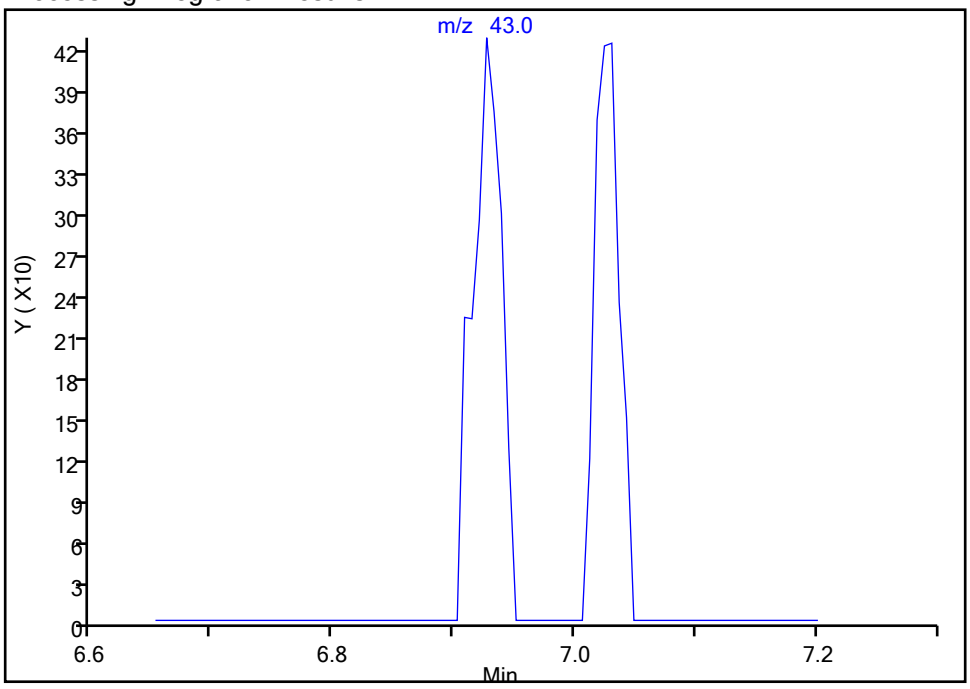
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

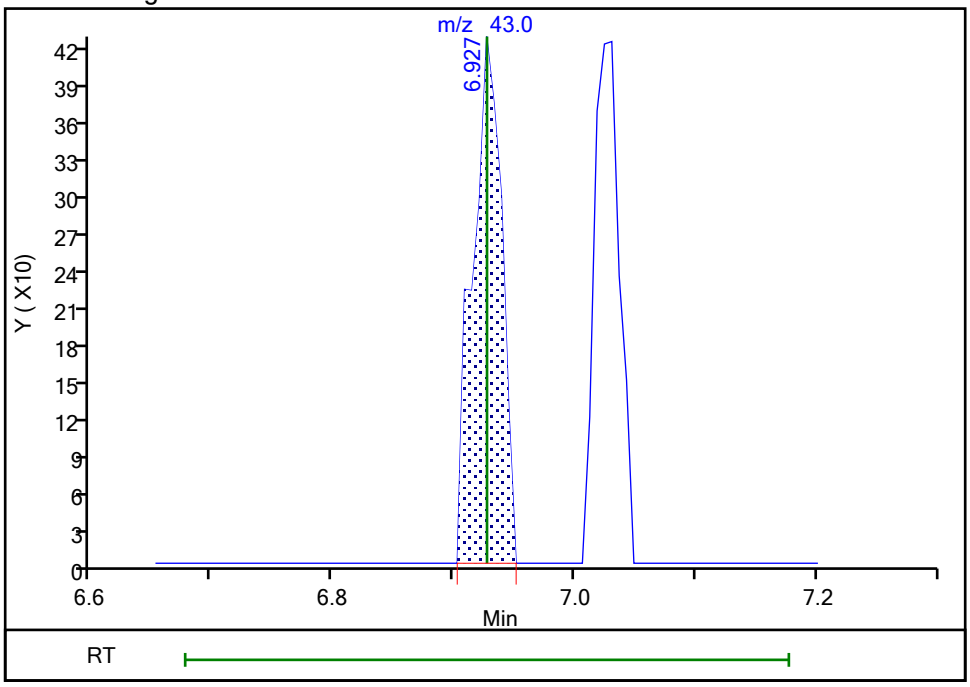
Not Detected
Expected RT: 6.93

Processing Integration Results



Manual Integration Results

RT: 6.93
Area: 714
Amount: 0.536558
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:25
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

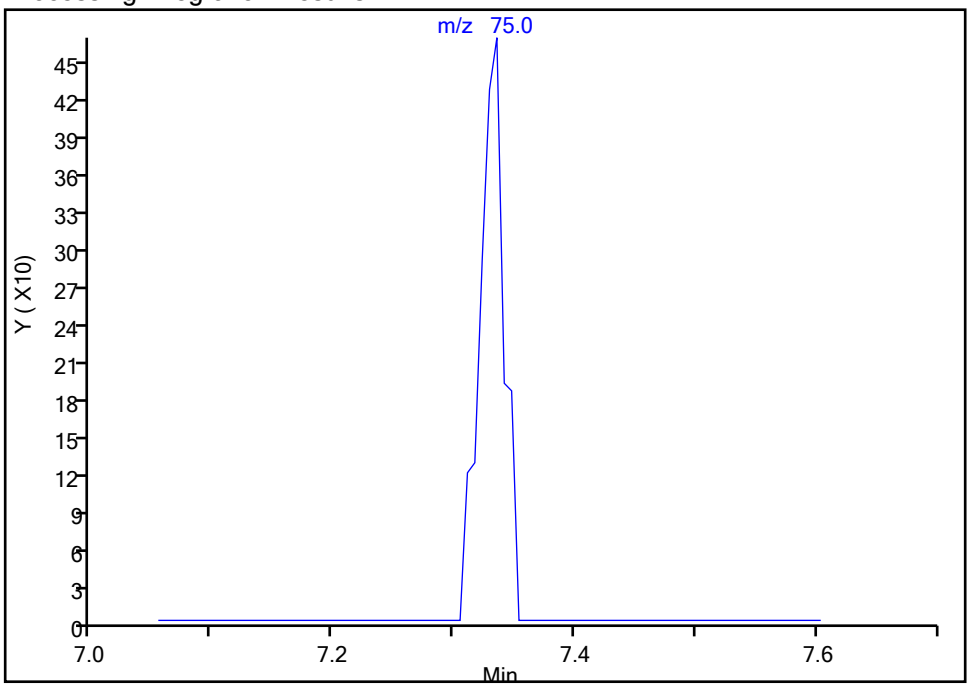
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

63 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

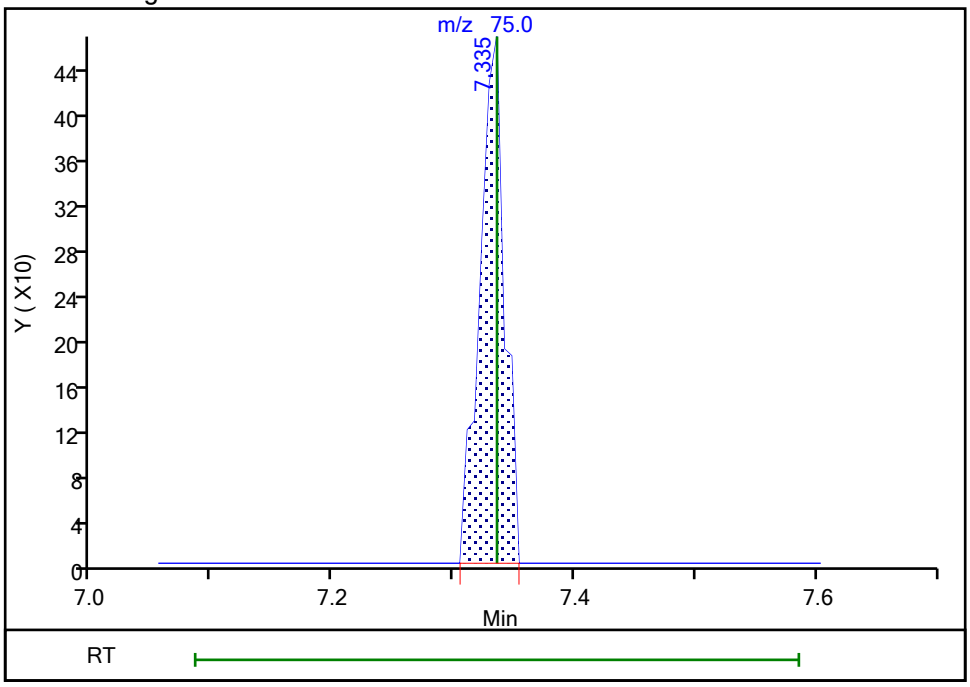
Not Detected
Expected RT: 7.34

Processing Integration Results



Manual Integration Results

RT: 7.34
Area: 651
Amount: 0.626448
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:35
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Eurofins TestAmerica, Cedar Falls

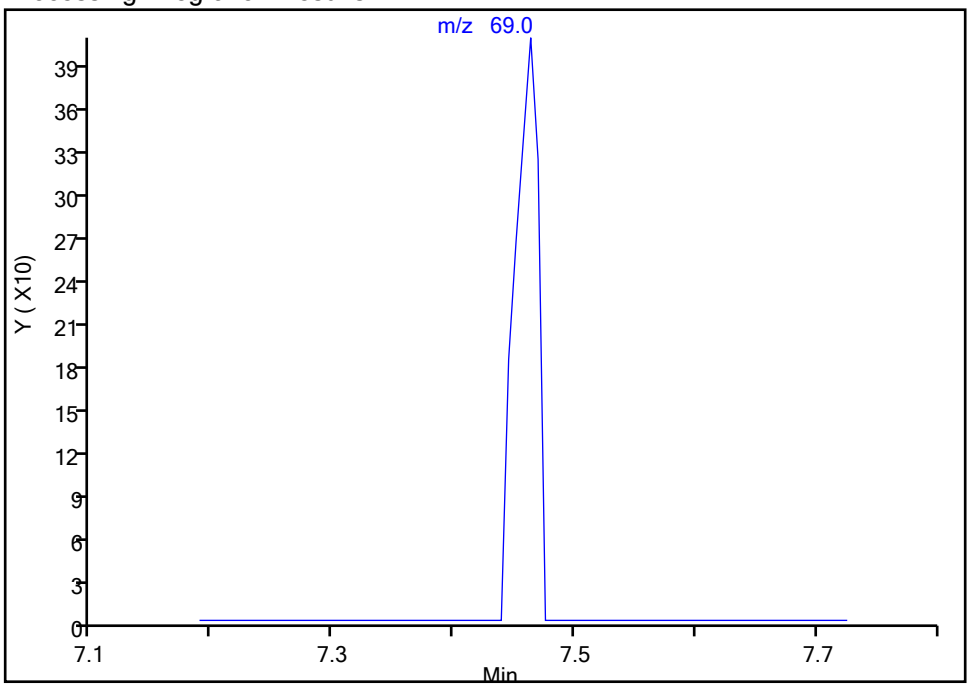
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

64 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

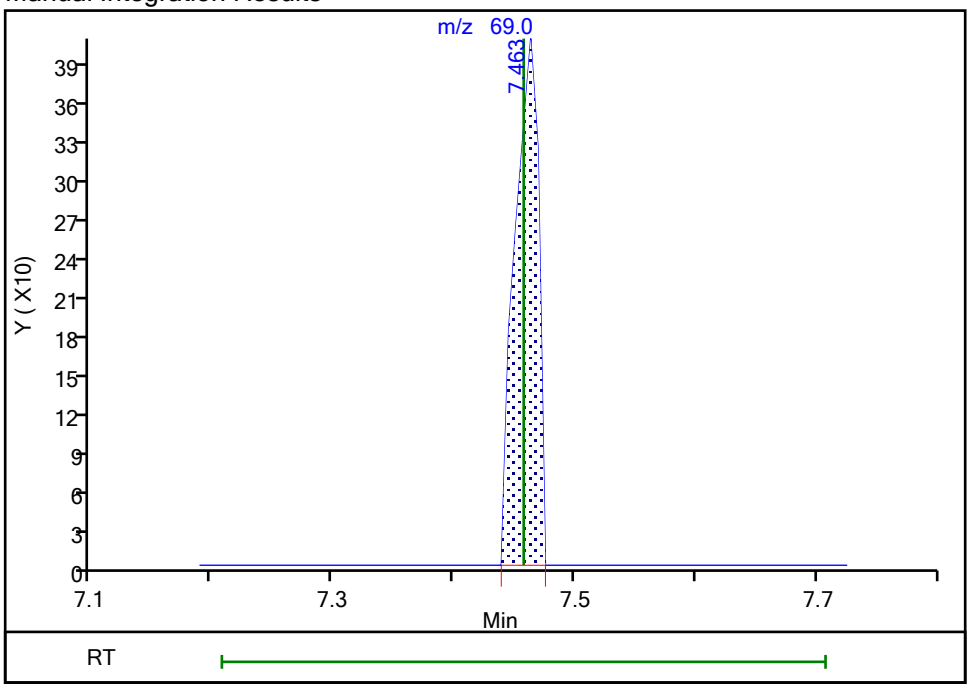
Not Detected
Expected RT: 7.46

Processing Integration Results



Manual Integration Results

RT: 7.46
Area: 546
Amount: 0.288280
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:42
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

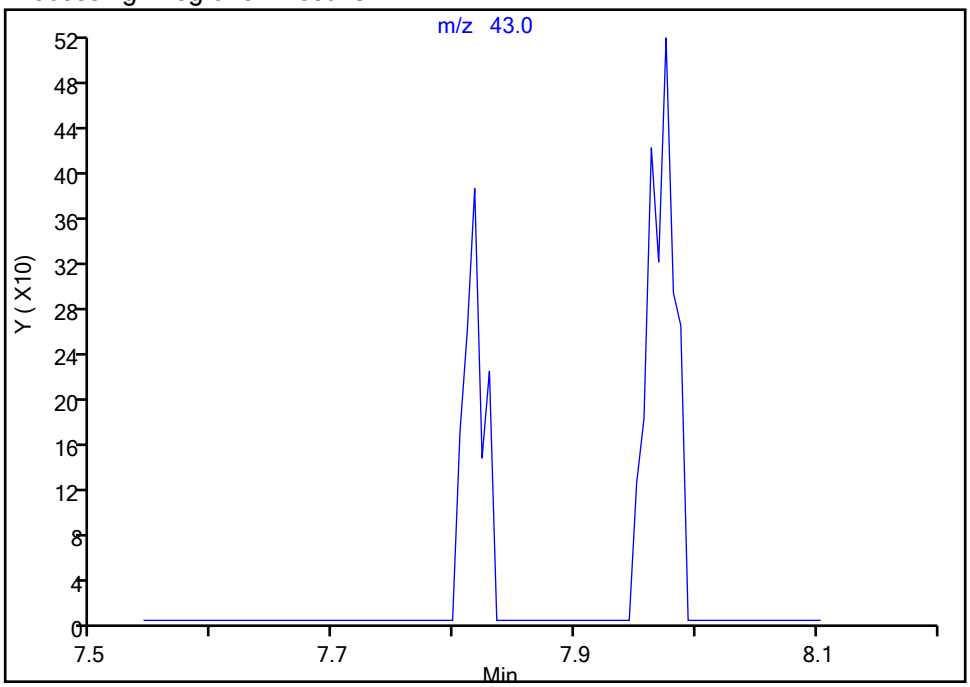
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

68 2-Hexanone, CAS: 591-78-6

Signal: 1

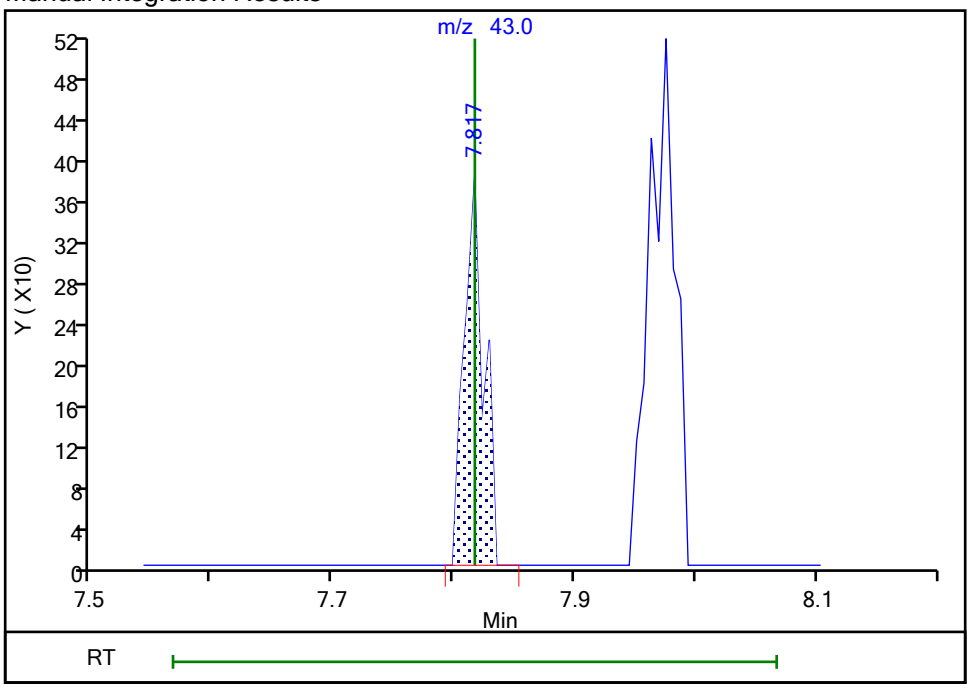
Not Detected
Expected RT: 7.82

Processing Integration Results



Manual Integration Results

RT: 7.82
Area: 426
Amount: 0.489940
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:08:59
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

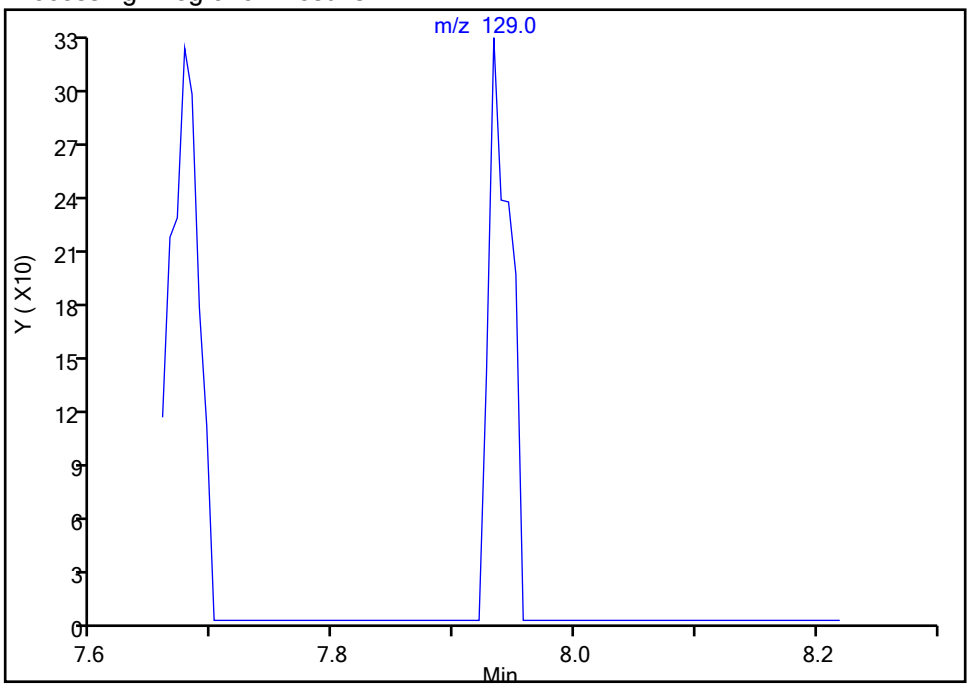
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

69 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

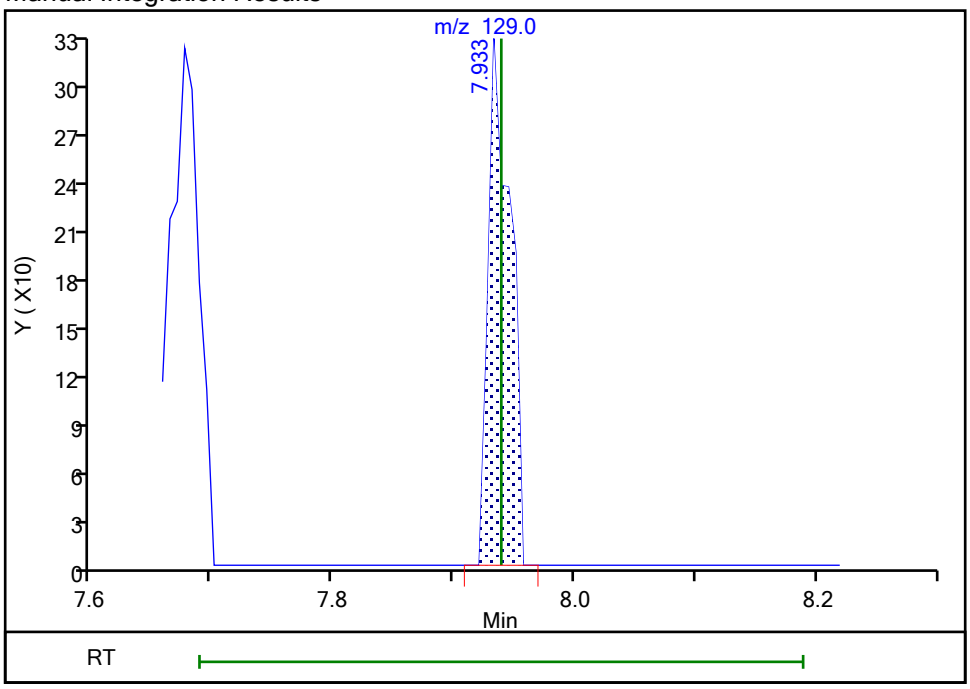
Not Detected
Expected RT: 7.94

Processing Integration Results



Manual Integration Results

RT: 7.93
Area: 417
Amount: 0.269905
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:08
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

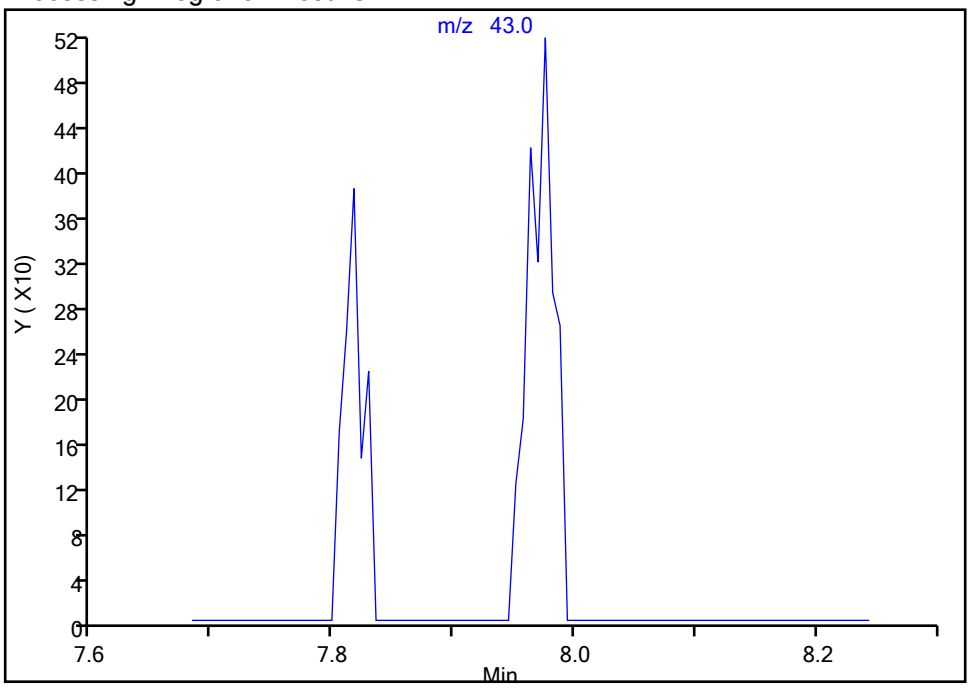
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

109 n-Butyl acetate, CAS: 123-86-4

Signal: 1

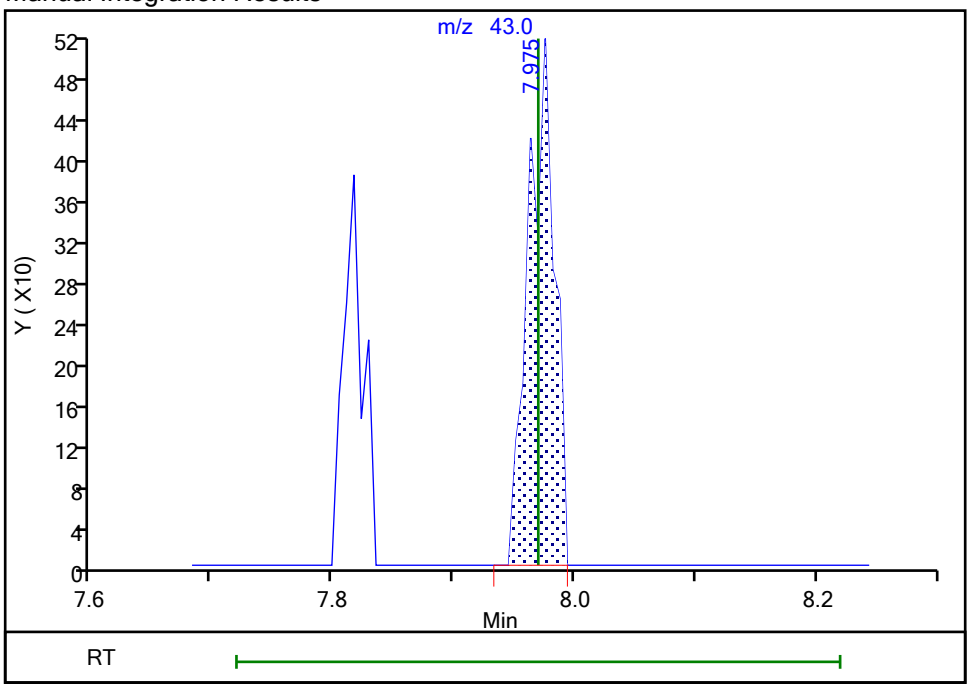
Not Detected
Expected RT: 7.97

Processing Integration Results



Manual Integration Results

RT: 7.98
Area: 766
Amount: 0.336152
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:16
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

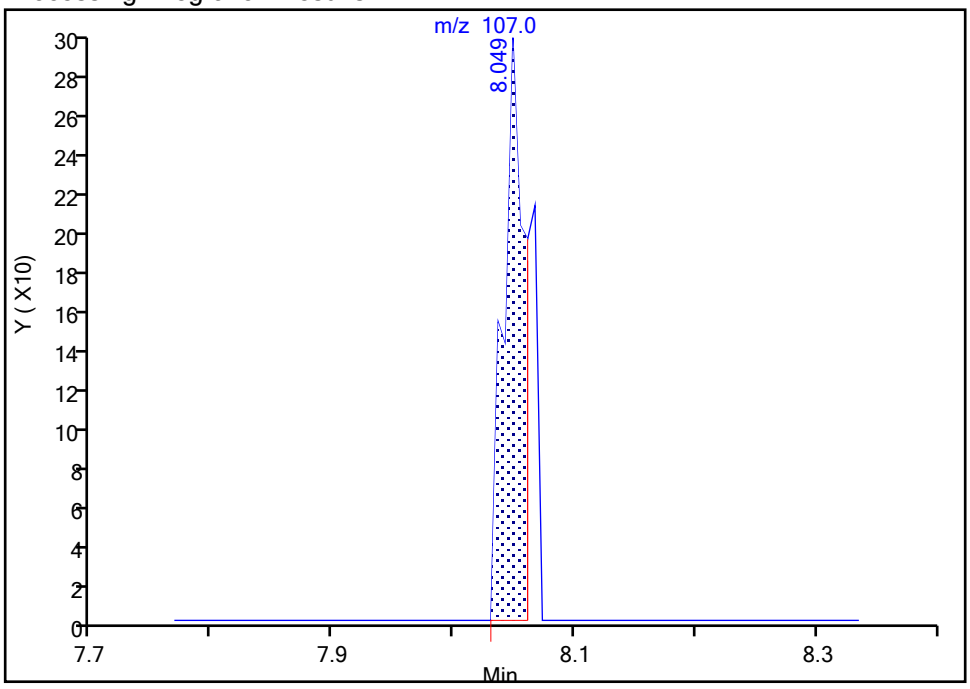
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

70 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

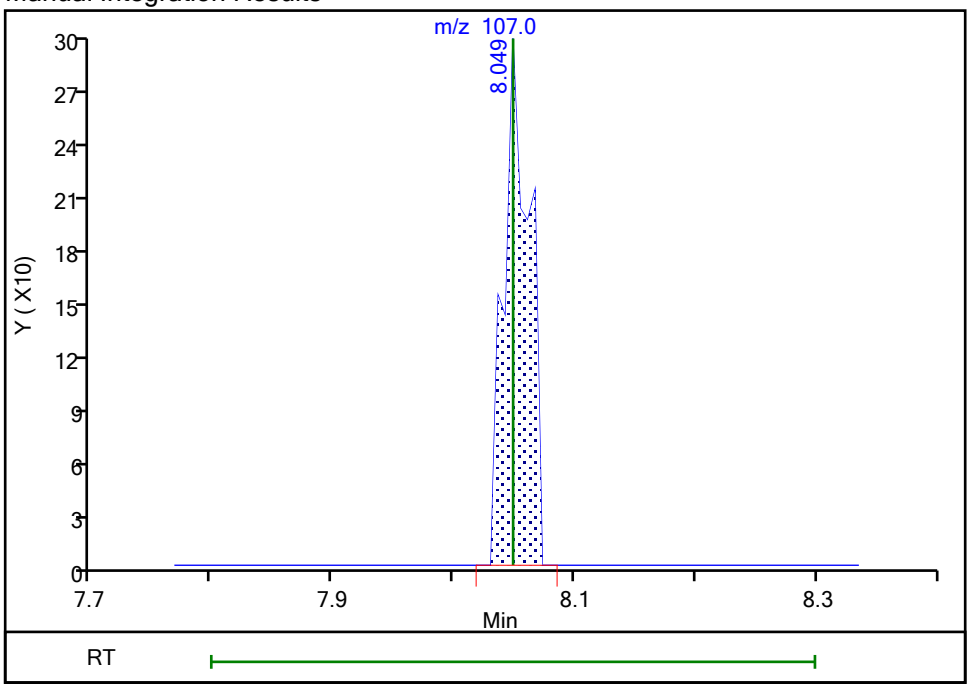
Processing Integration Results

RT: 8.05
Area: 358
Amount: 0.494145
Amount Units: ug/l



Manual Integration Results

RT: 8.05
Area: 434
Amount: 0.304062
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:23
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

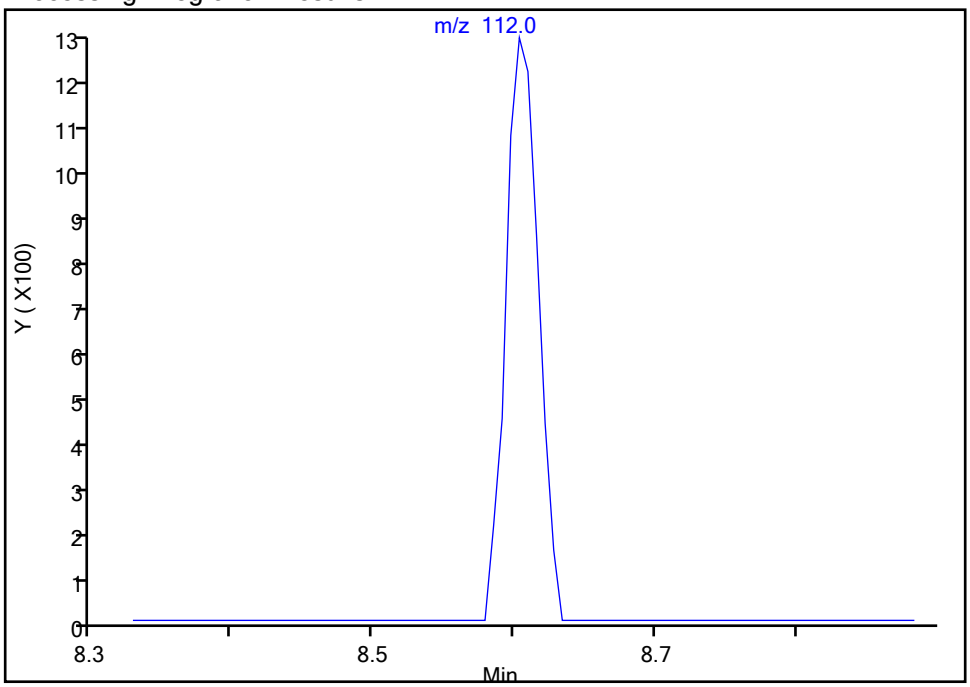
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

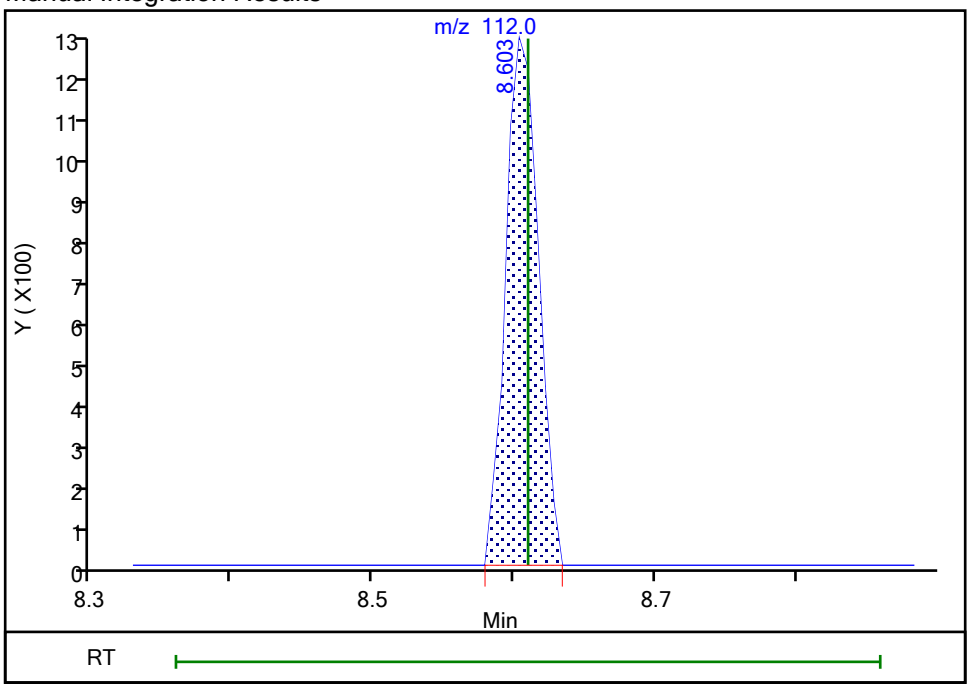
Not Detected
Expected RT: 8.61

Processing Integration Results



Manual Integration Results

RT: 8.60
Area: 1937
Amount: 0.367289
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:32
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

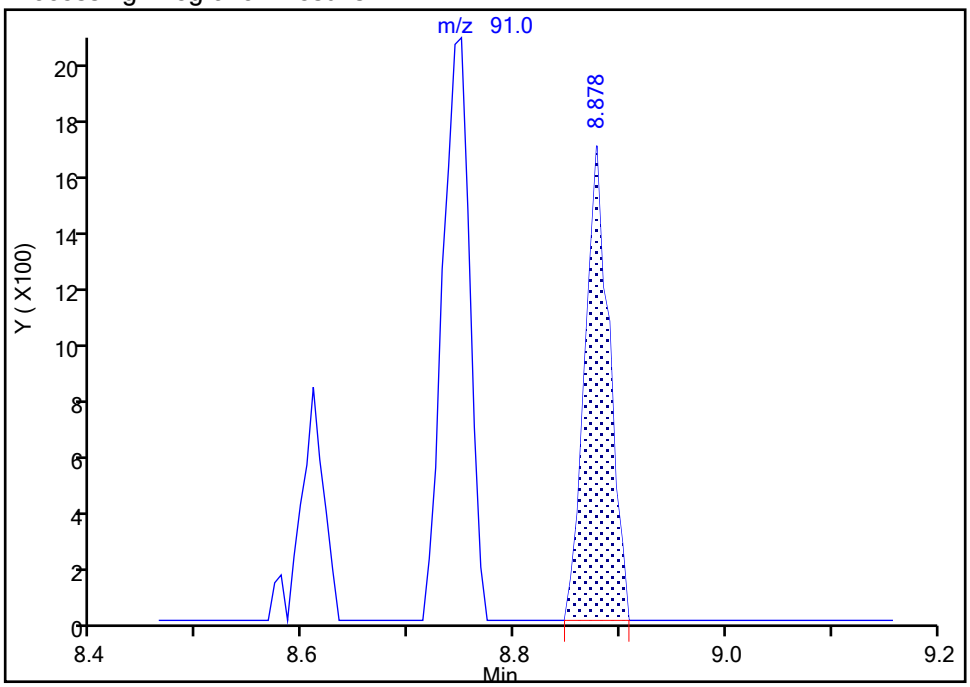
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

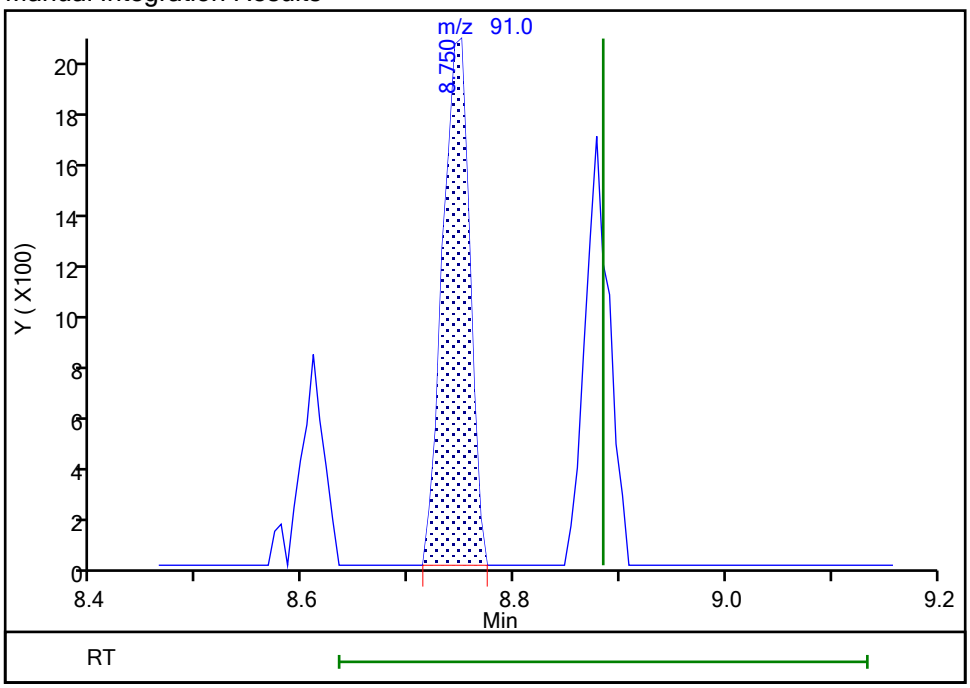
Processing Integration Results

RT: 8.88
Area: 2606
Amount: 0.365107
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 3560
Amount: 0.385644
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:54
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

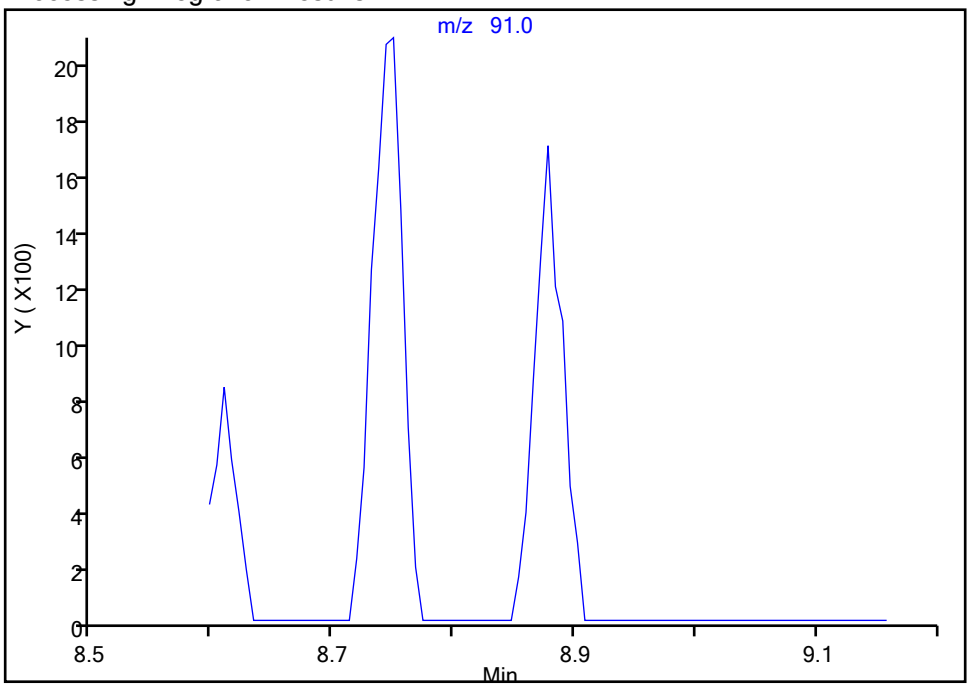
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

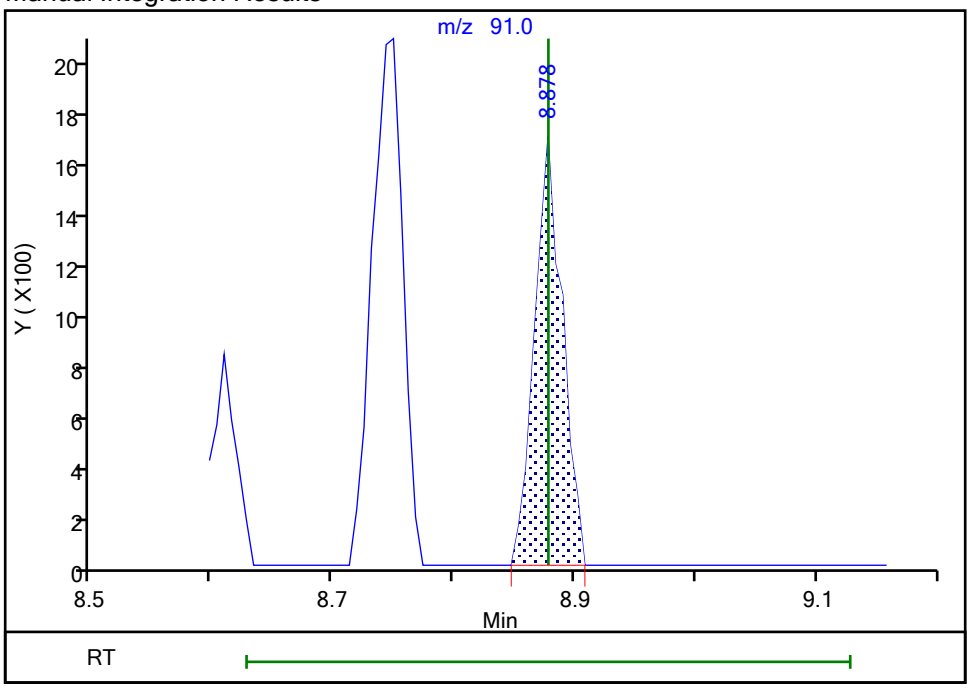
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 2606
Amount: 0.406819
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:09:40
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

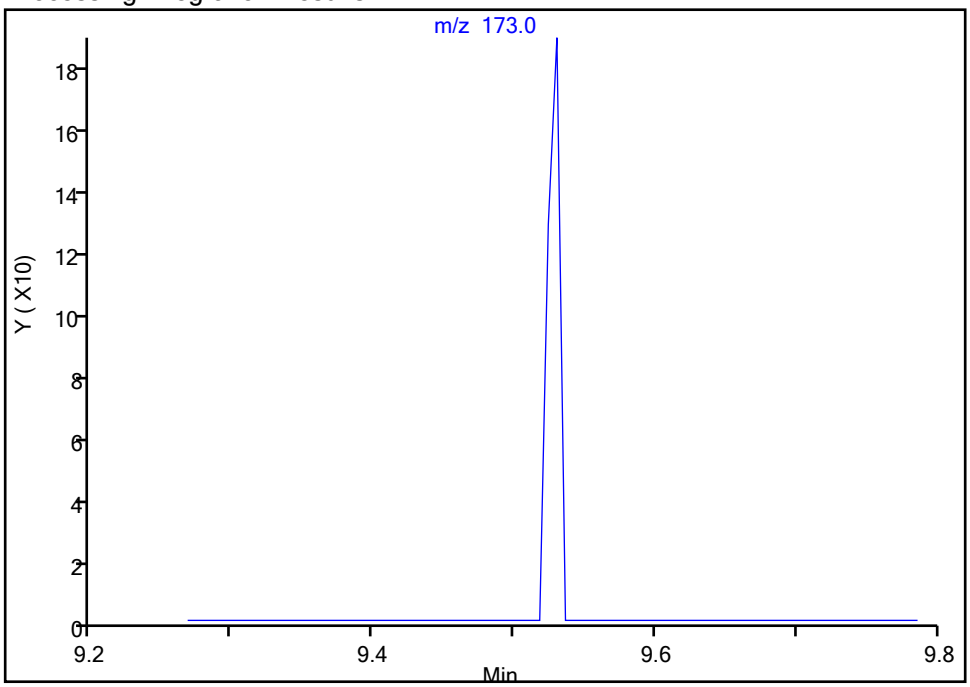
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

77 Bromoform, CAS: 75-25-2

Signal: 1

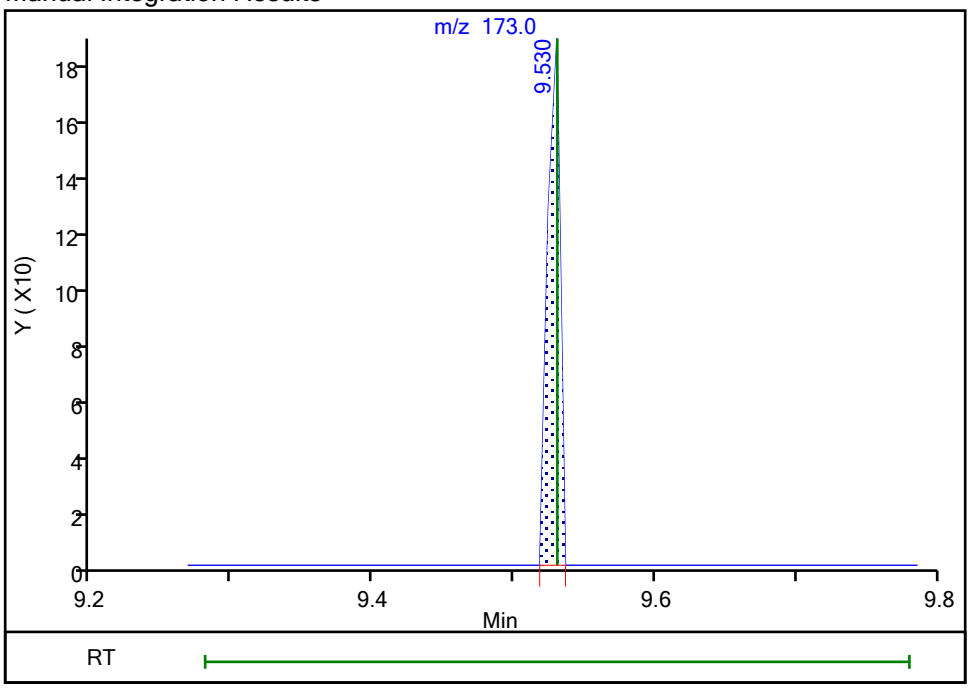
Not Detected
Expected RT: 9.53

Processing Integration Results



Manual Integration Results

RT: 9.53
Area: 111
Amount: 0.120915
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:07
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

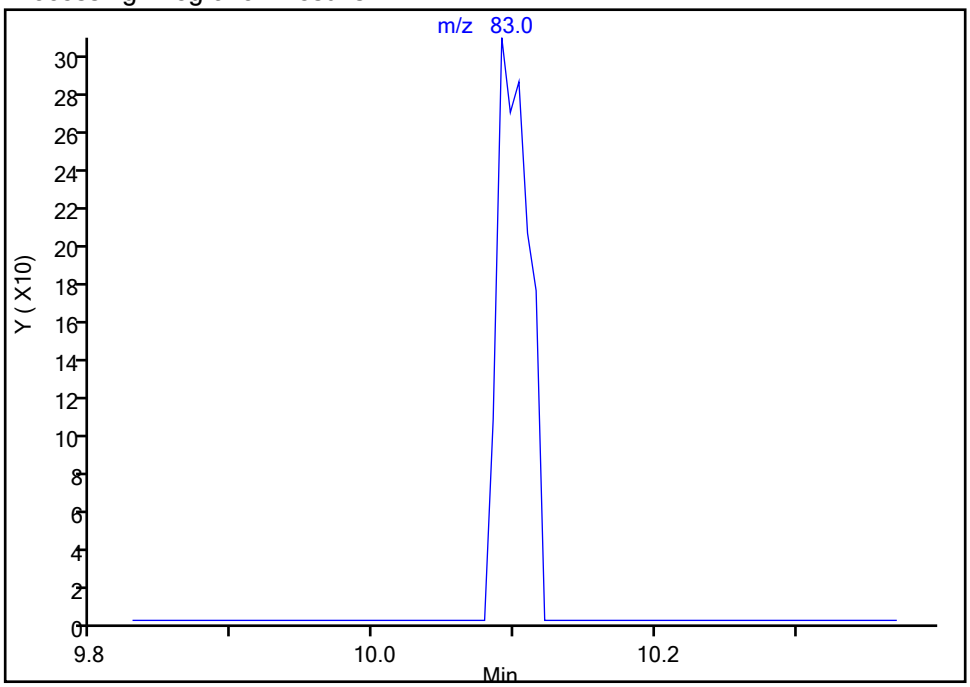
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

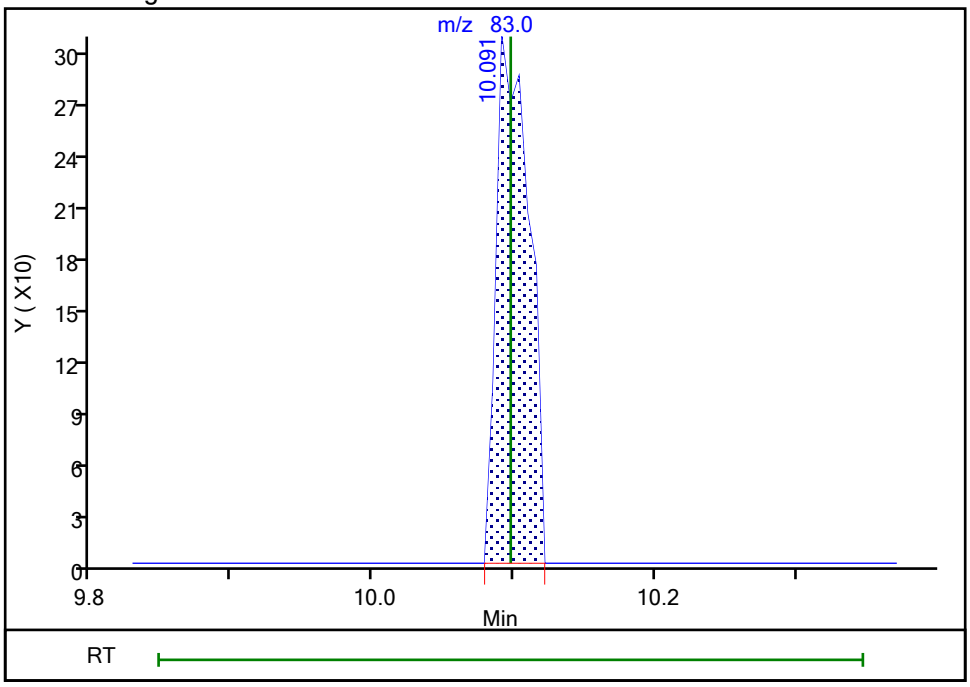
Not Detected
Expected RT: 10.10

Processing Integration Results



Manual Integration Results

RT: 10.09
Area: 486
Amount: 0.339148
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:16
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

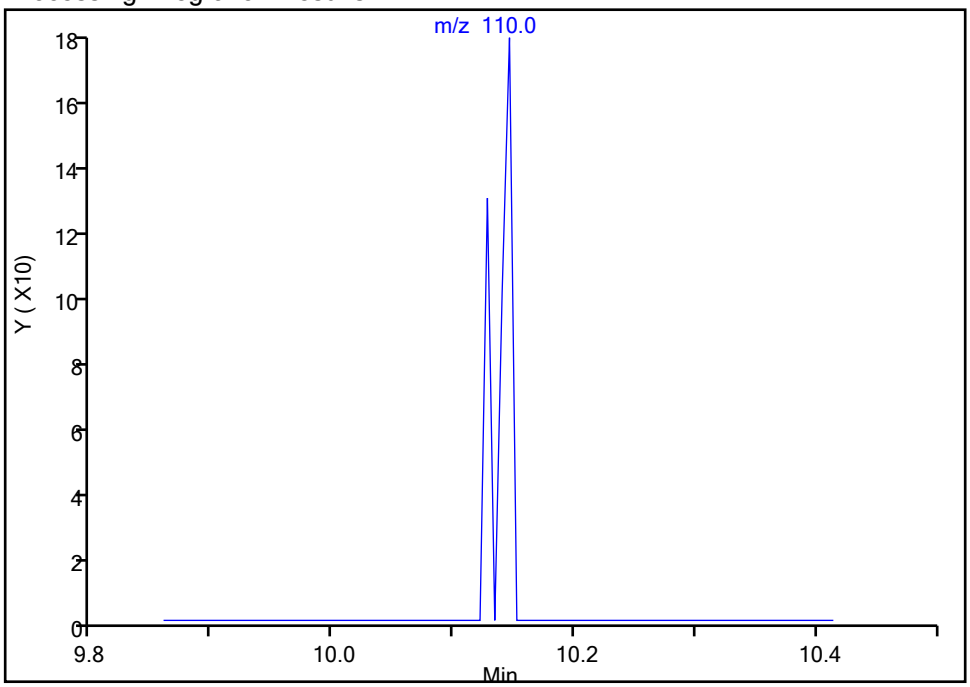
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

81 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

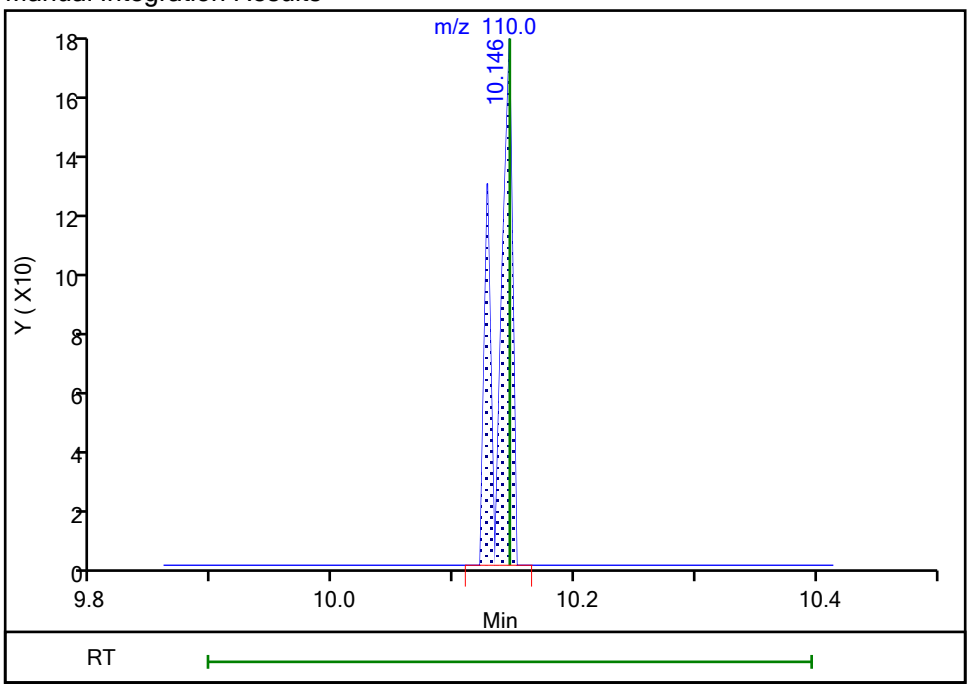
Not Detected
Expected RT: 10.15

Processing Integration Results



Manual Integration Results

RT: 10.15
Area: 149
Amount: 0.269089
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:46
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

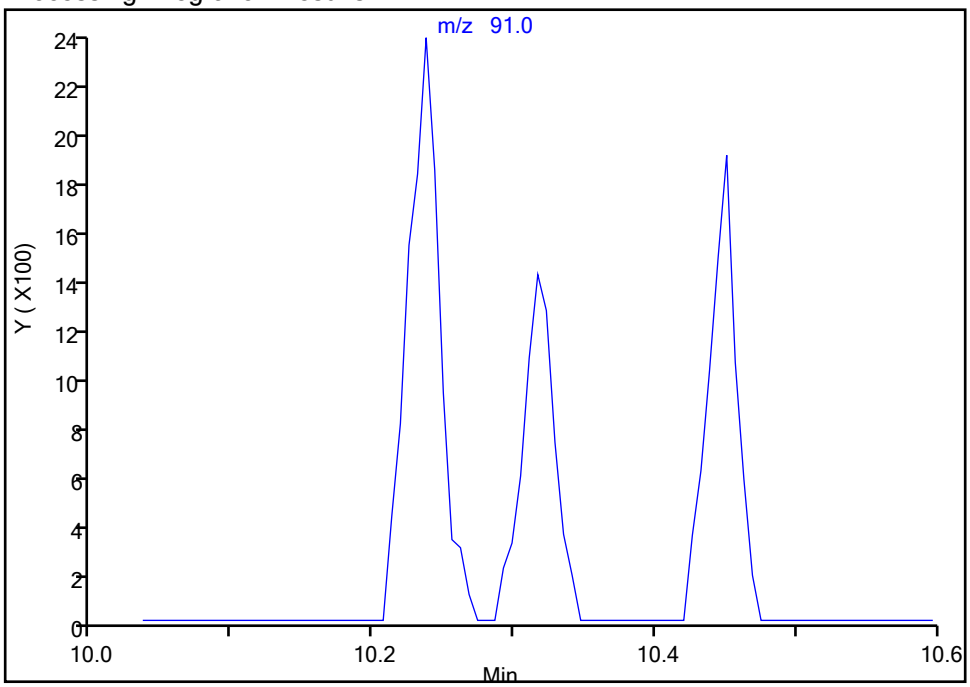
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

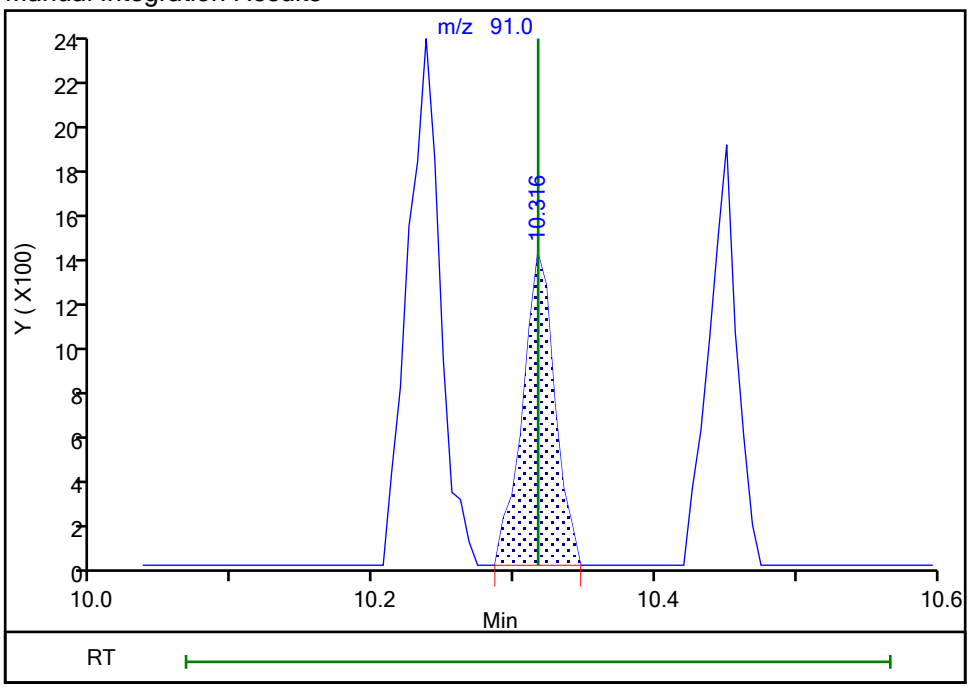
Not Detected
Expected RT: 10.32

Processing Integration Results



Manual Integration Results

RT: 10.32
Area: 2244
Amount: 0.373702
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:10:57
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

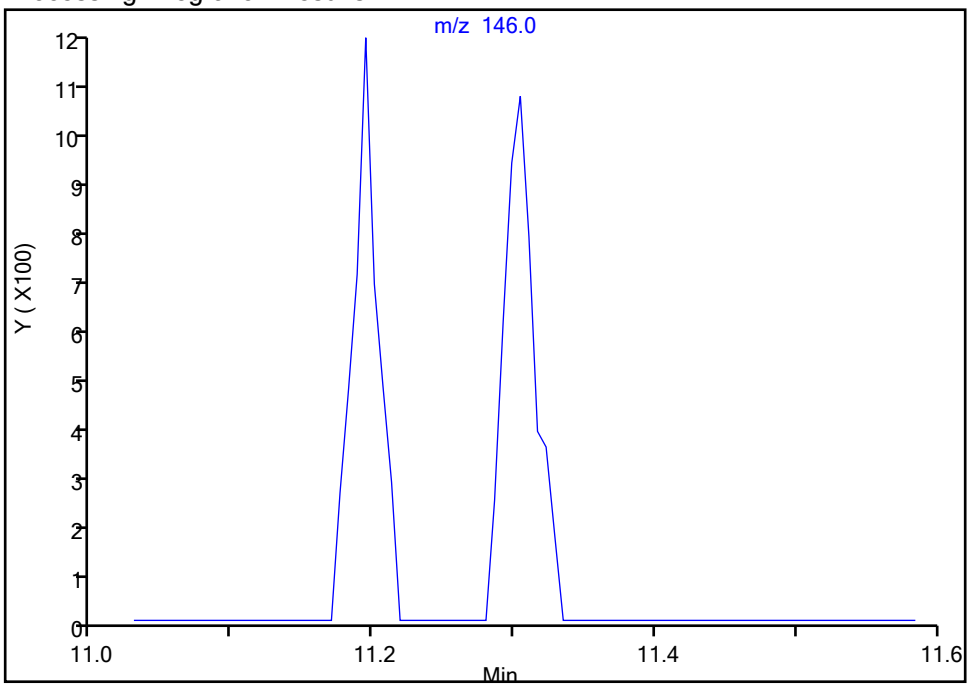
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

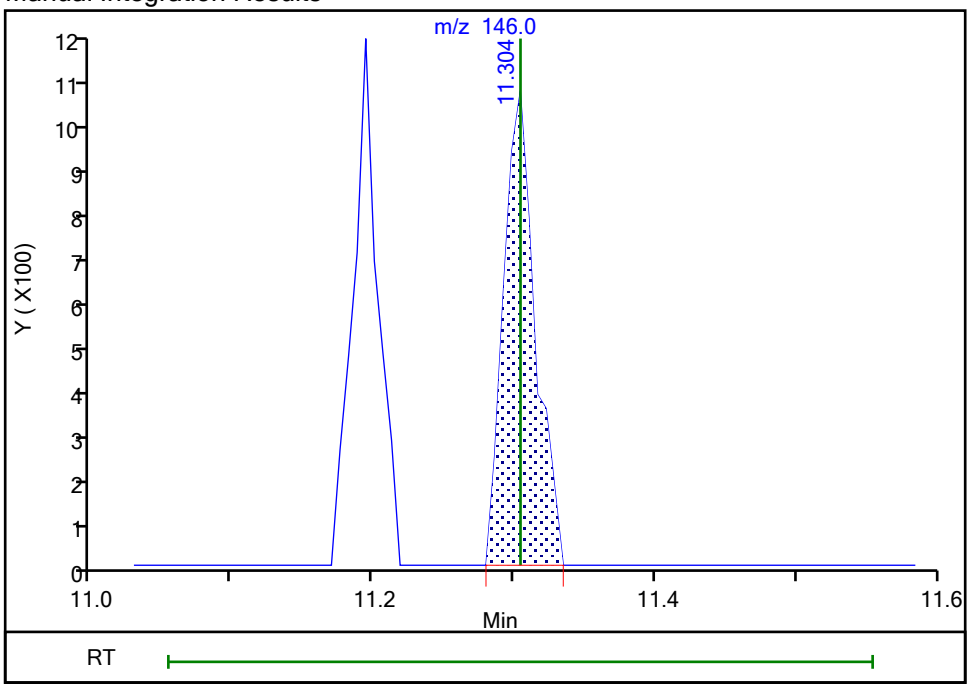
Not Detected
Expected RT: 11.30

Processing Integration Results



Manual Integration Results

RT: 11.30
Area: 1564
Amount: 0.403633
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:14
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

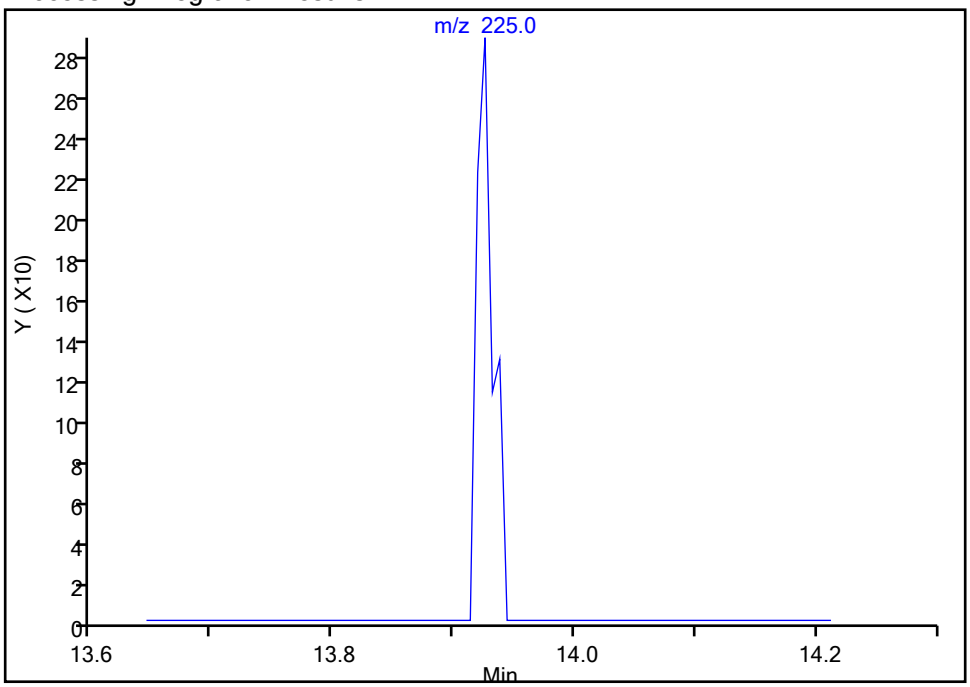
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

97 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

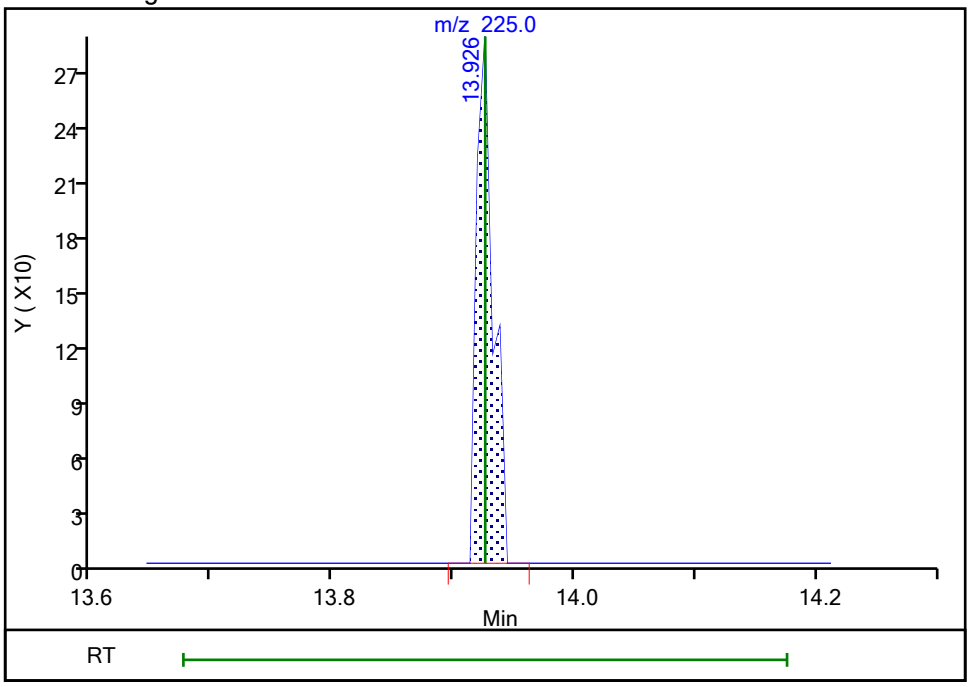
Not Detected
Expected RT: 13.93

Processing Integration Results



Manual Integration Results

RT: 13.93
Area: 268
Amount: 0.295841
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:34
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

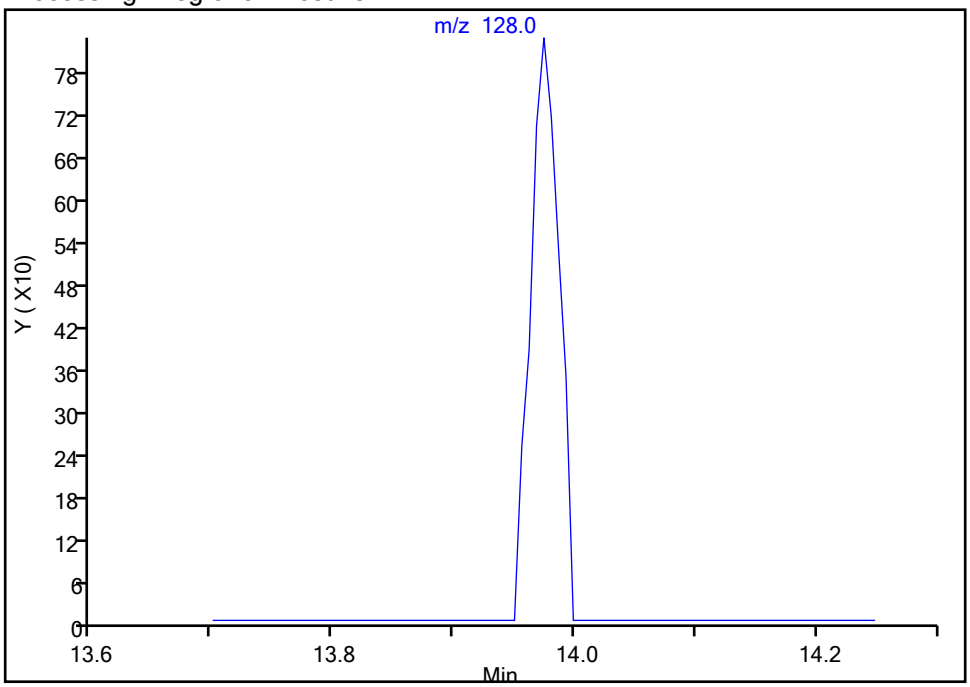
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

98 Naphthalene, CAS: 91-20-3

Signal: 1

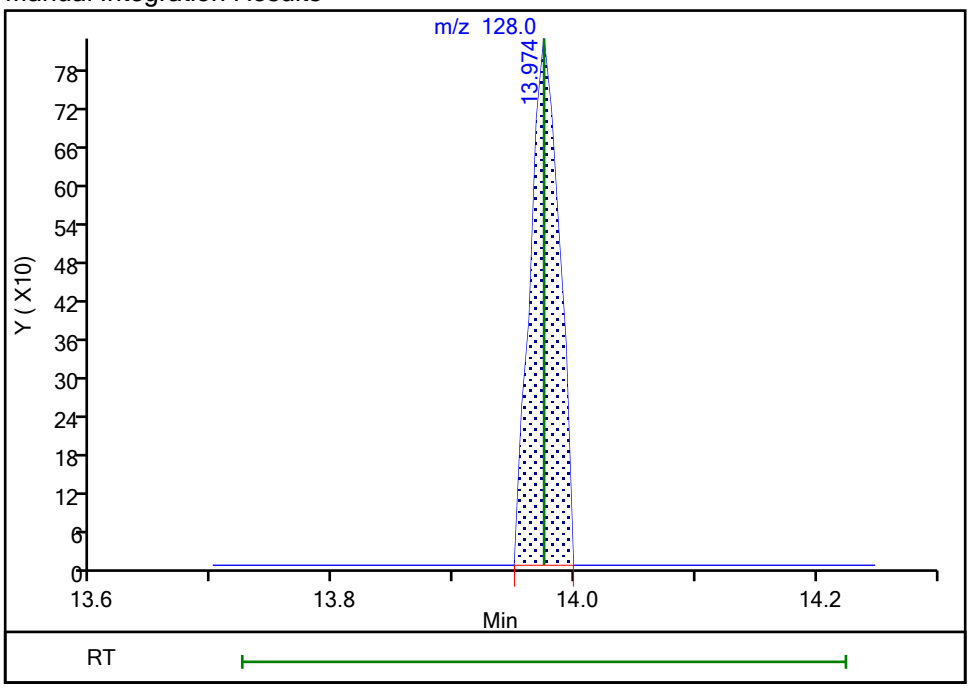
Not Detected
Expected RT: 13.97

Processing Integration Results



Manual Integration Results

RT: 13.97
Area: 1361
Amount: 0.335498
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:42
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

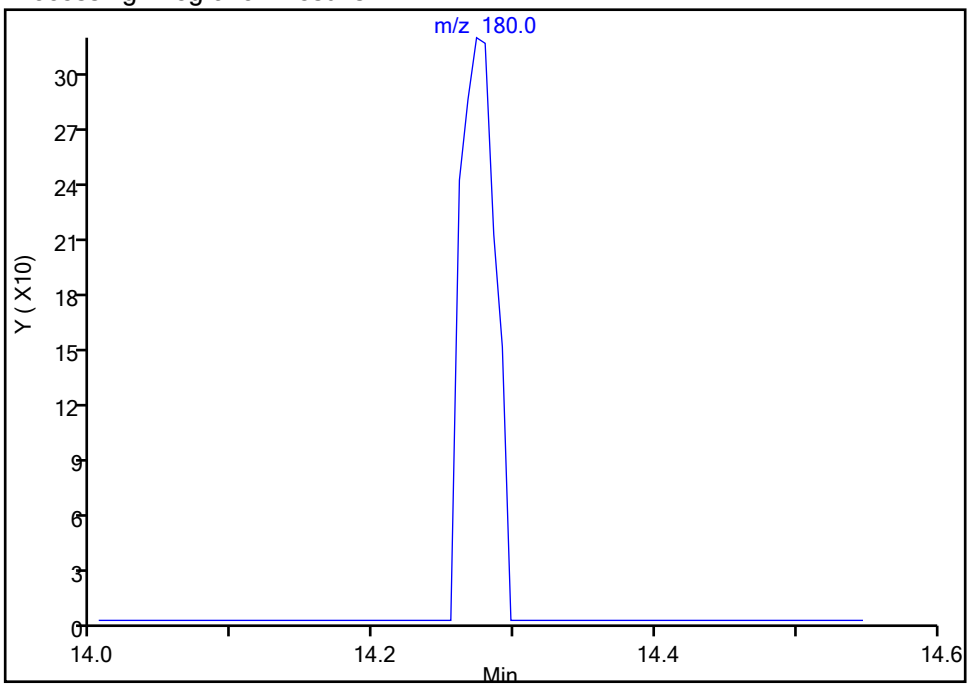
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5865.D
Injection Date: 13-Oct-2020 08:16:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

99 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

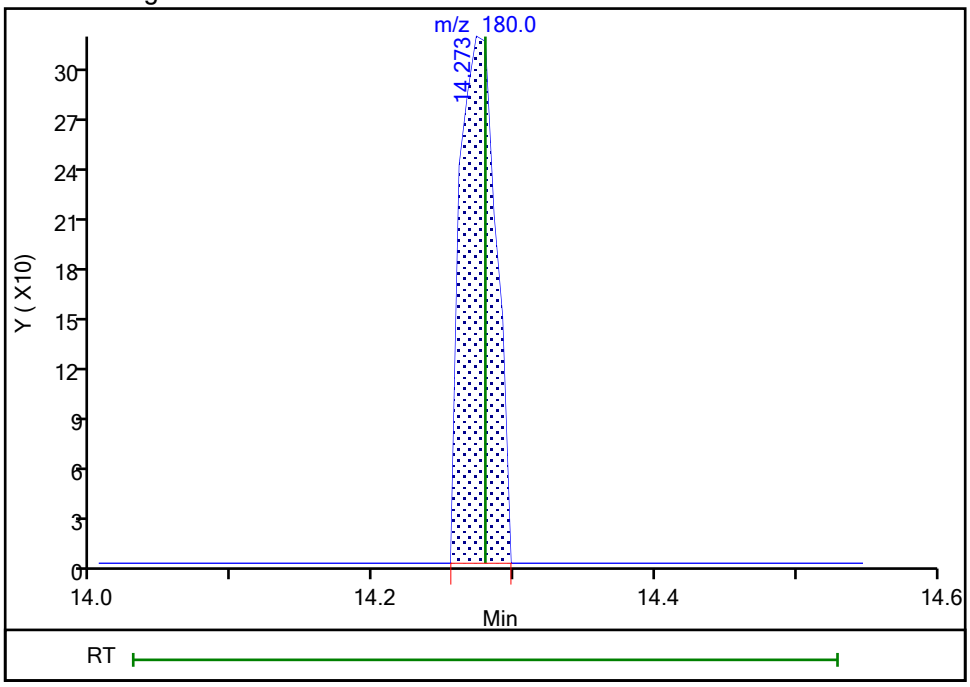
Not Detected
Expected RT: 14.28

Processing Integration Results



Manual Integration Results

RT: 14.27
Area: 543
Amount: 0.365690
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:11:49
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Oct-2020 08:40:30 ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:25:55 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:20:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	134334	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5109	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	87	103290	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	49230	50.0	50.0	
17 Ethanol	45	2.361	2.373	-0.012	17	573	40.0	49.0	M
18 Ethyl ether	59	2.446	2.452	-0.006	86	1058	1.00	0.9317	
19 Acrolein	56	2.556	2.550	0.006	62	831	4.76	4.81	M
20 1,1-Dichloroethene	96	2.653	2.647	0.006	94	1264	1.00	0.9147	M
21 112TCTFE	101	2.666	2.666	0.000	84	1013	1.00	0.7386	
22 Acetone	43	2.708	2.708	0.000	29	1183	2.00	0.0835	M
24 Carbon disulfide	76	2.830	2.836	-0.006	99	4177	1.00	1.02	M
105 Isopropyl alcohol	45	2.891	2.891	0.000	37	477	10.0	7.54	a
118 Acetonitrile	40	2.964	2.971	-0.007	96	1671	10.0	12.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	35	709	1.00	0.7941	M
26 Methyl acetate	43	3.037	3.031	0.006	75	2216	2.00	2.34	M
27 Methylene Chloride	84	3.111	3.105	0.006	93	1929	1.00	1.18	M
23 Iodomethane	142		3.153				ND	ND	
35 2-Methyl-2-propanol	59	3.275	3.263	0.012	6	770	10.0	8.60	
30 Acrylonitrile	53	3.342	3.342	0.000	93	4442	10.0	9.16	M
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	96	1517	1.00	0.9624	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	95	3470	1.00	0.9491	
31 Hexane	57	3.647	3.641	0.006	92	1793	1.00	0.8389	
32 1,1-Dichloroethane	63	3.769	3.775	-0.006	93	2800	1.00	0.9471	M
33 Vinyl acetate	86	3.830	3.842	-0.012	99	509	2.00	1.74	
34 2-Chloro-1,3-butadiene	53	3.848	3.854	-0.006	91	2284	1.00	0.7989	
36 Isopropyl ether	87	3.873	3.867	0.006	86	1231	1.00	0.8552	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	95	4334	1.00	0.9377	
39 cis-1,2-Dichloroethene	96	4.312	4.312	0.000	86	1787	1.00	0.99	M
38 2,2-Dichloropropane	77	4.324	4.318	0.006	68	1577	1.00	0.6761	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	98	1168	2.00	2.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	96	1738	10.0	9.01	Ma
104 Ethyl acetate	61	4.409	4.415	-0.006	44	345	2.00	1.56	M
43 Methacrylonitrile	67	4.537	4.543	-0.006	89	5227	10.0	9.13	
42 Chlorobromomethane	128	4.543	4.543	0.000	41	760	1.00	1.01	M
44 Tetrahydrofuran	71	4.610	4.598	0.012	31	149	2.00	1.11	M
45 Chloroform	83	4.629	4.635	-0.006	94	3636	1.00	1.18	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	94	1992	1.00	0.7860	
47 Cyclohexane	56	4.842	4.848	-0.006	90	2425	1.00	0.8023	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	74	1525	1.00	0.6954	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	90	2018	1.00	0.8505	
108 Isobutyl alcohol	43	5.122	5.117	0.006	87	1045	25.0	21.8	
50 Benzene	78	5.153	5.153	0.000	97	6512	1.00	0.9381	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	96	2311	1.00	1.05	
116 n-Butanol	56	5.263	5.257	0.006	46	1411	25.0	20.9	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	92	3635	1.00	0.8725	
53 n-Heptane	43	5.446	5.446	0.000	36	1932	1.00	0.8954	
54 Trichloroethene	95	5.787	5.793	-0.006	95	1616	1.00	0.9107	
117 Ethyl acrylate	55	5.921	5.927	-0.006	94	1466	1.00	0.8742	
114 Methylcyclohexane	83	5.982	5.988	-0.006	85	2707	1.00	0.9291	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	90	1725	1.00	1.02	a
56 Dibromomethane	93	6.110	6.122	-0.012	36	861	1.00	0.9559	a
57 Methyl methacrylate	69	6.159	6.153	0.006	94	1608	2.00	1.67	
115 1,4-Dioxane	58		6.159				ND	ND	
58 Dichlorobromomethane	83	6.287	6.287	0.000	97	1927	1.00	0.9413	
106 2-Nitropropane	43	6.525	6.519	0.006	21	221	2.00	0.7432	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	89	750	1.00	0.7975	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	92	1841	1.00	0.7510	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	95	2190	2.00	1.69	
62 Toluene	92	7.104	7.098	0.006	96	4514	1.00	0.9562	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	92	1546	1.00	1.01	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	82	1652	1.00	0.8959	
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	81	966	1.00	0.8570	
66 Tetrachloroethene	166	7.683	7.677	0.006	92	1850	1.00	0.9515	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	93	2326	1.00	0.9630	
68 2-Hexanone	43	7.823	7.817	0.006	92	1326	2.00	1.57	a
69 Chlorodibromomethane	129	7.939	7.939	0.000	83	1184	1.00	0.7871	a
109 n-Butyl acetate	43	7.976	7.970	0.006	94	1720	1.00	0.7753	
70 Ethylene Dibromide	107	8.049	8.049	0.000	95	1138	1.00	0.8189	
71 Chlorobenzene	112	8.610	8.610	0.000	96	5797	1.00	1.12	a
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	90	1203	1.00	0.7183	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	97	3204	1.00	0.9079	
73 Ethylbenzene	91	8.744	8.884	-0.140	97	8228	1.00	0.9076	a
75 o-Xylene	106	9.329	9.317	0.012	96	3347	1.00	1.00	
76 Styrene	104	9.341	9.341	0.000	90	4846	1.00	0.8709	
77 Bromoform	173	9.524	9.530	-0.006	1	504	1.00	0.5591	
78 Isopropylbenzene	105	9.756	9.762	-0.006	95	7726	1.00	0.8842	
79 Bromobenzene	156	10.079	10.085	-0.006	91	2191	1.00	1.03	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	89	1502	1.00	0.9667	a
81 1,2,3-Trichloropropane	110	10.140	10.146	-0.006	86	444	1.00	0.8165	M
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	1	283	1.00	0.6256	a
83 N-Propylbenzene	91	10.237	10.237	0.000	99	8755	1.00	0.8695	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	5691	1.00	0.9651	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.445	10.451	-0.006	97	6384	1.00	0.9199	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	89	6365	1.00	0.9129	
87 tert-Butylbenzene	119	10.829	10.829	0.000	91	5525	1.00	0.9143	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	6281	1.00	0.8748	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	7054	1.00	0.8208	
90 1,3-Dichlorobenzene	146	11.200	11.188	0.012	96	3606	1.00	0.9551	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	50	6323	1.00	0.8628	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	97	6300	1.00	0.9036	
92 1,4-Dichlorobenzene	146	11.298	11.304	-0.006	93	3818	1.00	0.9767	a
113 Benzyl chloride	126	11.469	11.463	0.006	92	241	1.00	0.3800	a
93 1,2-Dichlorobenzene	146	11.737	11.737	0.000	94	3220	1.00	0.8753	
94 n-Butylbenzene	91	11.767	11.761	0.006	97	5139	1.00	0.7964	
95 1,2-Dibromo-3-Chloropropane	75		12.682				ND	ND	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	91	2007	1.00	0.8934	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	92	1607	1.00	0.8564	
97 Hexachlorobutadiene	225	13.932	13.926	0.006	86	786	1.00	0.8601	
98 Naphthalene	128	13.980	13.974	0.006	96	3323	1.00	0.8120	
99 1,2,3-Trichlorobenzene	180	14.273	14.279	-0.006	92	1436	1.00	0.9586	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		2.00	1.95	
S 102 1,3-Dichloropropene, Total	1				0		2.00	1.76	
S 100 Xylenes, Total	1				0		2.00	1.90	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

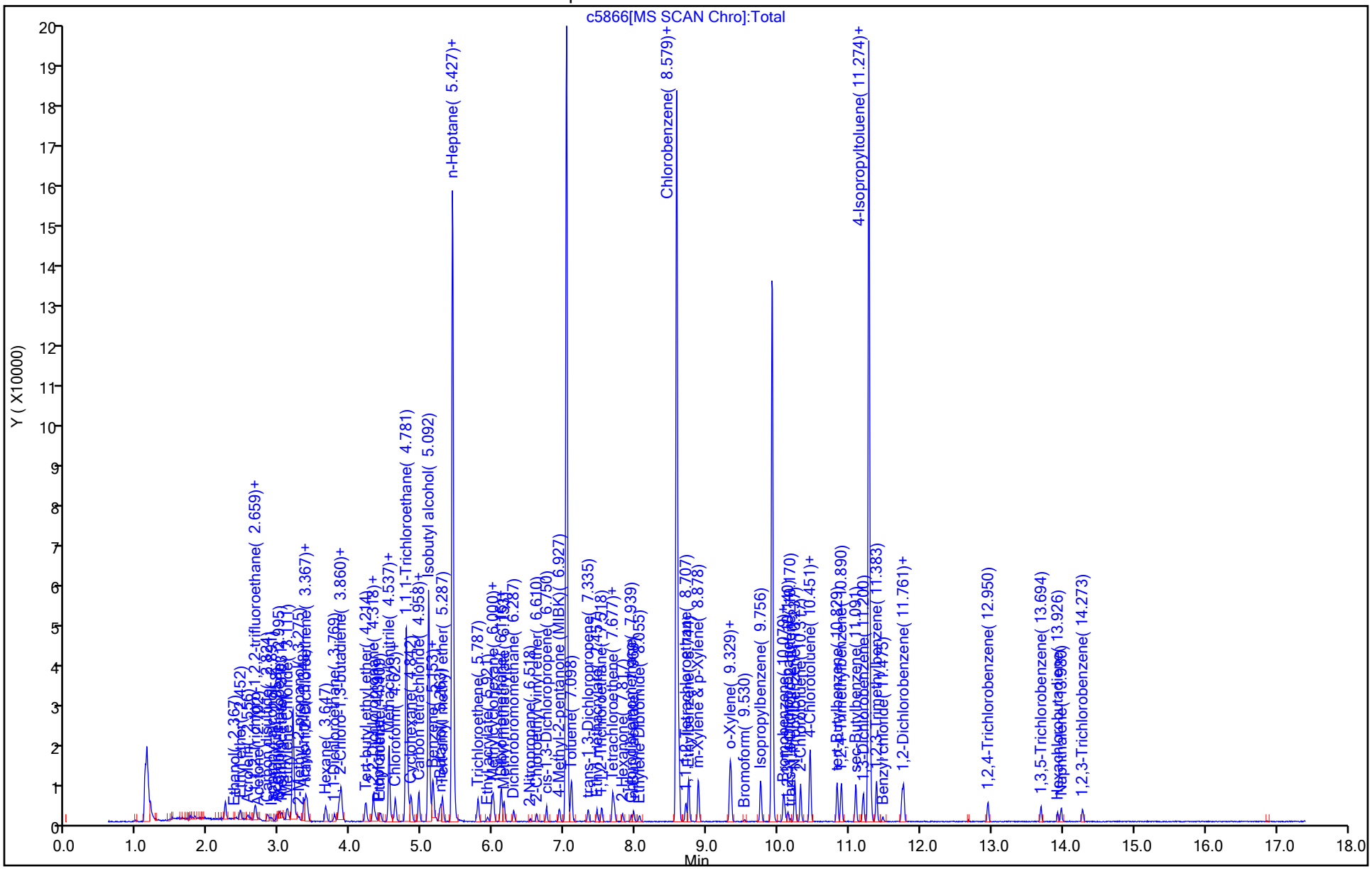
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	1.00	Units: uL

Report Date: 13-Oct-2020 18:25:58 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D

Injection Date:	13-Oct-2020 08:40:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std2			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls

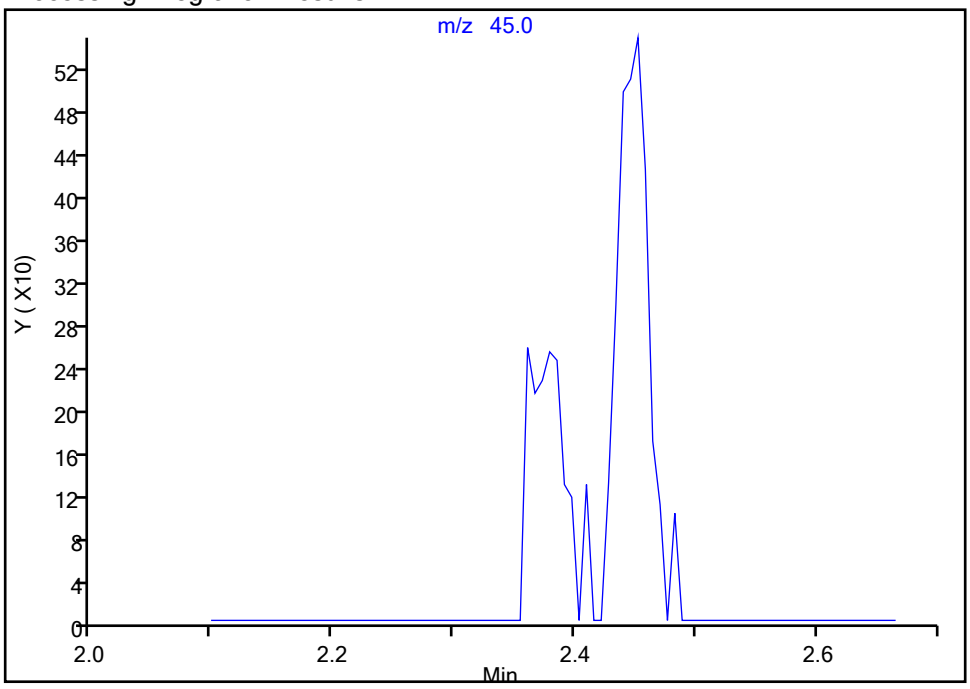
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

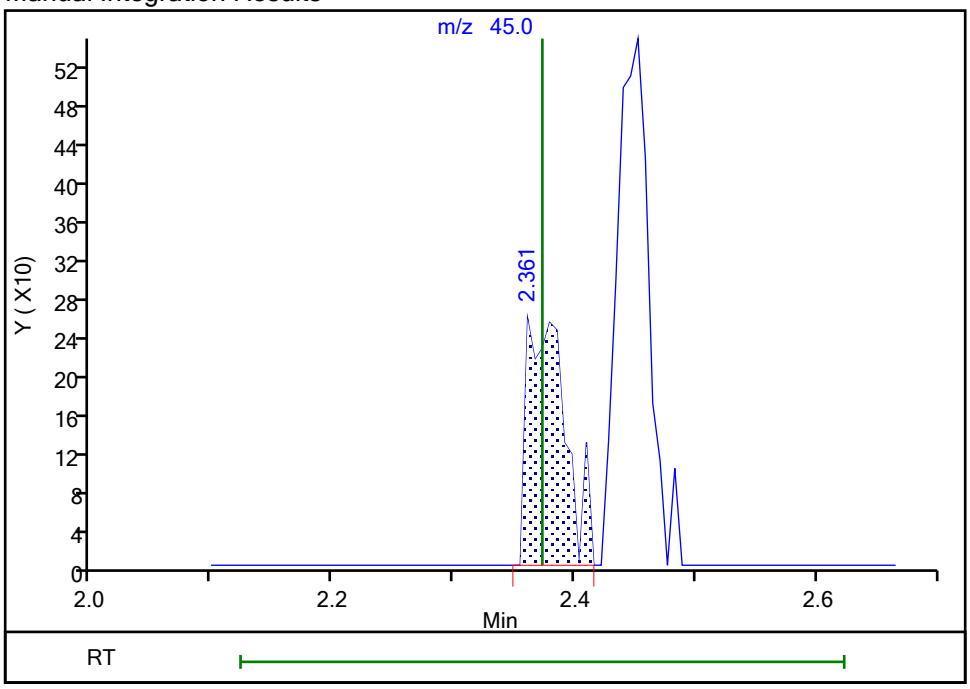
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.36
Area: 573
Amount: 49.049625
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:20:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

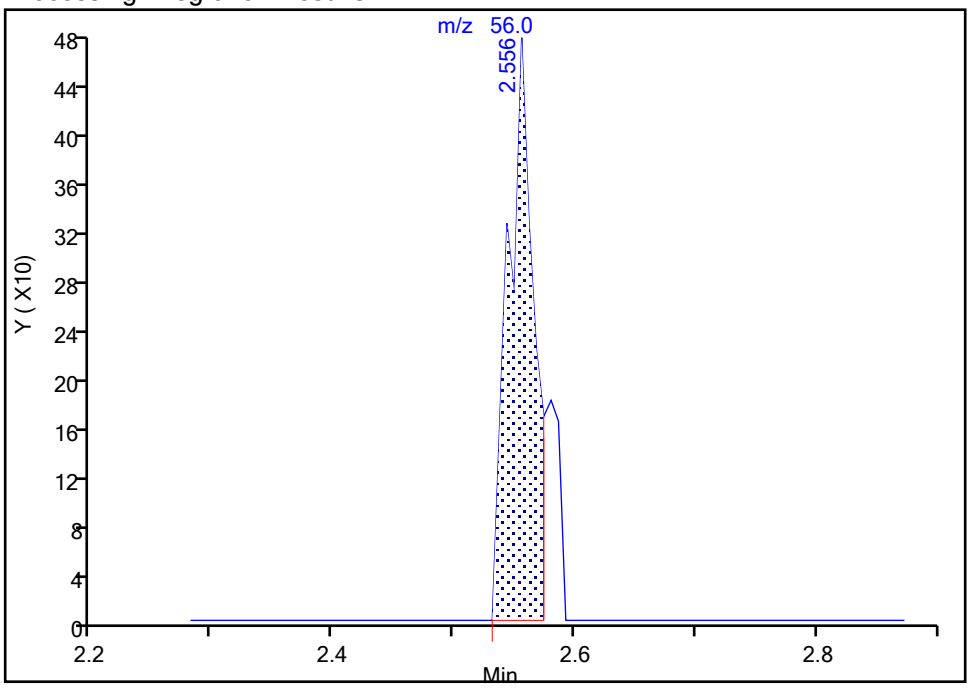
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

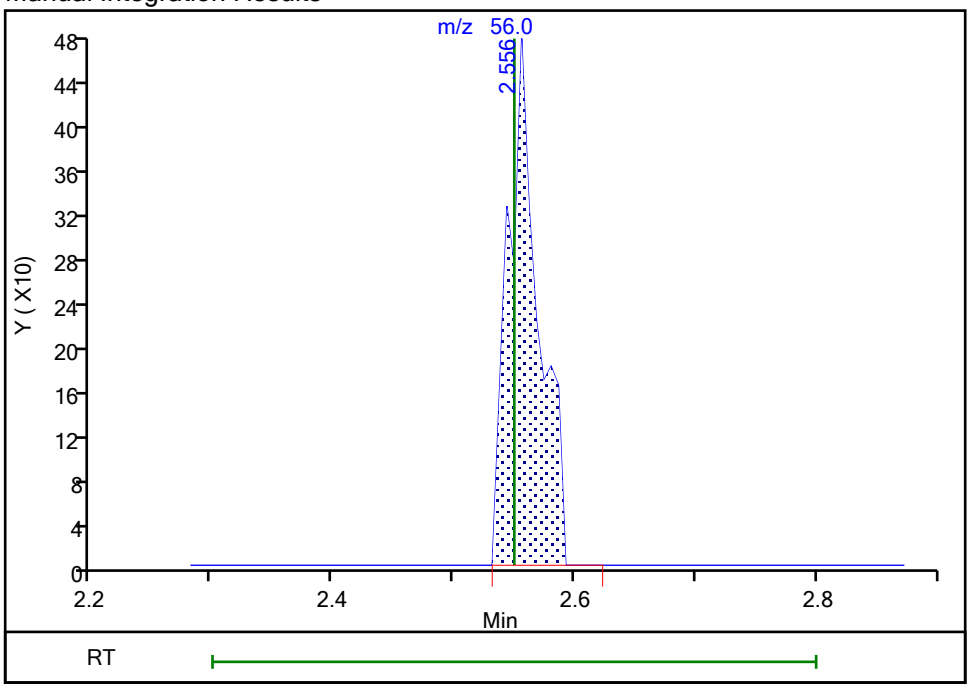
Processing Integration Results

RT: 2.56
Area: 707
Amount: 5.433855
Amount Units: ug/l



Manual Integration Results

RT: 2.56
Area: 831
Amount: 4.810196
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

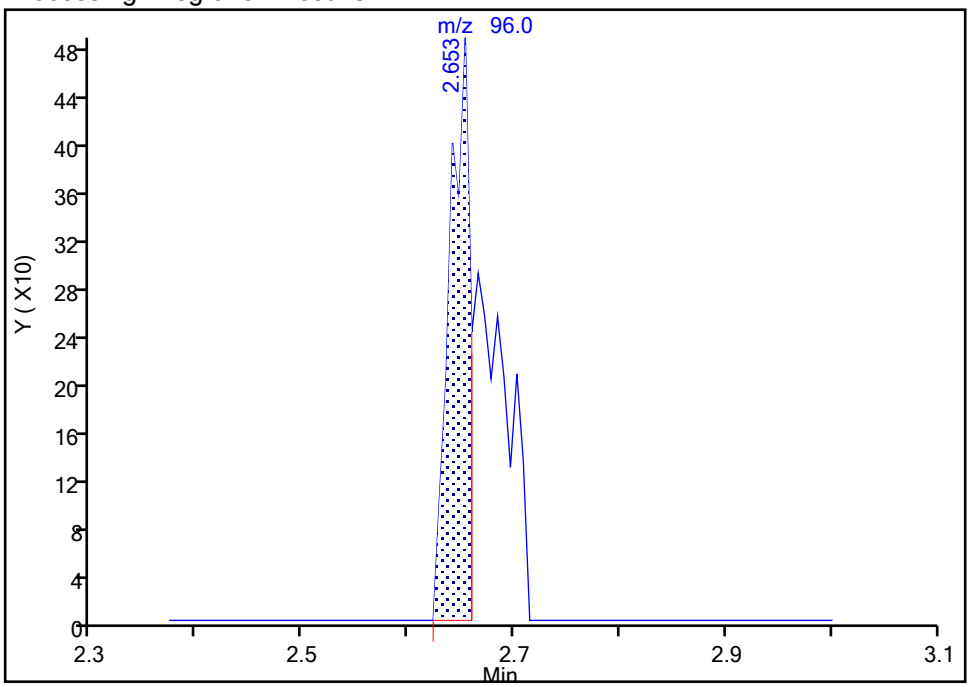
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

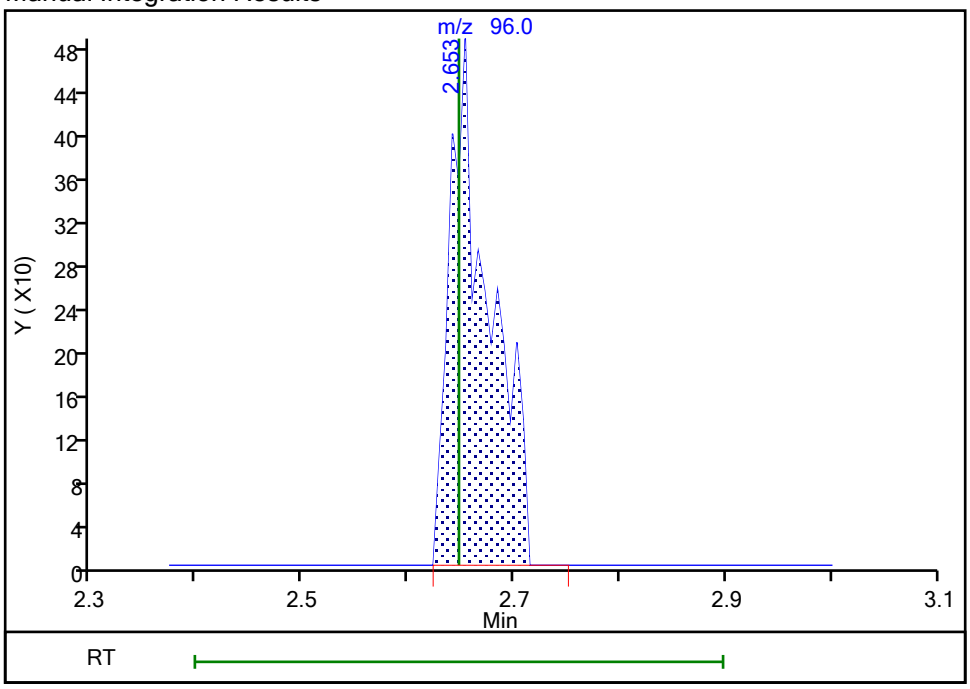
Processing Integration Results

RT: 2.65
Area: 653
Amount: 0.863317
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 1264
Amount: 0.914725
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

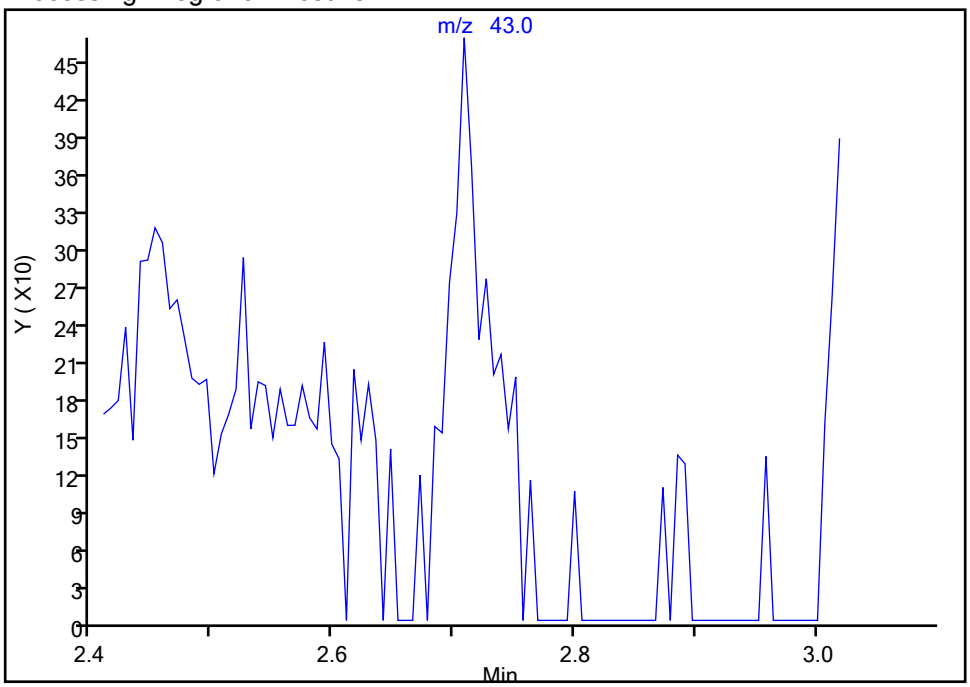
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

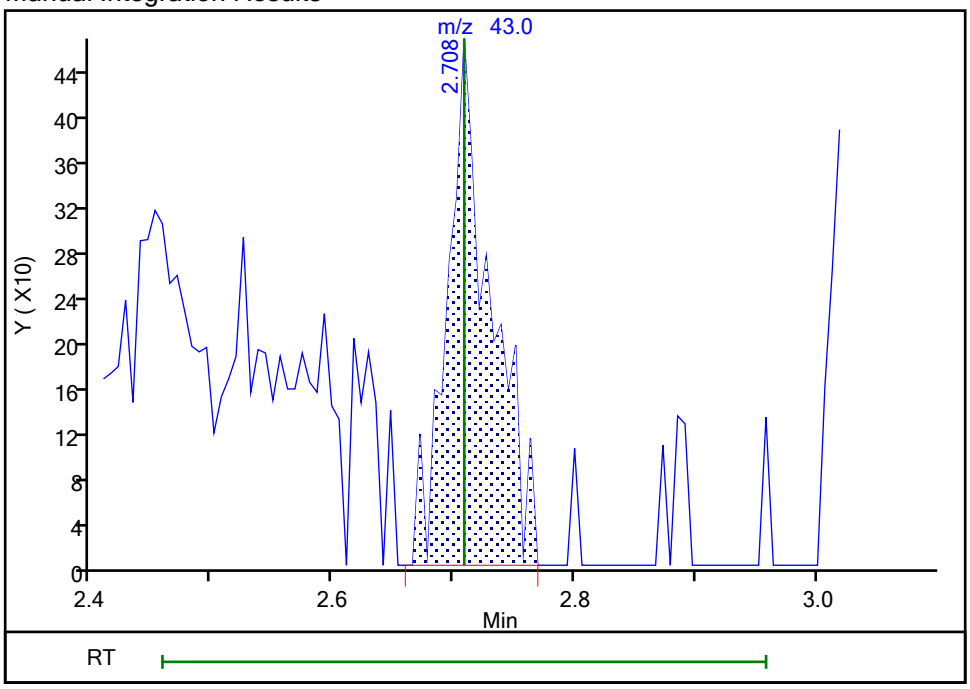
Not Detected
Expected RT: 2.71

Processing Integration Results



Manual Integration Results

RT: 2.71
Area: 1183
Amount: 0.083480
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

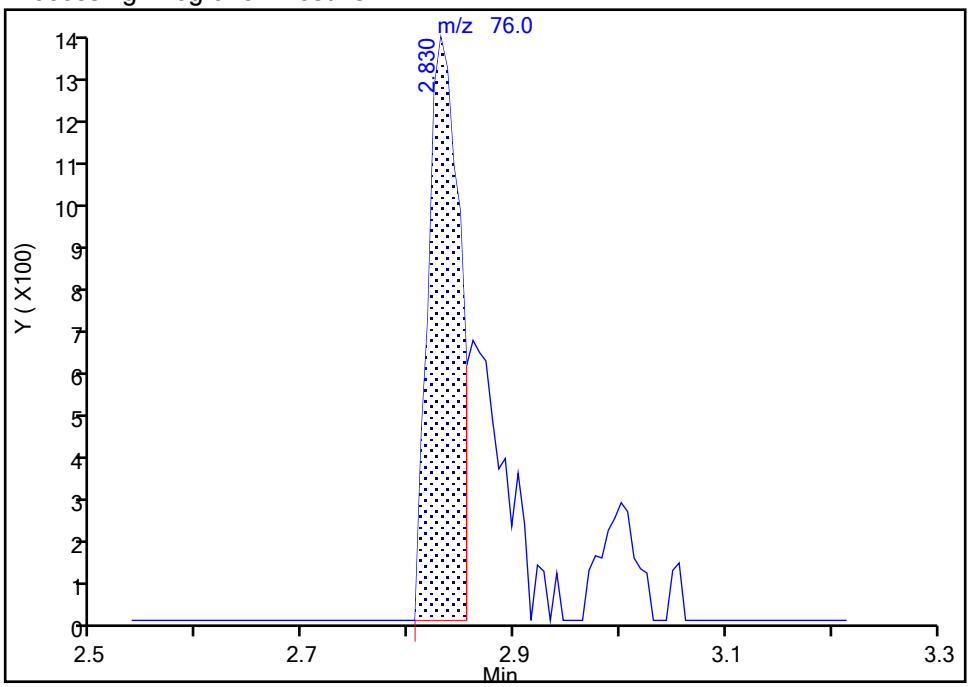
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

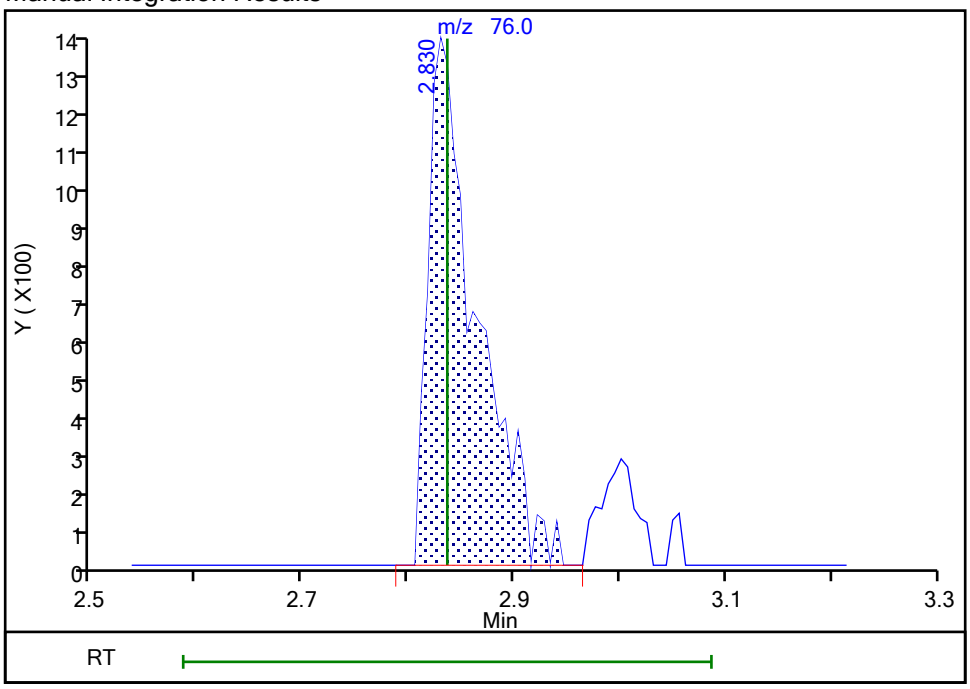
Processing Integration Results

RT: 2.83
Area: 2690
Amount: 0.675083
Amount Units: ug/l



Manual Integration Results

RT: 2.83
Area: 4177
Amount: 1.021023
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

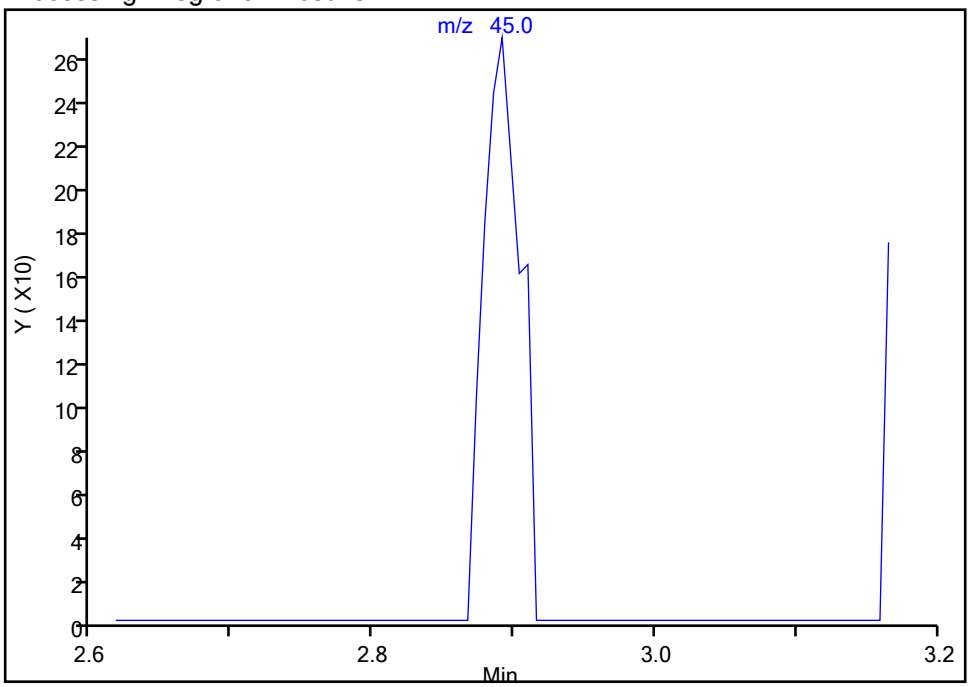
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

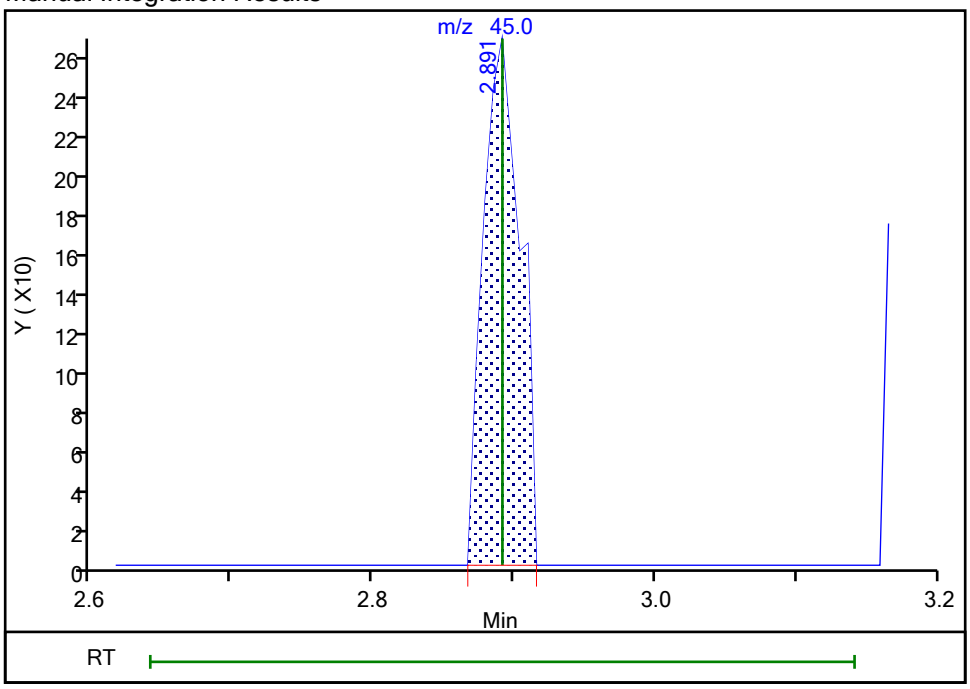
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 477
Amount: 7.535632
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:17
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

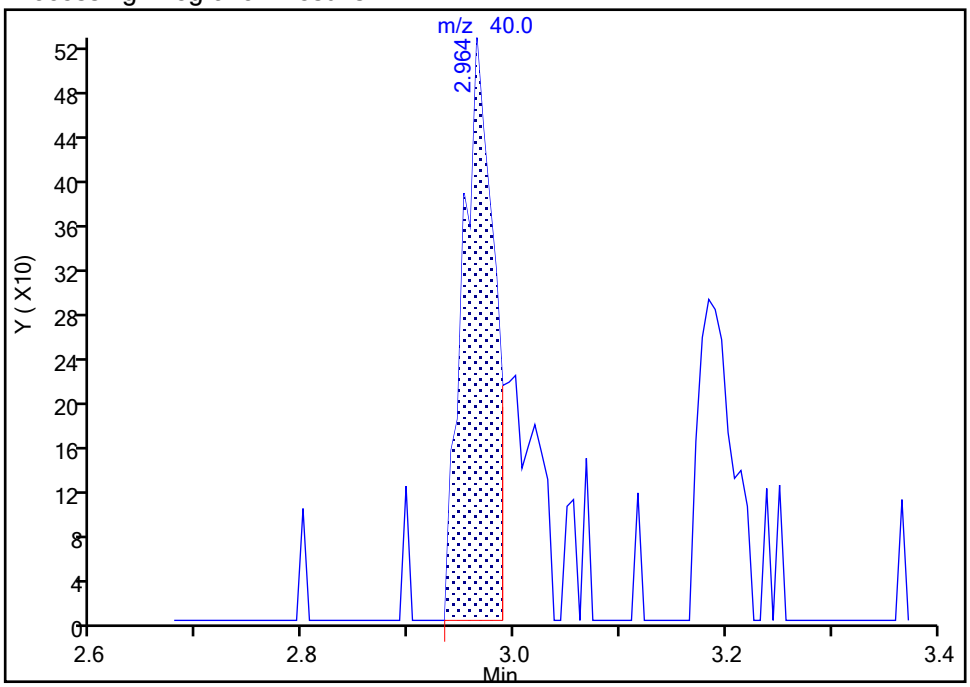
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

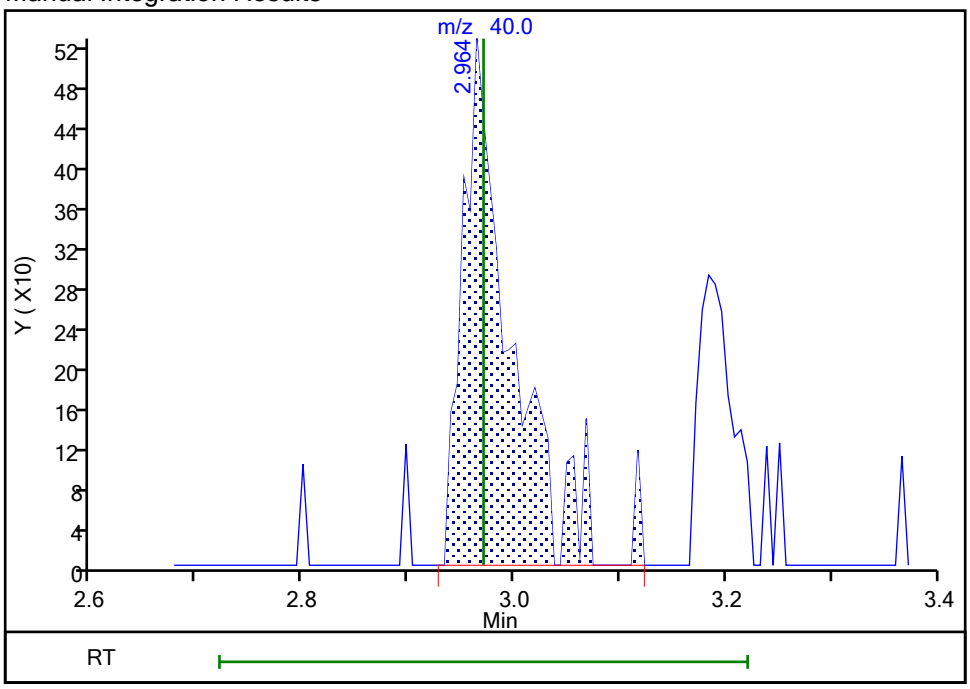
Processing Integration Results

RT: 2.96
Area: 1069
Amount: 11.542046
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 1671
Amount: 12.877963
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

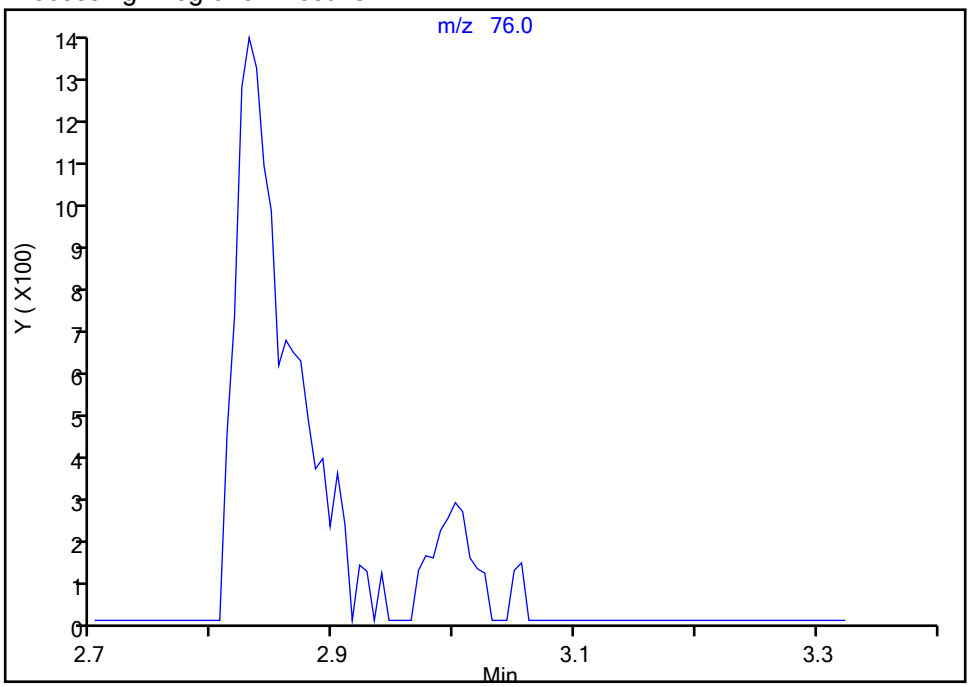
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

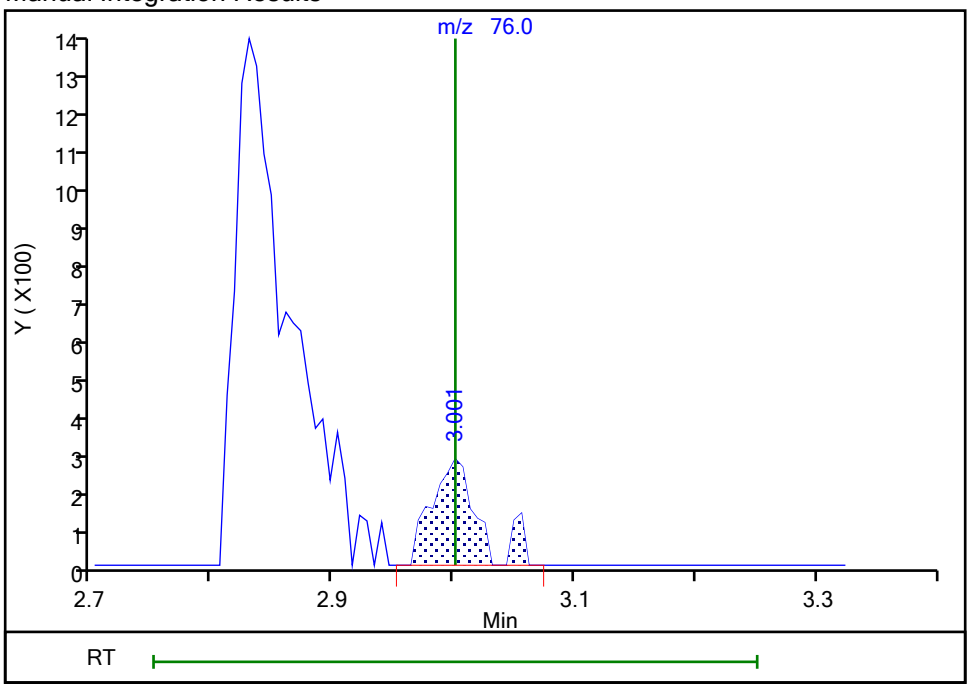
Not Detected
Expected RT: 3.00

Processing Integration Results



Manual Integration Results

RT: 3.00
Area: 709
Amount: 0.794086
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:19:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

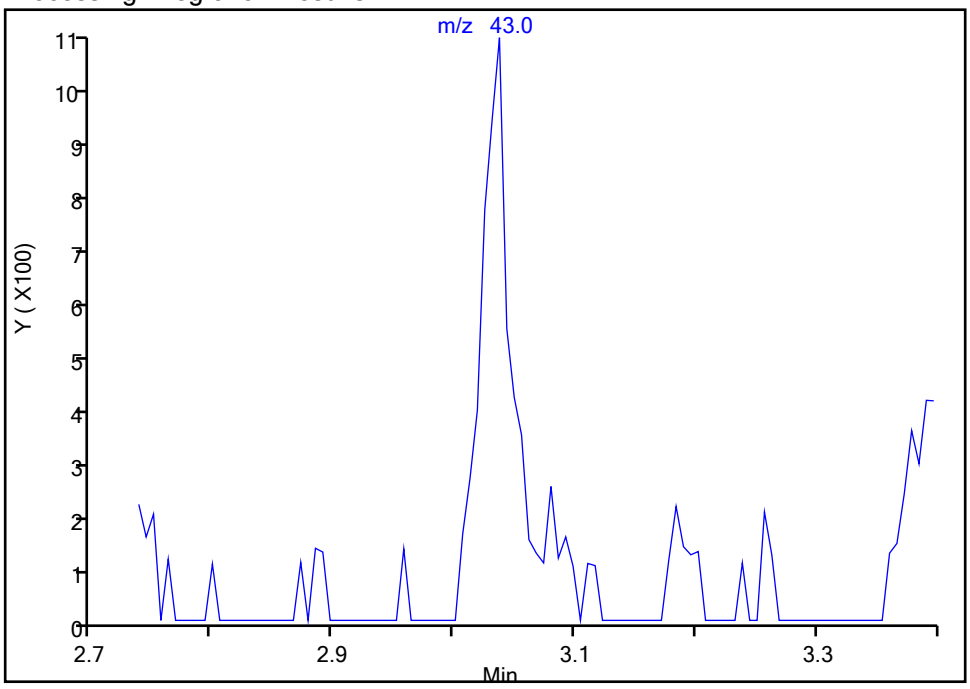
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

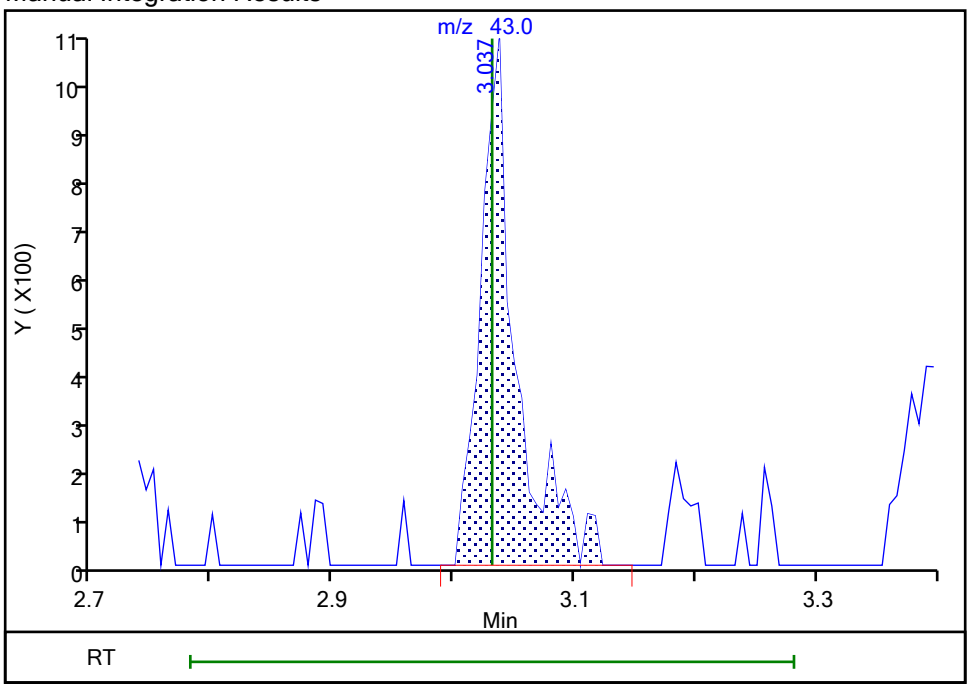
Not Detected
Expected RT: 3.03

Processing Integration Results



Manual Integration Results

RT: 3.04
Area: 2216
Amount: 2.335806
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

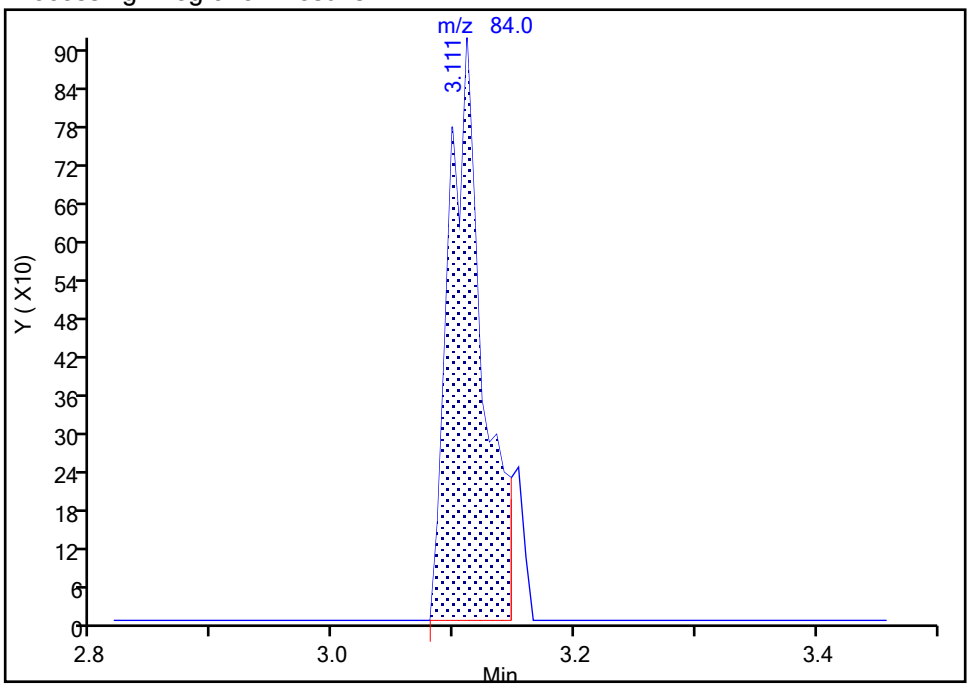
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

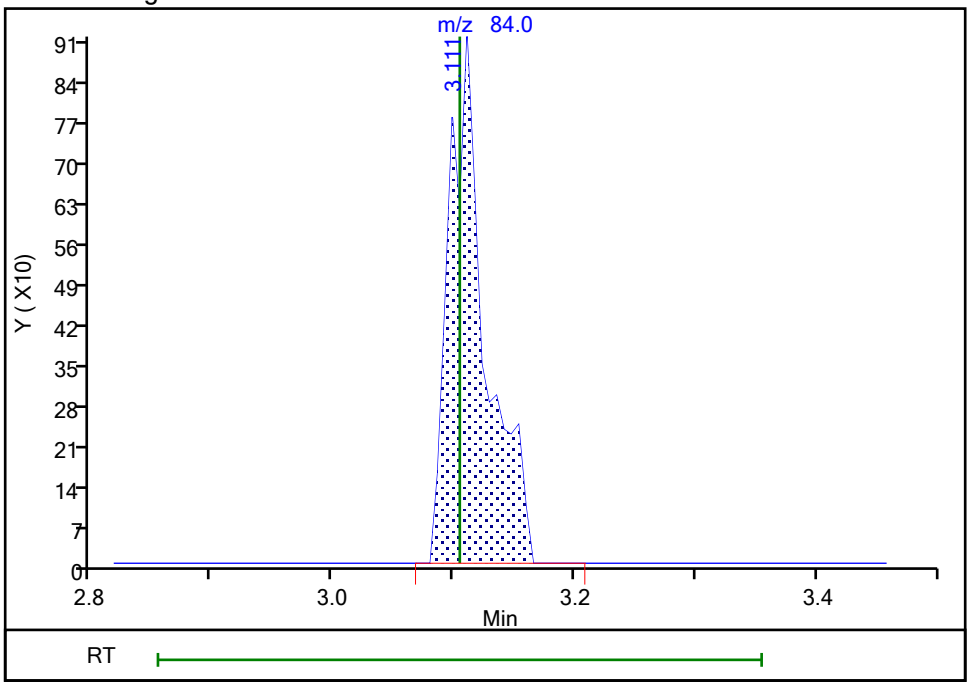
Processing Integration Results

RT: 3.11
Area: 1804
Amount: 1.122767
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 1929
Amount: 1.179178
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

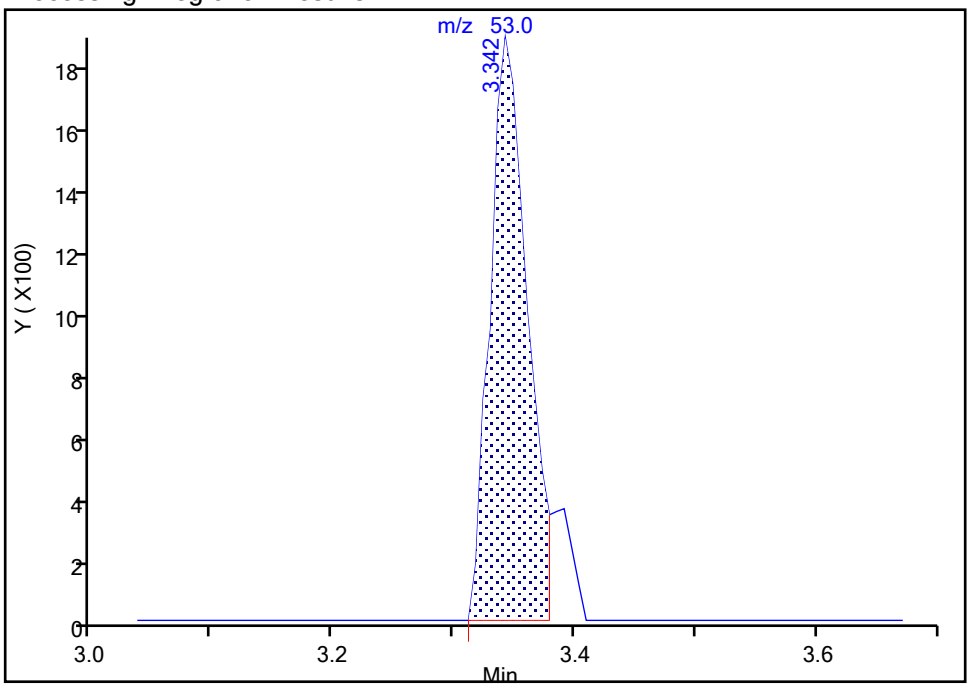
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

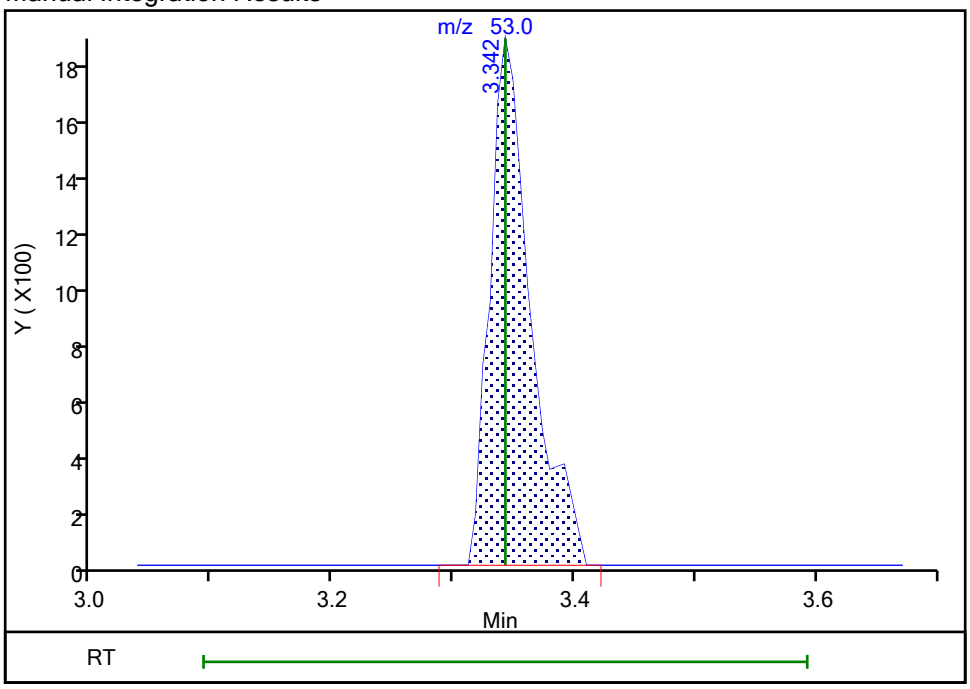
Processing Integration Results

RT: 3.34
Area: 4050
Amount: 8.461050
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 4442
Amount: 9.155953
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

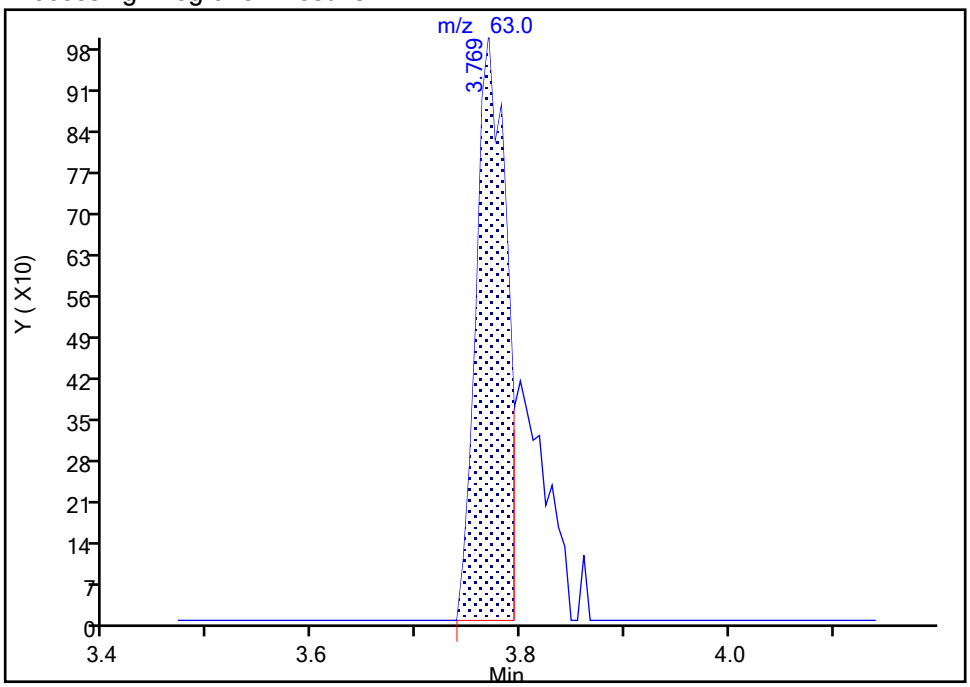
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

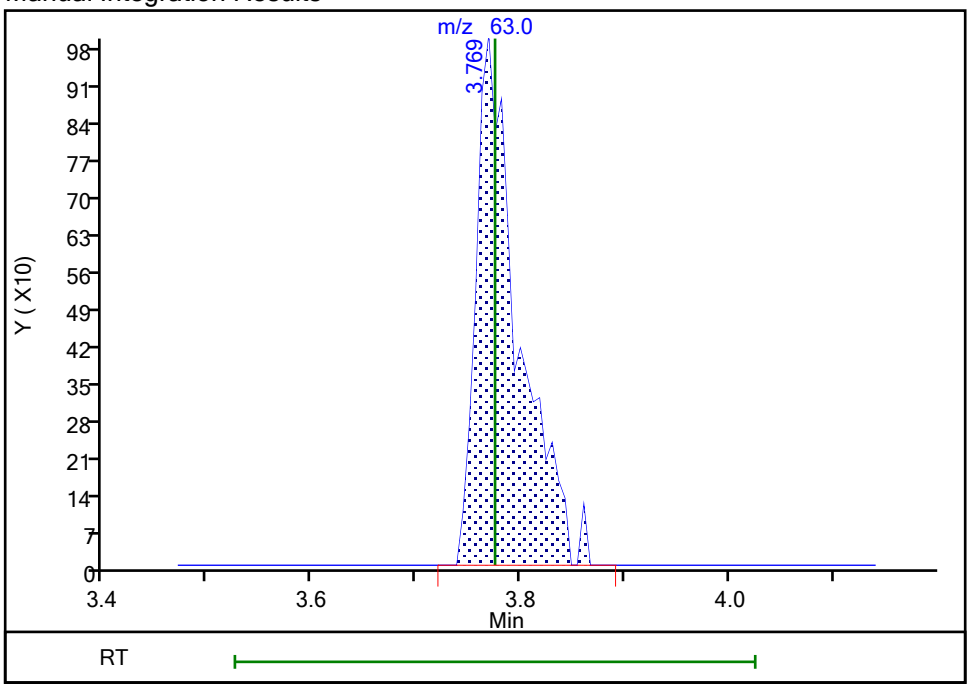
Processing Integration Results

RT: 3.77
Area: 1992
Amount: 0.710487
Amount Units: ug/l



Manual Integration Results

RT: 3.77
Area: 2800
Amount: 0.947070
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

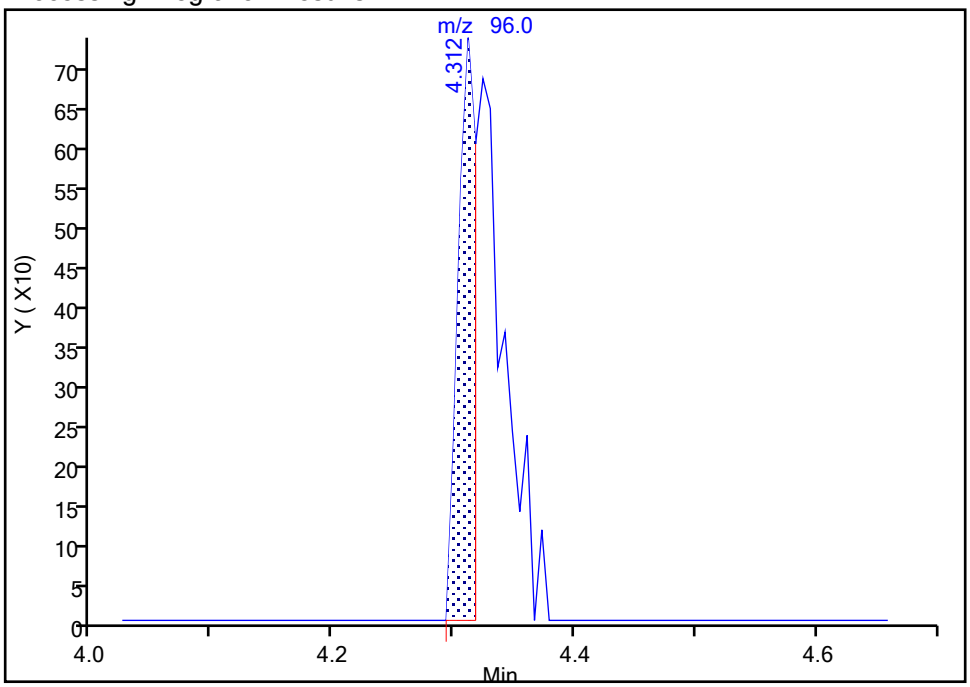
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

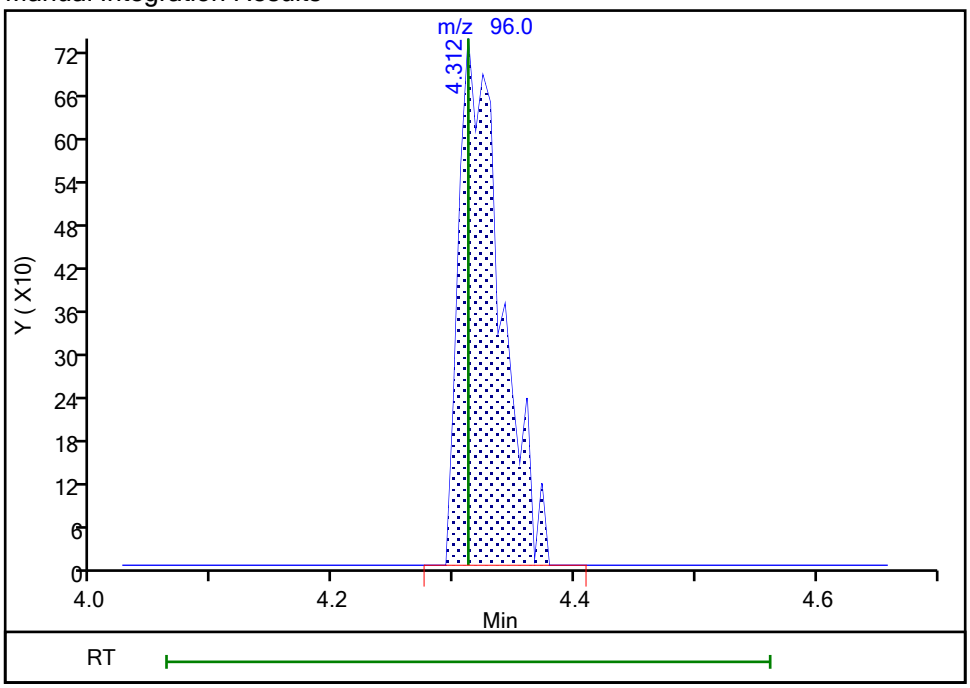
Processing Integration Results

RT: 4.31
Area: 779
Amount: 0.723209
Amount Units: ug/l



Manual Integration Results

RT: 4.31
Area: 1787
Amount: 0.990755
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:11
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

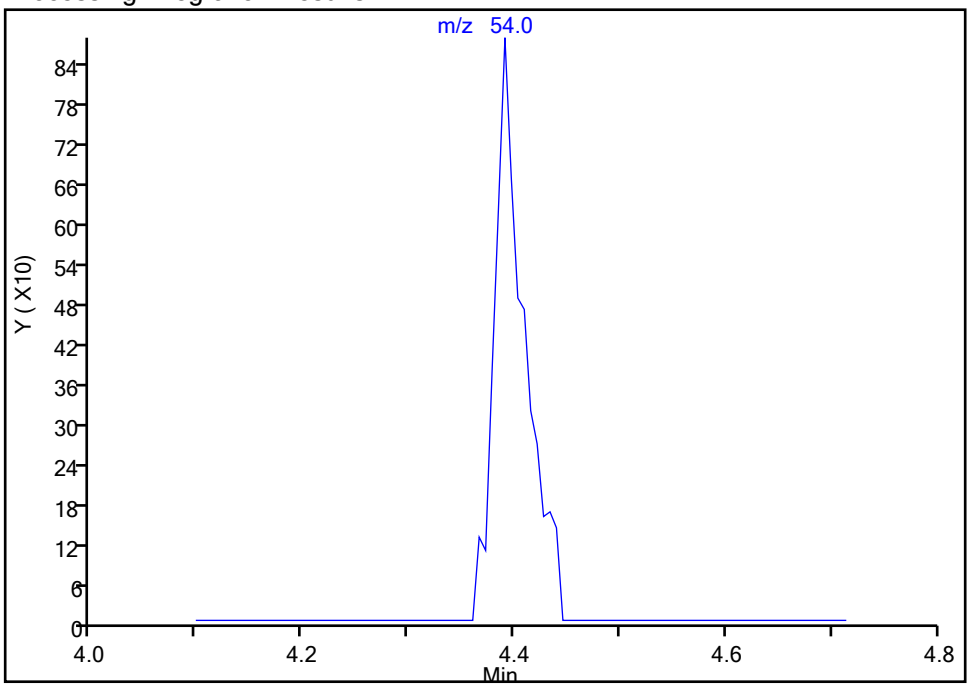
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

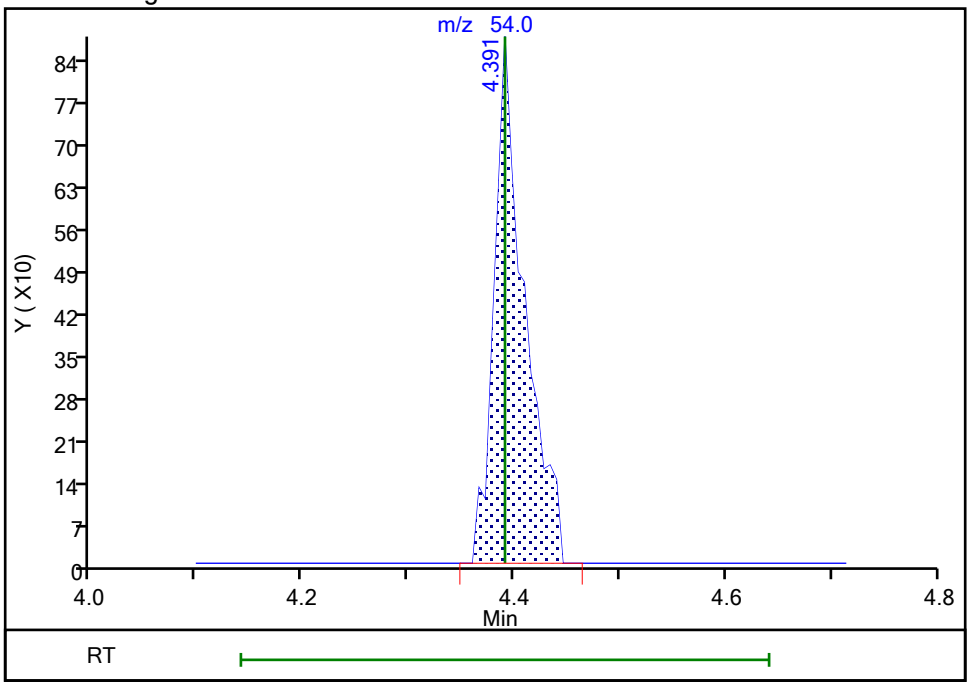
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 1738
Amount: 9.009314
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:18:00
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

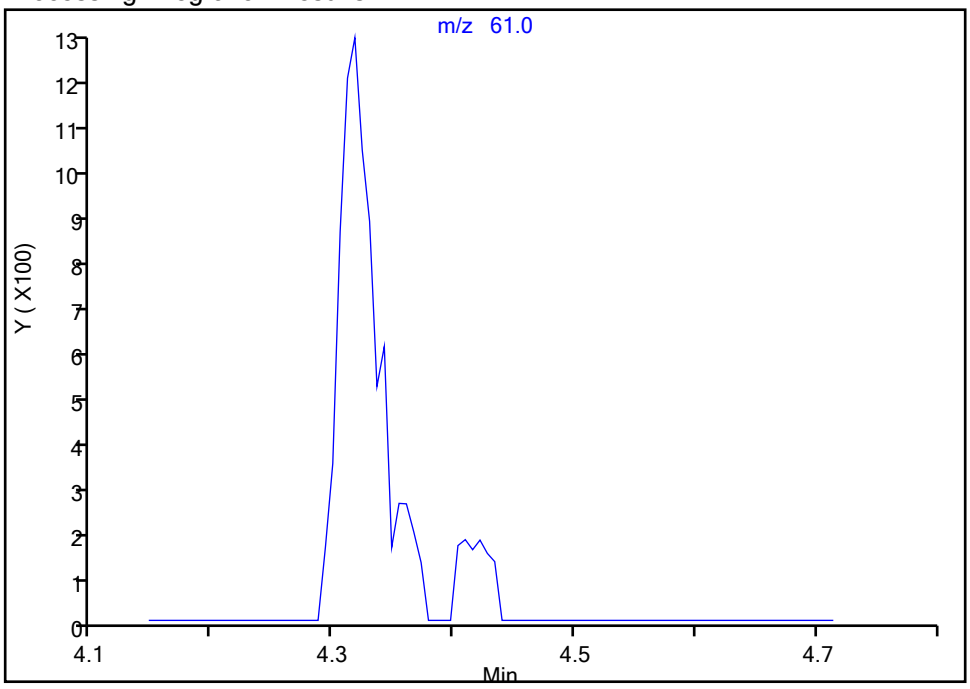
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

104 Ethyl acetate, CAS: 141-78-6

Signal: 1

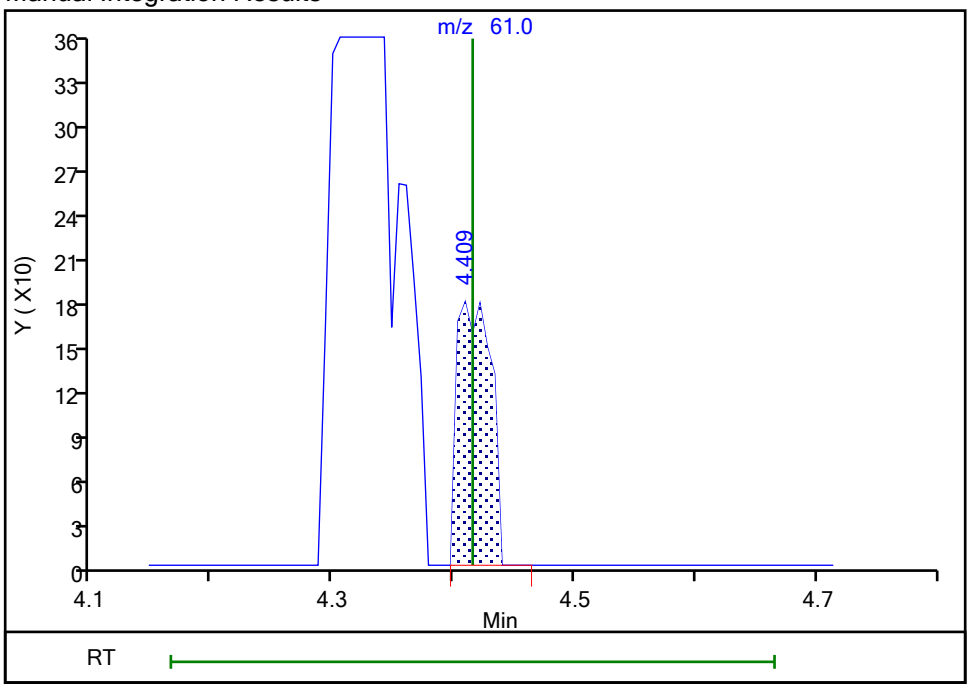
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 345
Amount: 1.562022
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

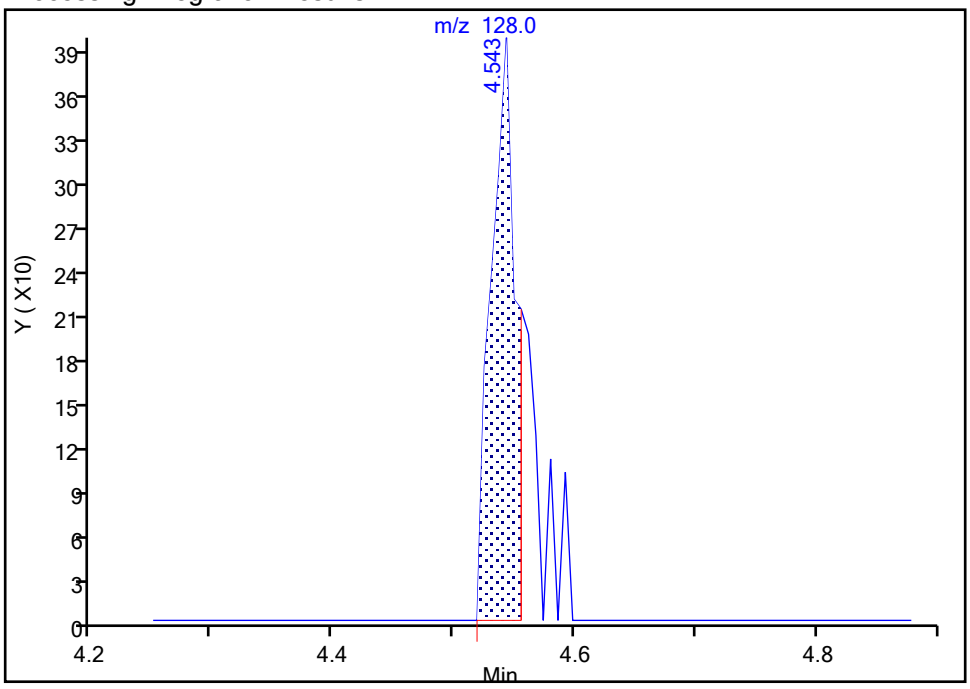
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

42 Chlorobromomethane, CAS: 74-97-5

Signal: 1

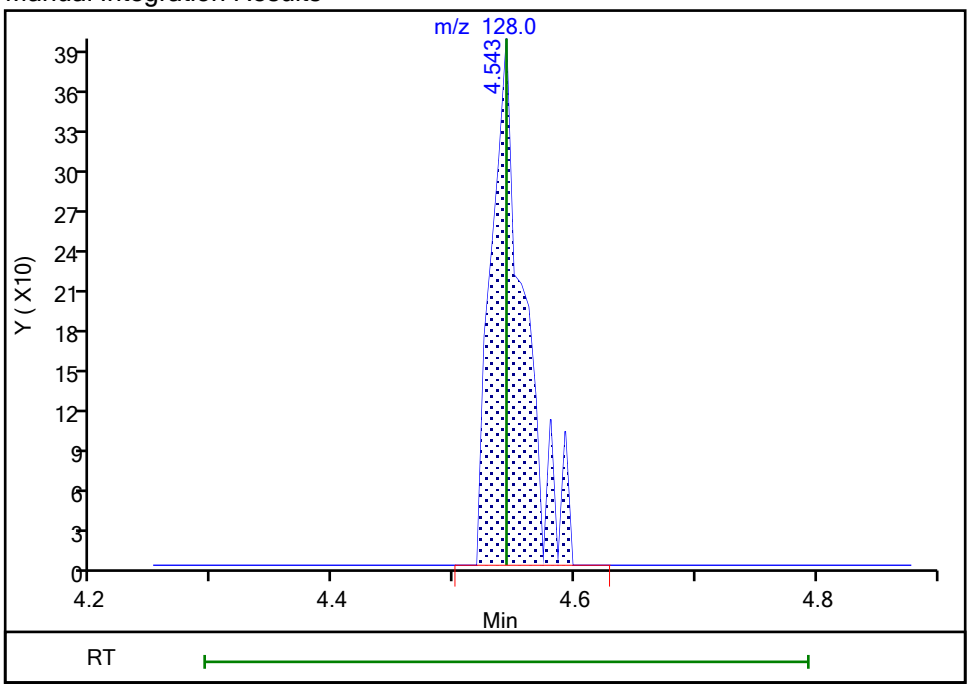
Processing Integration Results

RT: 4.54
Area: 565
Amount: 0.974164
Amount Units: ug/l



Manual Integration Results

RT: 4.54
Area: 760
Amount: 1.008456
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

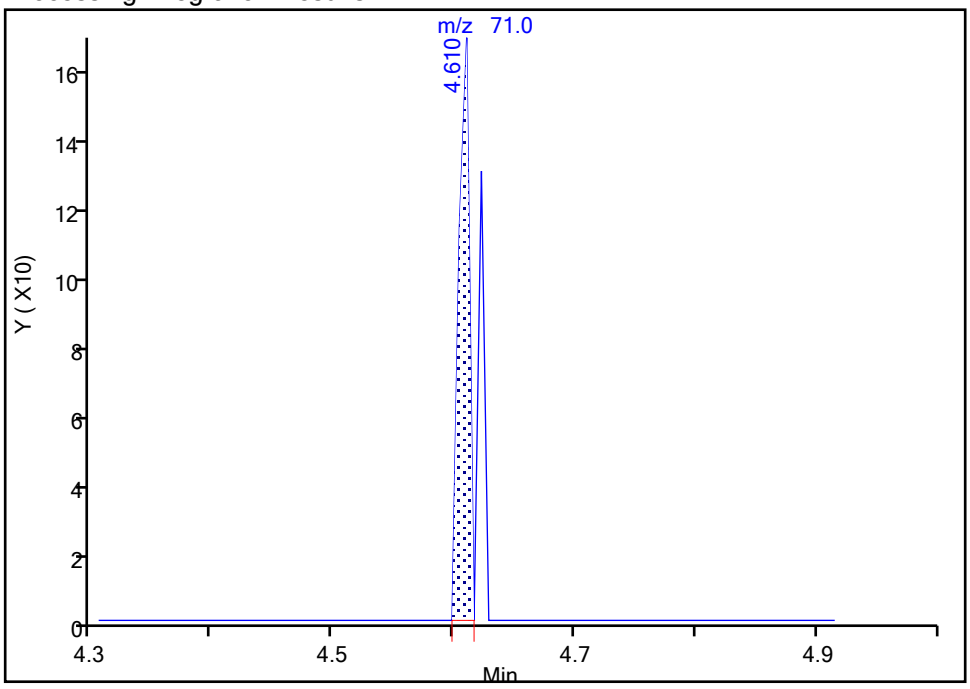
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

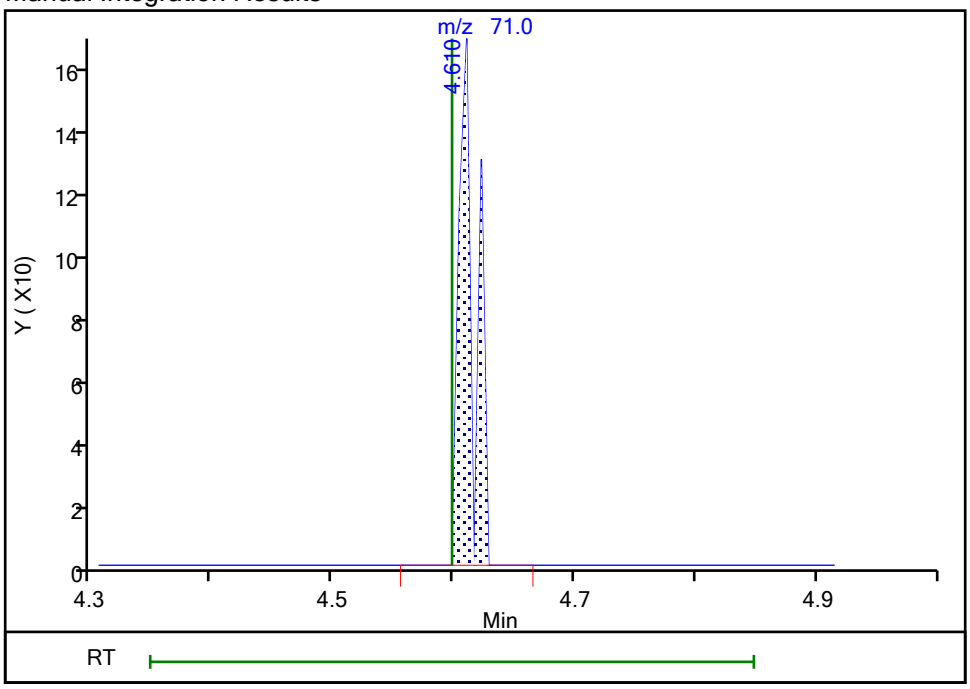
Processing Integration Results

RT: 4.61
Area: 102
Amount: 1.591512
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 149
Amount: 1.112759
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

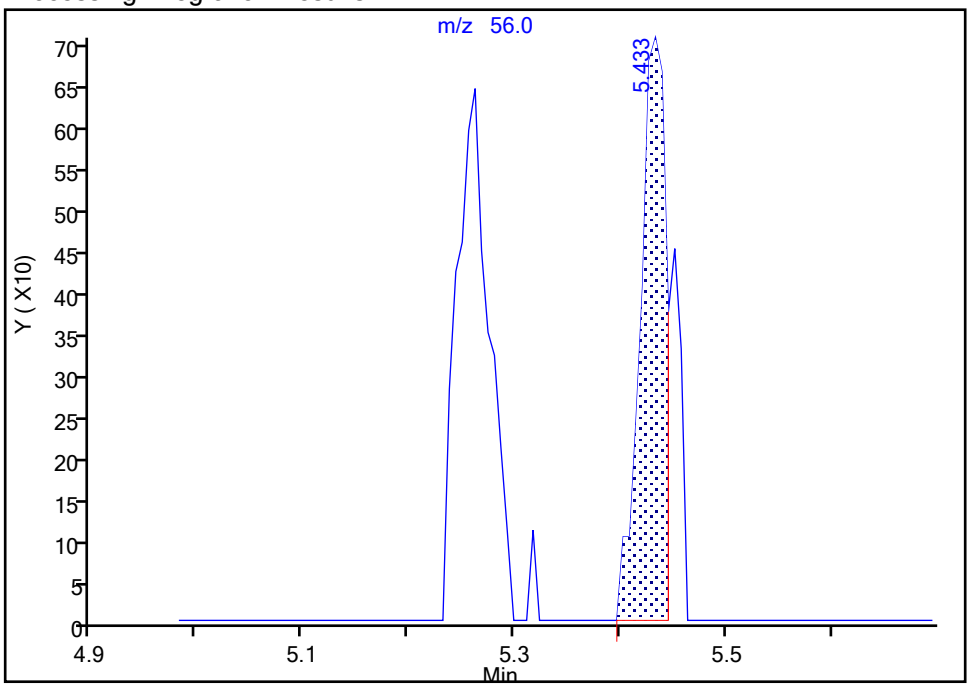
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

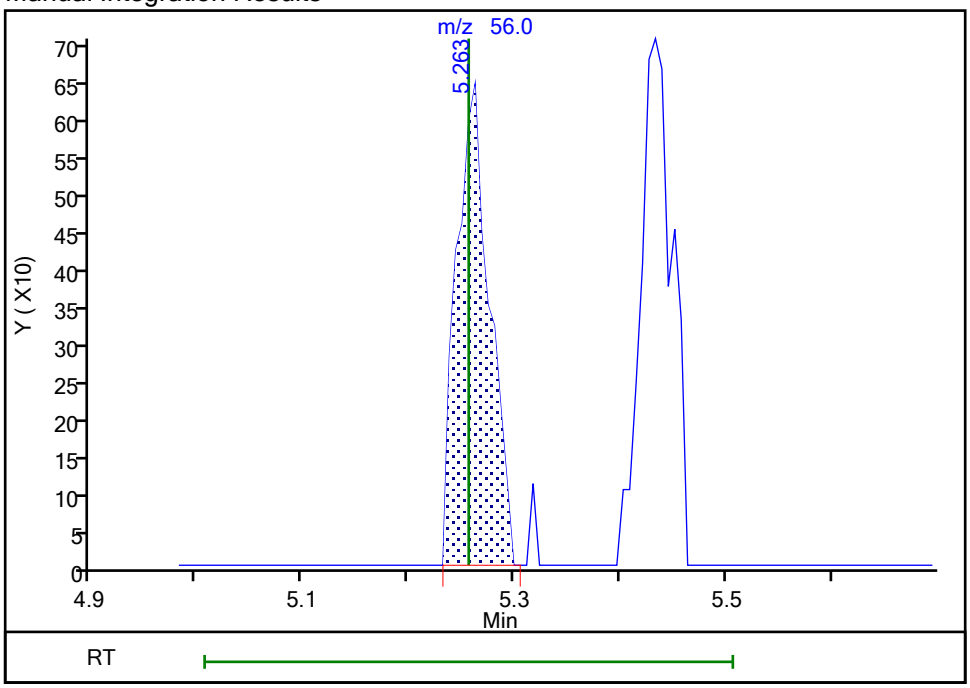
Processing Integration Results

RT: 5.43
Area: 1205
Amount: 99.647619
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 1411
Amount: 20.911386
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:16
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

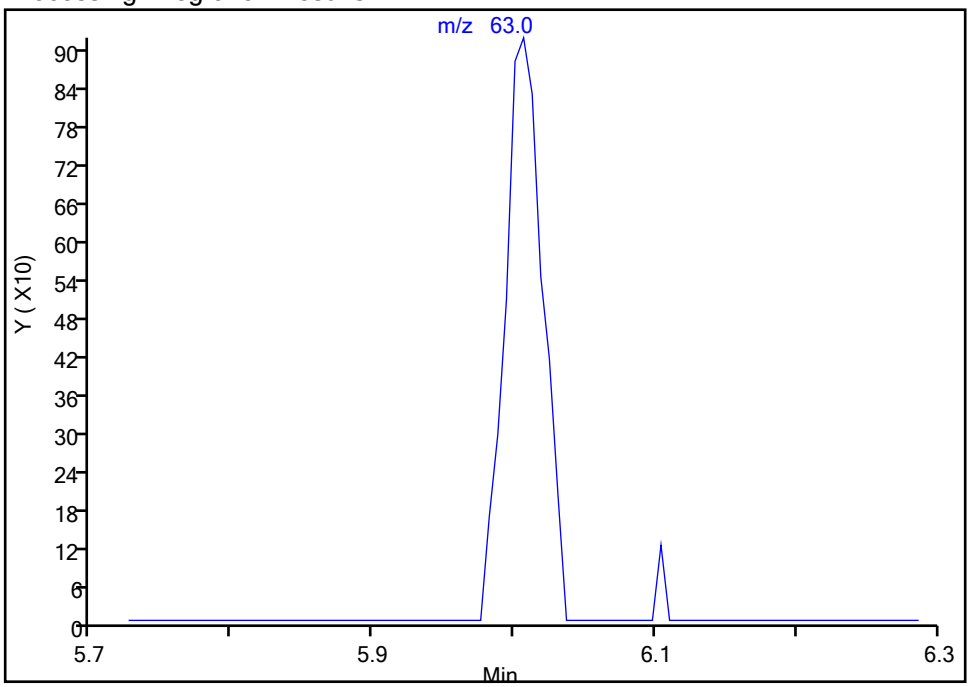
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

55 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

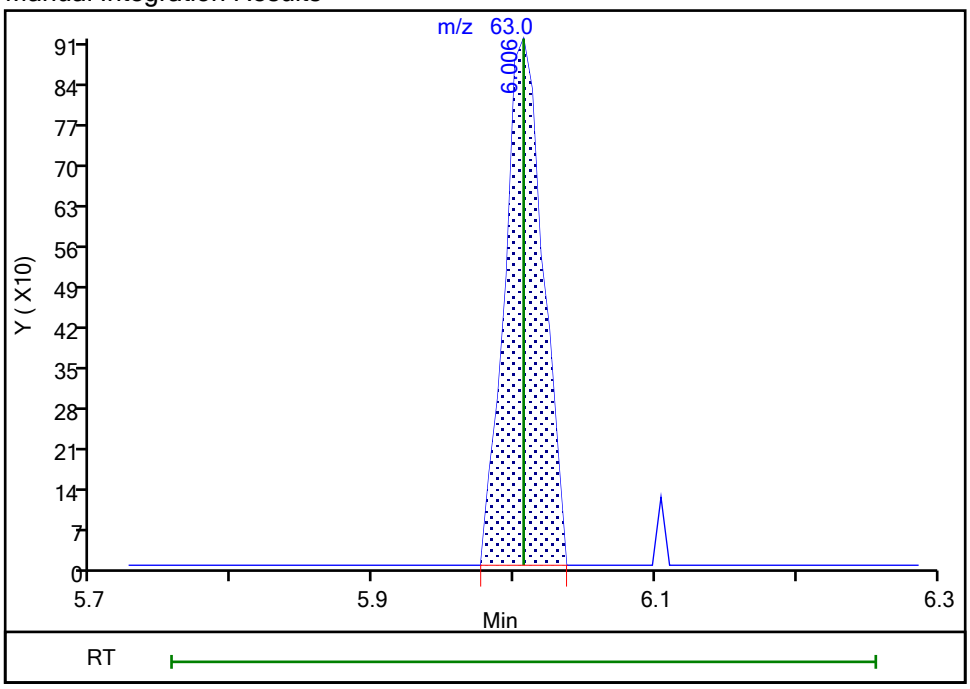
Not Detected
Expected RT: 6.01

Processing Integration Results



Manual Integration Results

RT: 6.01
Area: 1725
Amount: 1.017574
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:17:03
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

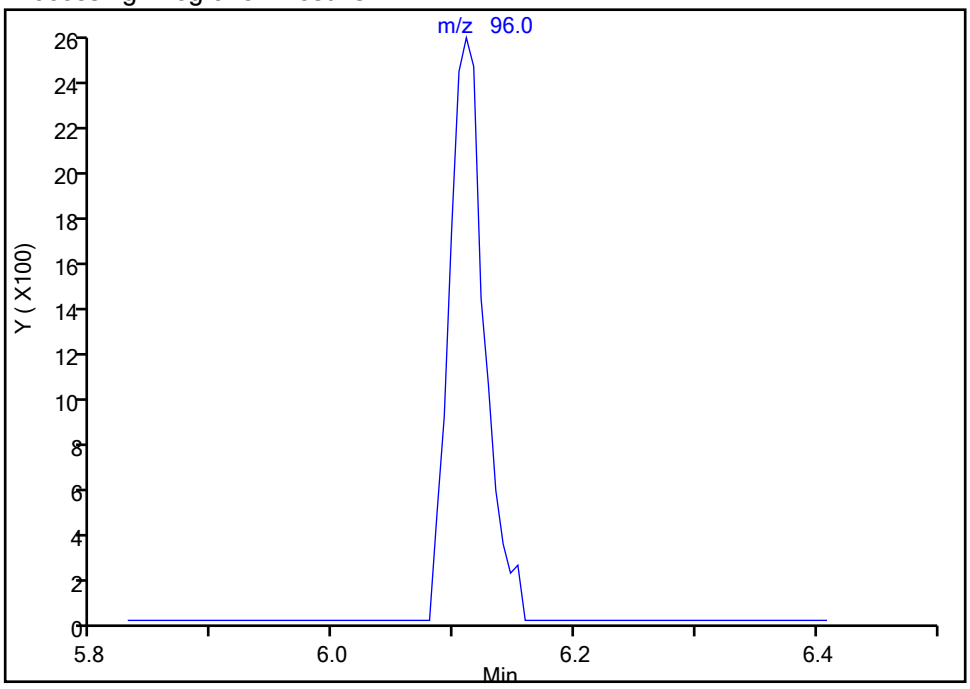
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

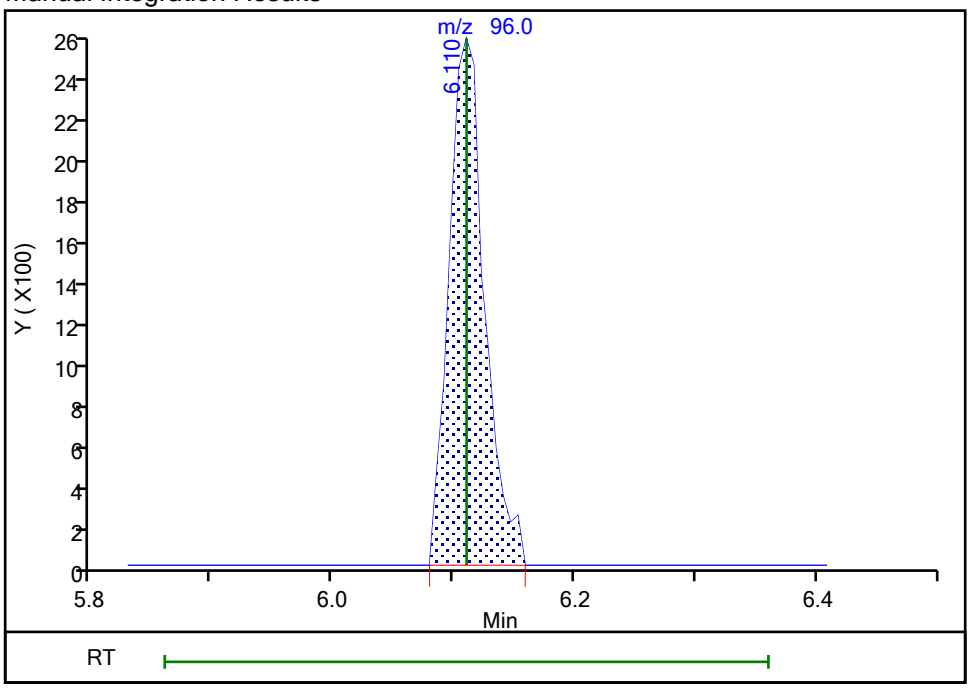
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5109
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:20:13
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

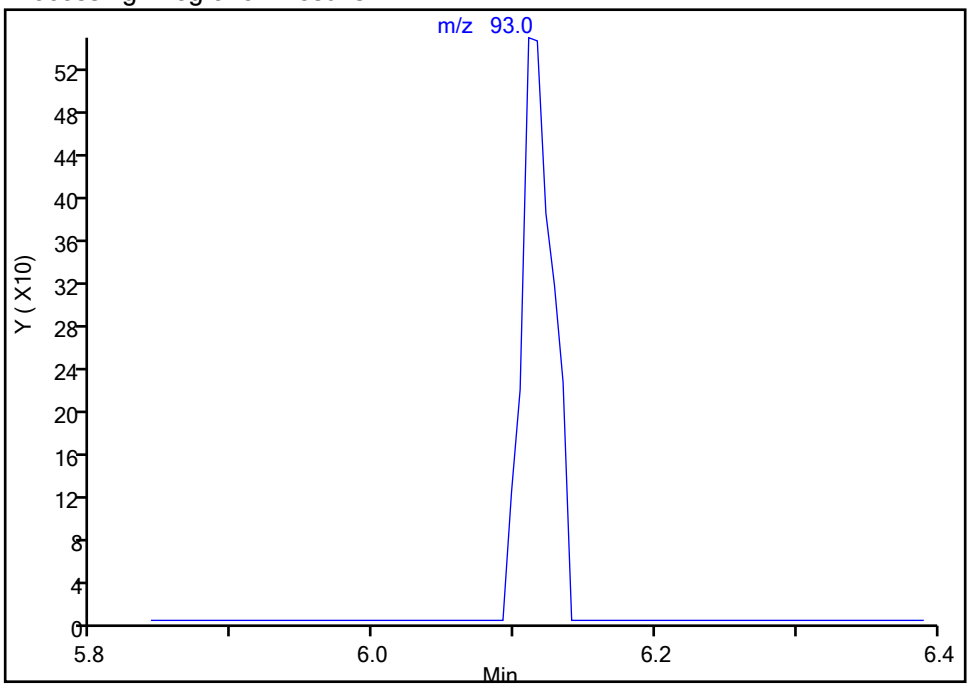
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

56 Dibromomethane, CAS: 74-95-3

Signal: 1

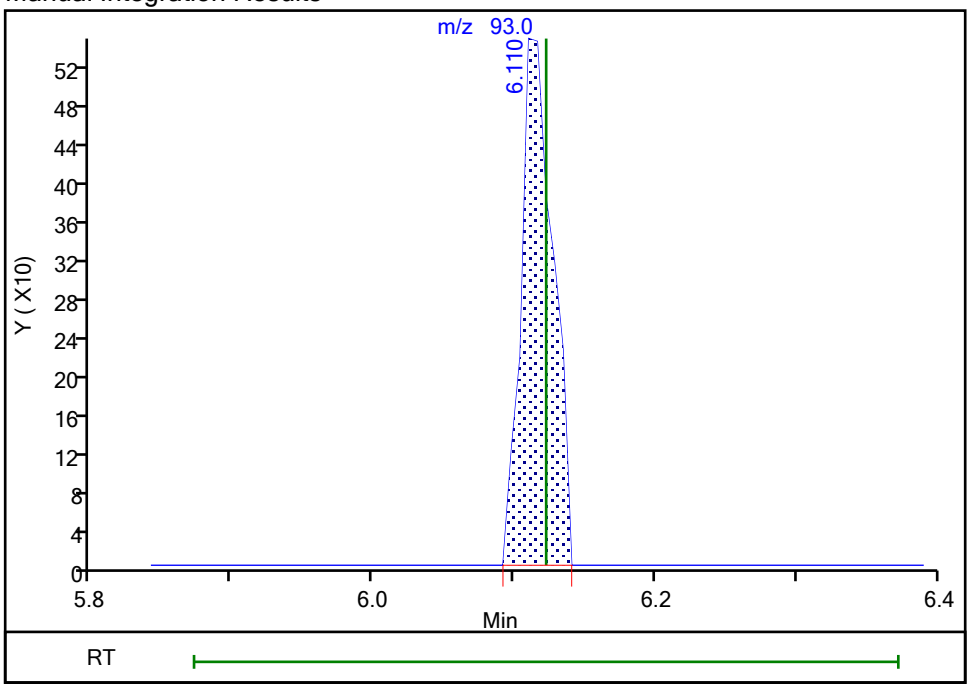
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 861
Amount: 0.955913
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:57
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

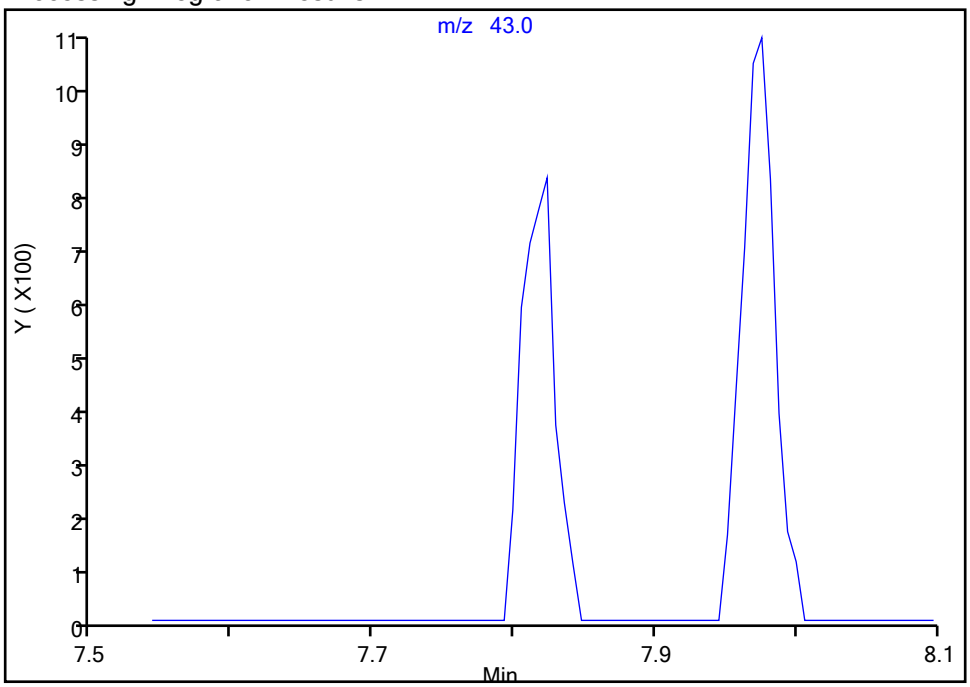
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

68 2-Hexanone, CAS: 591-78-6

Signal: 1

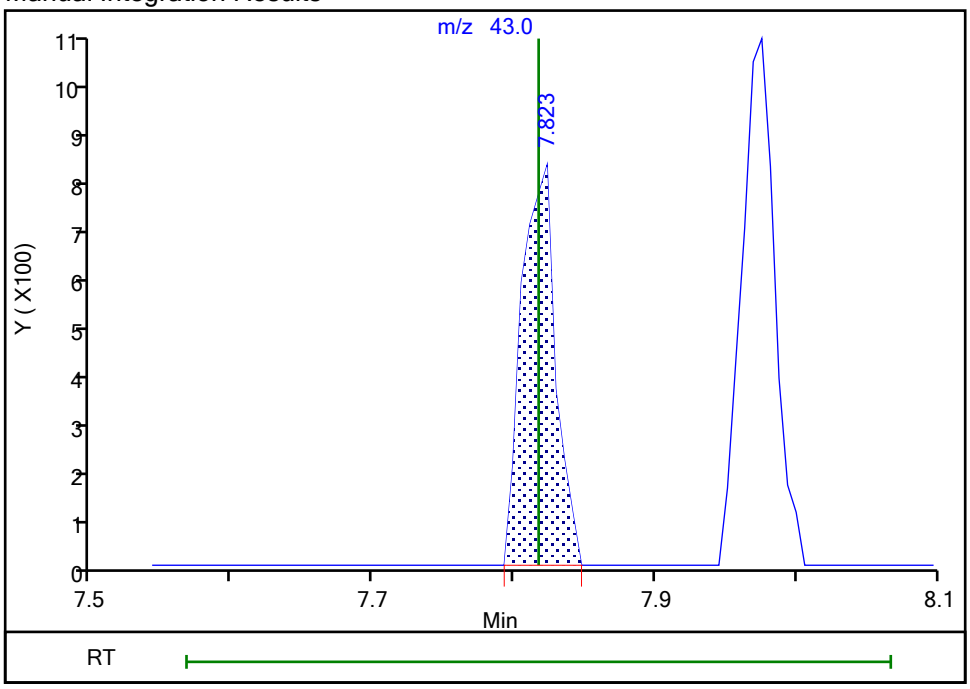
Not Detected
Expected RT: 7.82

Processing Integration Results



Manual Integration Results

RT: 7.82
Area: 1326
Amount: 1.566414
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:38
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

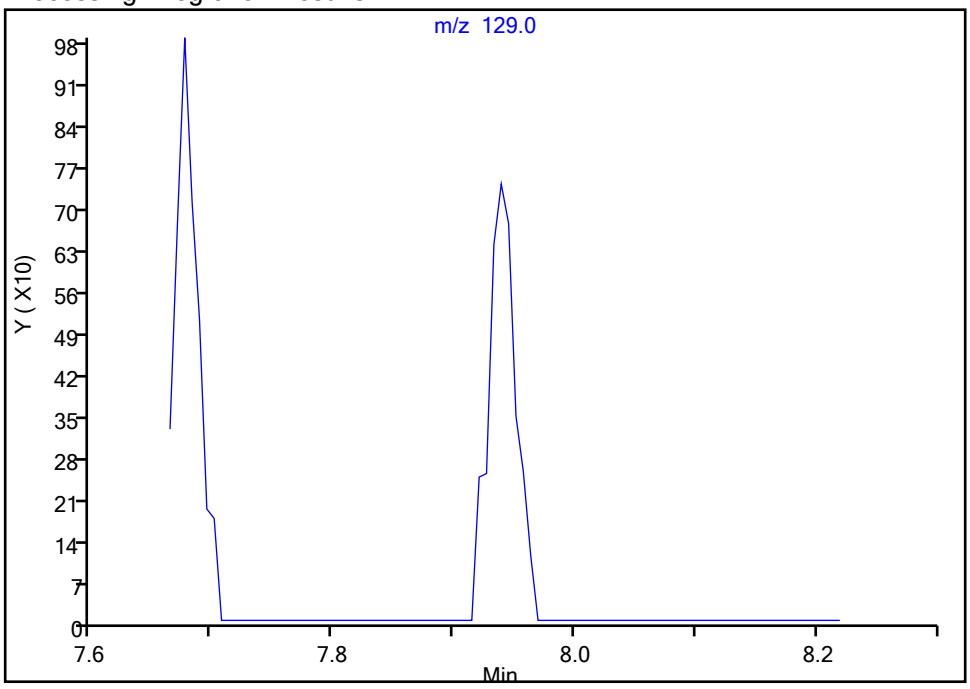
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

69 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

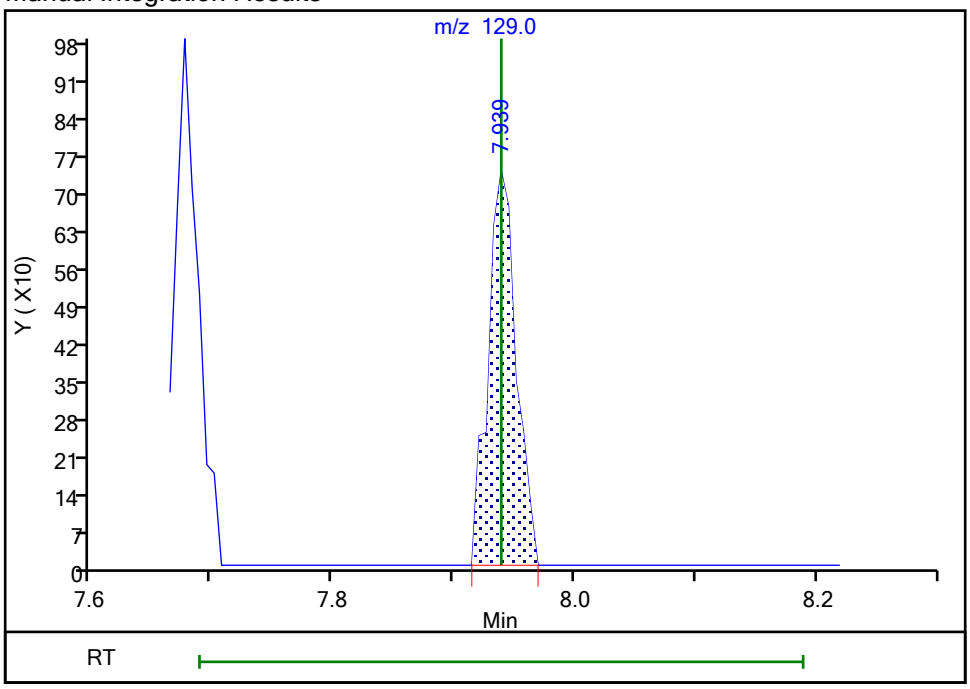
Not Detected
Expected RT: 7.94

Processing Integration Results



Manual Integration Results

RT: 7.94
Area: 1184
Amount: 0.787148
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:31
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

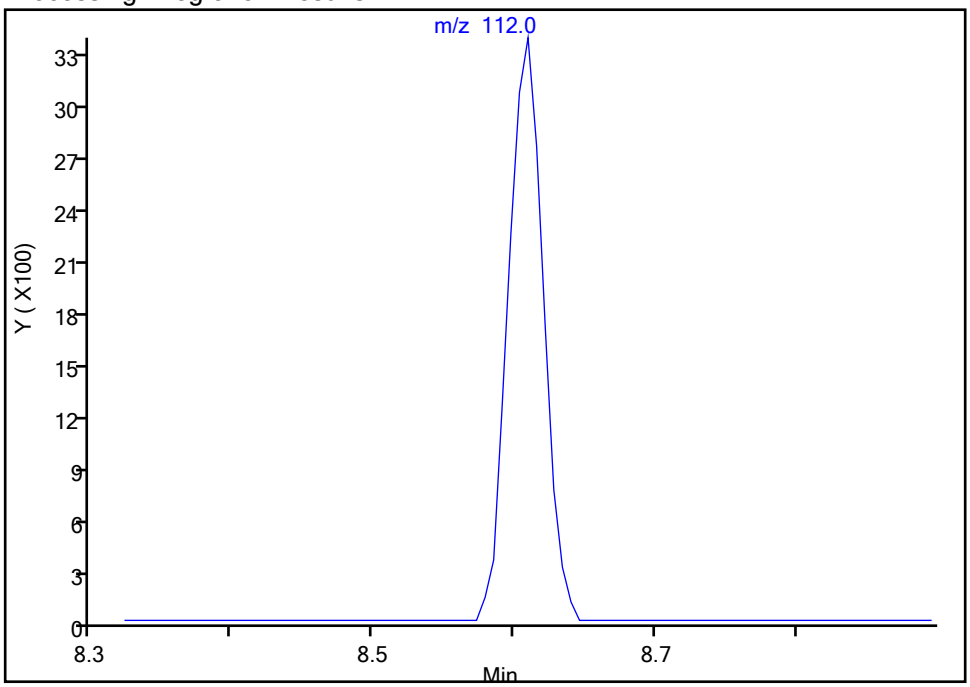
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

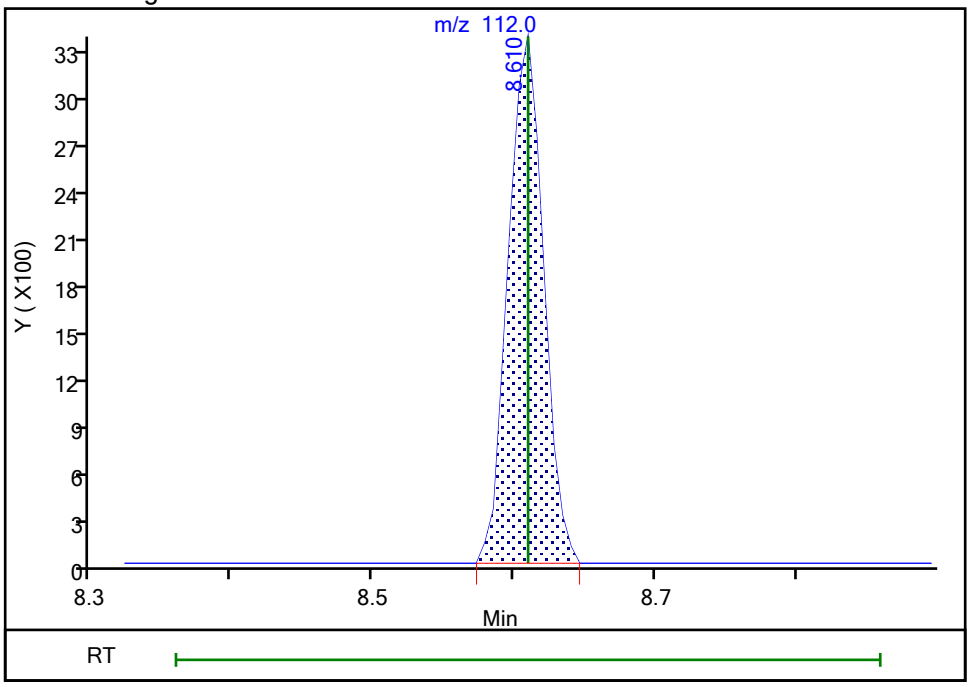
Not Detected
Expected RT: 8.61

Processing Integration Results



Manual Integration Results

RT: 8.61
Area: 5797
Amount: 1.119317
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:19
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

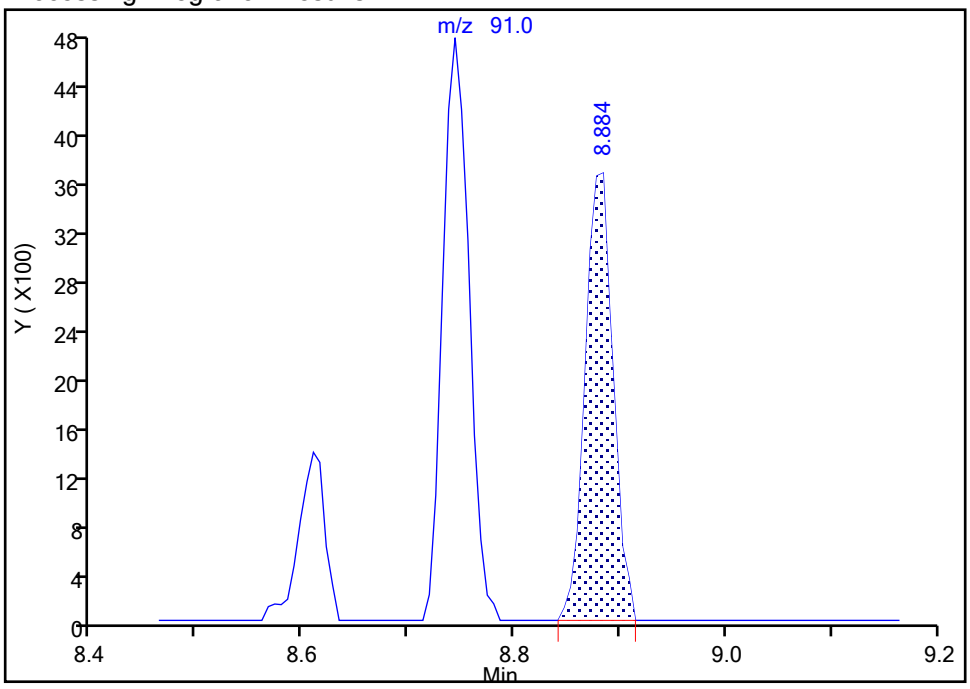
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

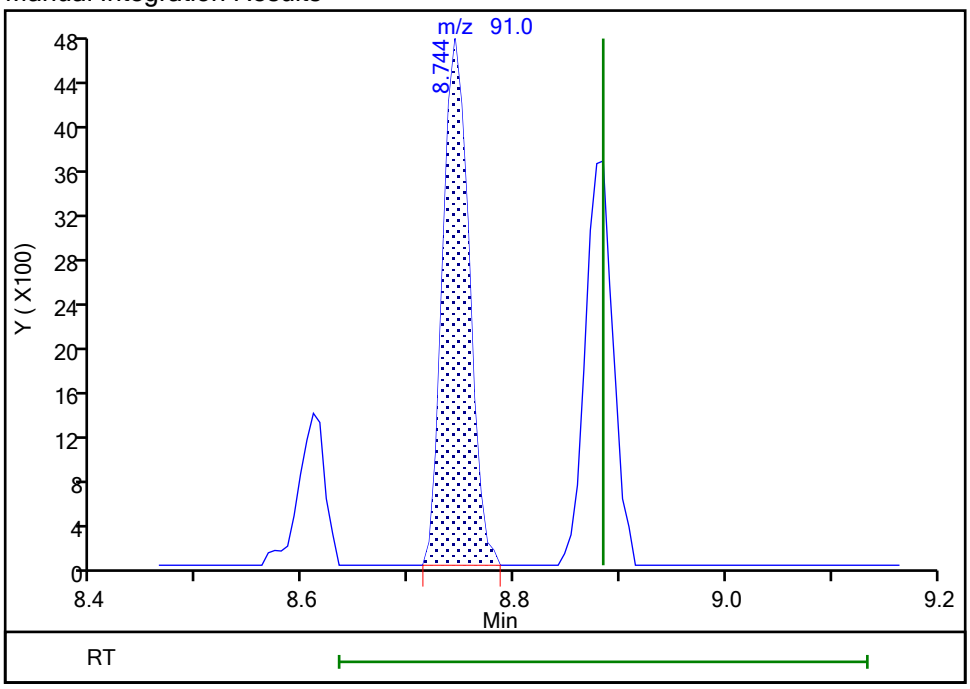
Processing Integration Results

RT: 8.88
Area: 6648
Amount: 0.925934
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 8228
Amount: 0.907615
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:16:08
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

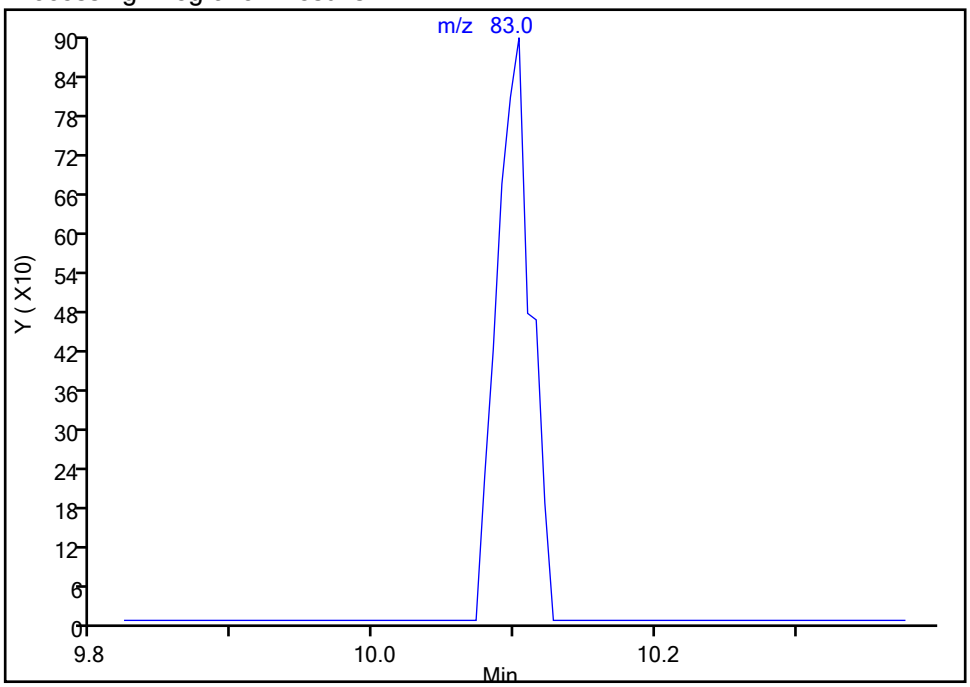
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

80 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

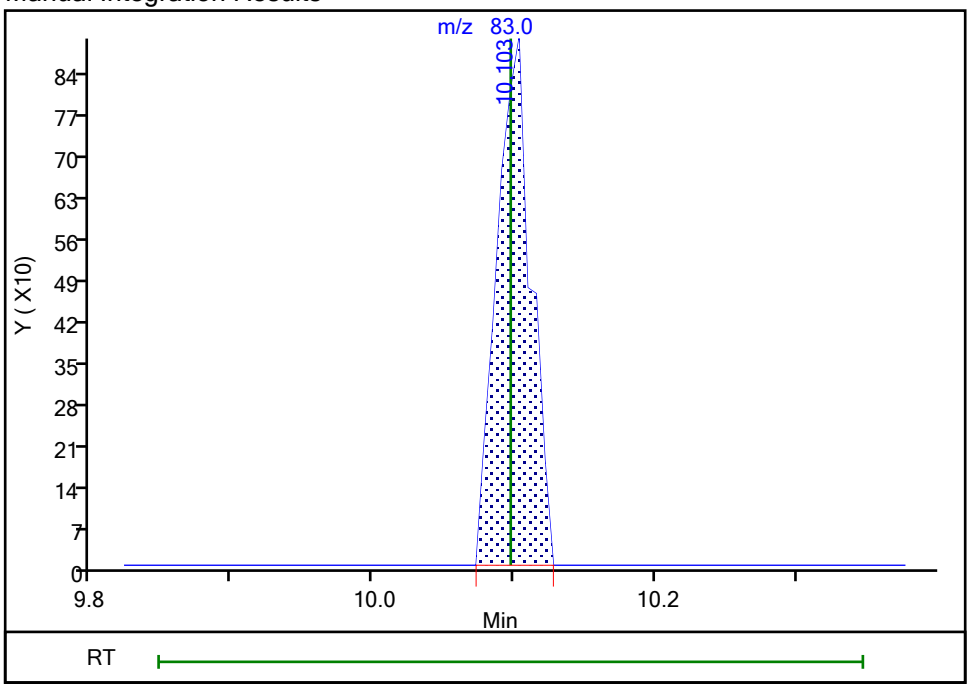
Not Detected
Expected RT: 10.10

Processing Integration Results



Manual Integration Results

RT: 10.10
Area: 1502
Amount: 0.966677
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:46
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

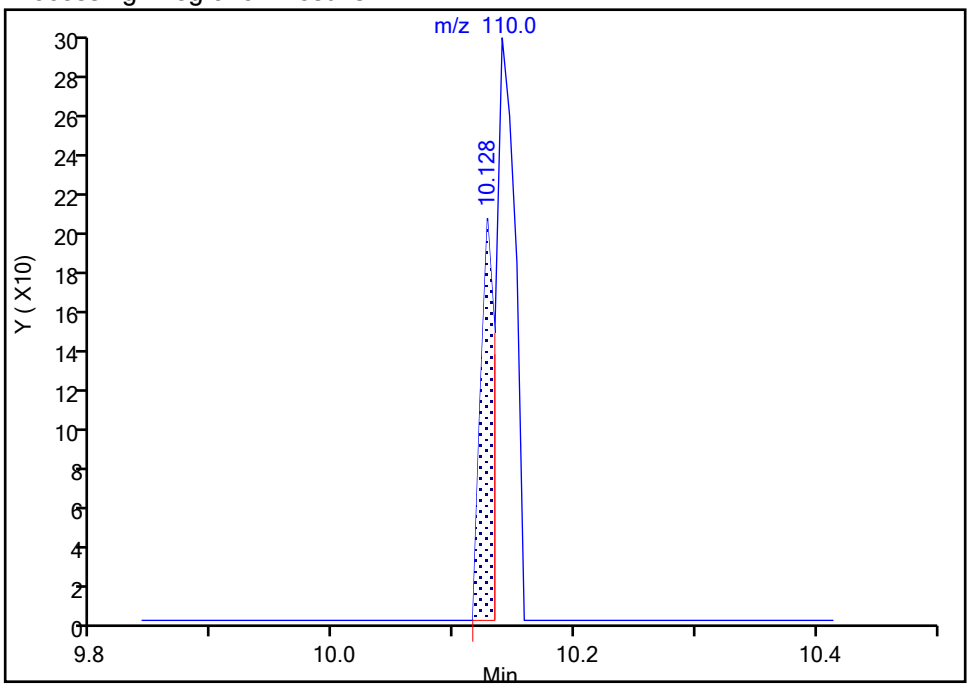
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

81 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

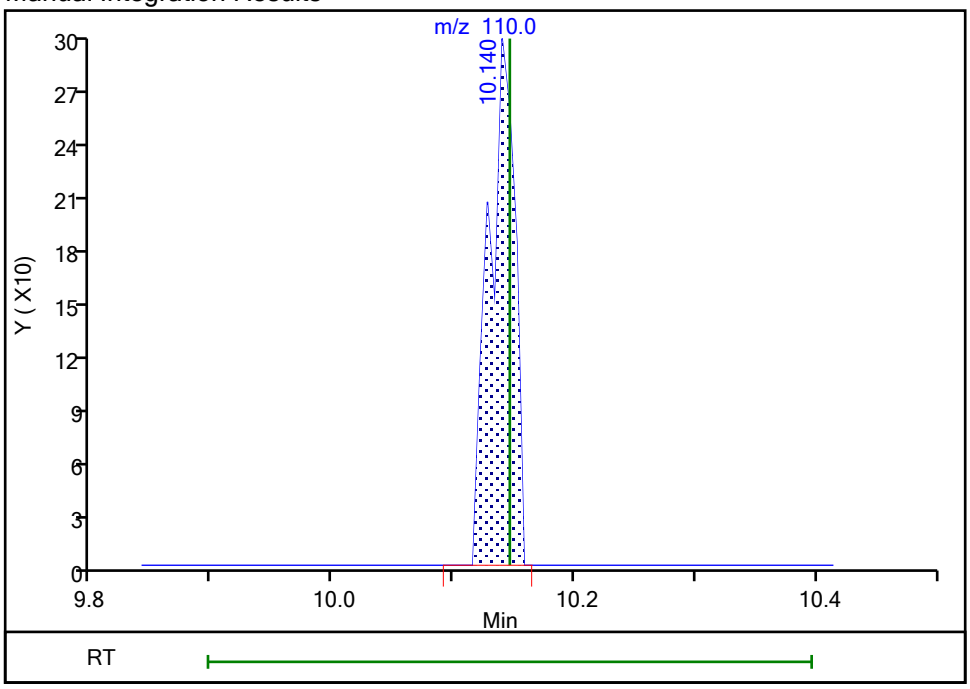
Processing Integration Results

RT: 10.13
Area: 171
Amount: 0.349784
Amount Units: ug/l



Manual Integration Results

RT: 10.14
Area: 444
Amount: 0.816515
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

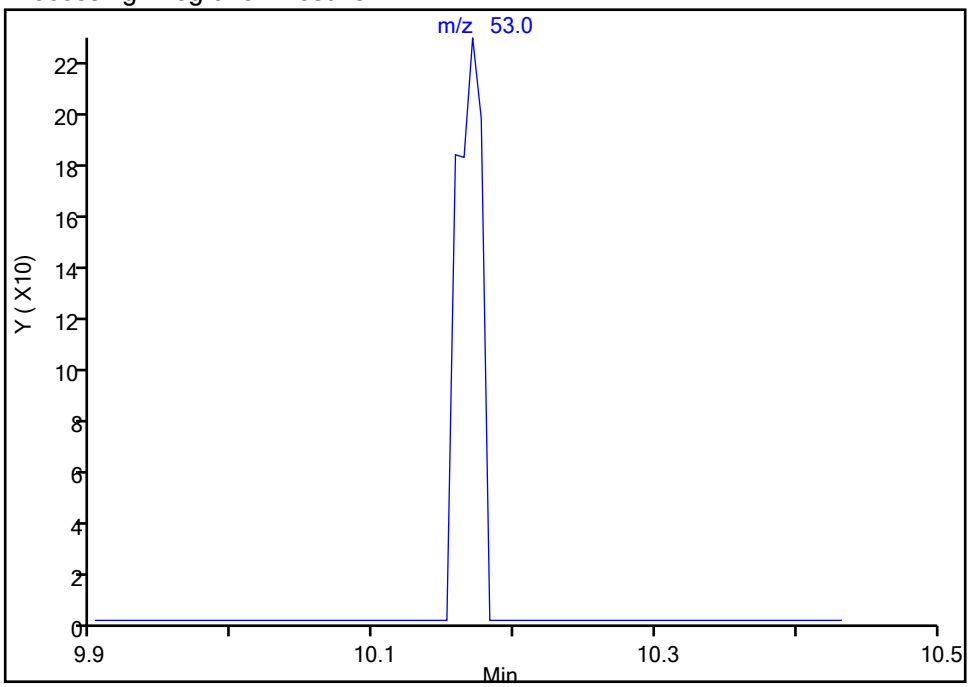
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

82 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

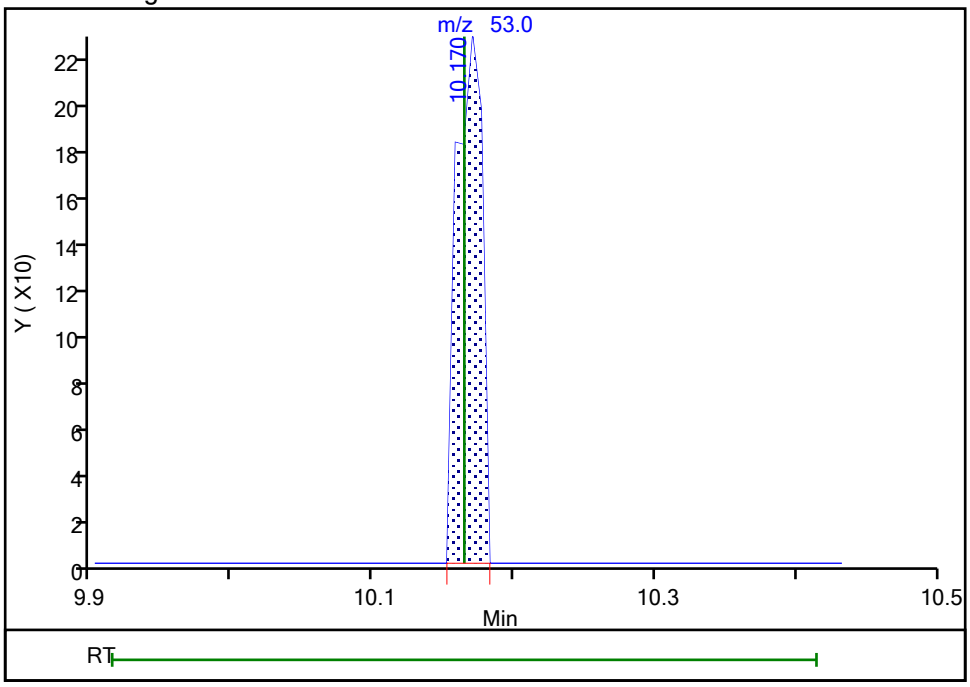
Not Detected
Expected RT: 10.16

Processing Integration Results



Manual Integration Results

RT: 10.17
Area: 283
Amount: 0.625649
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

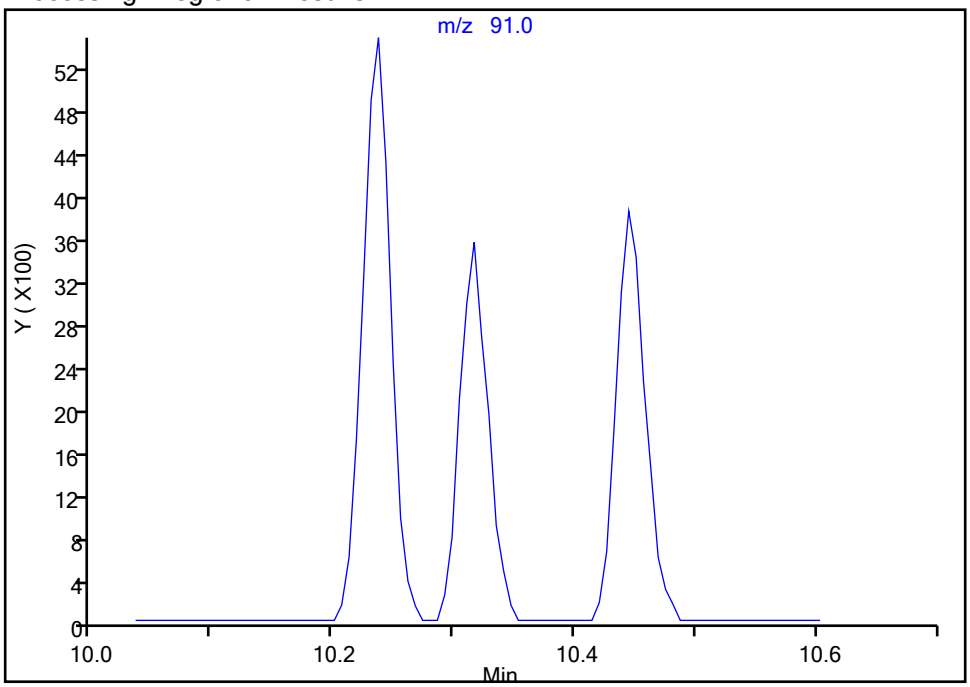
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

84 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

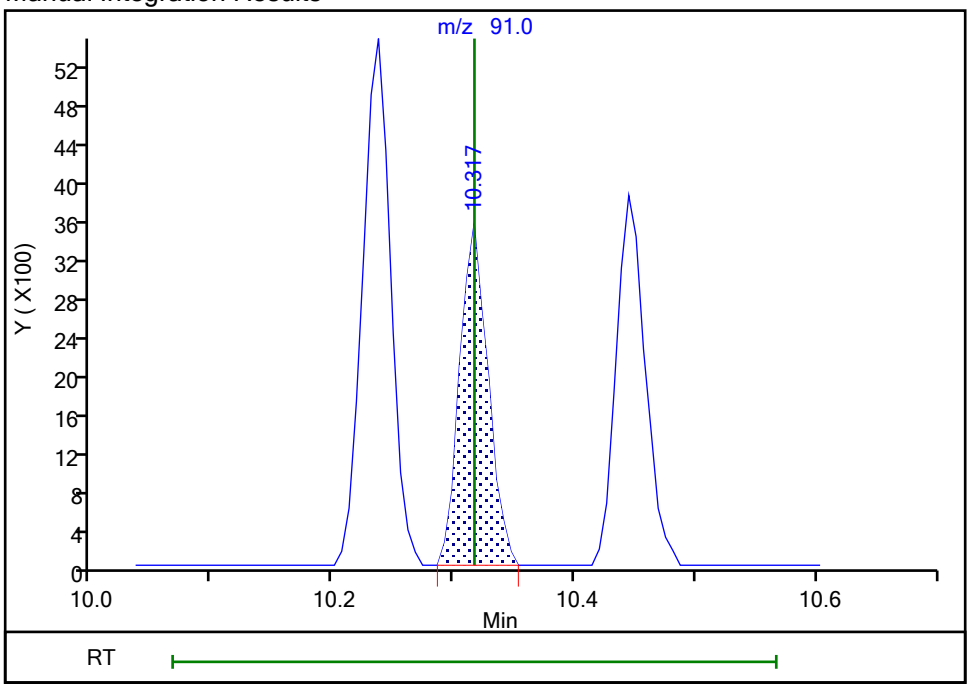
Not Detected
Expected RT: 10.32

Processing Integration Results



Manual Integration Results

RT: 10.32
Area: 5691
Amount: 0.965077
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:15:09
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

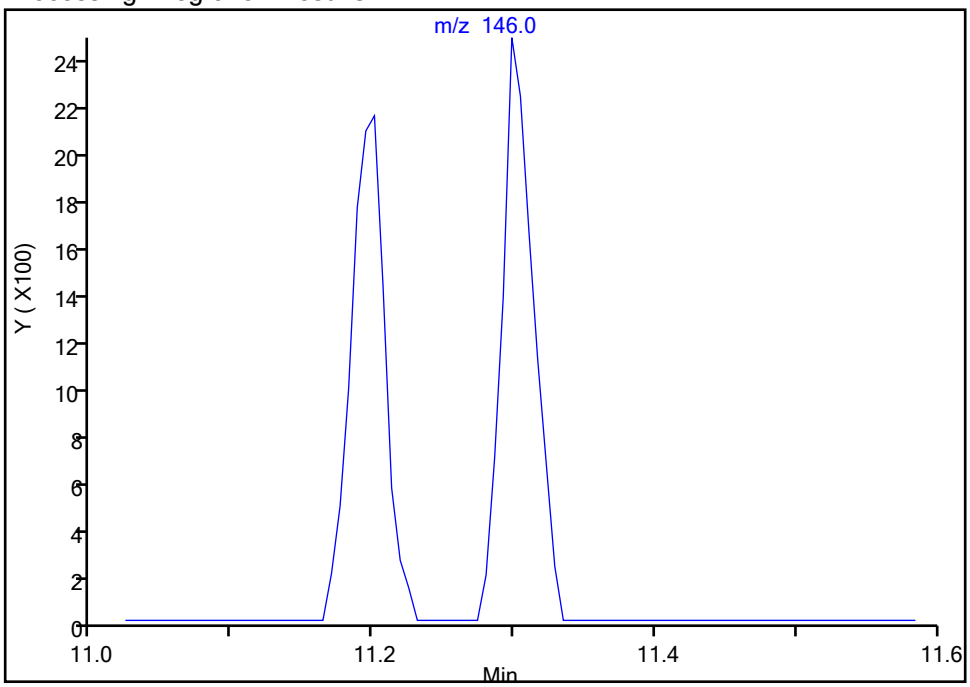
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

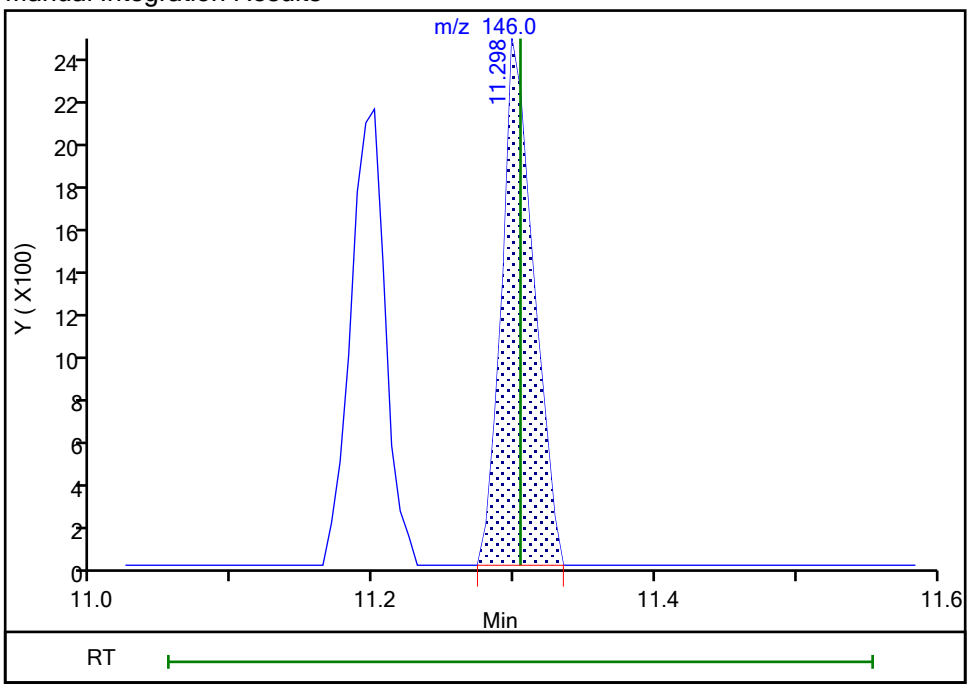
Not Detected
Expected RT: 11.30

Processing Integration Results



Manual Integration Results

RT: 11.30
Area: 3818
Amount: 0.976733
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:14:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

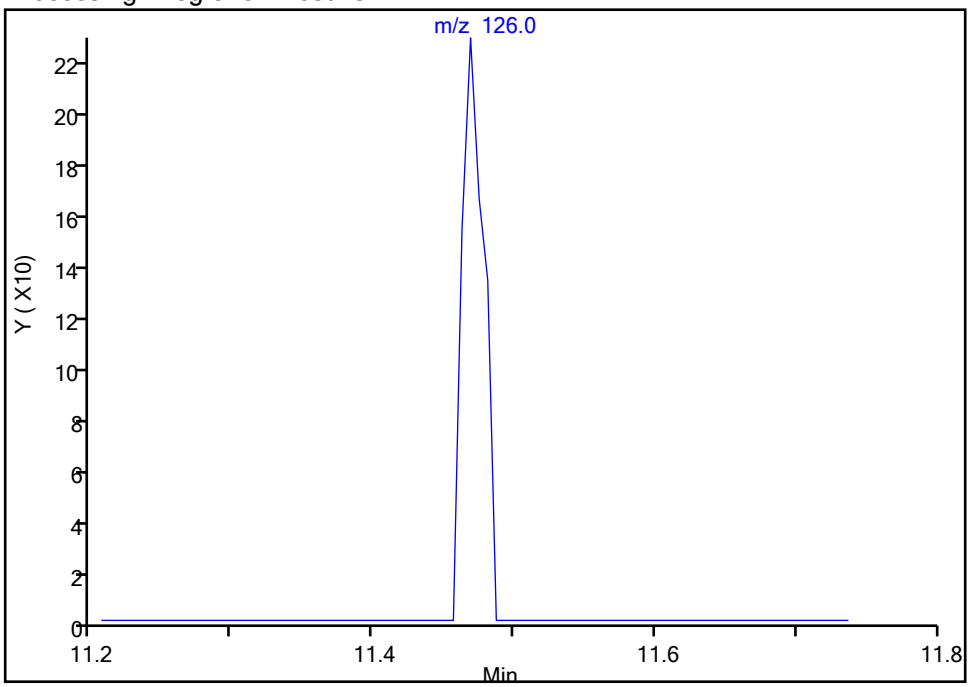
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5866.D
Injection Date: 13-Oct-2020 08:40:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

113 Benzyl chloride, CAS: 100-44-7

Signal: 1

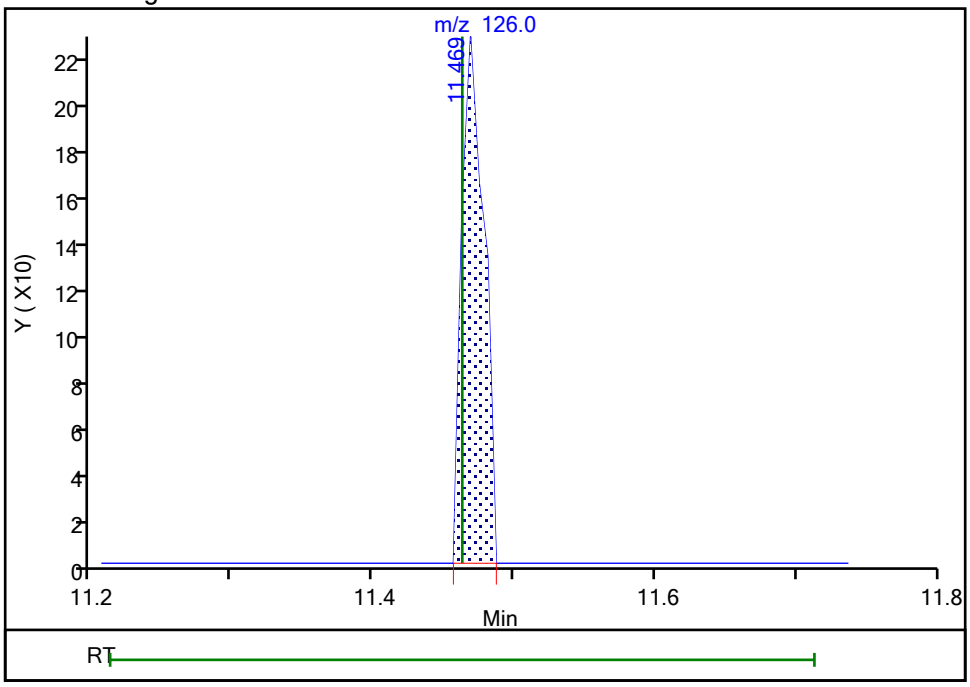
Not Detected
Expected RT: 11.46

Processing Integration Results



Manual Integration Results

RT: 11.47
Area: 241
Amount: 0.380010
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:14:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Oct-2020 09:05:30 ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:10 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:26:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	135865	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	4752	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	86	103408	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	48874	50.0	50.0	
17 Ethanol	45	2.367	2.373	-0.006	97	1433	80.0	121.3	Ma
18 Ethyl ether	59	2.452	2.452	0.000	94	2263	2.00	1.97	
19 Acrolein	56	2.556	2.550	0.006	95	1550	9.52	8.87	M
20 1,1-Dichloroethene	96	2.660	2.647	0.013	51	3005	2.00	2.15	M
21 112TCTFE	101	2.666	2.666	0.000	93	2751	2.00	1.98	
22 Acetone	43	2.714	2.708	0.006	62	1921	4.00	2.19	M
24 Carbon disulfide	76	2.842	2.836	0.006	98	8279	2.00	2.00	M
105 Isopropyl alcohol	45	2.885	2.891	-0.006	46	1343	20.0	21.0	M
118 Acetonitrile	40	2.964	2.971	-0.007	99	3001	20.0	22.9	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	85	1662	2.00	1.84	M
26 Methyl acetate	43	3.038	3.031	0.007	98	3972	4.00	4.14	M
27 Methylene Chloride	84	3.111	3.105	0.006	95	3549	2.00	2.15	M
23 Iodomethane	142	2.769	3.153	-0.384	52	541	2.00	0.4232	
35 2-Methyl-2-propanol	59	3.269	3.263	0.006	98	1897	20.0	20.9	
30 Acrylonitrile	53	3.342	3.342	0.000	99	9642	20.0	19.7	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	97	3122	2.00	1.96	
29 Methyl tert-butyl ether	73	3.391	3.391	0.000	96	7098	2.00	1.92	
31 Hexane	57	3.653	3.641	0.012	93	4614	2.00	2.13	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	93	5830	2.00	1.95	M
33 Vinyl acetate	86	3.836	3.842	-0.006	97	827	4.00	2.79	
34 2-Chloro-1,3-butadiene	53	3.861	3.854	0.007	93	5395	2.00	1.87	
36 Isopropyl ether	87	3.873	3.867	0.006	86	2764	2.00	1.90	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	98	8853	2.00	1.89	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	85	3440	2.00	1.89	M
38 2,2-Dichloropropane	77	4.312	4.318	-0.006	82	3745	2.00	1.59	
40 2-Butanone (MEK)	43	4.348	4.348	0.000	98	2380	4.00	4.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	97	3859	20.0	19.8	M
104 Ethyl acetate	61	4.415	4.415	0.000	98	879	4.00	3.93	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	10885	20.0	18.8	
42 Chlorobromomethane	128	4.549	4.543	0.006	58	1461	2.00	1.92	
44 Tetrahydrofuran	71	4.604	4.598	0.006	54	511	4.00	3.77	
45 Chloroform	83	4.629	4.635	-0.006	96	7208	2.00	2.30	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	97	4719	2.00	1.84	
47 Cyclohexane	56	4.848	4.848	0.000	91	6084	2.00	1.99	
48 Carbon tetrachloride	117	4.958	4.958	0.000	84	3858	2.00	1.74	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	89	4755	2.00	1.98	
108 Isobutyl alcohol	43	5.122	5.117	0.006	84	2633	50.0	54.4	
50 Benzene	78	5.153	5.153	0.000	96	13950	2.00	1.99	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	4506	2.00	2.03	
116 n-Butanol	56	5.269	5.257	0.012	52	3758	50.0	55.1	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	96	7709	2.00	1.83	
53 n-Heptane	43	5.452	5.446	0.006	96	4603	2.00	2.11	
54 Trichloroethene	95	5.793	5.793	0.000	97	3713	2.00	2.07	
117 Ethyl acrylate	55	5.921	5.927	-0.006	97	3067	2.00	1.81	
114 Methylcyclohexane	83	5.988	5.988	0.000	92	5910	2.00	2.01	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	93	3164	2.00	1.85	
56 Dibromomethane	93	6.116	6.122	-0.006	60	1808	2.00	1.98	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	3512	4.00	3.60	
115 1,4-Dioxane	58	6.153	6.159	-0.006	33	503	40.0	0	M
58 Dichlorobromomethane	83	6.287	6.287	0.000	97	3699	2.00	1.79	
106 2-Nitropropane	43	6.525	6.519	0.006	91	878	4.00	2.92	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	90	1591	2.00	1.67	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	91	3907	2.00	1.58	
61 4-Methyl-2-pentanone (MIBK)	43	6.921	6.927	-0.006	95	4825	4.00	3.68	
62 Toluene	92	7.098	7.098	0.000	99	9615	2.00	2.01	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	95	3403	2.00	1.76	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	86	3164	2.00	1.70	
65 1,1,2-Trichloroethane	83	7.518	7.531	-0.013	89	2116	2.00	1.86	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	4042	2.00	2.06	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	91	4885	2.00	2.00	
68 2-Hexanone	43	7.817	7.817	0.000	97	3180	4.00	3.71	
69 Chlorodibromomethane	129	7.939	7.939	0.000	86	2403	2.00	1.58	
109 n-Butyl acetate	43	7.969	7.970	-0.001	98	3928	2.00	1.75	
70 Ethylene Dibromide	107	8.055	8.049	0.006	95	2351	2.00	1.67	
71 Chlorobenzene	112	8.610	8.610	0.000	88	9914	2.00	1.91	a
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	88	2826	2.00	1.69	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	98	6822	2.00	1.93	
73 Ethylbenzene	91	8.744	8.884	-0.140	97	17799	2.00	1.96	a
75 o-Xylene	106	9.329	9.317	0.012	97	6560	2.00	1.95	
76 Styrene	104	9.341	9.341	0.000	95	9675	2.00	1.74	
77 Bromoform	173	9.530	9.530	0.000	91	1127	2.00	1.25	
78 Isopropylbenzene	105	9.756	9.762	-0.006	95	16669	2.00	1.91	
79 Bromobenzene	156	10.079	10.085	-0.006	92	3859	2.00	1.82	
80 1,1,2,2-Tetrachloroethane	83	10.097	10.097	0.000	95	3007	2.00	1.89	
81 1,2,3-Trichloropropane	110	10.146	10.146	0.000	85	1252	2.00	2.30	
82 trans-1,4-Dichloro-2-butene	53	10.164	10.164	0.000	1	613	2.00	1.35	a
83 N-Propylbenzene	91	10.237	10.237	0.000	98	18910	2.00	1.88	
84 2-Chlorotoluene	91	10.317	10.317	0.000	97	11529	2.00	1.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	13071	2.00	1.88	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	92	12974	2.00	1.86	
87 tert-Butylbenzene	119	10.829	10.829	0.000	93	11486	2.00	1.90	
88 1,2,4-Trimethylbenzene	105	10.884	10.884	0.000	98	13129	2.00	1.83	
89 sec-Butylbenzene	105	11.091	11.091	0.000	95	16564	2.00	1.93	
90 1,3-Dichlorobenzene	146	11.194	11.188	0.006	98	7292	2.00	1.93	
91 4-Isopropyltoluene	119	11.280	11.268	0.012	55	13327	2.00	1.83	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	97	12870	2.00	1.86	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	93	7637	2.00	1.97	a
113 Benzyl chloride	126	11.475	11.463	0.012	96	685	2.00	1.09	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	97	7226	2.00	1.98	
94 n-Butylbenzene	91	11.768	11.761	0.007	97	11468	2.00	1.79	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	69	353	2.00	1.52	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	4326	2.00	1.94	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	94	3538	2.00	1.90	
97 Hexachlorobutadiene	225	13.920	13.926	-0.006	89	1611	2.00	1.78	
98 Naphthalene	128	13.981	13.974	0.006	98	7518	2.00	1.85	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	2979	2.00	2.00	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		4.00	3.84	
S 102 1,3-Dichloropropene, Total	1				0		4.00	3.34	
S 100 Xylenes, Total	1				0		4.00	3.88	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

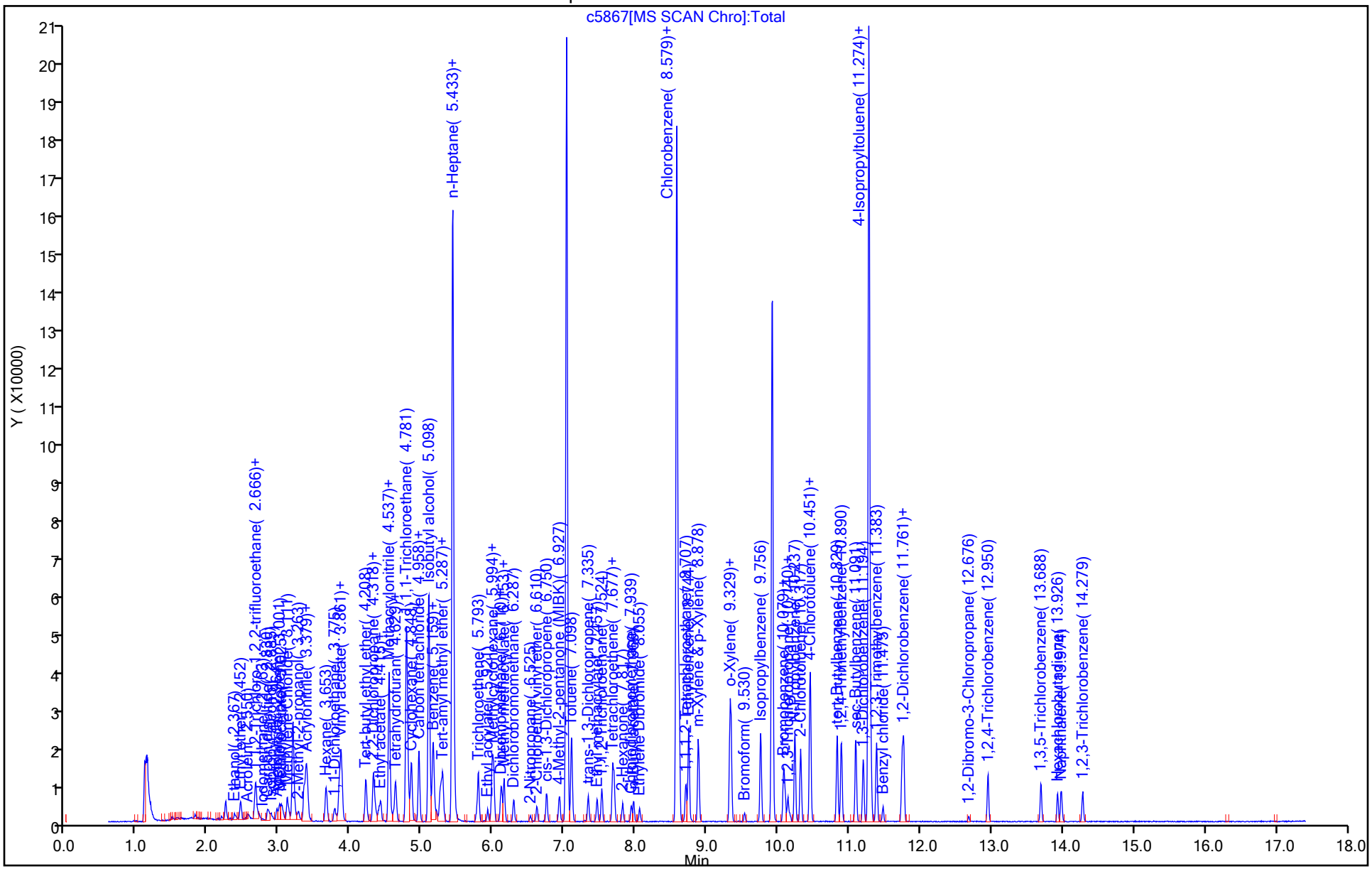
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	2.00	Units: uL

Report Date: 13-Oct-2020 18:26:13 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D

Injection Date:	13-Oct-2020 09:05:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

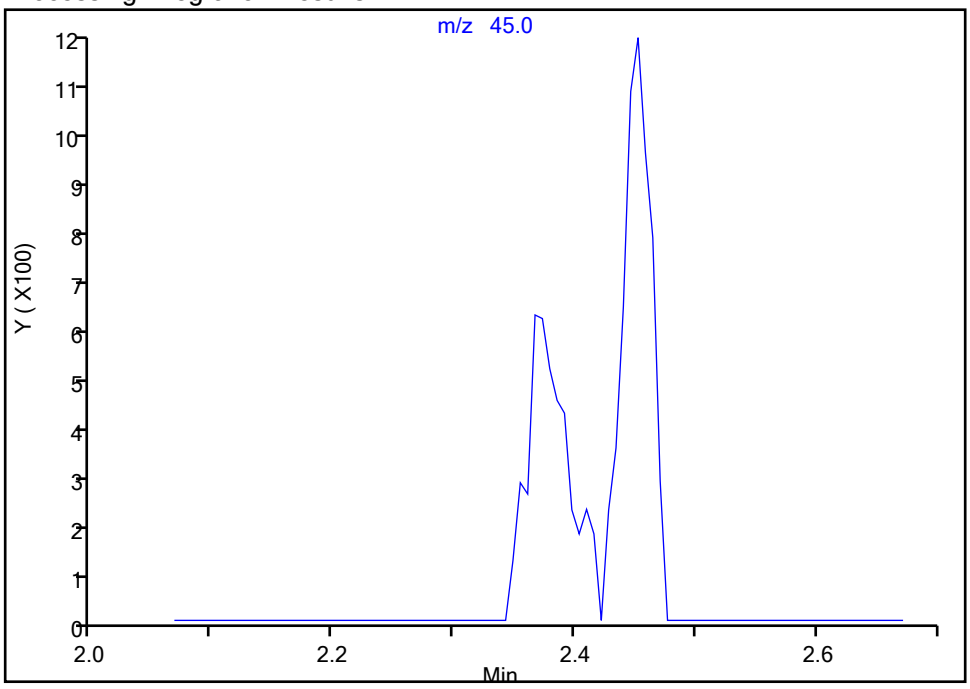
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

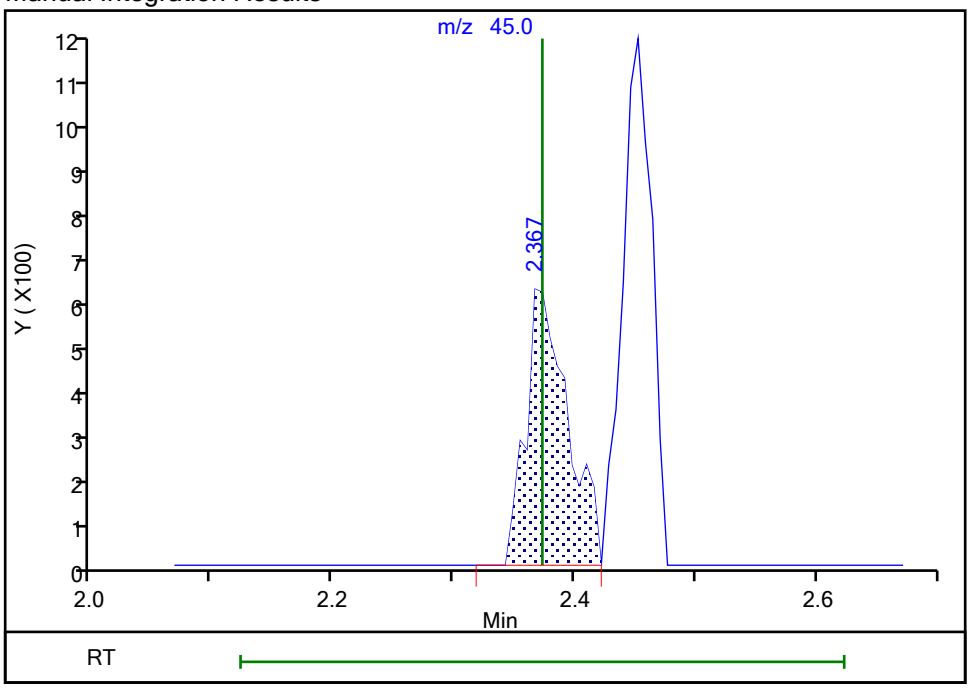
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 1433
Amount: 121.2846
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:22:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

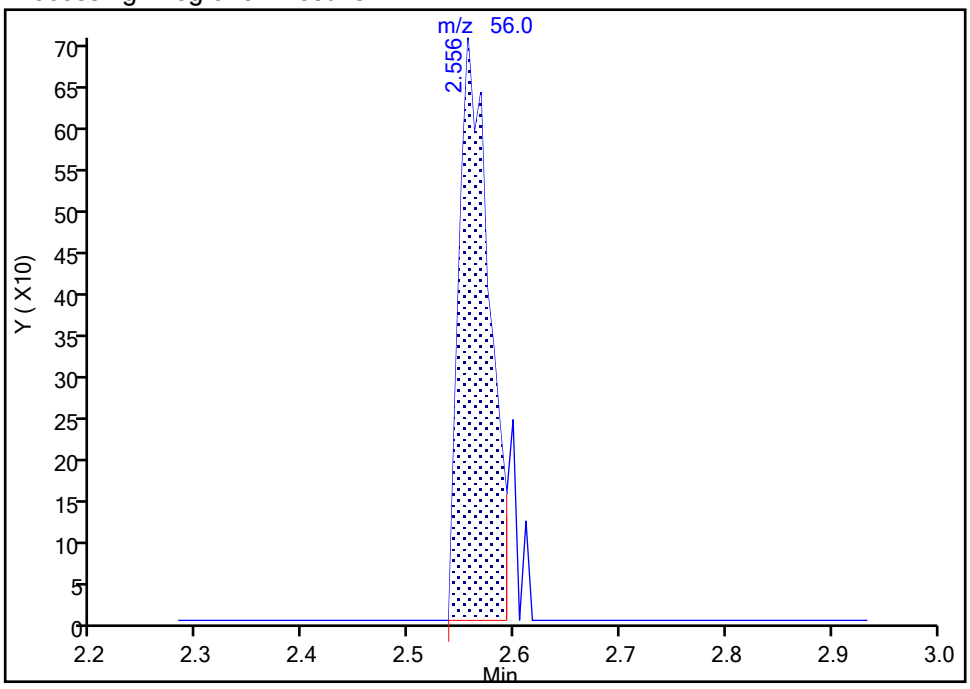
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

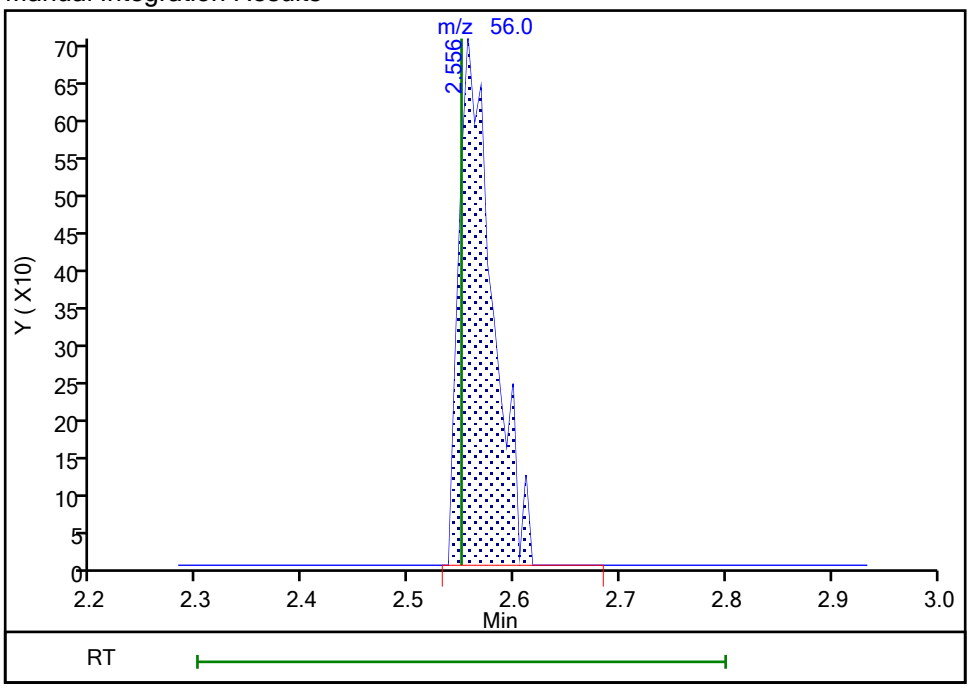
Processing Integration Results

RT: 2.56
Area: 1416
Amount: 9.134574
Amount Units: ug/l



Manual Integration Results

RT: 2.56
Area: 1550
Amount: 8.870985
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:22:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

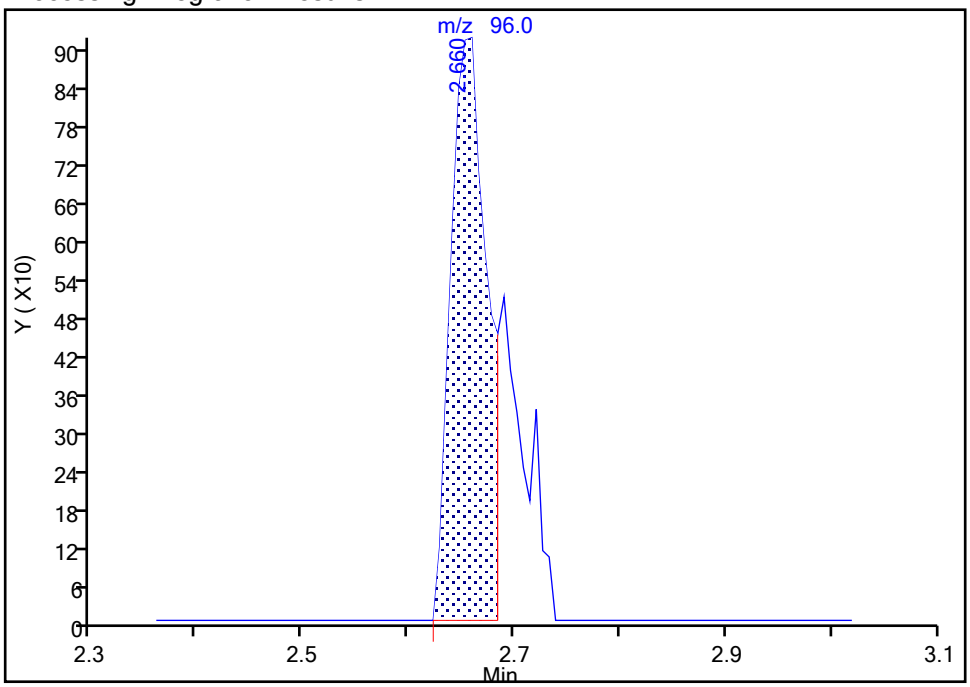
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

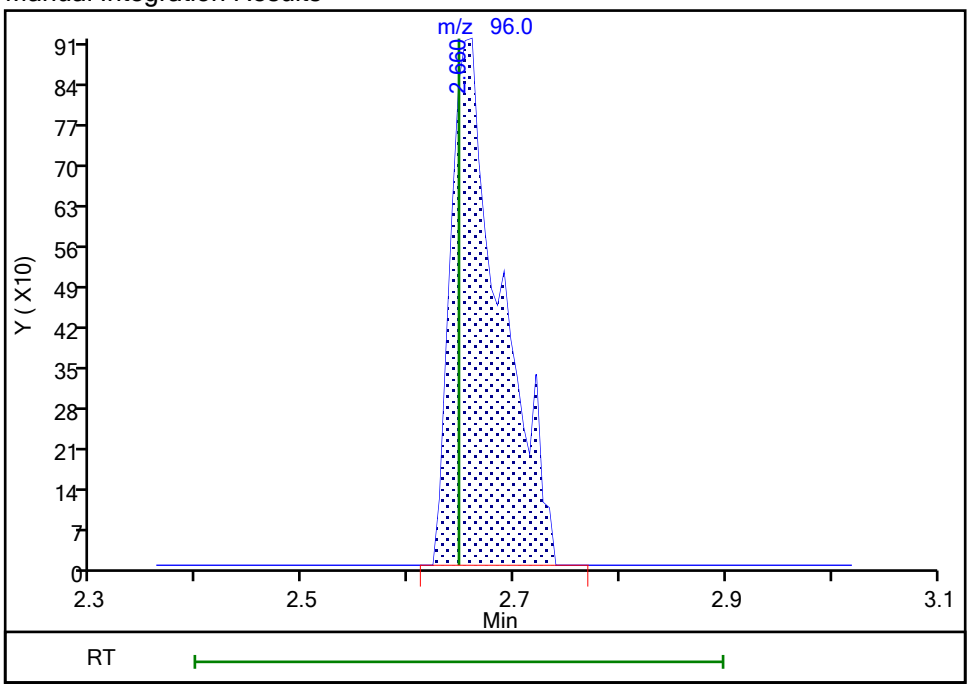
Processing Integration Results

RT: 2.66
Area: 2198
Amount: 1.848322
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 3005
Amount: 2.150138
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:22:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

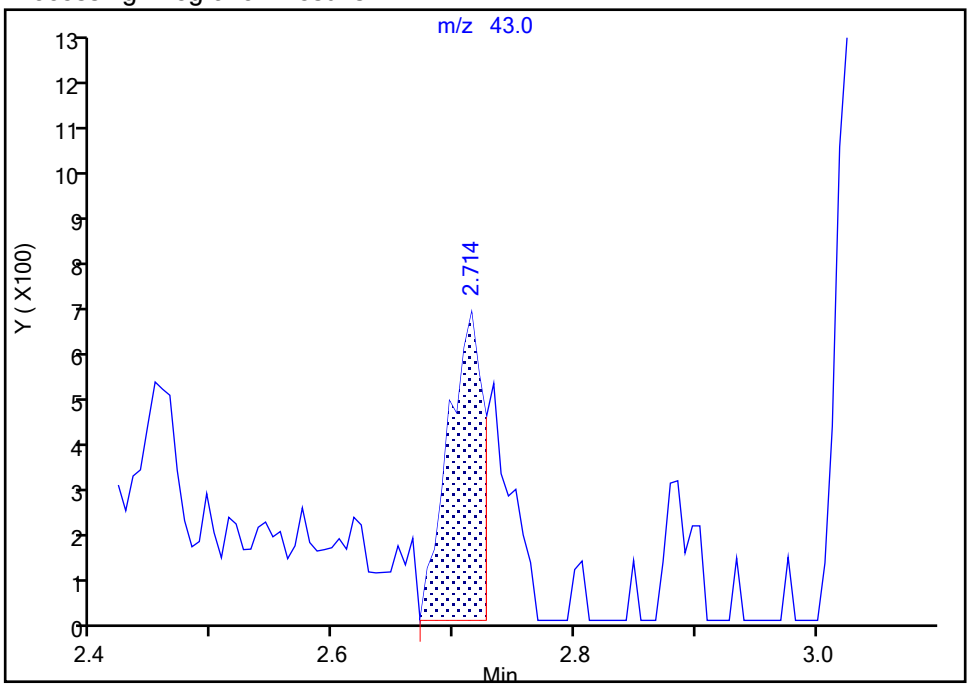
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

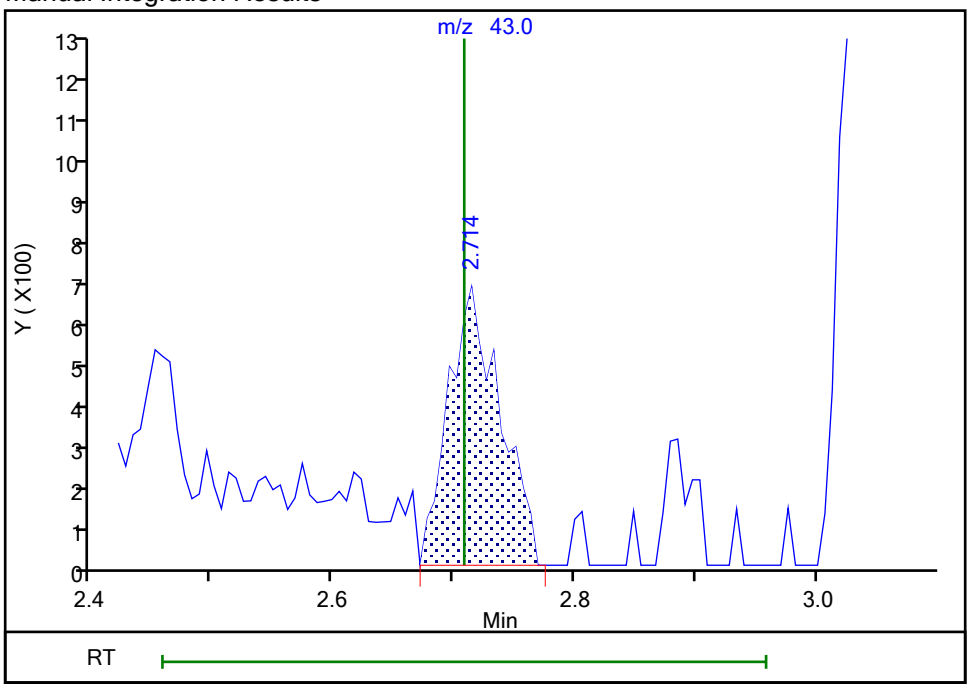
Processing Integration Results

RT: 2.71
Area: 1319
Amount: 3.218898
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 1921
Amount: 2.188837
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:03
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

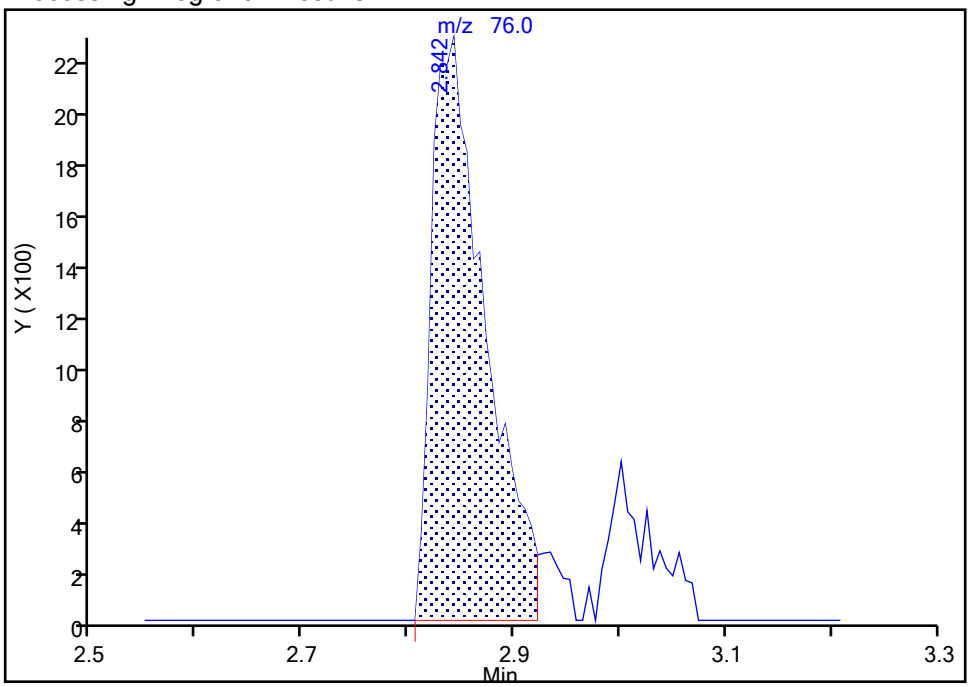
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

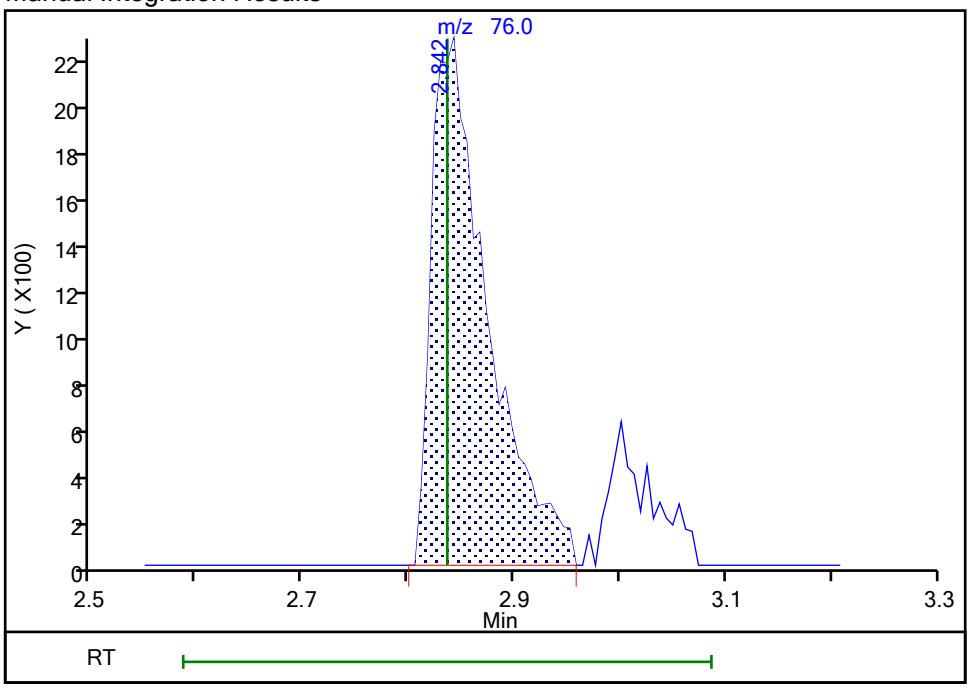
Processing Integration Results

RT: 2.84
Area: 7894
Amount: 1.894485
Amount Units: ug/l



Manual Integration Results

RT: 2.84
Area: 8279
Amount: 2.000909
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:21
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

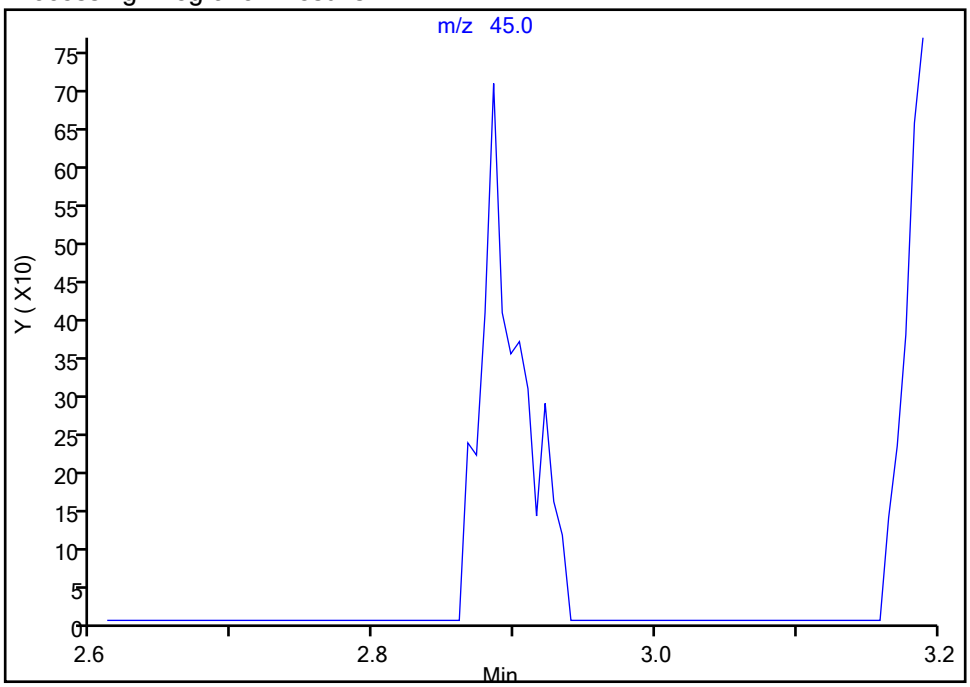
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

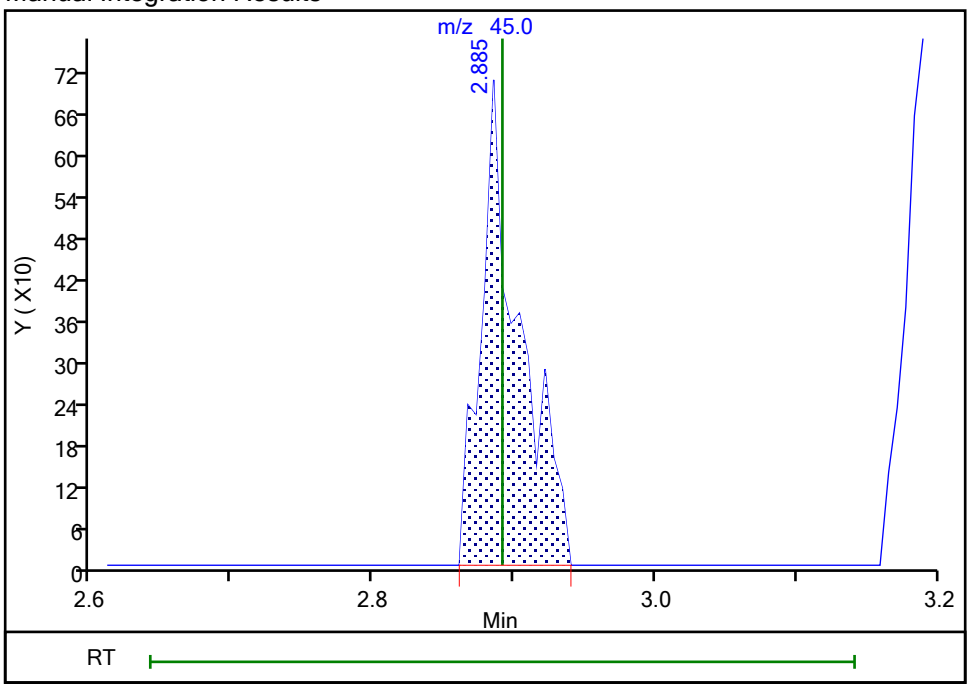
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 1343
Amount: 20.977594
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:32
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

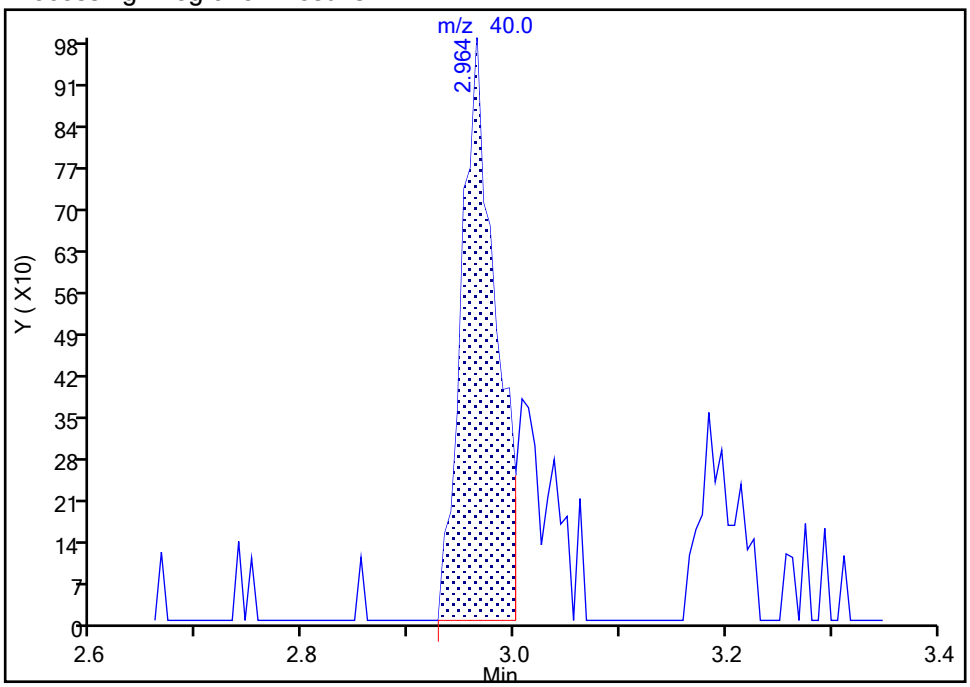
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

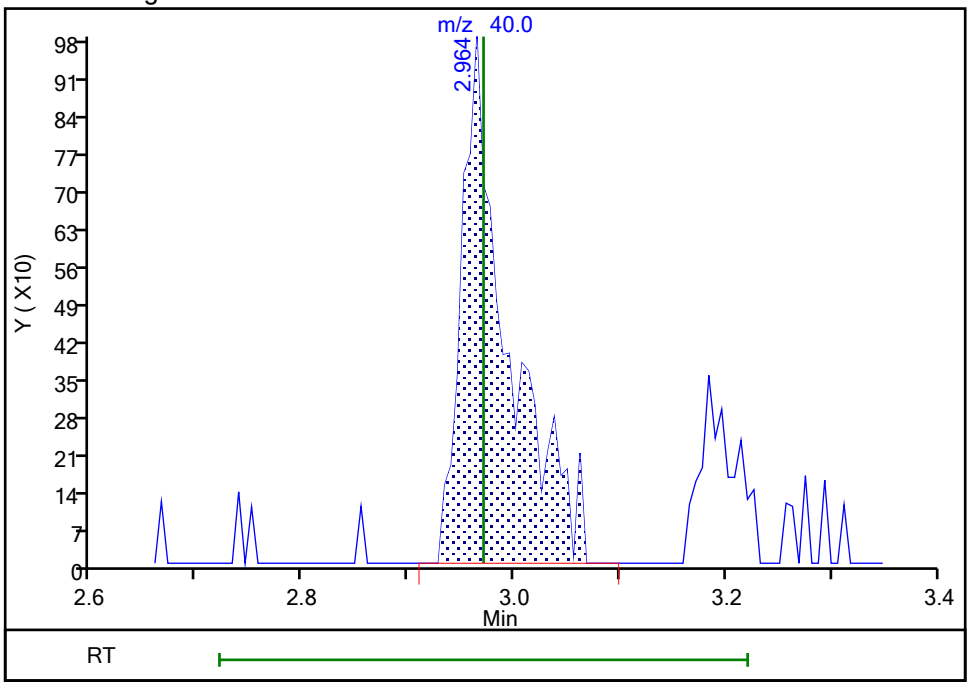
Processing Integration Results

RT: 2.96
Area: 2206
Amount: 22.235986
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 3001
Amount: 22.867309
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

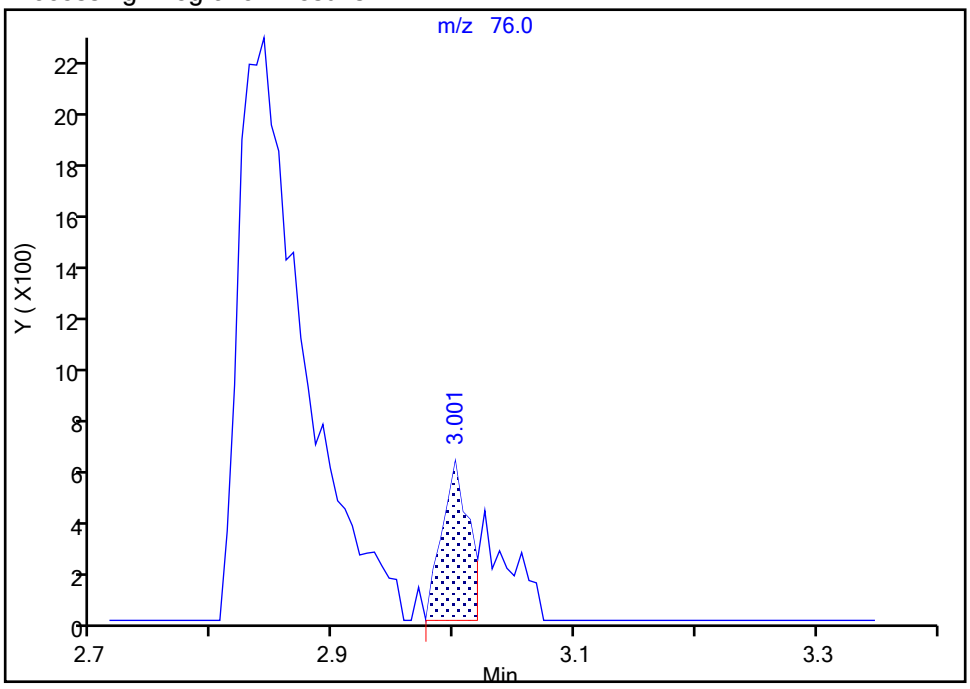
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

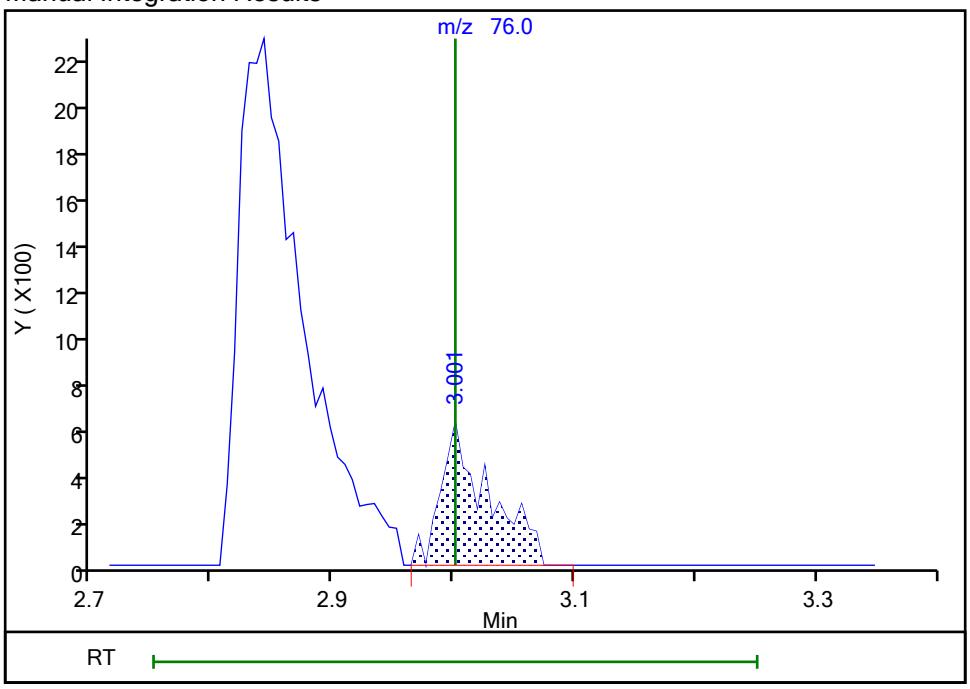
Processing Integration Results

RT: 3.00
Area: 952
Amount: 1.219127
Amount Units: ug/l



Manual Integration Results

RT: 3.00
Area: 1662
Amount: 1.840478
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:23:54
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

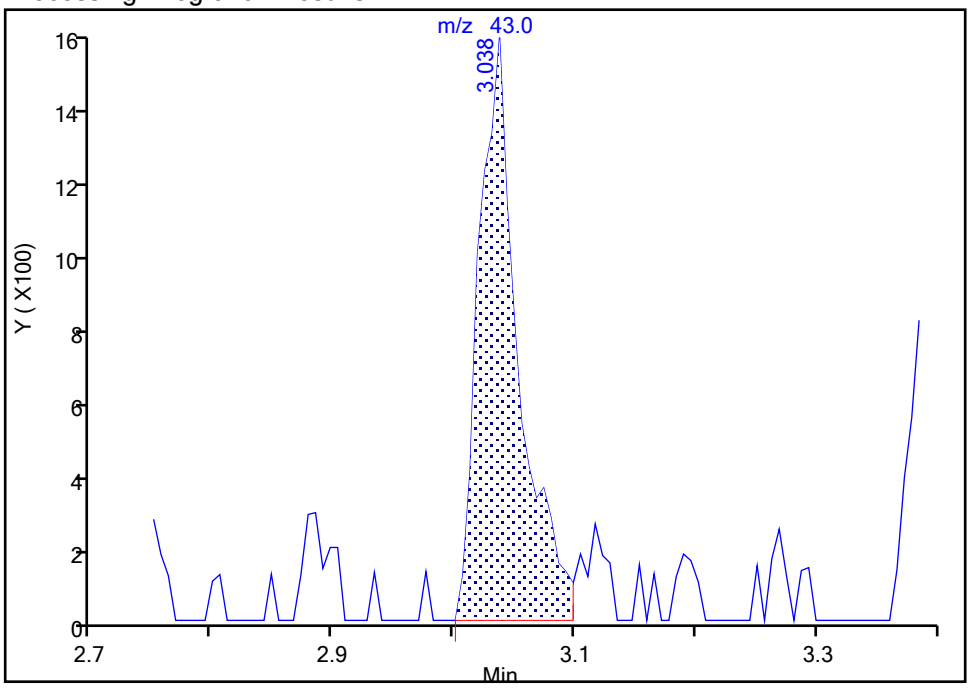
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

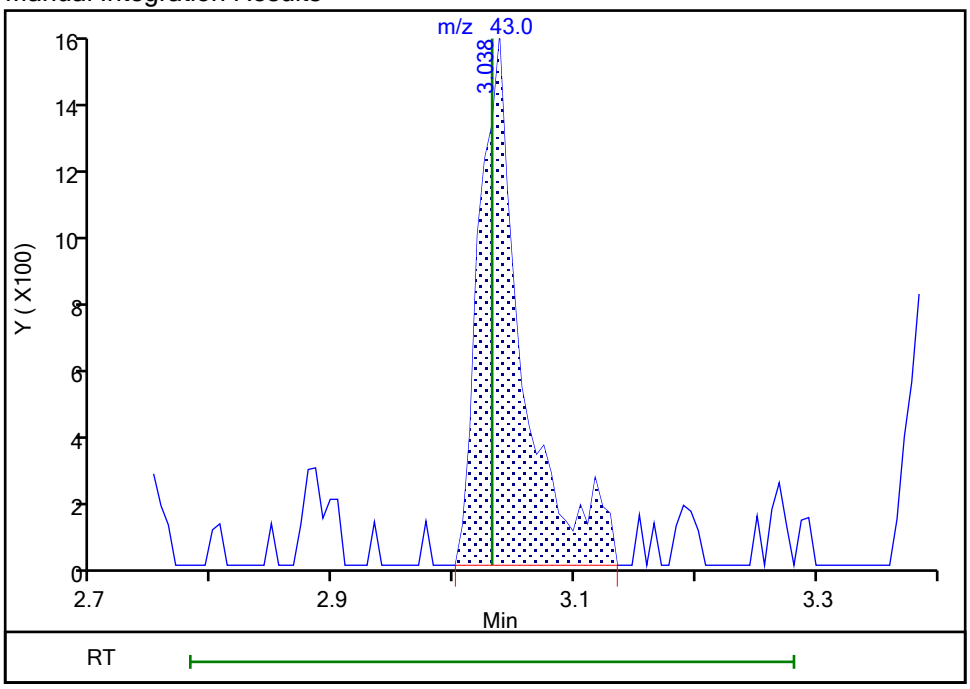
Processing Integration Results

RT: 3.04
Area: 3644
Amount: 3.841480
Amount Units: ug/l



Manual Integration Results

RT: 3.04
Area: 3972
Amount: 4.139565
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:07
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

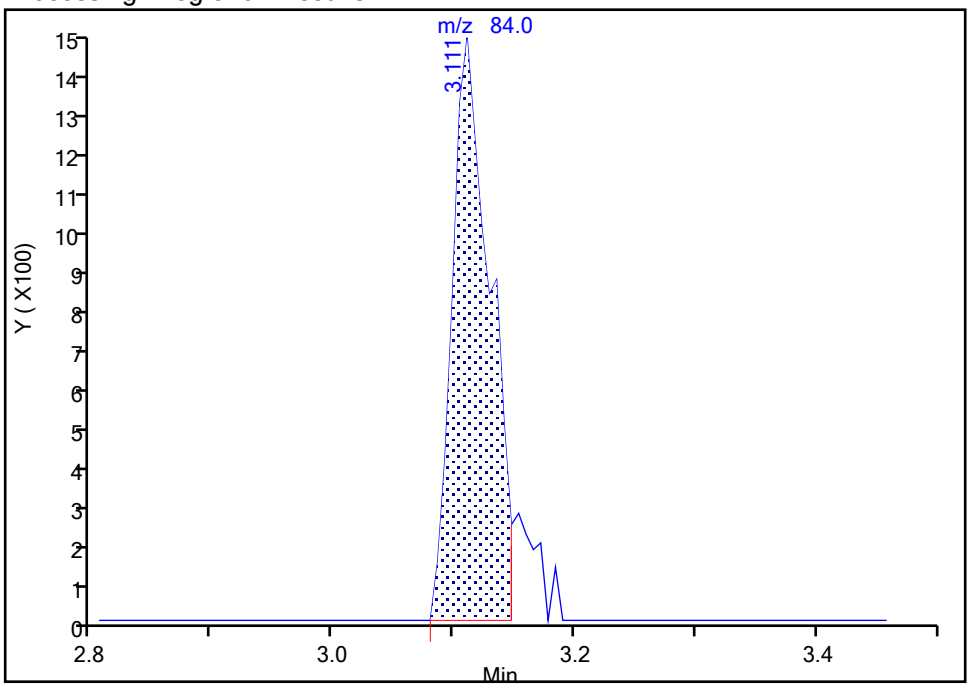
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

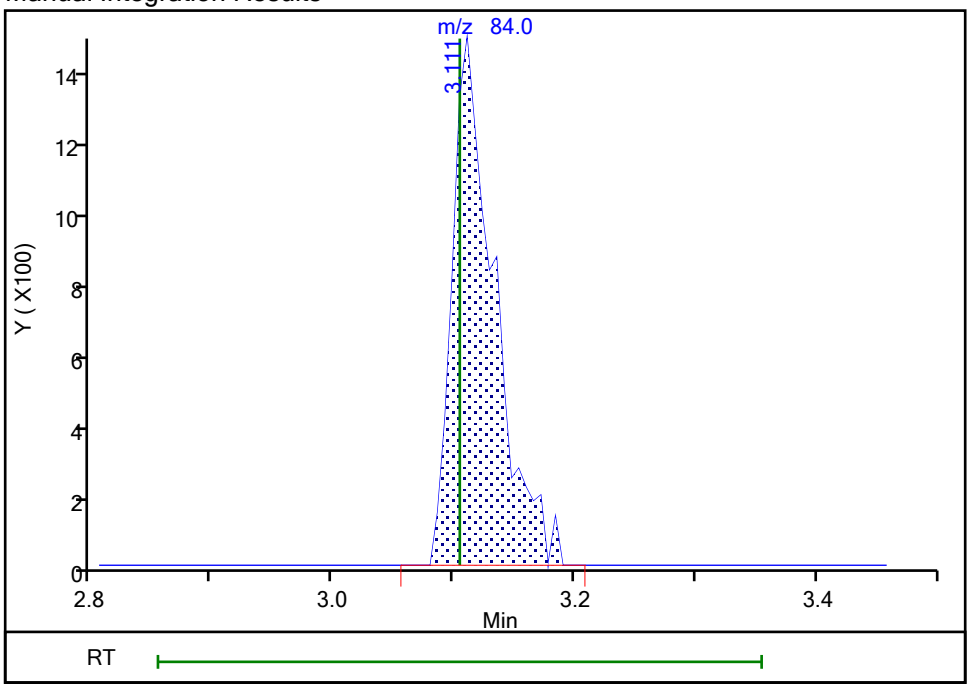
Processing Integration Results

RT: 3.11
Area: 3188
Amount: 1.948001
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 3549
Amount: 2.145021
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

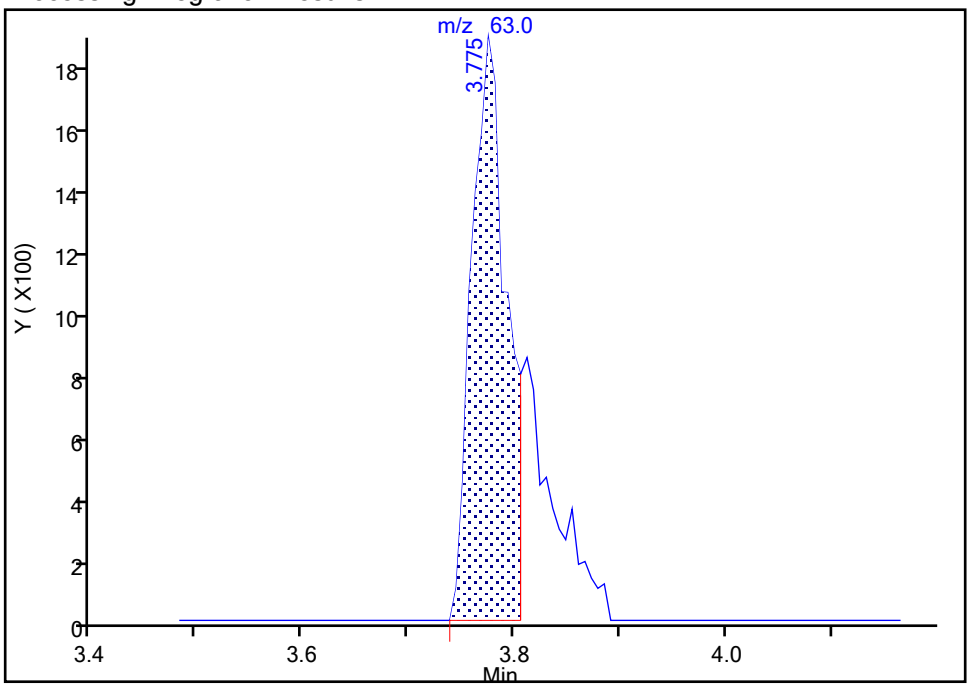
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

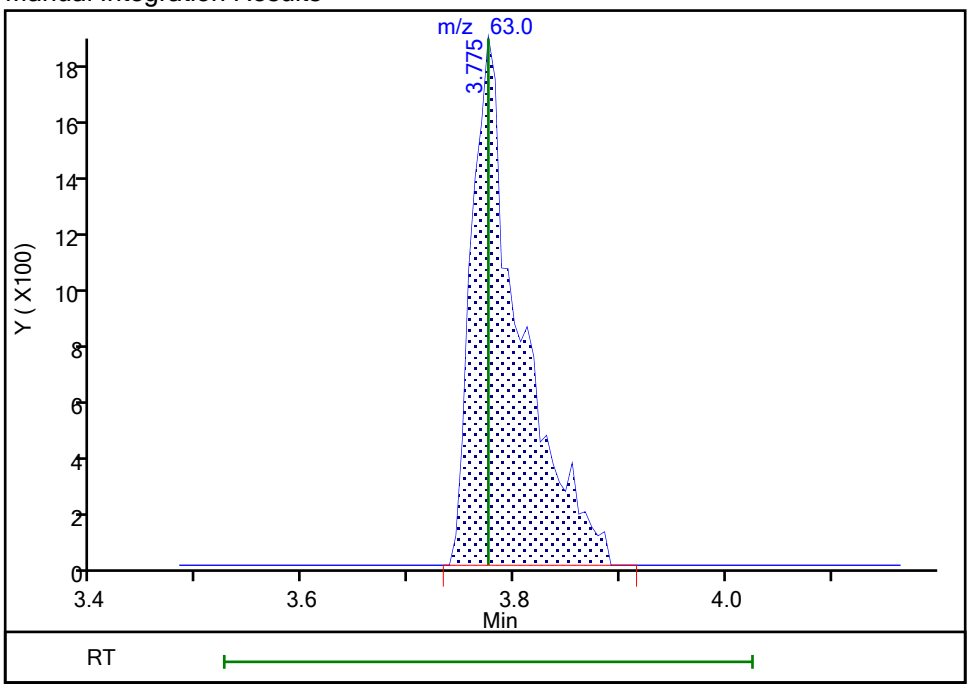
Processing Integration Results

RT: 3.78
Area: 4238
Amount: 1.456380
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 5830
Amount: 1.949714
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

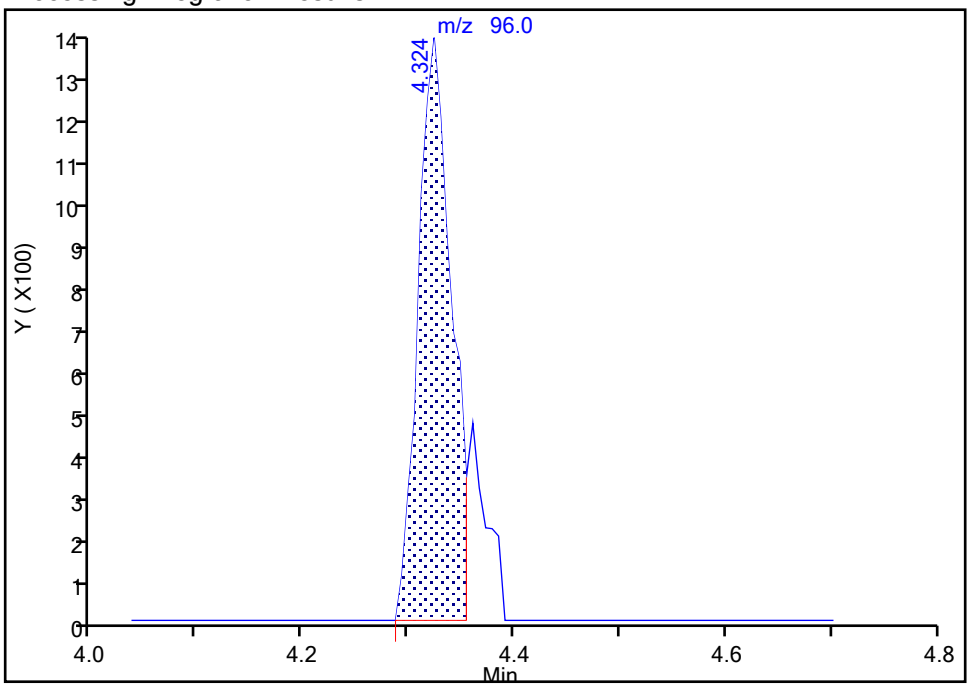
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

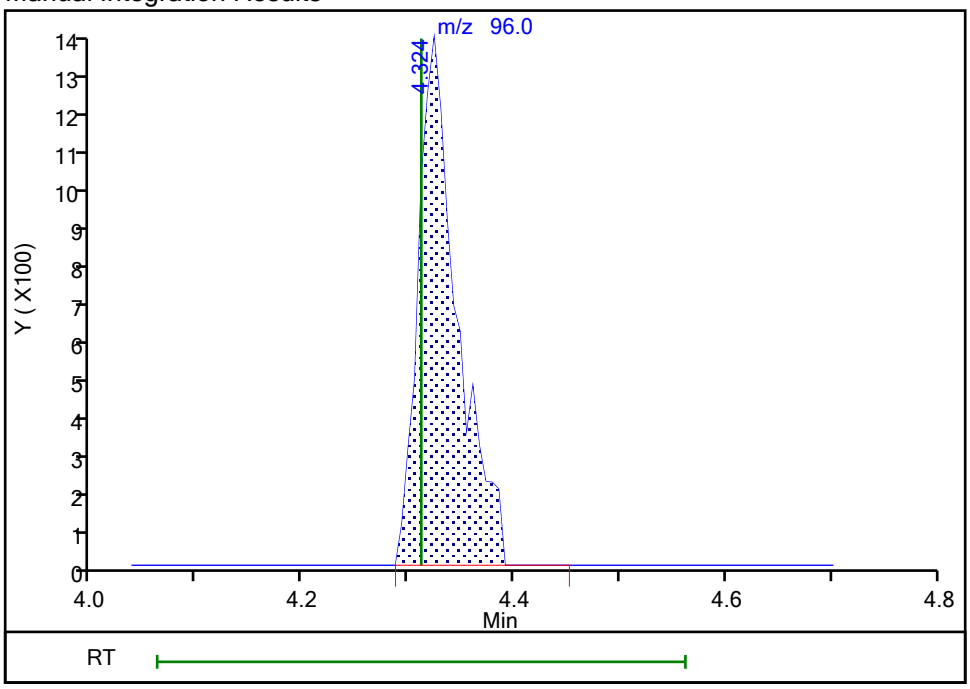
Processing Integration Results

RT: 4.32
Area: 2936
Amount: 1.632149
Amount Units: ug/l



Manual Integration Results

RT: 4.32
Area: 3440
Amount: 1.885726
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:47
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

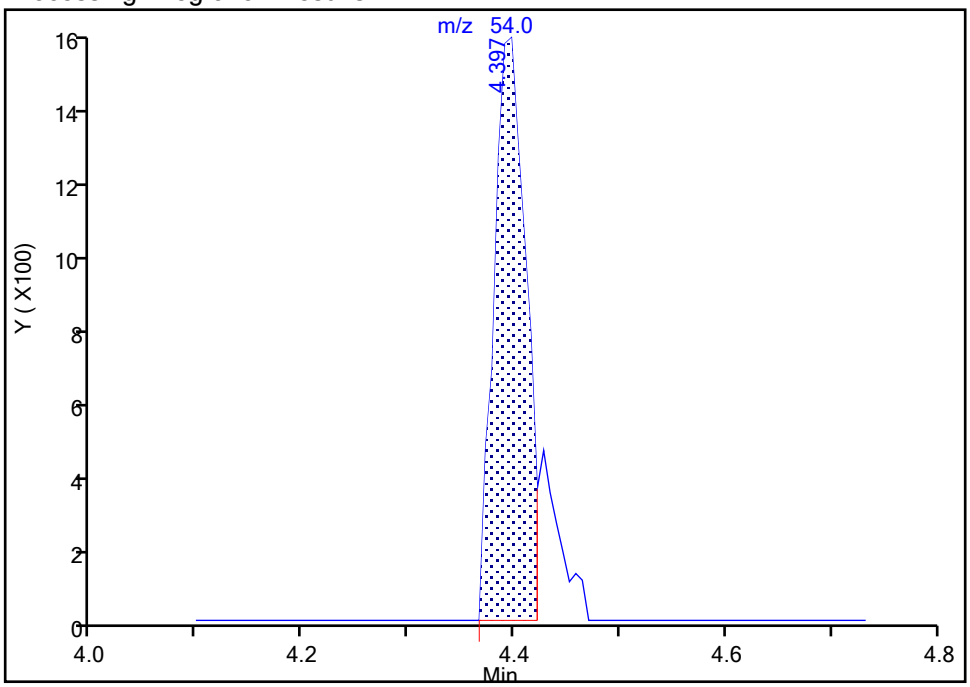
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

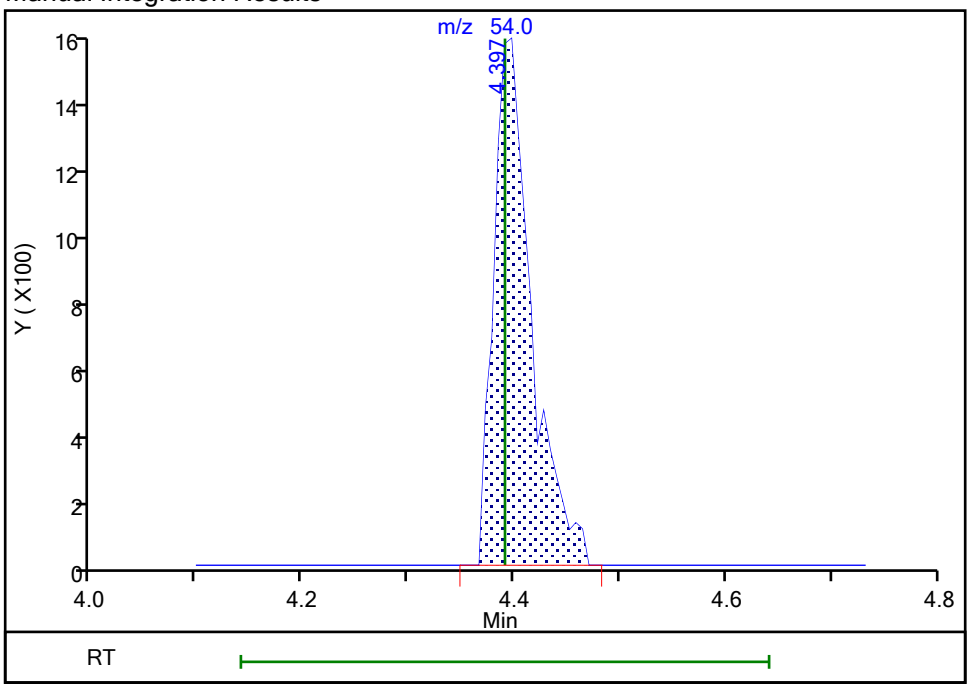
Processing Integration Results

RT: 4.40
Area: 3279
Amount: 17.866677
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 3859
Amount: 19.778578
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:24:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

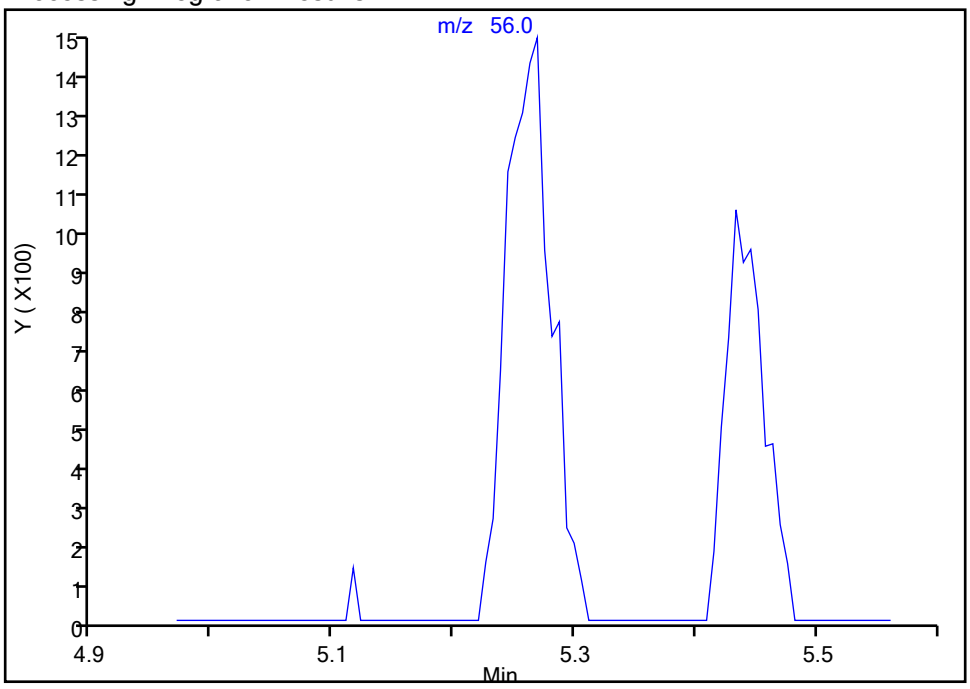
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

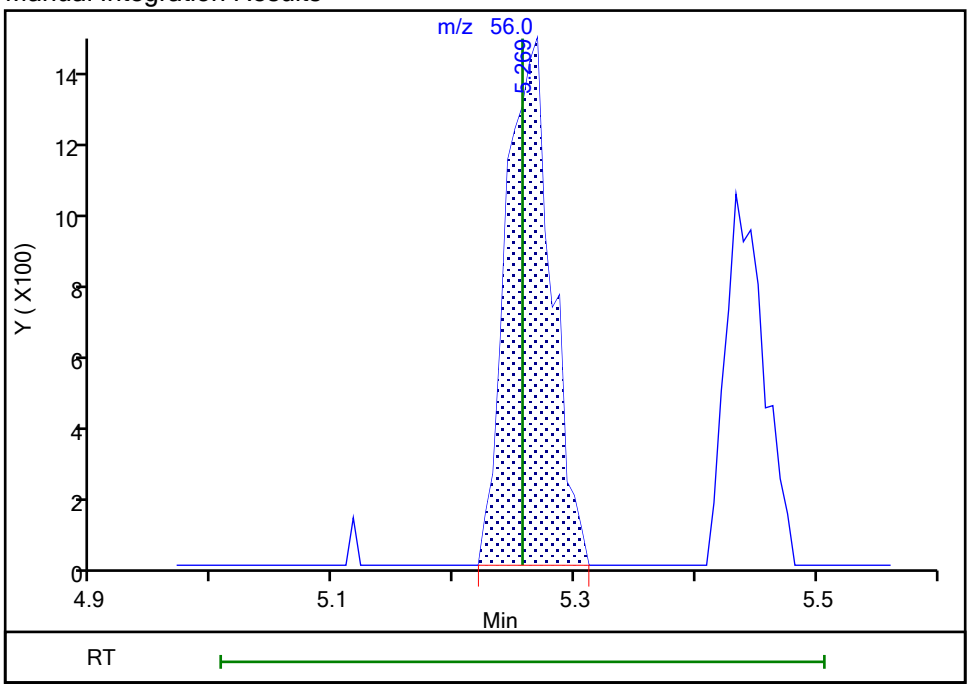
Not Detected
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.27
Area: 3758
Amount: 55.066938
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:25:19
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

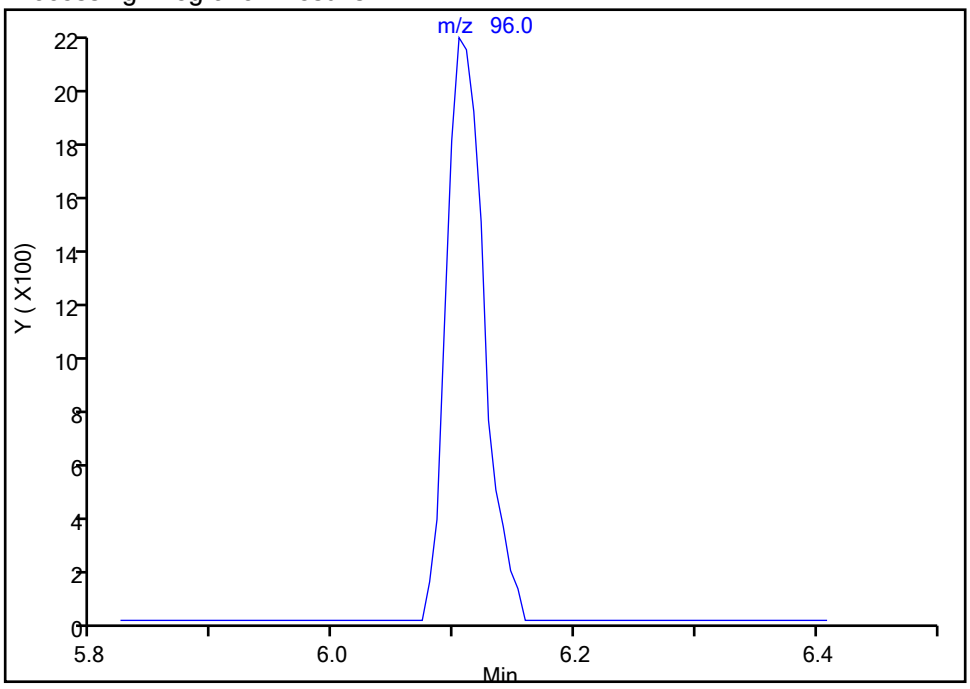
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

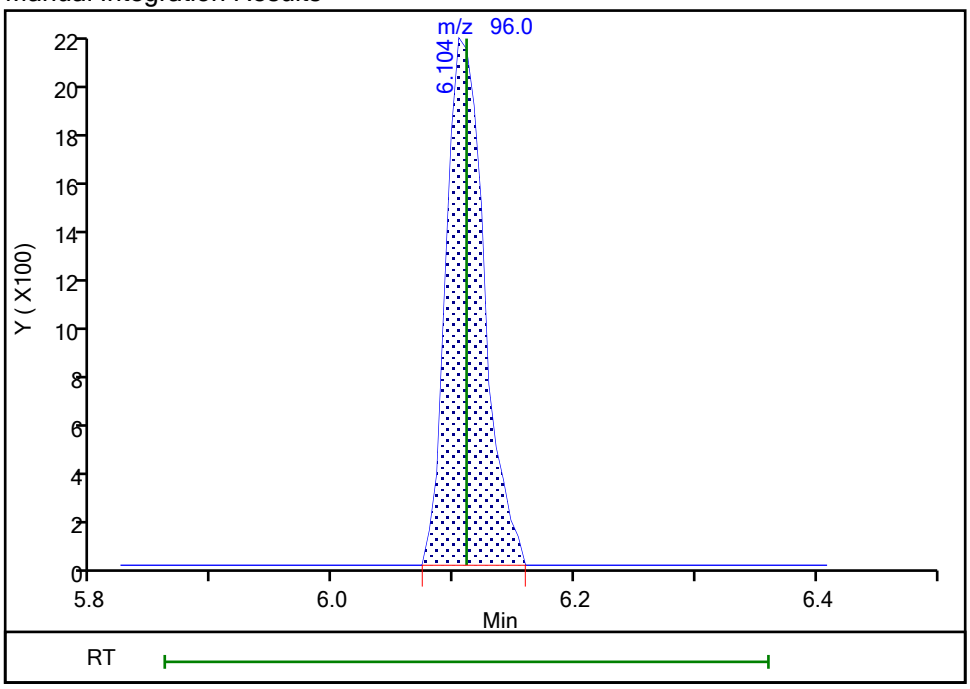
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 4752
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:21:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

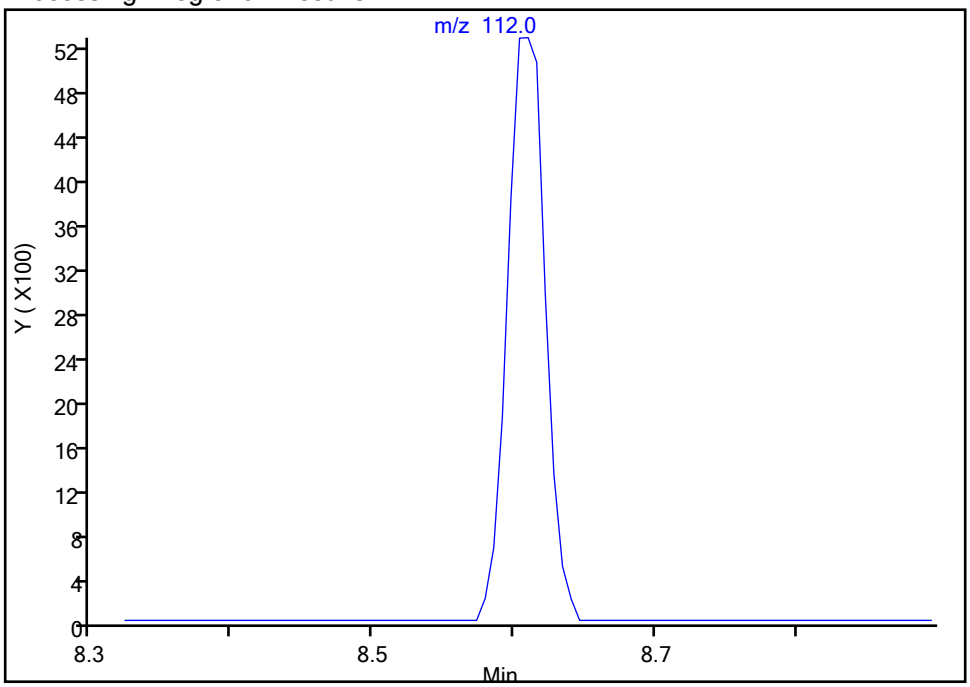
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

71 Chlorobenzene, CAS: 108-90-7

Signal: 1

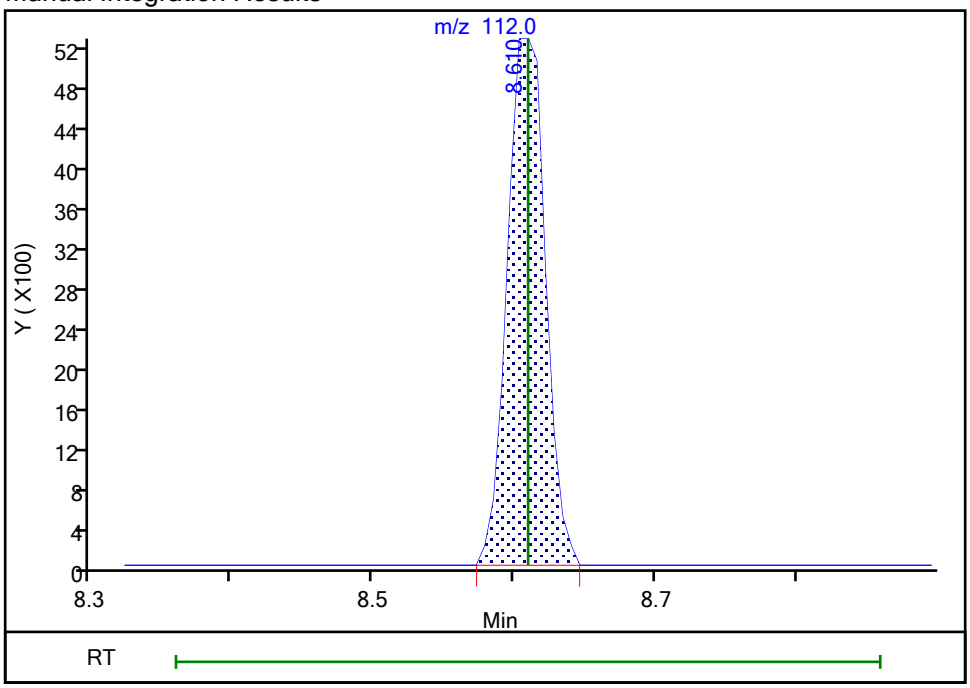
Not Detected
Expected RT: 8.61

Processing Integration Results



Manual Integration Results

RT: 8.61
Area: 9914
Amount: 1.912065
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:25:53
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

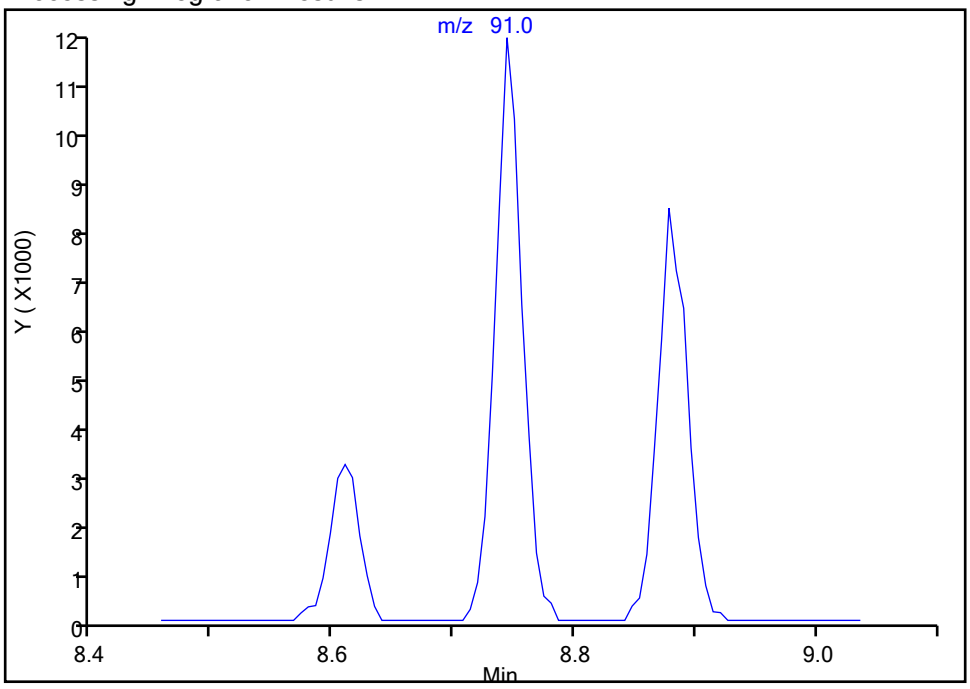
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

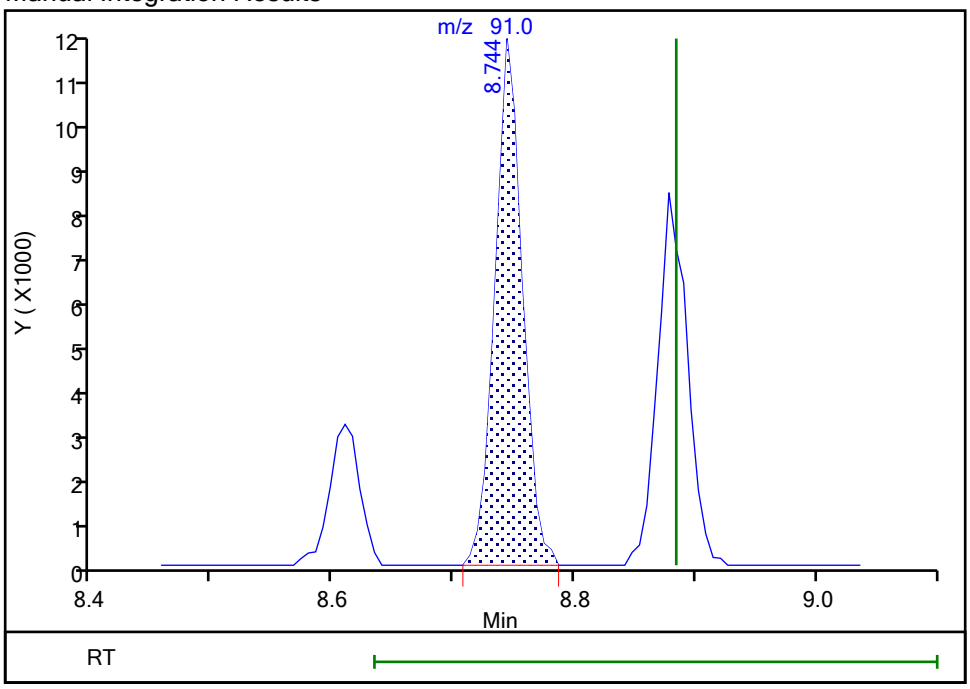
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 17799
Amount: 1.961133
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:26:05
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

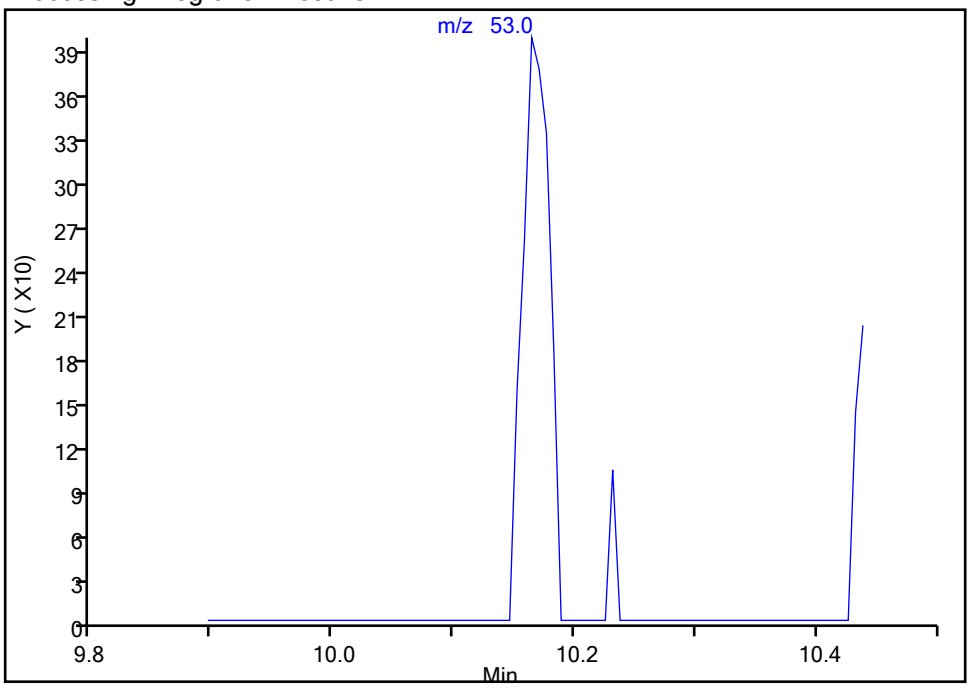
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D
Injection Date: 13-Oct-2020 09:05:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

82 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

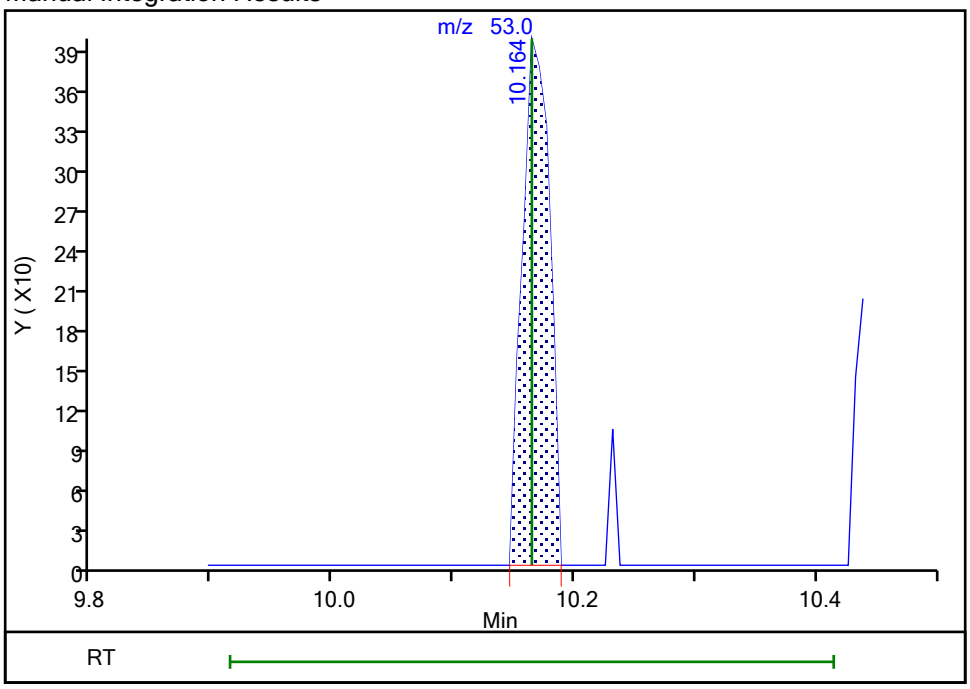
Not Detected
Expected RT: 10.16

Processing Integration Results



Manual Integration Results

RT: 10.16
Area: 613
Amount: 1.353658
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:26:19
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

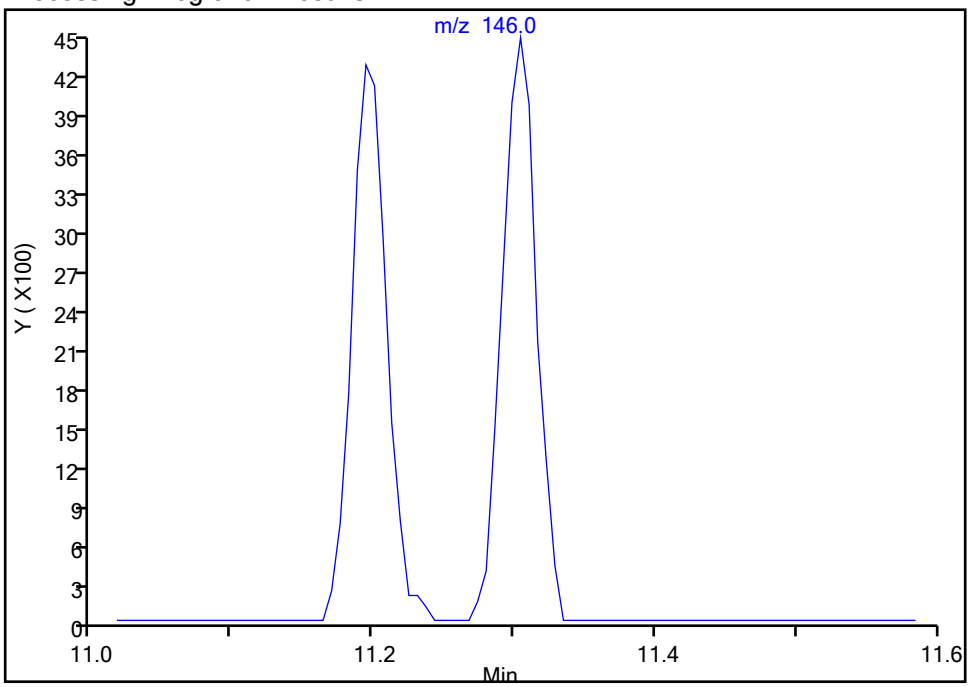
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5867.D				
Injection Date:	13-Oct-2020 09:05:30	Instrument ID:	Calvin		
Lims ID:	std3				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	7	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

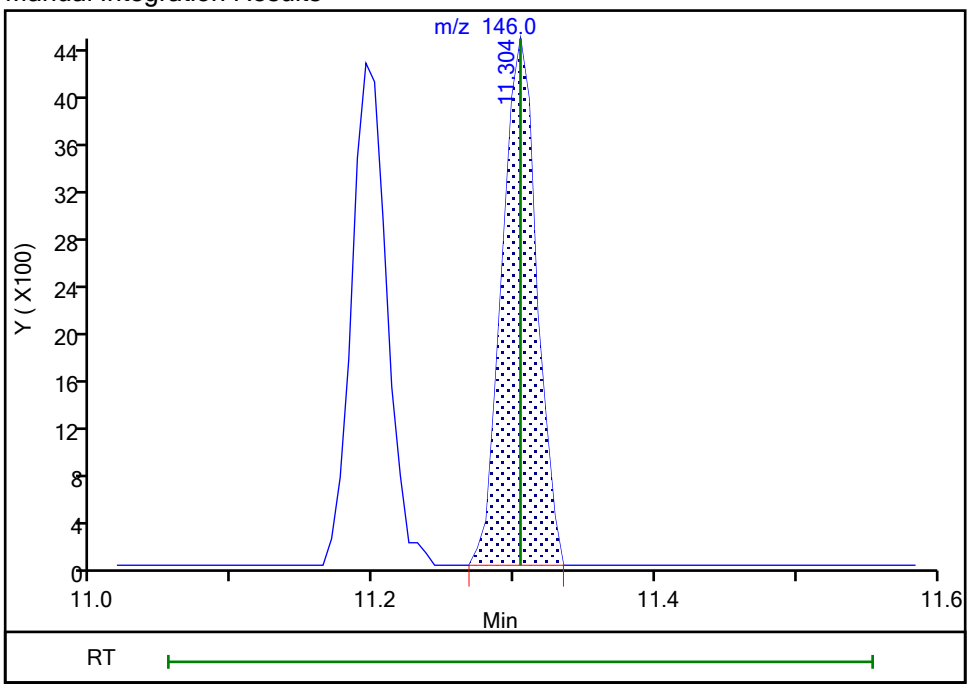
Not Detected
Expected RT: 11.30

Processing Integration Results



Manual Integration Results

RT: 11.30
Area: 7637
Amount: 1.967952
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:26:35
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Oct-2020 09:29:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:23 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:07:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	141797	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	4997	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	86	106146	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	50081	50.0	50.0	
17 Ethanol	45	2.379	2.373	0.006	97	3326	200.0	269.7	a
18 Ethyl ether	59	2.452	2.452	0.000	93	6383	5.00	5.32	
19 Acrolein	56	2.556	2.550	0.006	97	4378	23.8	24.0	M
20 1,1-Dichloroethene	96	2.653	2.647	0.006	97	6520	5.00	4.47	M
21 112TCTFE	101	2.659	2.666	-0.007	91	5704	5.00	3.94	
22 Acetone	43	2.708	2.708	0.000	98	5179	10.0	11.0	M
24 Carbon disulfide	76	2.836	2.836	0.000	99	18910	5.00	4.38	M
105 Isopropyl alcohol	45	2.885	2.891	-0.006	59	3572	50.0	53.5	M
118 Acetonitrile	40	2.958	2.971	-0.013	96	7279	50.0	53.1	M
25 3-Chloro-1-propene	76	3.007	3.001	0.006	78	4829	5.00	5.12	M
26 Methyl acetate	43	3.031	3.031	0.000	98	10592	10.0	10.6	M
27 Methylene Chloride	84	3.111	3.105	0.006	97	8724	5.00	5.05	
23 Iodomethane	142	2.775	3.153	-0.378	98	3172	5.00	2.38	M
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	5421	50.0	57.3	M
30 Acrylonitrile	53	3.342	3.342	0.000	98	27301	50.0	53.3	
28 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	96	7449	5.00	4.48	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	97	19744	5.00	5.12	
31 Hexane	57	3.653	3.641	0.012	94	9450	5.00	4.19	
32 1,1-Dichloroethane	63	3.769	3.775	-0.006	97	15757	5.00	5.05	M
33 Vinyl acetate	86	3.836	3.842	-0.006	98	2864	10.0	9.27	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	12392	5.00	4.11	
36 Isopropyl ether	87	3.867	3.867	0.000	84	7895	5.00	5.20	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	96	24453	5.00	5.01	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	86	9661	5.00	5.07	
38 2,2-Dichloropropane	77	4.324	4.318	0.006	82	10319	5.00	4.19	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	6634	10.0	11.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	97	11076	50.0	54.4	M
104 Ethyl acetate	61	4.421	4.415	0.006	99	2477	10.0	10.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	93	31501	50.0	52.1	
42 Chlorobromomethane	128	4.543	4.543	0.000	41	4409	5.00	5.54	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	1396	10.0	9.88	M
45 Chloroform	83	4.629	4.635	-0.006	95	16264	5.00	4.98	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	97	11030	5.00	4.12	
47 Cyclohexane	56	4.848	4.848	0.000	94	12890	5.00	4.04	
48 Carbon tetrachloride	117	4.958	4.958	0.000	79	8797	5.00	3.80	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	92	11010	5.00	4.40	
108 Isobutyl alcohol	43	5.116	5.117	0.000	92	6523	125.0	129.1	
50 Benzene	78	5.153	5.153	0.000	96	35933	5.00	4.90	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	95	11747	5.00	5.07	
116 n-Butanol	56	5.257	5.257	-0.001	43	7175	125.0	100.7	a
52 Tert-amyl methyl ether	73	5.293	5.287	0.006	99	22745	5.00	5.17	
53 n-Heptane	43	5.445	5.446	-0.001	87	9133	5.00	4.01	
54 Trichloroethene	95	5.793	5.793	0.000	97	8767	5.00	4.68	
117 Ethyl acrylate	55	5.921	5.927	-0.006	99	9456	5.00	5.34	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	12217	5.00	3.97	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	94	9118	5.00	5.10	
56 Dibromomethane	93	6.122	6.122	0.000	94	4879	5.00	5.13	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	10454	10.0	10.3	
115 1,4-Dioxane	58	6.165	6.159	0.006	33	1437	100.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	97	10458	5.00	4.84	
106 2-Nitropropane	43	6.525	6.519	0.006	98	2682	10.0	8.54	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	92	5133	5.00	5.17	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	12398	5.00	4.79	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	97	14634	10.0	10.7	
62 Toluene	92	7.098	7.098	0.000	99	25051	5.00	5.03	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	10540	5.00	4.52	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	90	9658	5.00	4.96	
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	92	6736	5.00	5.66	
66 Tetrachloroethene	166	7.683	7.677	0.006	96	9753	5.00	4.75	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	13950	5.00	5.47	
68 2-Hexanone	43	7.817	7.817	0.000	98	9374	10.0	10.5	
69 Chlorodibromomethane	129	7.939	7.939	0.000	89	7339	5.00	4.62	
109 n-Butyl acetate	43	7.969	7.970	-0.001	98	12046	5.00	5.14	
70 Ethylene Dibromide	107	8.055	8.049	0.006	99	7745	5.00	5.28	
71 Chlorobenzene	112	8.610	8.610	0.000	93	29009	5.00	5.45	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	92	8766	5.00	5.09	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	99	18231	5.00	5.03	
73 Ethylbenzene	91	8.744	8.884	-0.140	99	46529	5.00	4.99	
75 o-Xylene	106	9.323	9.317	0.006	96	18126	5.00	5.25	
76 Styrene	104	9.341	9.341	0.000	93	30342	5.00	5.31	
77 Bromoform	173	9.530	9.530	0.000	91	3525	5.00	3.80	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	44416	5.00	4.95	
79 Bromobenzene	156	10.079	10.085	-0.006	94	11831	5.00	5.43	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	94	9318	5.00	5.60	
81 1,2,3-Trichloropropane	110	10.140	10.146	-0.006	87	3204	5.00	5.73	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	71	1855	5.00	3.99	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	50105	5.00	4.84	
84 2-Chlorotoluene	91	10.316	10.317	-0.001	97	30904	5.00	5.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	98	37170	5.00	5.21	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	96	35953	5.00	5.02	
87 tert-Butylbenzene	119	10.829	10.829	0.000	93	30027	5.00	4.84	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	98	37308	5.00	5.06	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	41390	5.00	4.69	
90 1,3-Dichlorobenzene	146	11.200	11.188	0.012	98	21308	5.00	5.49	a
91 4-Isopropyltoluene	119	11.274	11.268	0.006	70	36080	5.00	4.84	
110 1,2,3-Trimethylbenzene	105	11.383	11.280	0.103	98	38239	5.00	5.39	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	22552	5.00	5.67	a
113 Benzyl chloride	126	11.475	11.463	0.012	98	1884	5.00	2.92	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	97	20163	5.00	5.39	
94 n-Butylbenzene	91	11.761	11.761	0.000	97	30233	5.00	4.61	
95 1,2-Dibromo-3-Chloropropane	75	12.682	12.682	0.000	80	979	5.00	4.11	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	95	11804	5.00	5.17	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	96	10153	5.00	5.32	
97 Hexachlorobutadiene	225	13.932	13.926	0.006	94	4355	5.00	4.68	
98 Naphthalene	128	13.974	13.974	0.000	97	21334	5.00	5.12	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	8158	5.00	5.35	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		10.0	9.55	
S 102 1,3-Dichloropropene, Total	1				0		10.0	9.31	
S 100 Xylenes, Total	1				0		10.0	10.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

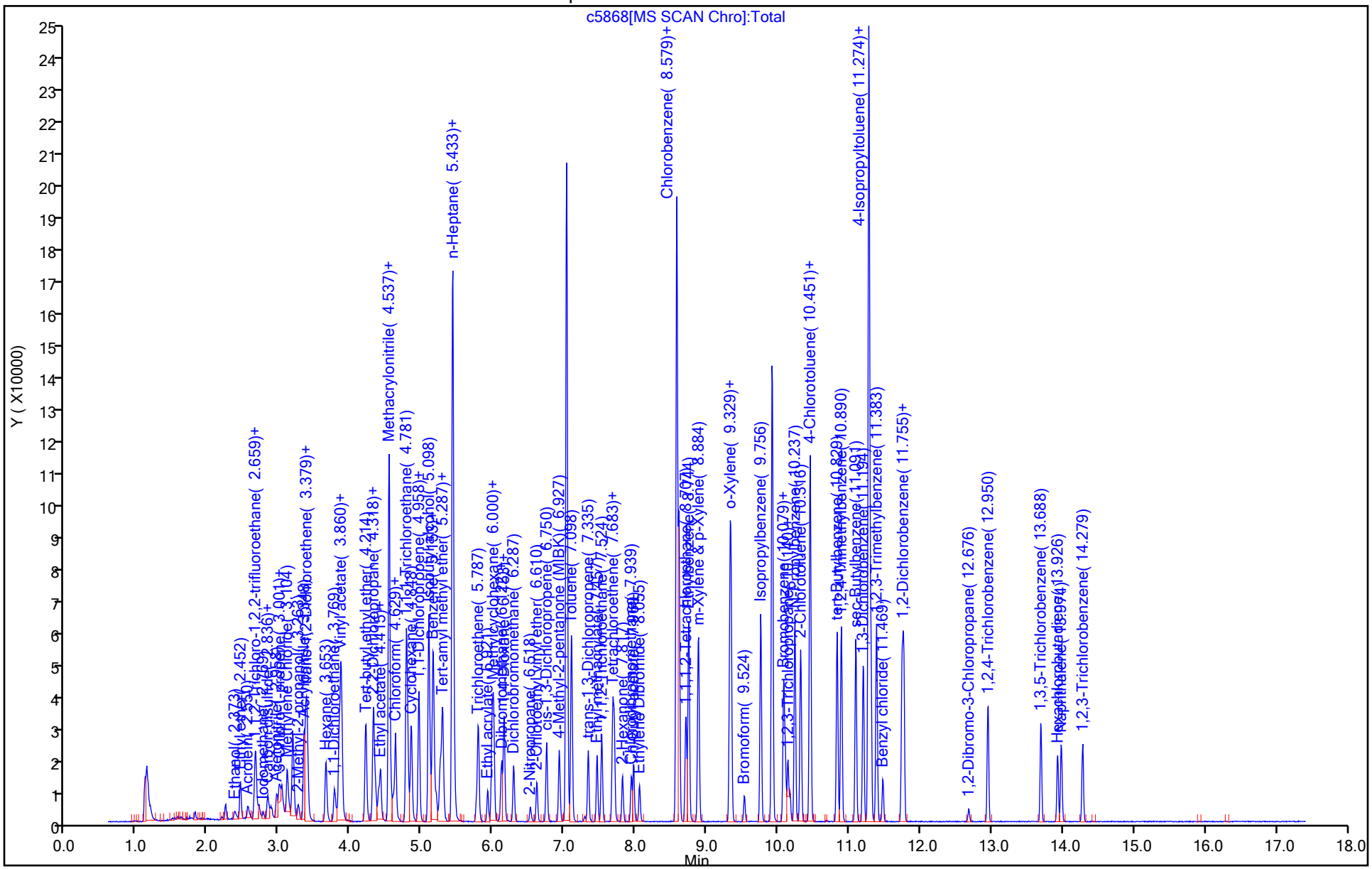
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	5.00	Units: uL

Report Date: 13-Oct-2020 18:26:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D

Injection Date:	13-Oct-2020 09:29:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std4			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

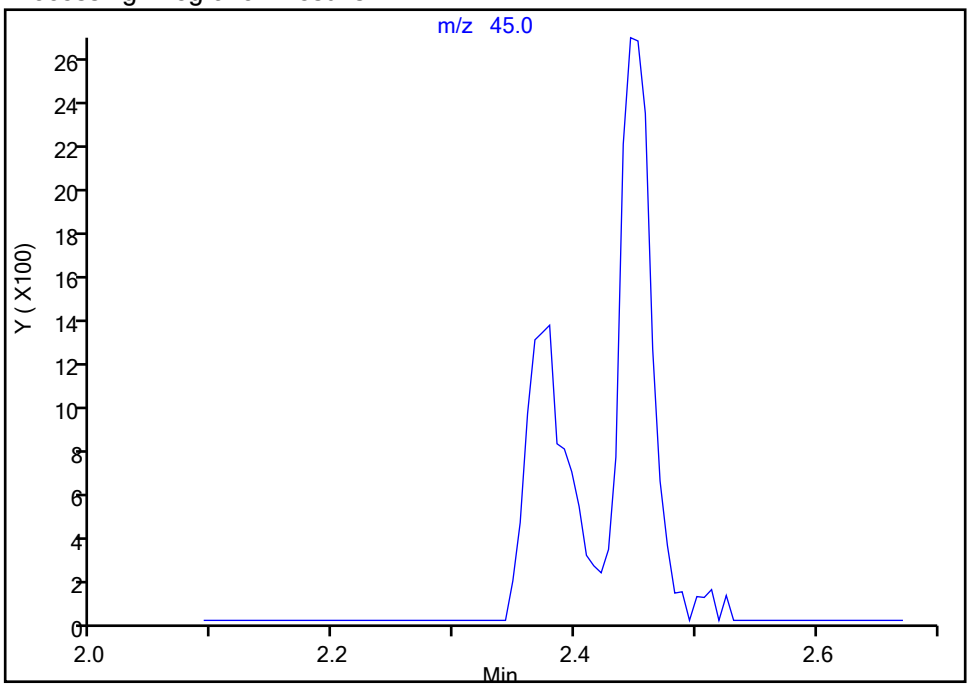
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

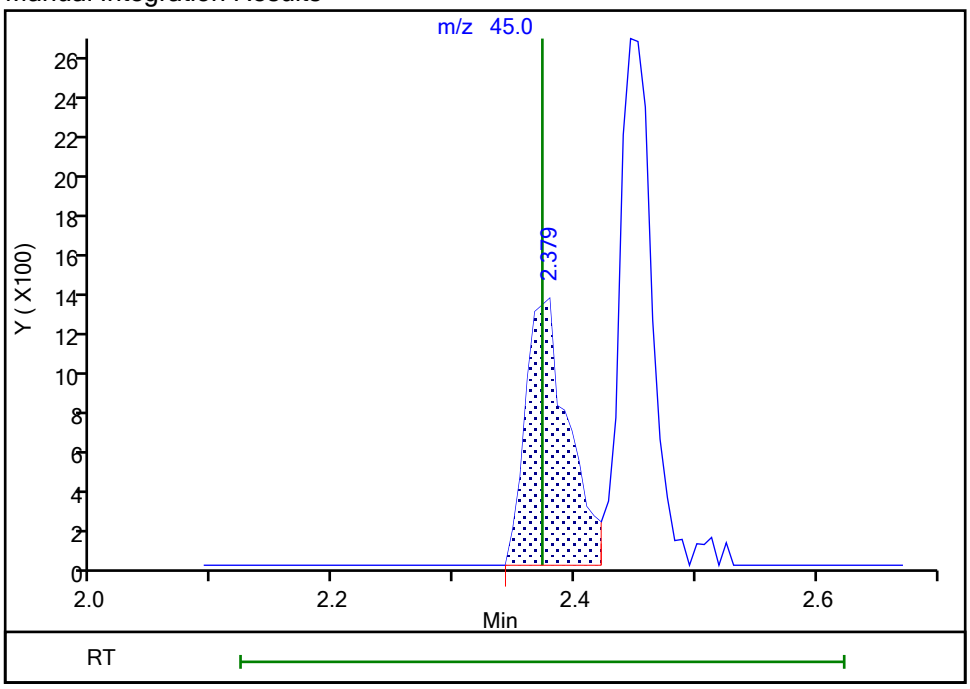
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 3326
Amount: 269.7256
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

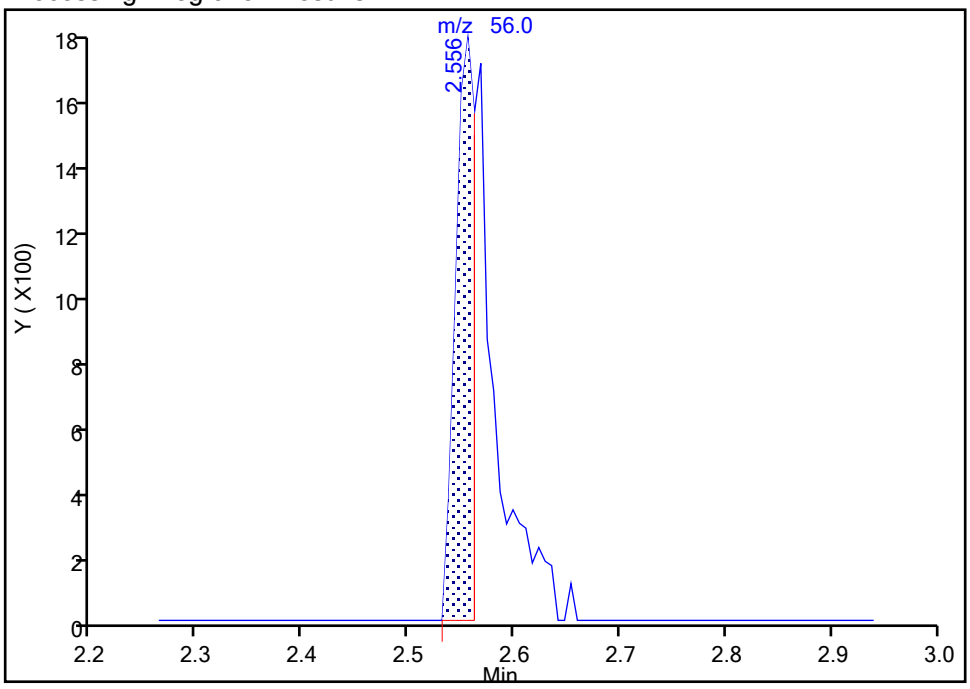
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

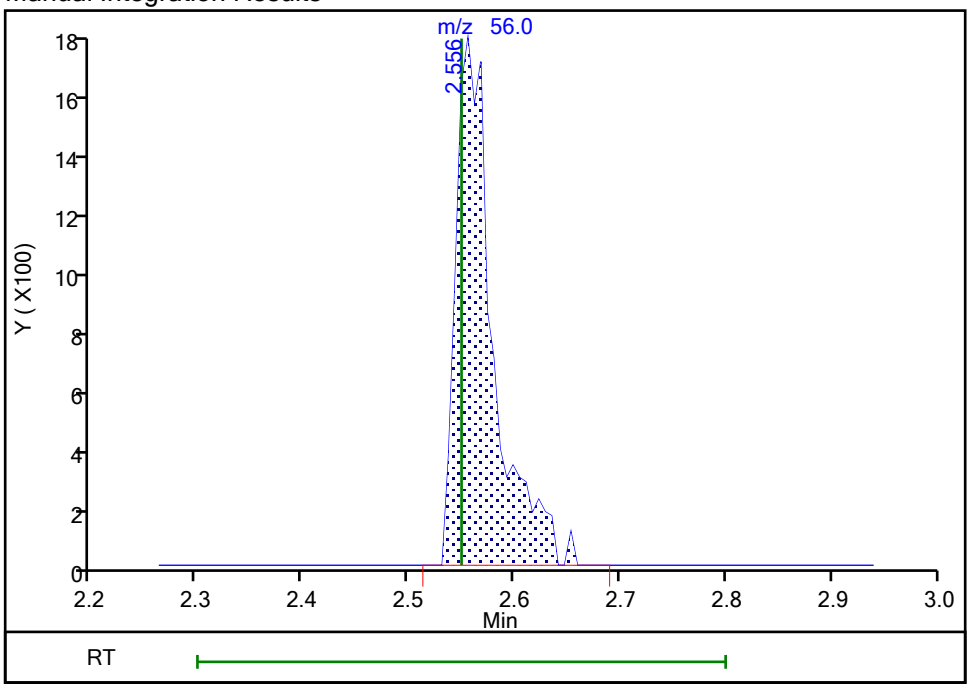
Processing Integration Results

RT: 2.56
Area: 2290
Amount: 13.963693
Amount Units: ug/l



Manual Integration Results

RT: 2.56
Area: 4378
Amount: 24.008025
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

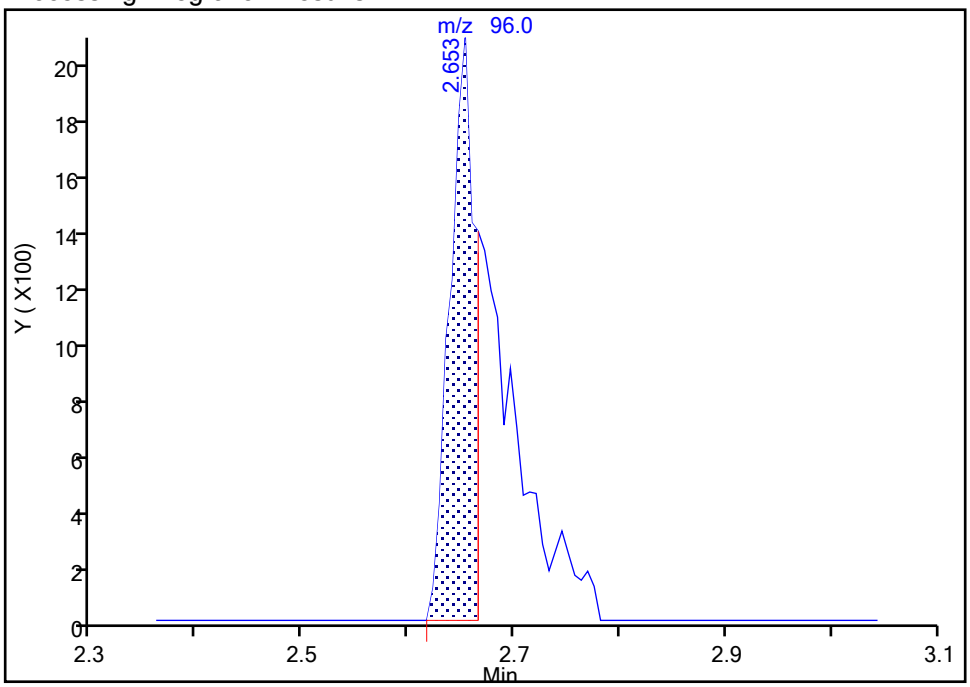
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

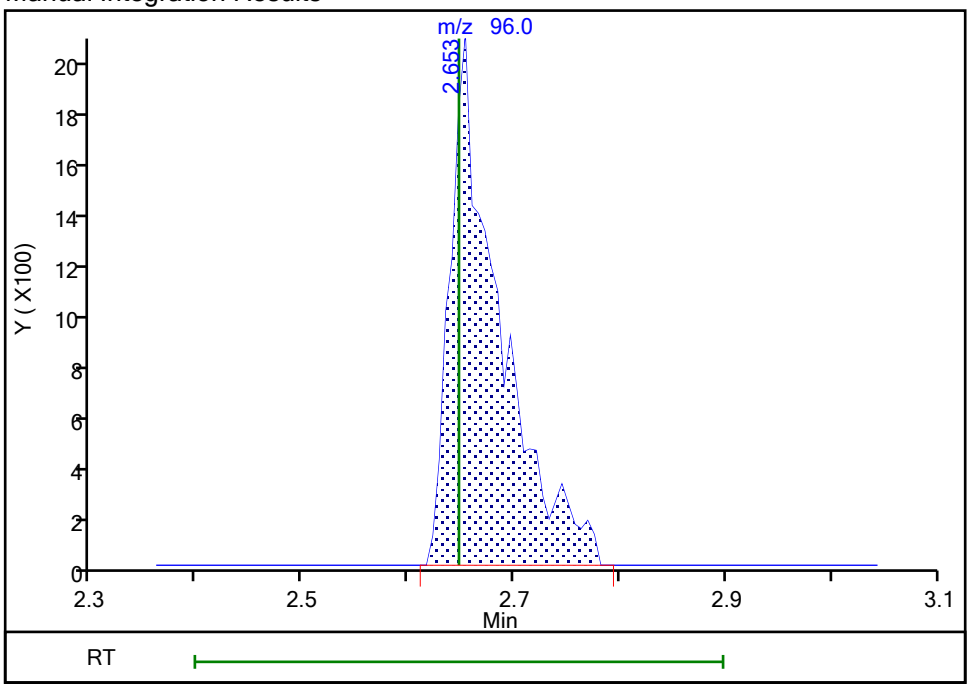
Processing Integration Results

RT: 2.65
Area: 3324
Amount: 2.592468
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 6520
Amount: 4.470025
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:24
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

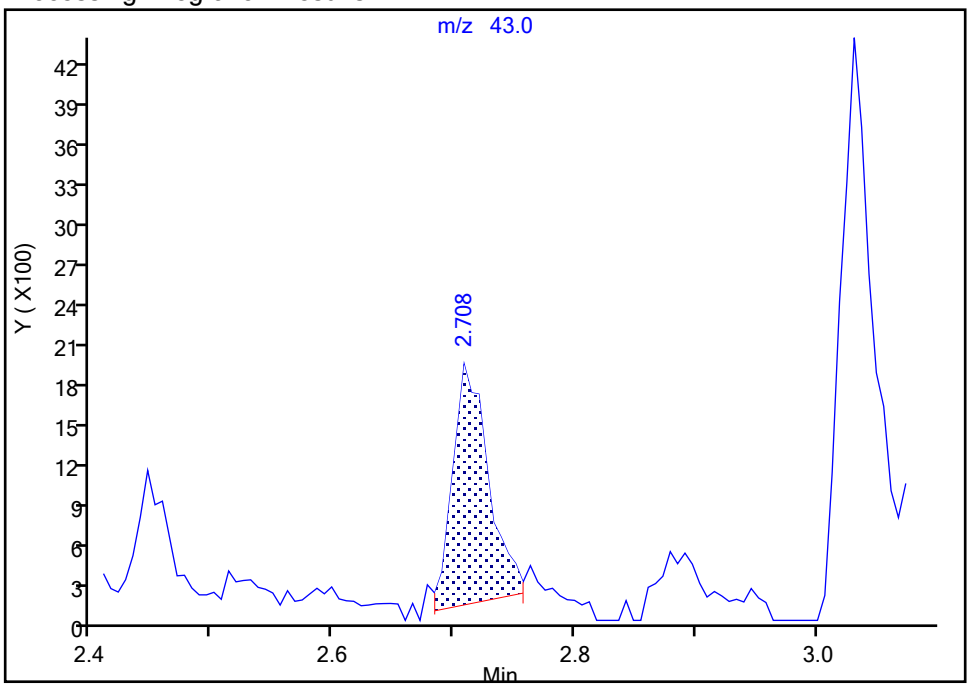
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

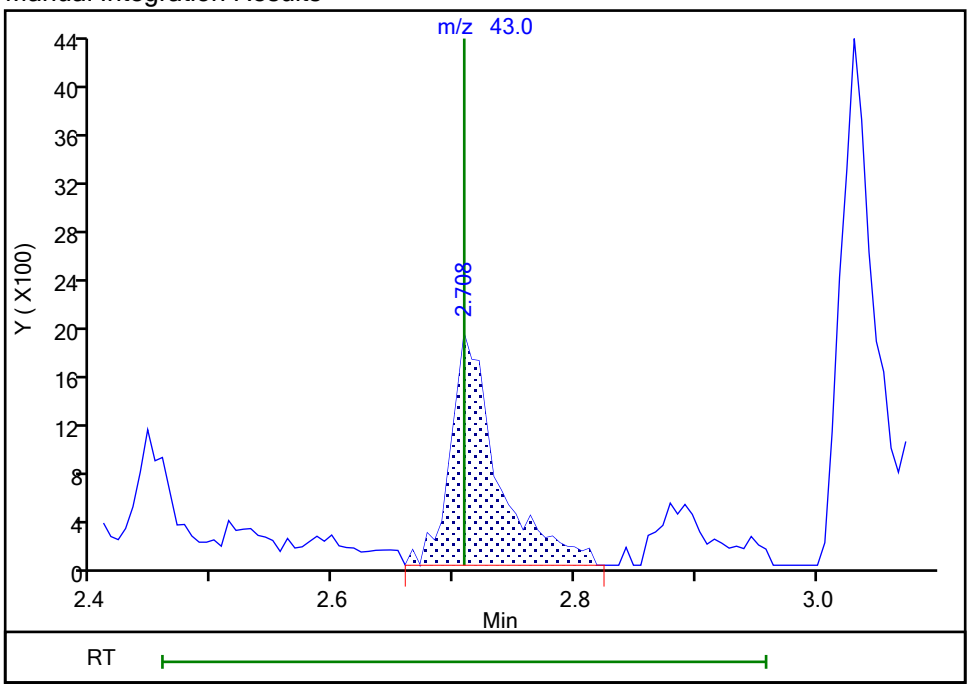
Processing Integration Results

RT: 2.71
Area: 3691
Amount: 8.724066
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 5179
Amount: 11.026589
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

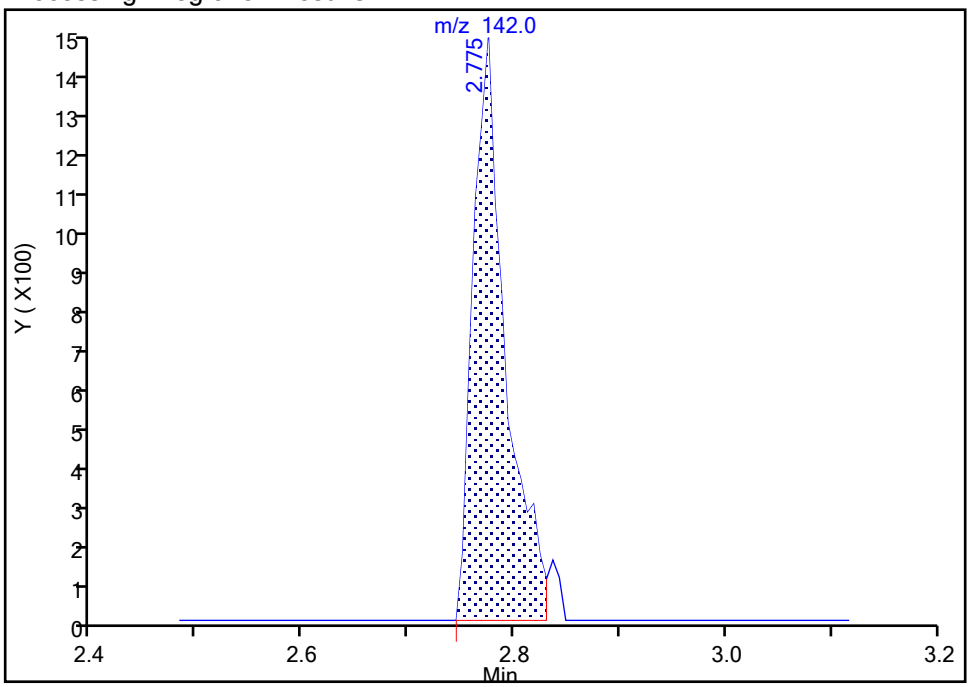
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

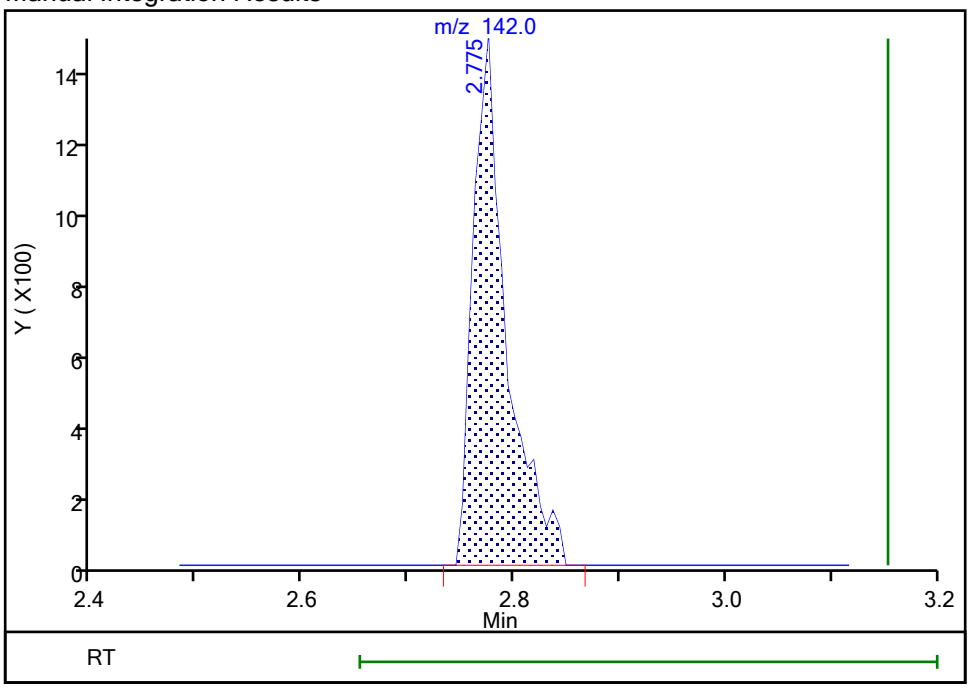
Processing Integration Results

RT: 2.78
Area: 3079
Amount: 2.716709
Amount Units: ug/l



Manual Integration Results

RT: 2.78
Area: 3172
Amount: 2.377349
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

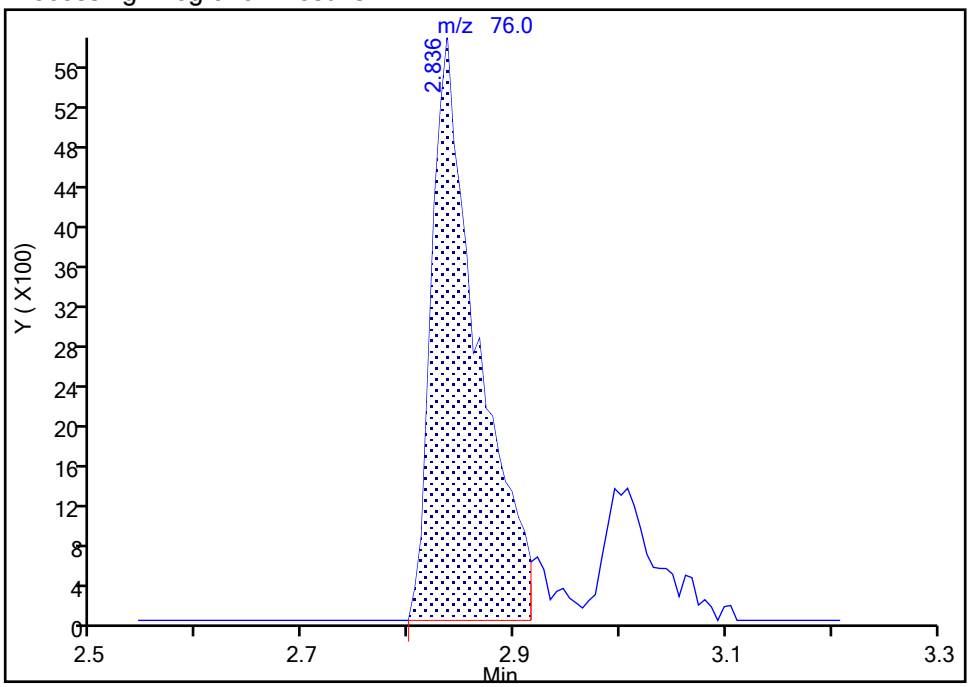
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

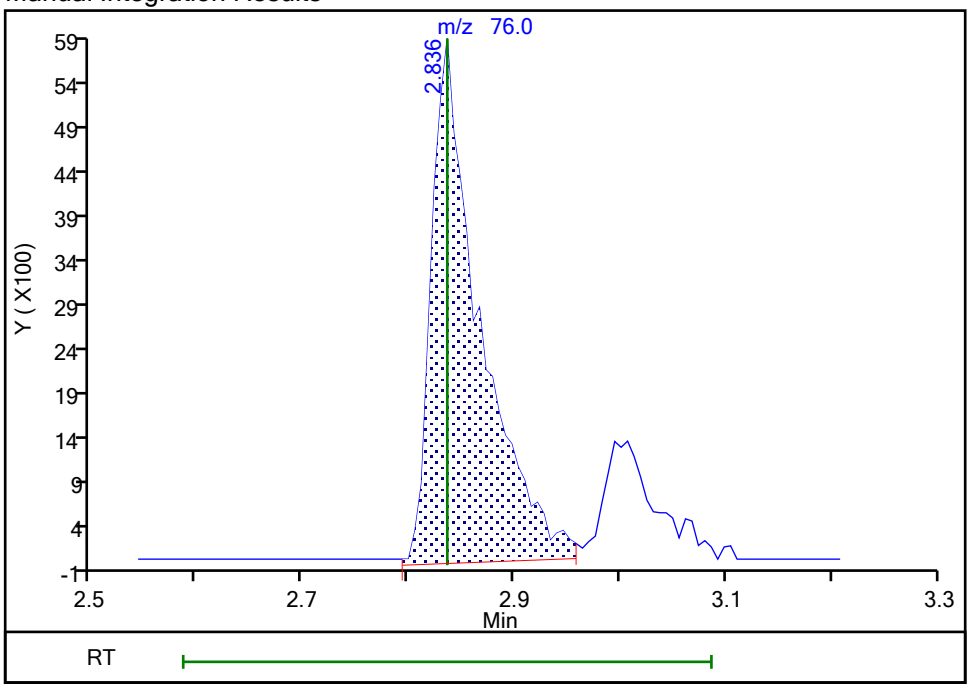
Processing Integration Results

RT: 2.84
Area: 17723
Amount: 4.123077
Amount Units: ug/l



Manual Integration Results

RT: 2.84
Area: 18910
Amount: 4.379066
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

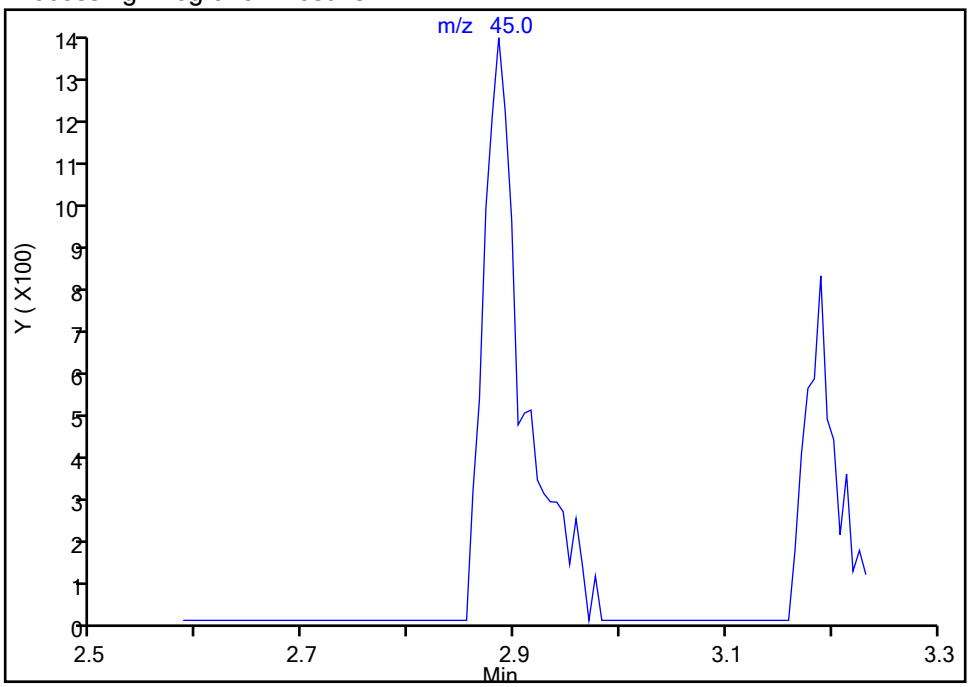
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

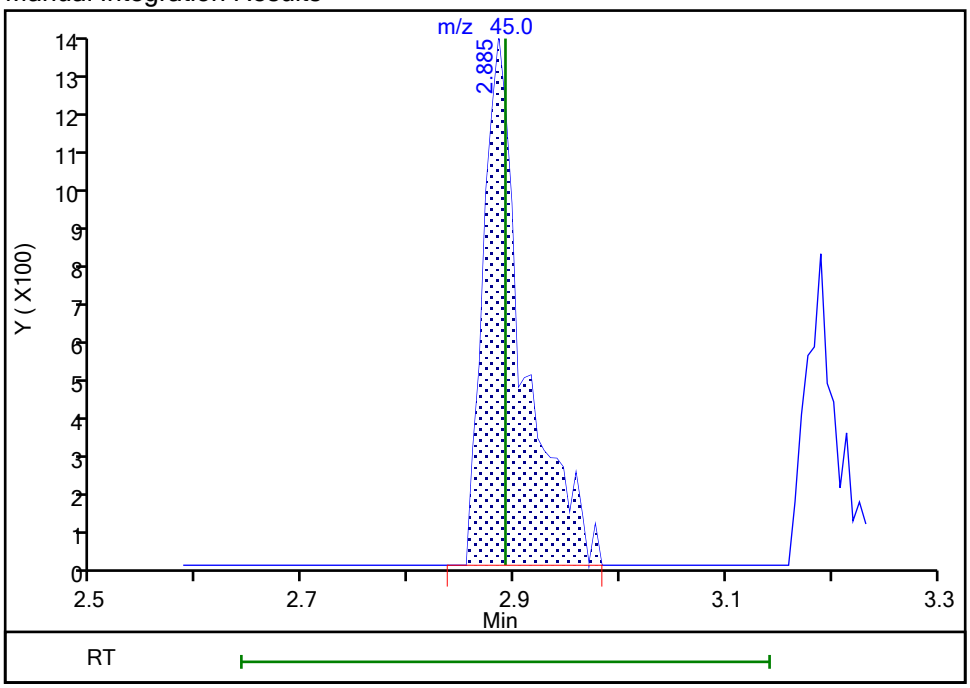
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 3572
Amount: 53.460333
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

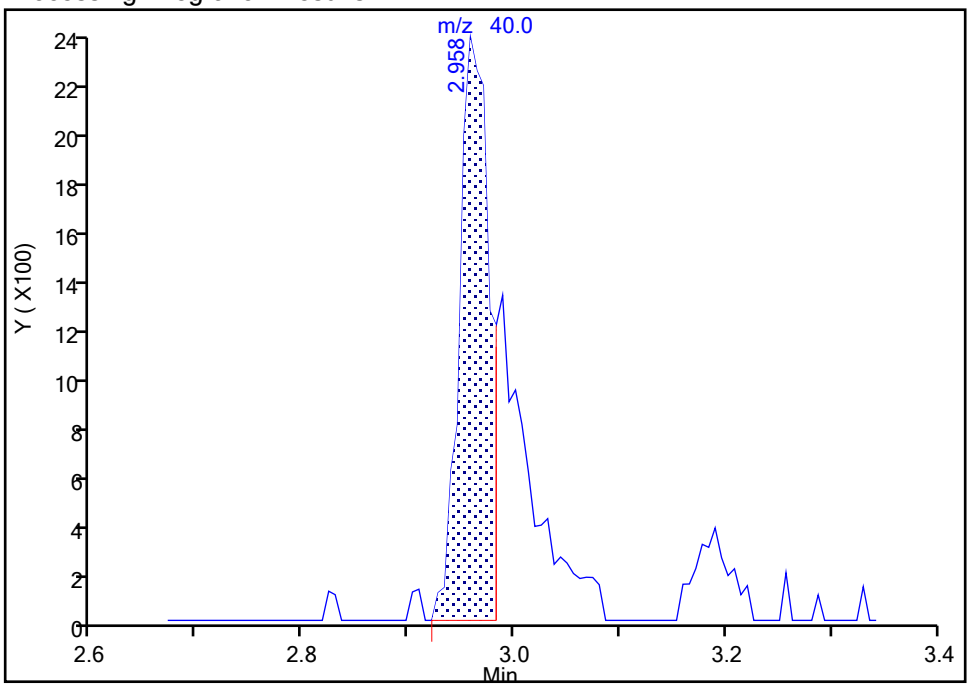
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

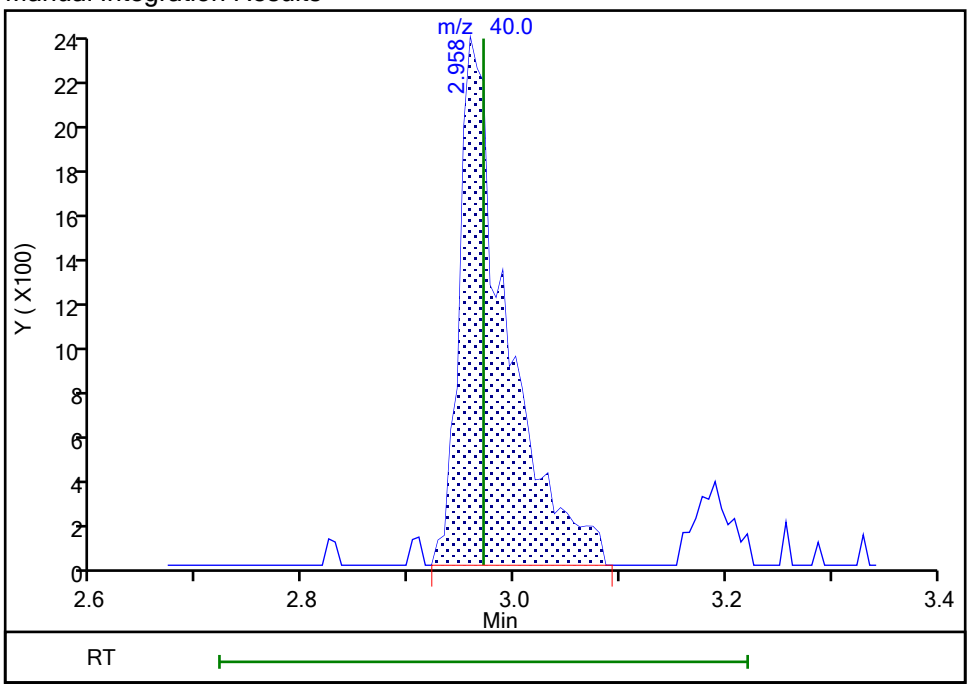
Processing Integration Results

RT: 2.96
Area: 4643
Amount: 33.919877
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 7279
Amount: 53.144869
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:53:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

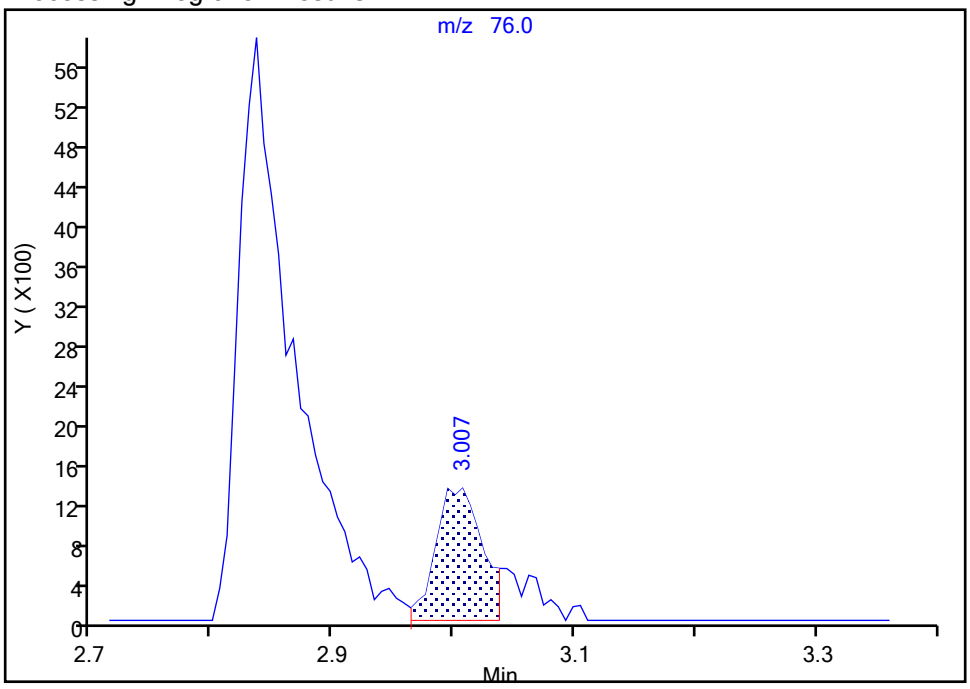
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

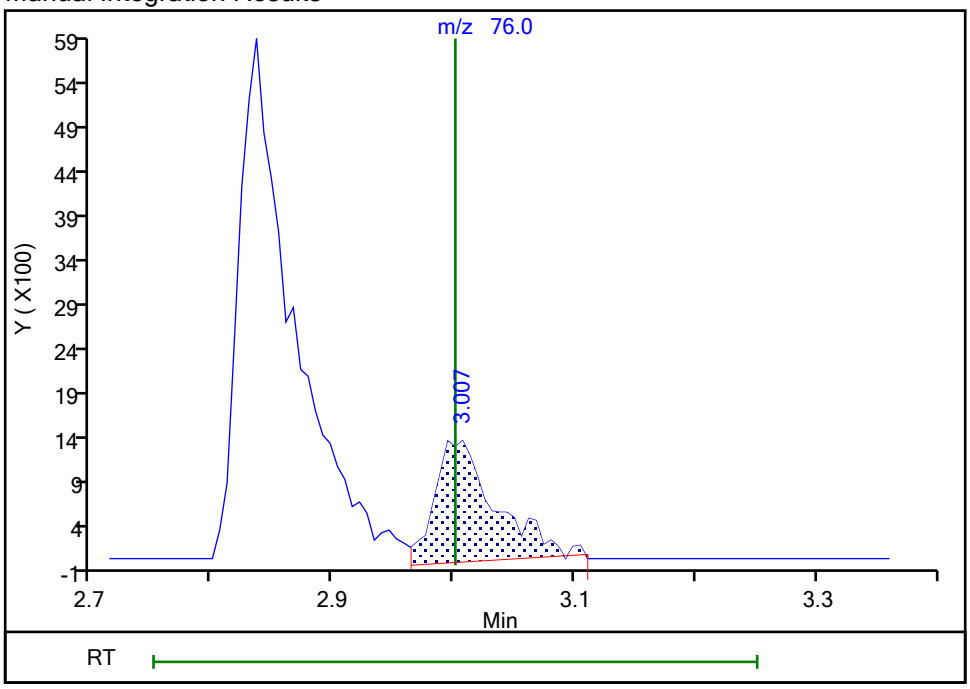
Processing Integration Results

RT: 3.01
Area: 3642
Amount: 4.060683
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 4829
Amount: 5.123861
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:10
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

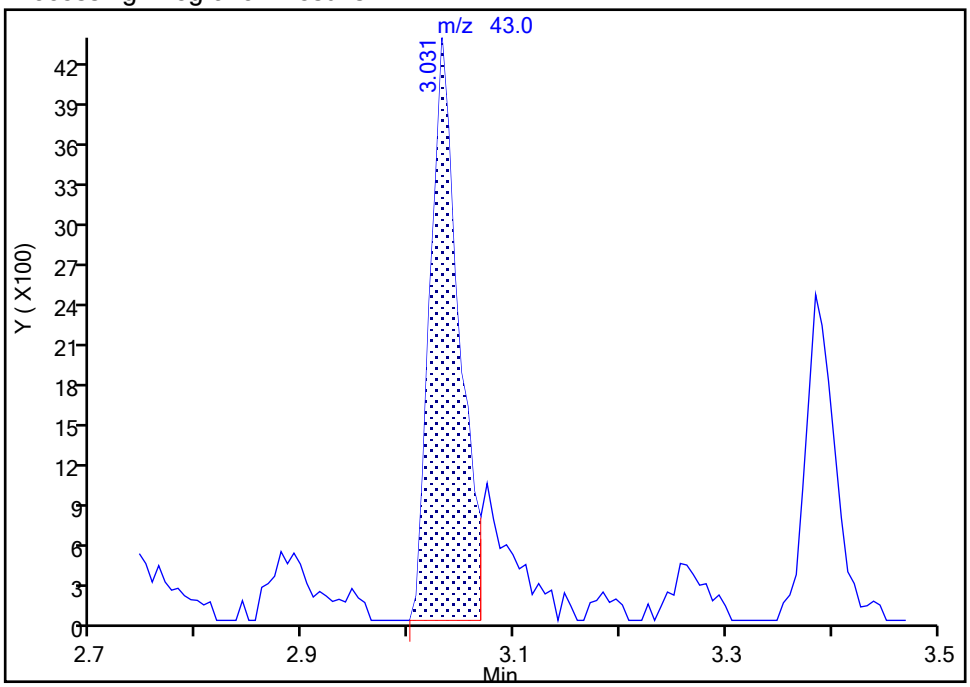
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

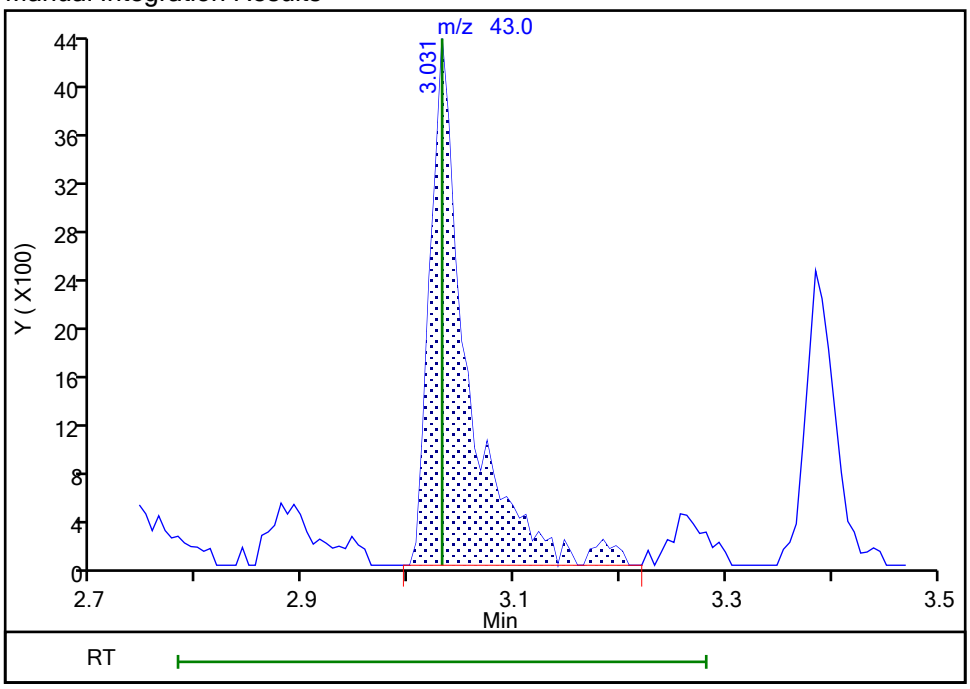
Processing Integration Results

RT: 3.03
Area: 8303
Amount: 8.452269
Amount Units: ug/l



Manual Integration Results

RT: 3.03
Area: 10592
Amount: 10.577036
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

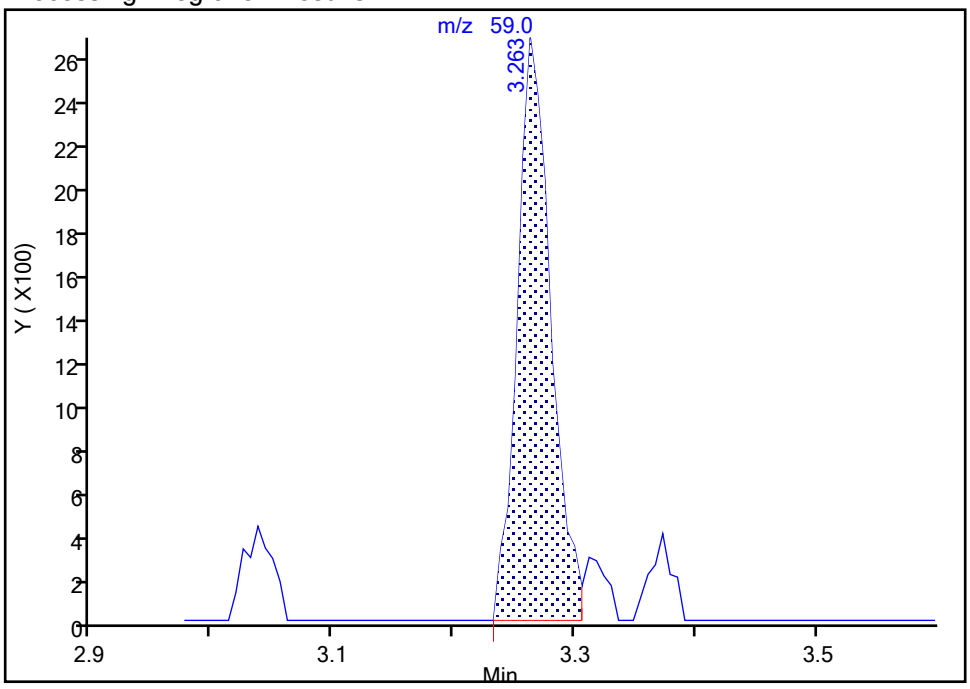
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

35 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

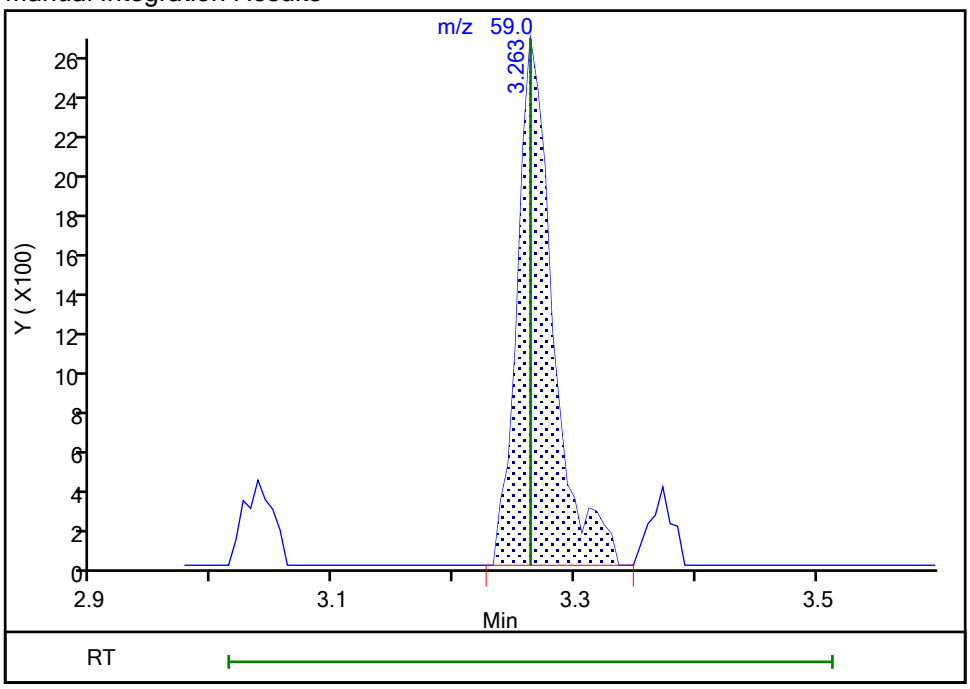
Processing Integration Results

RT: 3.26
Area: 5085
Amount: 55.552378
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 5421
Amount: 57.326779
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

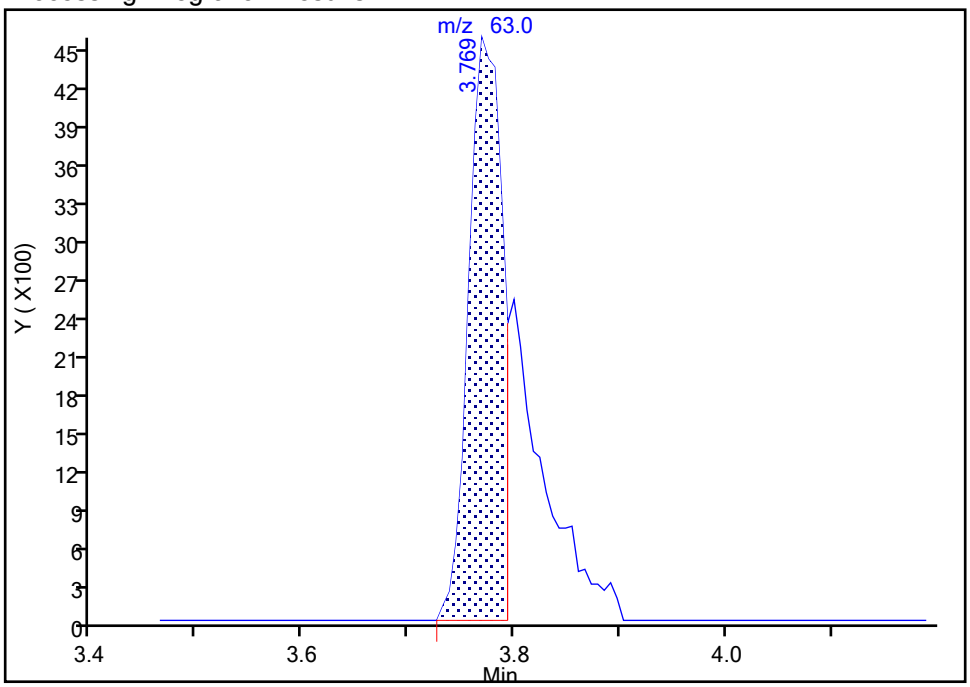
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

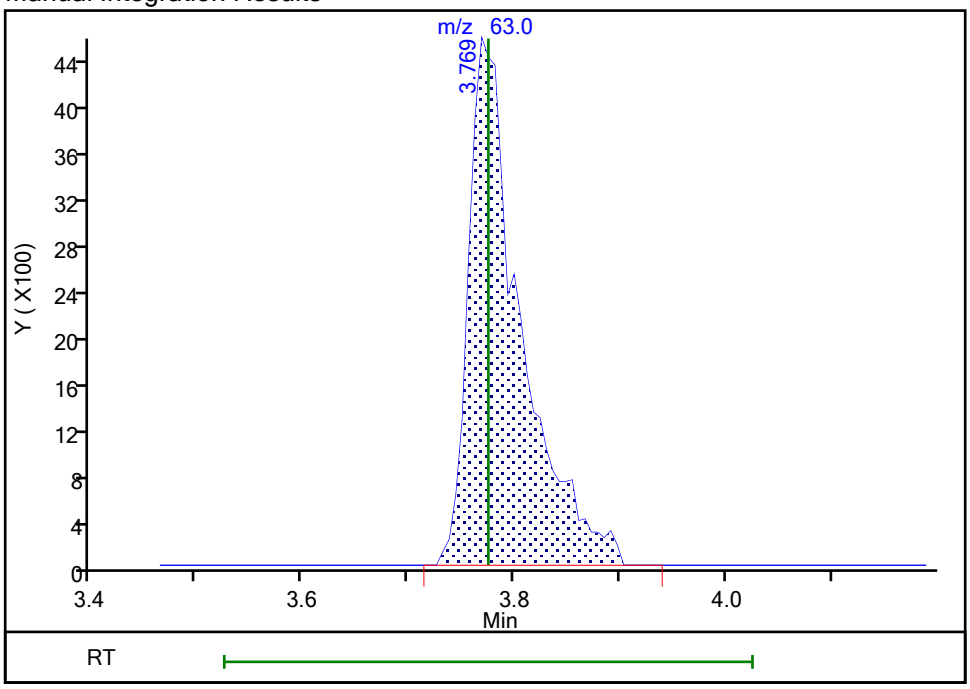
Processing Integration Results

RT: 3.77
Area: 10243
Amount: 3.381827
Amount Units: ug/l



Manual Integration Results

RT: 3.77
Area: 15757
Amount: 5.049129
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:31
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

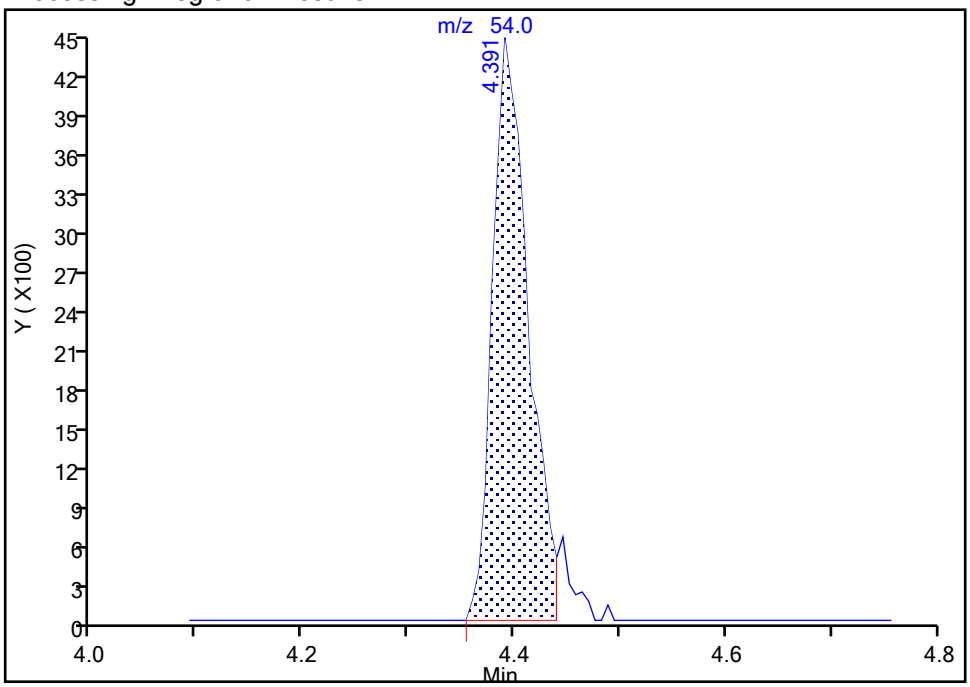
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

41 Propionitrile, CAS: 107-12-0

Signal: 1

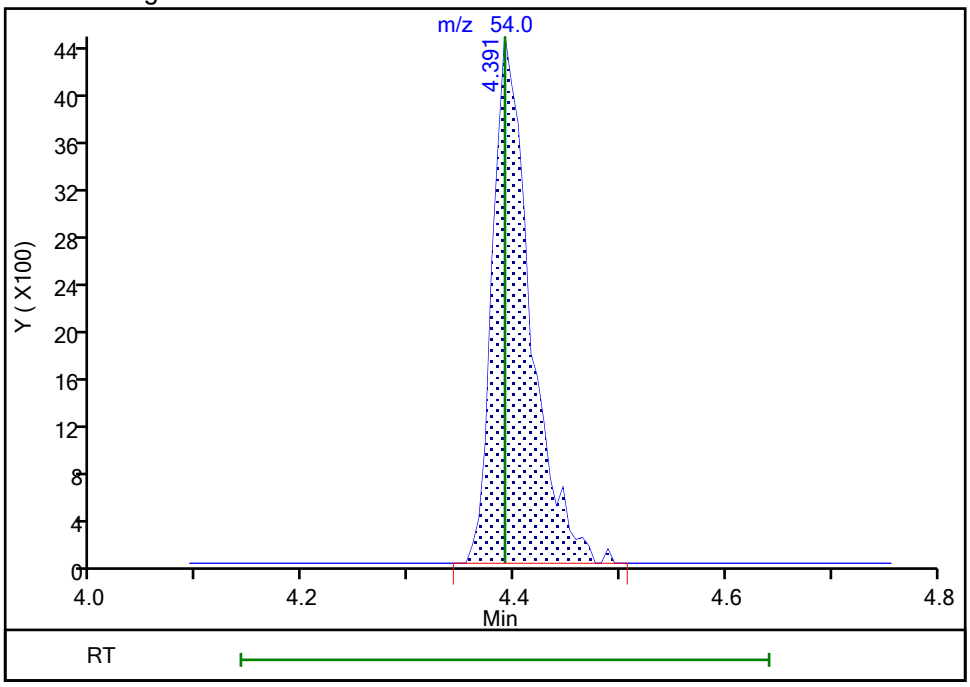
Processing Integration Results

RT: 4.39
Area: 10491
Amount: 53.639209
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 11076
Amount: 54.393097
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

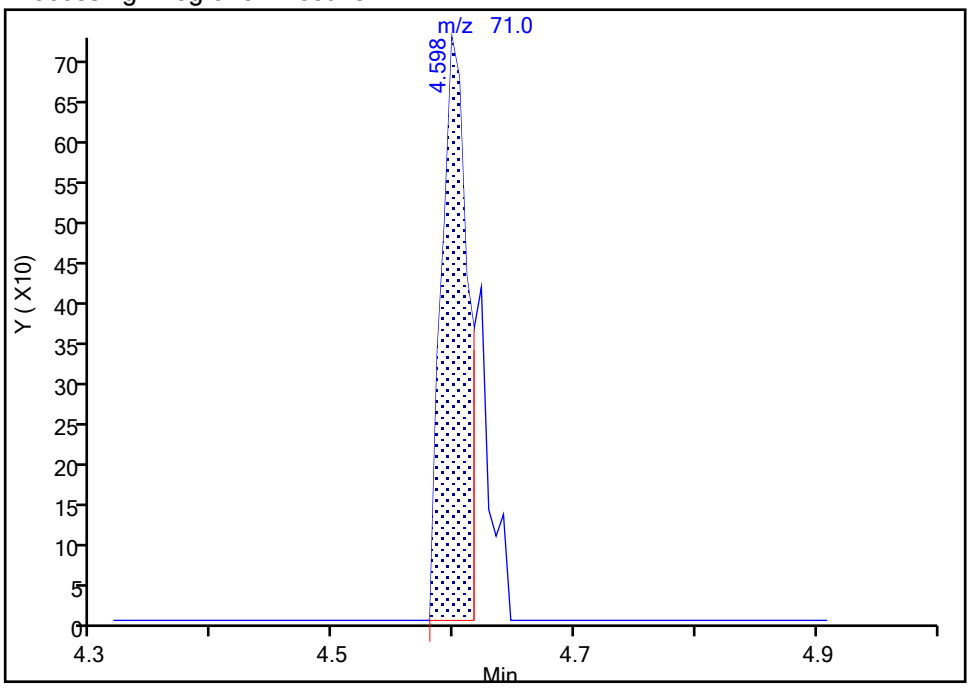
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

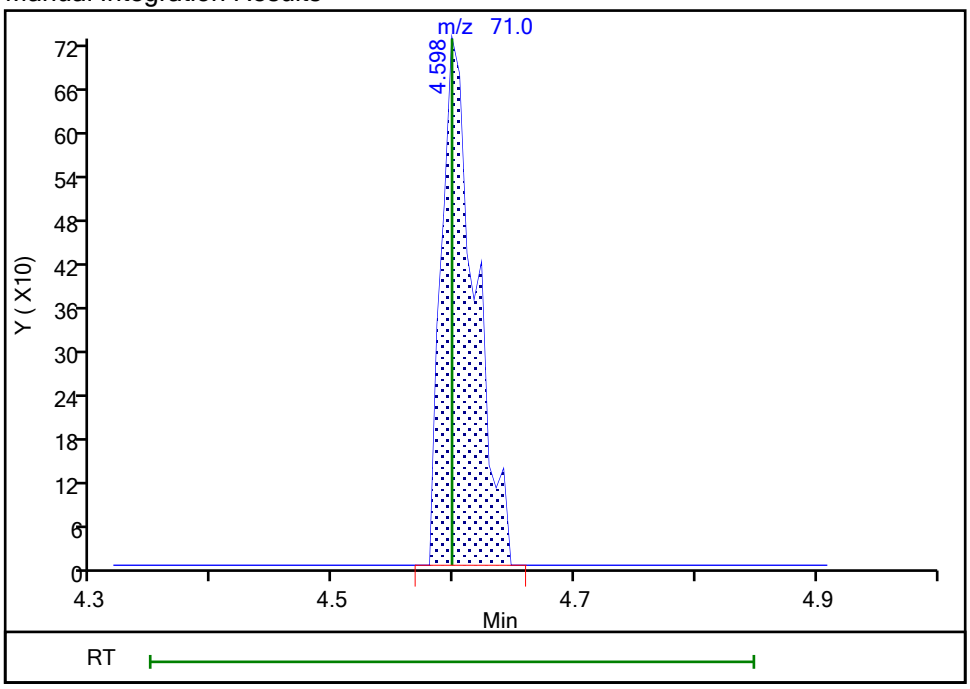
Processing Integration Results

RT: 4.60
Area: 1106
Amount: 8.541462
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 1396
Amount: 9.876865
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

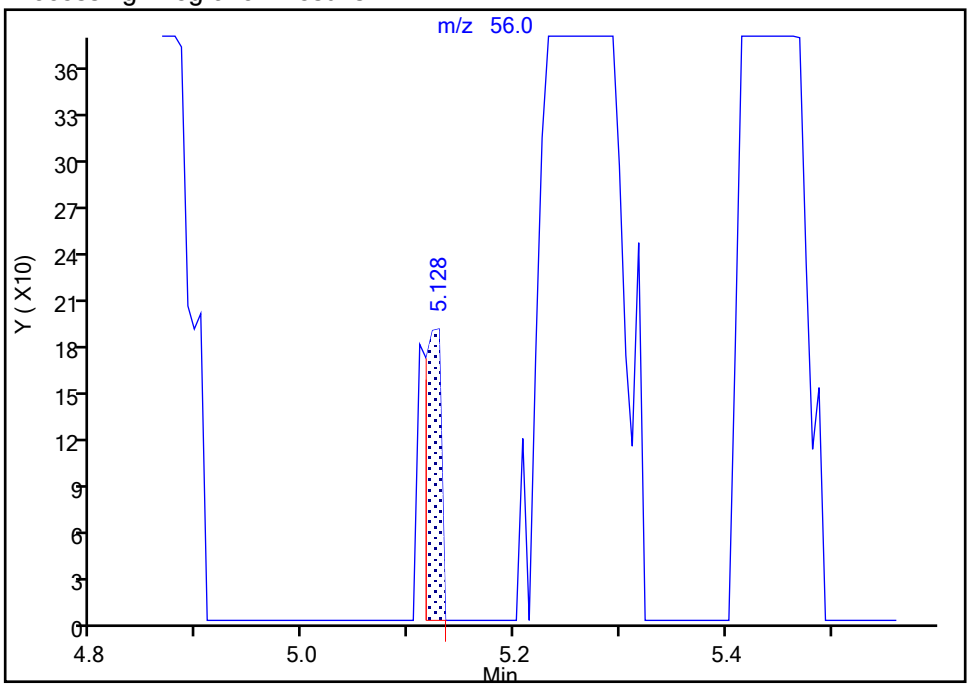
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

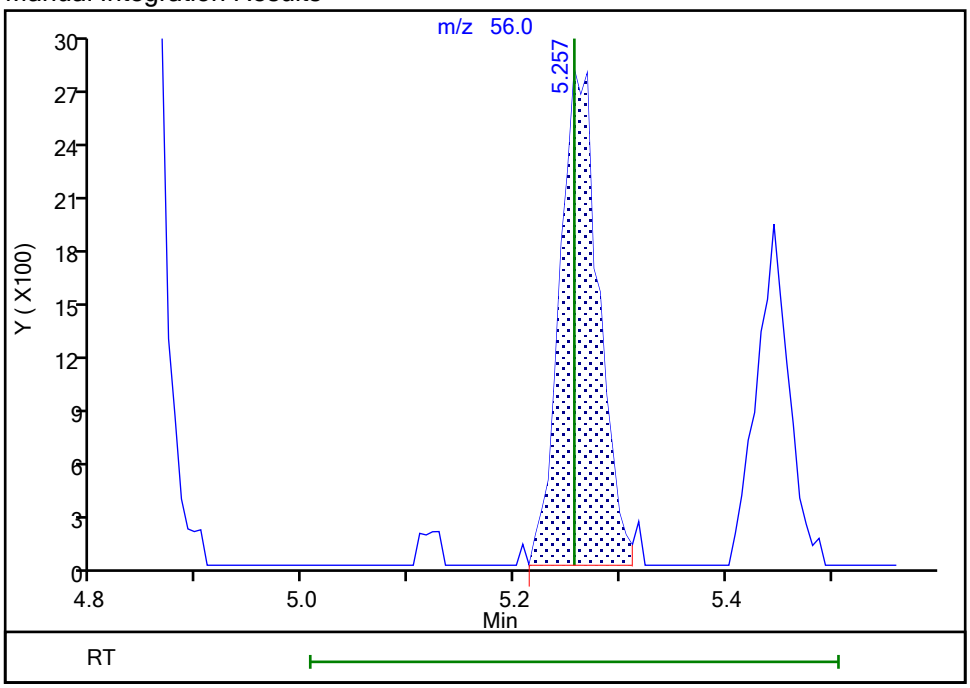
Processing Integration Results

RT: 5.13
Area: 200
Amount: 3.004184
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 7175
Amount: 100.7388
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:54:56
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

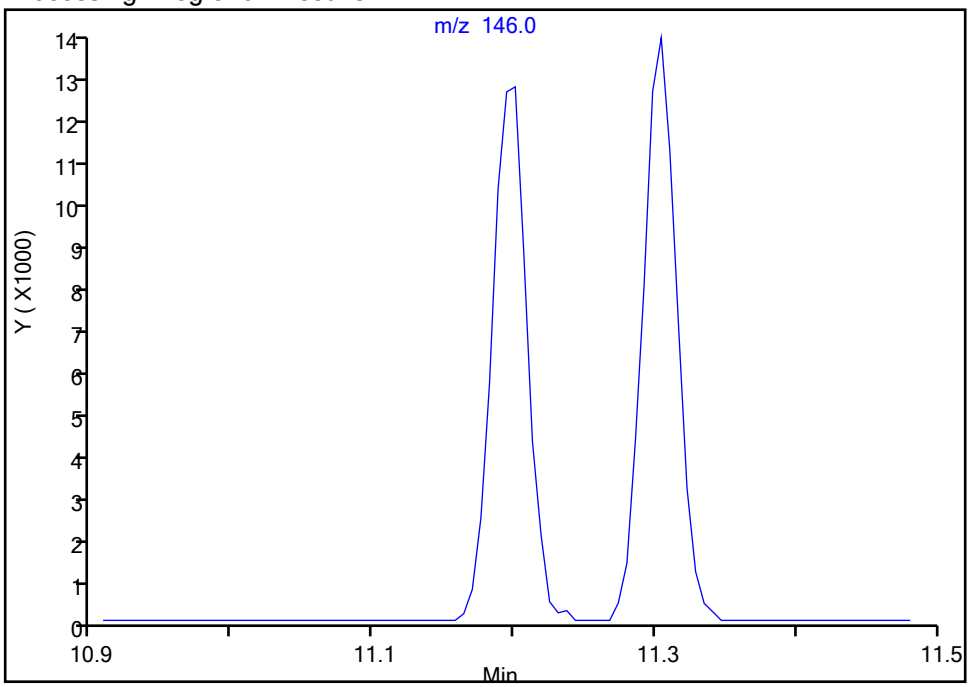
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D				
Injection Date:	13-Oct-2020 09:29:30	Instrument ID:	Calvin		
Lims ID:	std4				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	8	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

90 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

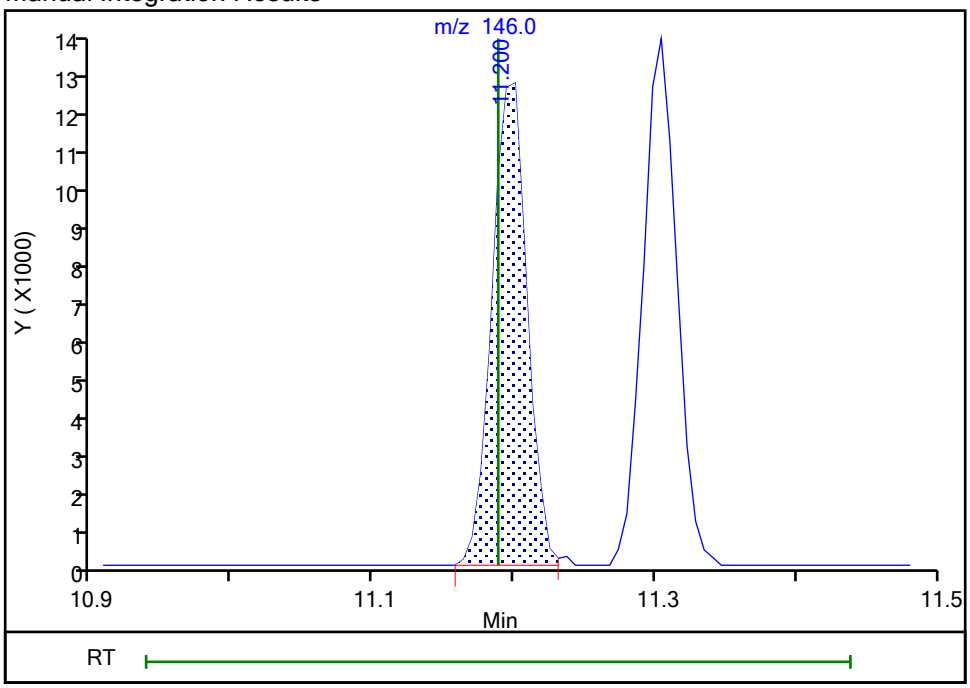
Not Detected
Expected RT: 11.19

Processing Integration Results



Manual Integration Results

RT: 11.20
Area: 21308
Amount: 5.491955
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:55:14
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

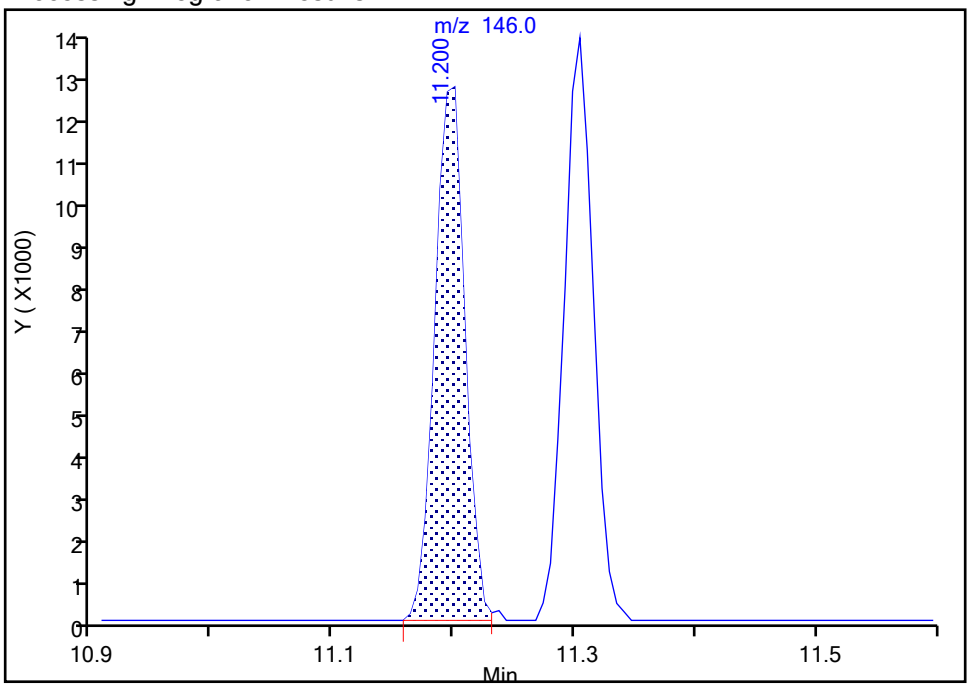
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5868.D
Injection Date: 13-Oct-2020 09:29:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

92 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

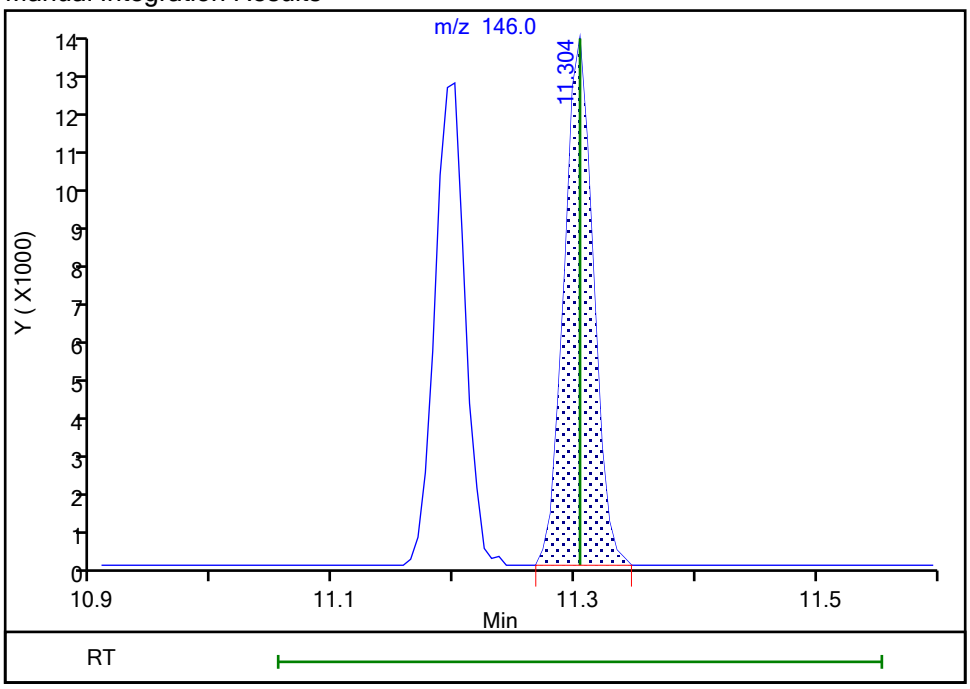
Processing Integration Results

RT: 11.20
Area: 21308
Amount: 5.386536
Amount Units: ug/l



Manual Integration Results

RT: 11.30
Area: 22552
Amount: 5.671287
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:55:22
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Oct-2020 09:53:30 ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:38 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 14:41:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	144148	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	93	4835	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	86	106842	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	88	50814	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	8139	400.0	649.3	a
18 Ethyl ether	59	2.452	2.452	0.000	92	13878	10.0	11.4	
19 Acrolein	56	2.556	2.550	0.006	99	10425	47.6	56.2	
20 1,1-Dichloroethene	96	2.653	2.647	0.006	93	15058	10.0	10.2	
21 112TCTFE	101	2.666	2.666	0.000	92	16888	10.0	11.5	
22 Acetone	43	2.708	2.708	0.000	97	10707	20.0	25.9	M
24 Carbon disulfide	76	2.836	2.836	0.000	100	44513	10.0	10.1	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	95	9087	100.0	133.8	
118 Acetonitrile	40	2.958	2.971	-0.013	100	16111	100.0	115.7	
25 3-Chloro-1-propene	76	3.007	3.001	0.006	75	8750	10.0	9.13	M
26 Methyl acetate	43	3.031	3.031	0.000	97	21205	20.0	20.8	M
27 Methylene Chloride	84	3.111	3.105	0.006	94	18831	10.0	10.7	
23 Iodomethane	142	2.775	3.153	-0.378	99	10561	10.0	7.79	
35 2-Methyl-2-propanol	59	3.269	3.263	0.006	95	12445	100.0	129.5	
30 Acrylonitrile	53	3.342	3.342	0.000	99	61893	100.0	118.9	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	18453	10.0	10.9	
29 Methyl tert-butyl ether	73	3.391	3.391	0.000	98	43605	10.0	11.1	
31 Hexane	57	3.653	3.641	0.012	94	25358	10.0	11.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	96	33570	10.0	10.6	M
33 Vinyl acetate	86	3.836	3.842	-0.006	97	6923	20.0	22.0	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	31634	10.0	10.3	
36 Isopropyl ether	87	3.867	3.867	0.000	92	18147	10.0	11.7	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	55757	10.0	11.2	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	87	21569	10.0	11.1	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	25347	10.0	10.1	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	14915	20.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	99	26561	100.0	128.3	
104 Ethyl acetate	61	4.415	4.415	0.000	99	5113	20.0	21.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	74057	100.0	120.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	96	9461	10.0	11.7	
44 Tetrahydrofuran	71	4.604	4.598	0.006	93	3494	20.0	24.3	
45 Chloroform	83	4.629	4.635	-0.006	95	34663	10.0	10.4	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	99	28987	10.0	10.7	
47 Cyclohexane	56	4.848	4.848	0.000	92	35003	10.0	10.8	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	83	23843	10.0	10.1	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	27371	10.0	10.8	
108 Isobutyl alcohol	43	5.116	5.117	0.000	91	16344	250.0	318.3	
50 Benzene	78	5.153	5.153	0.000	96	82804	10.0	11.1	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	27388	10.0	11.6	
116 n-Butanol	56	5.263	5.257	0.006	45	20725	250.0	286.2	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	95	51294	10.0	11.5	
53 n-Heptane	43	5.446	5.446	0.000	92	25241	10.0	10.9	
54 Trichloroethene	95	5.793	5.793	0.000	95	21376	10.0	11.2	
117 Ethyl acrylate	55	5.921	5.927	-0.006	99	22470	10.0	12.5	
114 Methylcyclohexane	83	5.982	5.988	-0.006	91	35629	10.0	11.4	
55 1,2-Dichloropropane	63	6.007	6.006	0.000	92	20545	10.0	11.3	
56 Dibromomethane	93	6.122	6.122	0.000	95	11516	10.0	11.9	
57 Methyl methacrylate	69	6.153	6.153	0.000	91	25644	20.0	24.8	
115 1,4-Dioxane	58	6.153	6.159	-0.006	34	3320	200.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	24223	10.0	11.0	
106 2-Nitropropane	43	6.525	6.519	0.006	98	6934	20.0	21.7	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	94	11751	10.0	11.6	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	30524	10.0	11.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	37062	20.0	26.7	
62 Toluene	92	7.098	7.098	0.000	98	59158	10.0	11.7	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	27921	10.0	11.2	
64 Ethyl methacrylate	69	7.457	7.458	-0.001	90	24877	10.0	12.6	
65 1,1,2-Trichloroethane	83	7.524	7.531	-0.007	92	15716	10.0	13.0	
66 Tetrachloroethene	166	7.677	7.677	0.000	94	23418	10.0	11.2	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	93	32211	10.0	12.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	24213	20.0	26.7	
69 Chlorodibromomethane	129	7.939	7.939	0.000	92	18543	10.0	11.5	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	30650	10.0	12.9	
70 Ethylene Dibromide	107	8.055	8.049	0.006	99	18430	10.0	12.4	
71 Chlorobenzene	112	8.610	8.610	0.000	93	68339	10.0	12.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	93	22255	10.0	12.8	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	45812	10.0	12.5	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	114457	10.0	12.2	a
75 o-Xylene	106	9.323	9.317	0.006	97	44010	10.0	12.7	
76 Styrene	104	9.341	9.341	0.000	96	74982	10.0	13.0	
77 Bromoform	173	9.530	9.530	0.000	95	10424	10.0	11.2	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	111982	10.0	12.4	
79 Bromobenzene	156	10.079	10.085	-0.006	94	28261	10.0	12.9	
80 1,1,2,2-Tetrachloroethane	83	10.097	10.097	0.000	95	23528	10.0	14.0	
81 1,2,3-Trichloropropane	110	10.140	10.146	-0.006	87	7718	10.0	13.7	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	85	5031	10.0	10.8	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	130348	10.0	12.5	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	78189	10.0	12.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.445	10.451	-0.006	99	93528	10.0	13.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	94	92826	10.0	12.9	
87 tert-Butylbenzene	119	10.829	10.829	0.000	93	79033	10.0	12.6	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	98	93347	10.0	12.6	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	111633	10.0	12.6	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.006	98	53101	10.0	13.6	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	93	95136	10.0	12.6	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	95800	10.0	13.3	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	54846	10.0	13.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	6243	10.0	9.54	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	97	51956	10.0	13.7	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	81897	10.0	12.3	
95 1,2-Dibromo-3-Chloropropane	75	12.682	12.682	0.000	83	2890	10.0	12.0	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	93	30937	10.0	13.3	
112 1,3,5-Trichlorobenzene	180	13.688	13.688	0.000	97	25150	10.0	13.0	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	11732	10.0	12.4	
98 Naphthalene	128	13.974	13.974	0.000	97	56521	10.0	13.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	20977	10.0	13.6	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		20.0	22.1	
S 102 1,3-Dichloropropene, Total	1				0		20.0	22.8	
S 100 Xylenes, Total	1				0		20.0	25.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

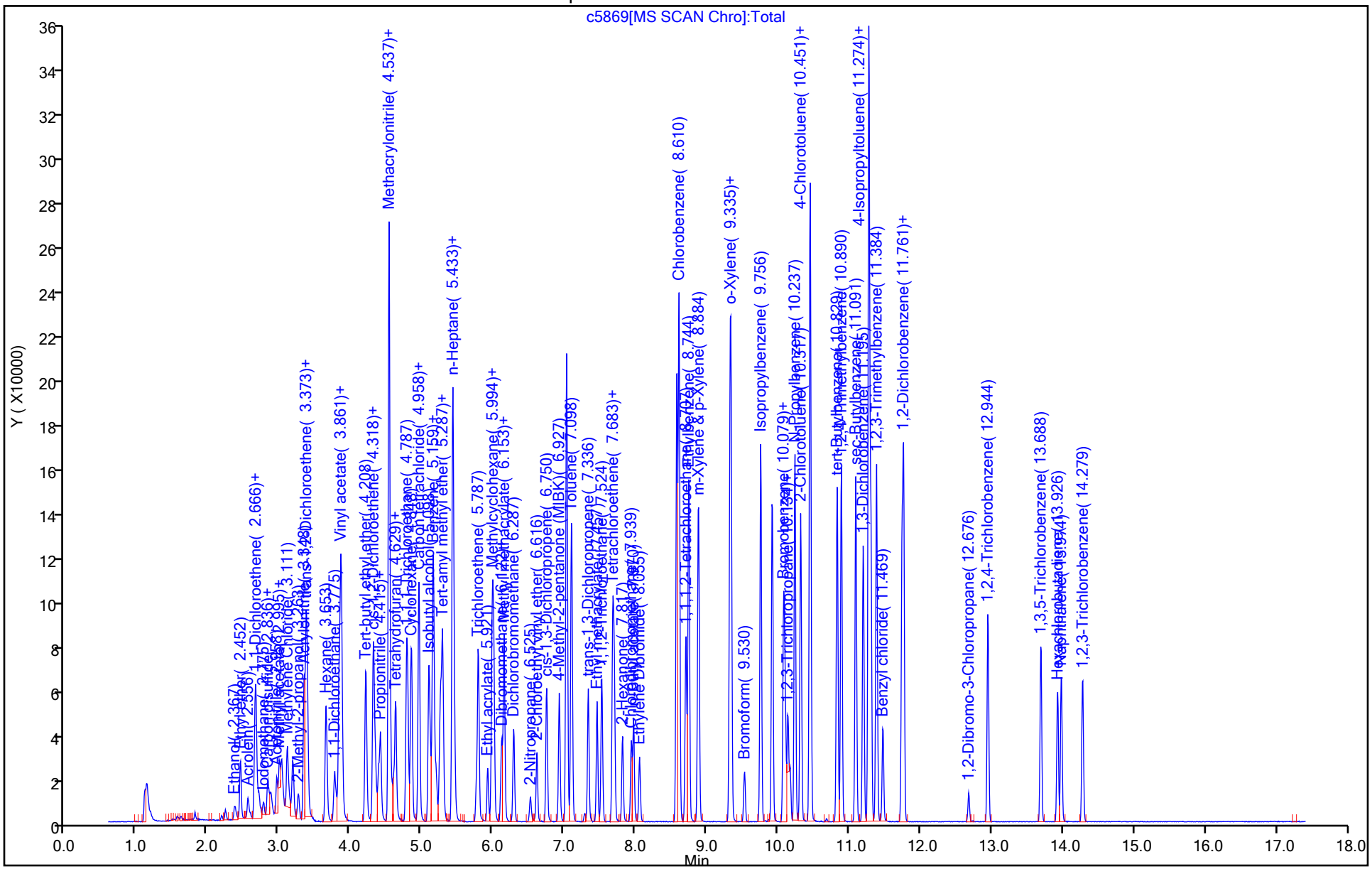
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	10.00	Units: uL

Report Date: 13-Oct-2020 18:26:40 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D

Injection Date:	13-Oct-2020 09:53:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std5			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

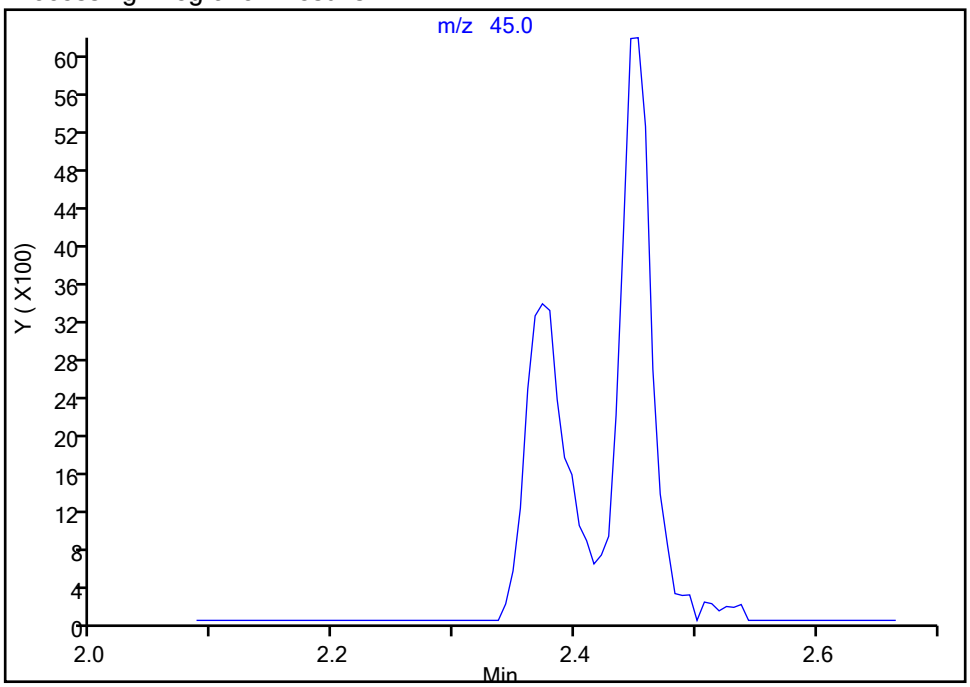
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

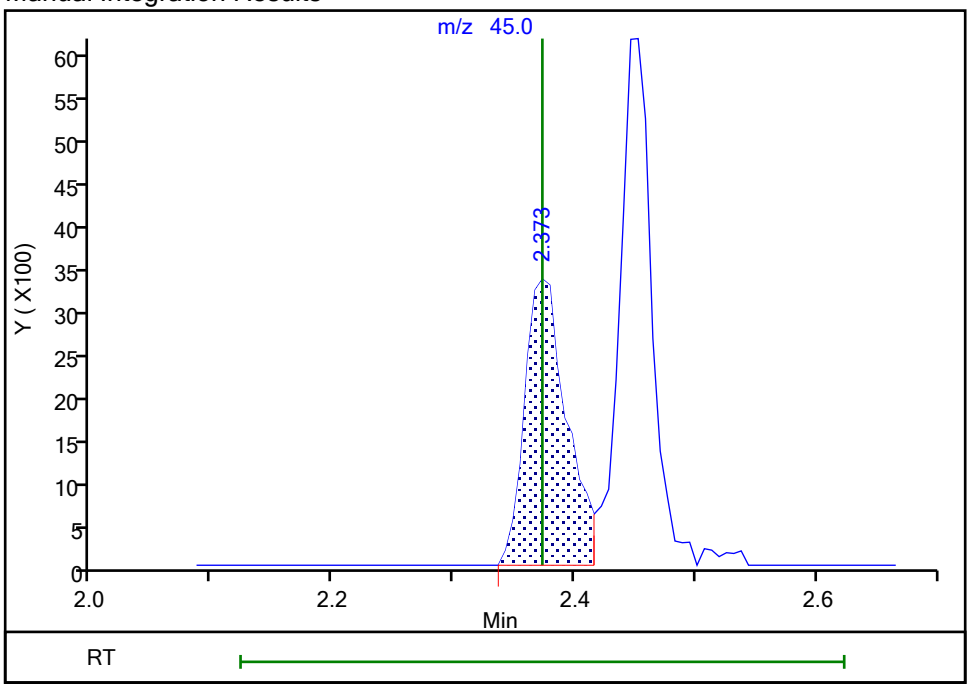
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 8139
Amount: 649.2761
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:43:58
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

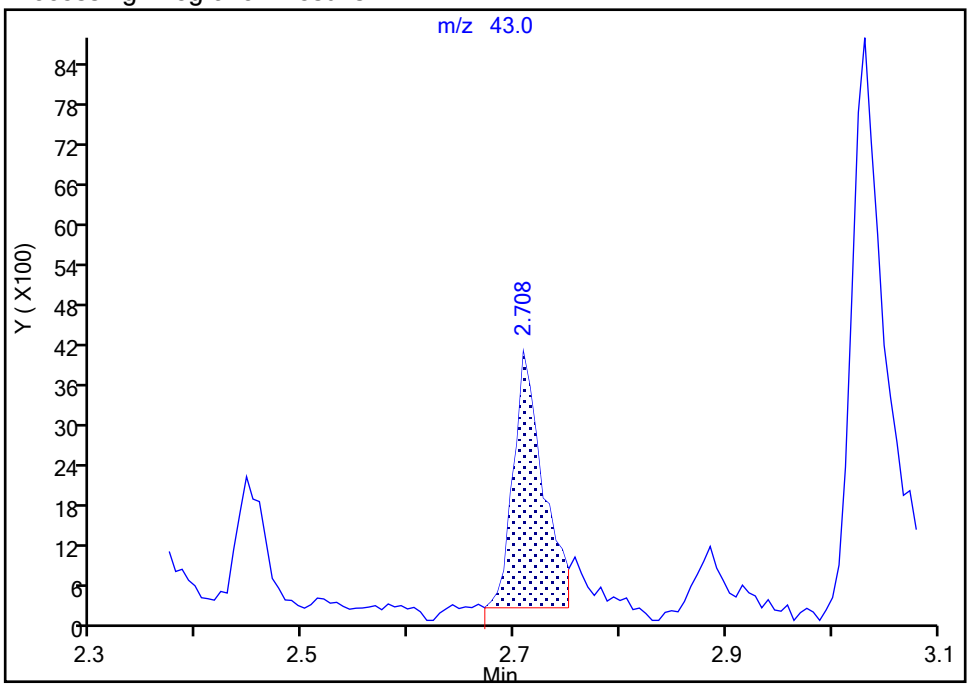
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

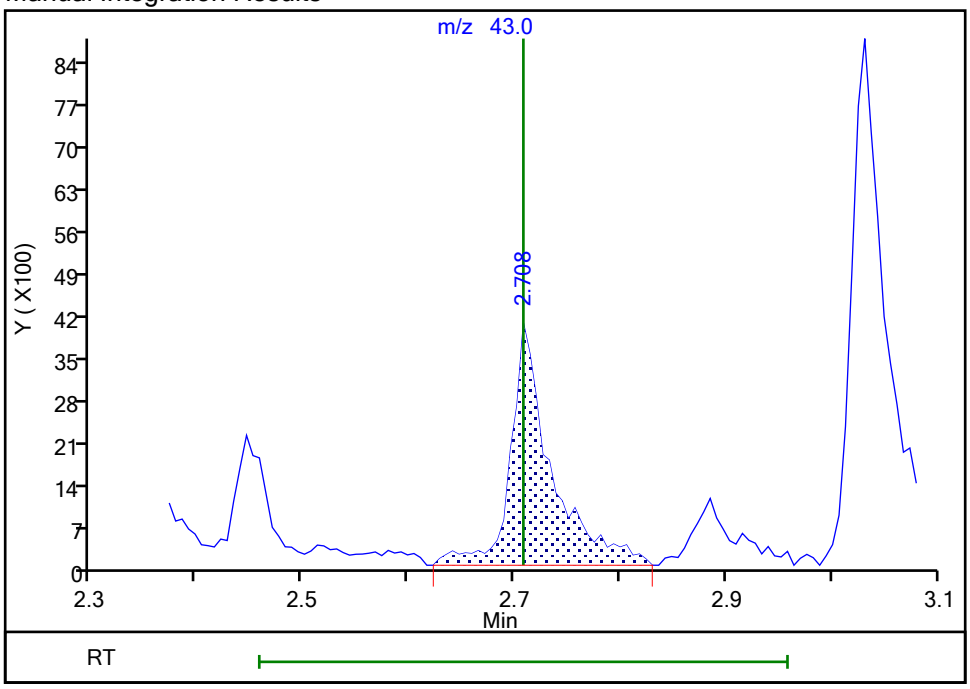
Processing Integration Results

RT: 2.71
Area: 7509
Amount: 19.815111
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 10707
Amount: 25.932035
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:43:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

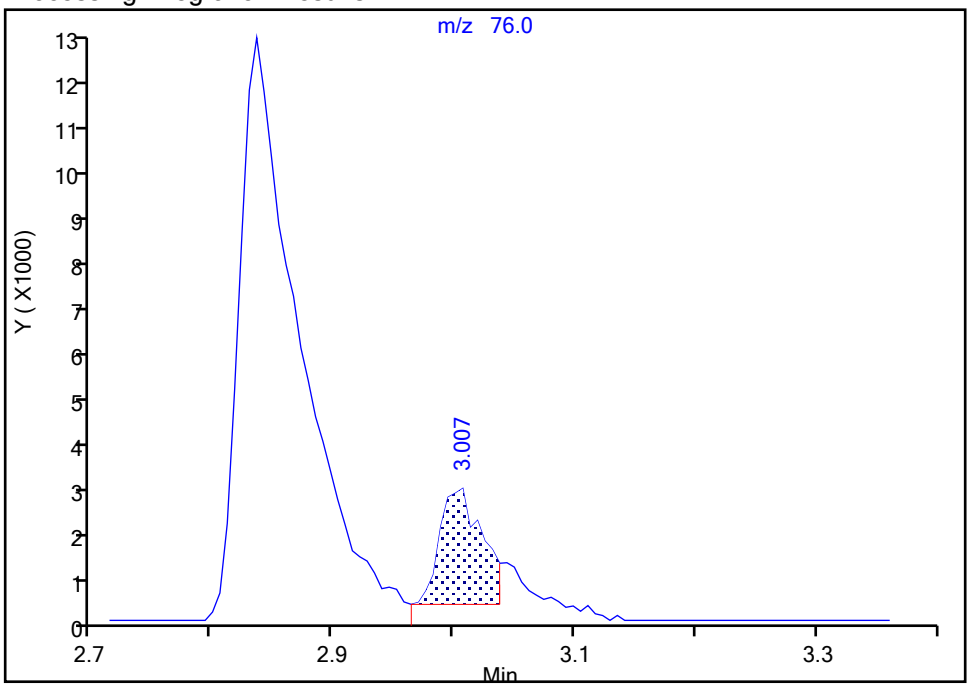
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

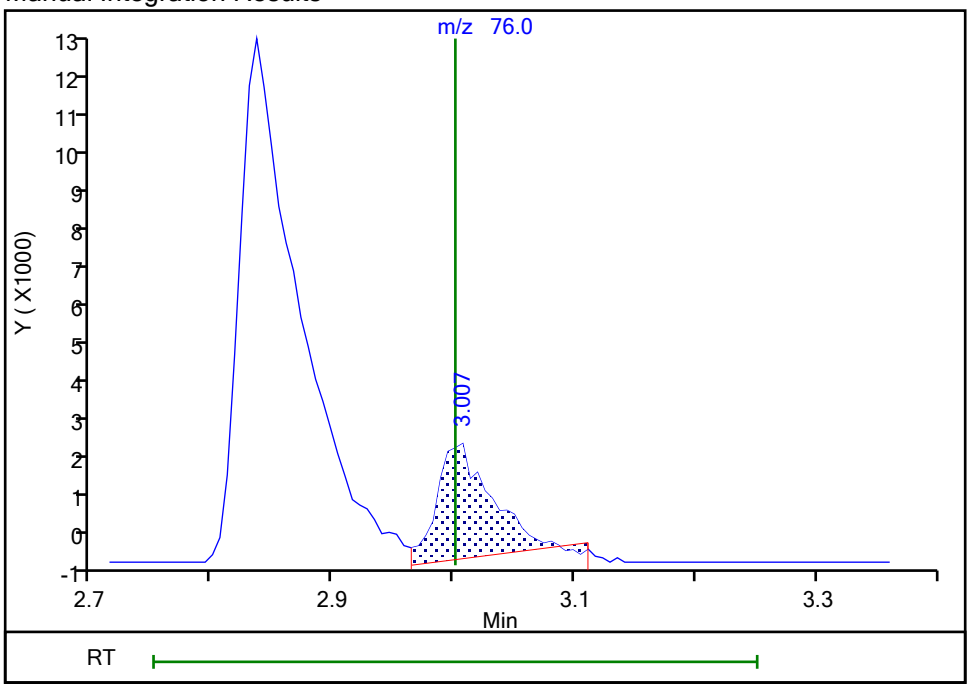
Processing Integration Results

RT: 3.01
Area: 6325
Amount: 6.613170
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 8750
Amount: 9.132855
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:43:16
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

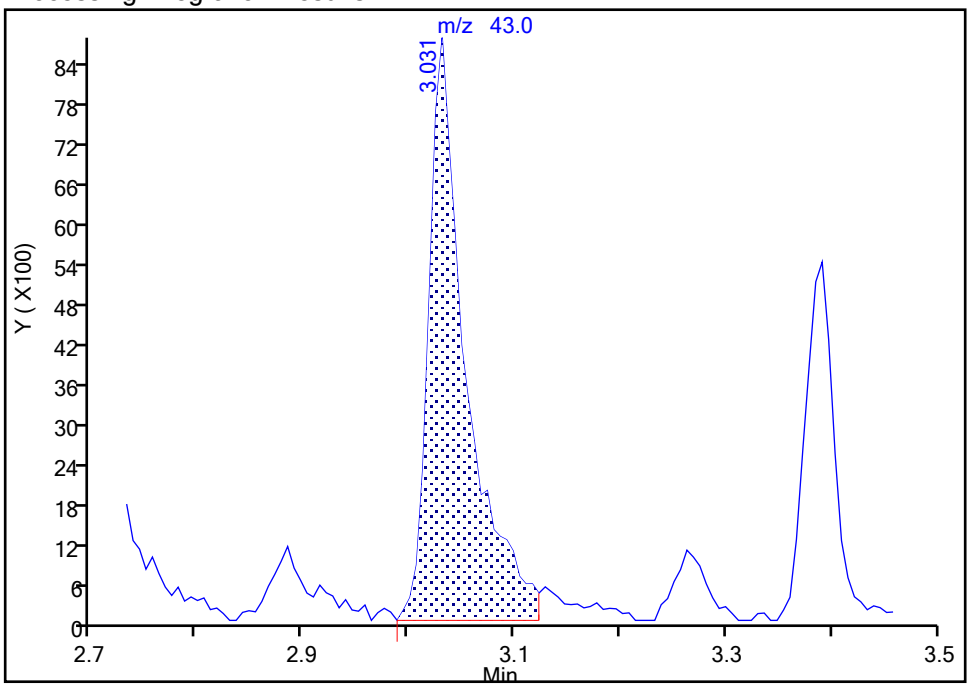
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

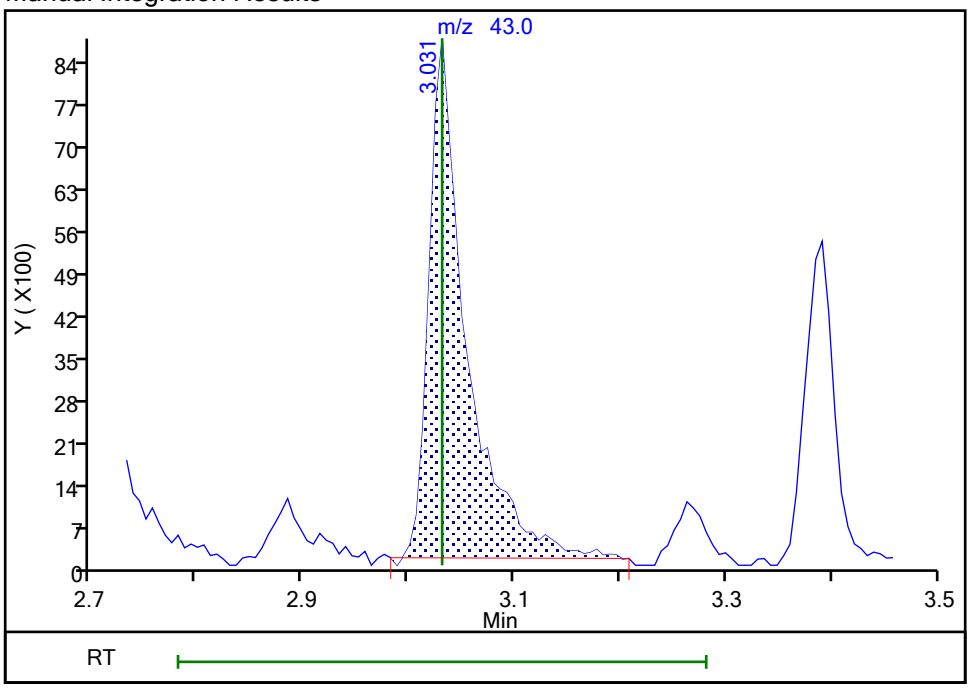
Processing Integration Results

RT: 3.03
Area: 21569
Amount: 21.264230
Amount Units: ug/l



Manual Integration Results

RT: 3.03
Area: 21205
Amount: 20.829685
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:42:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

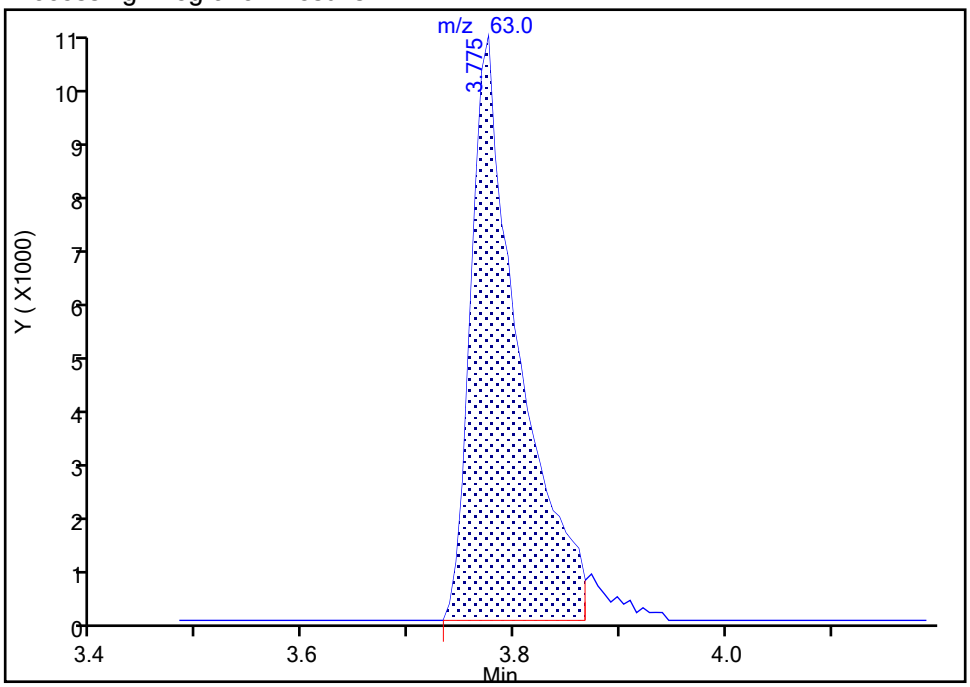
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

32 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

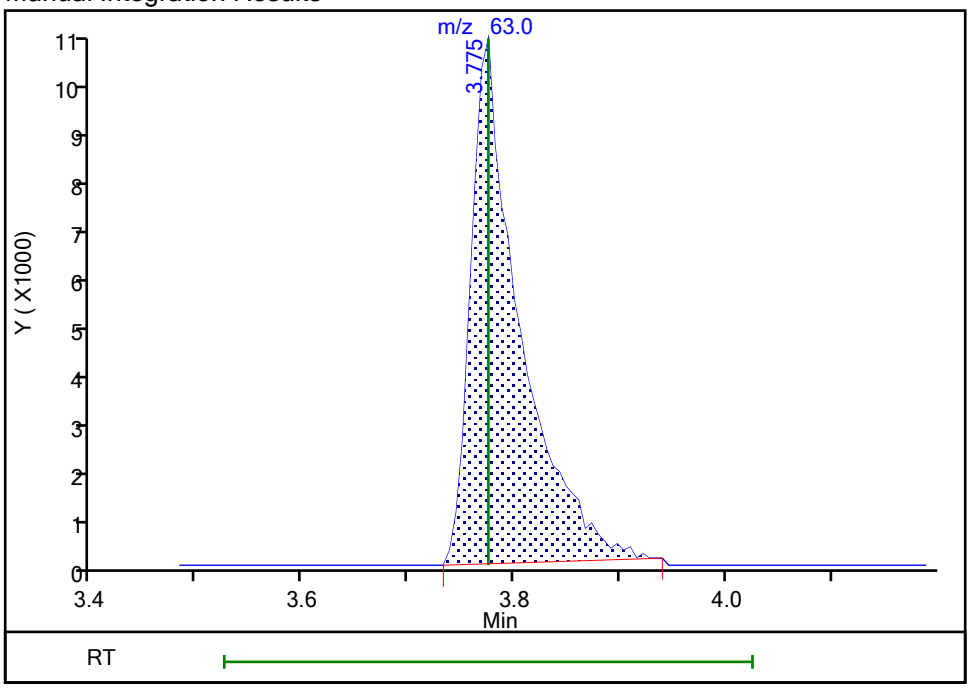
Processing Integration Results

RT: 3.78
Area: 32964
Amount: 10.418012
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 33570
Amount: 10.581633
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:42:40
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

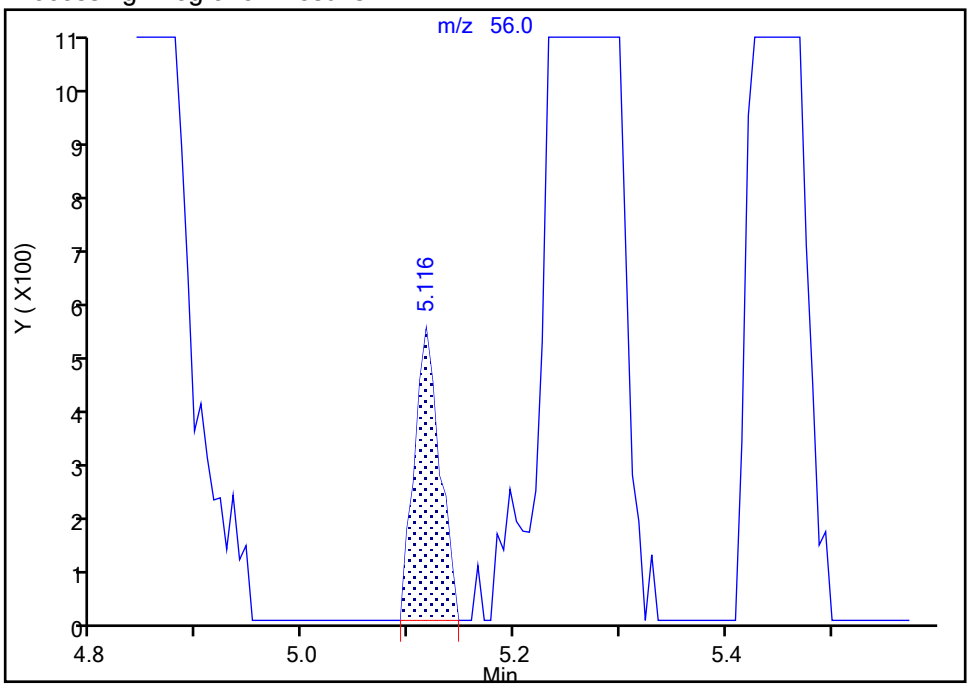
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

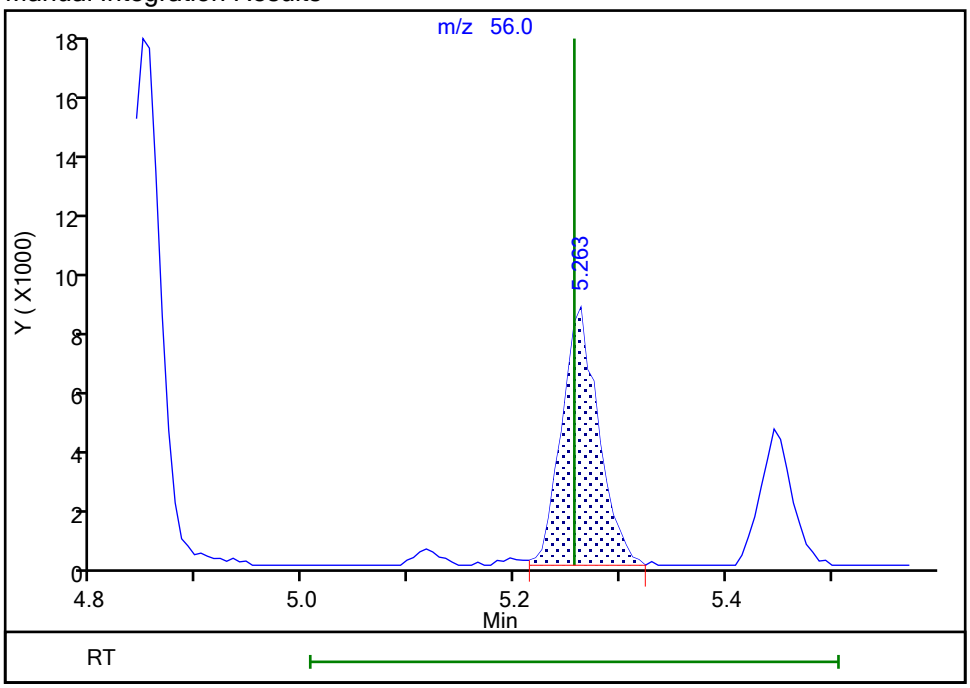
Processing Integration Results

RT: 5.12
Area: 901
Amount: 45.391531
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 20725
Amount: 286.2382
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:42:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

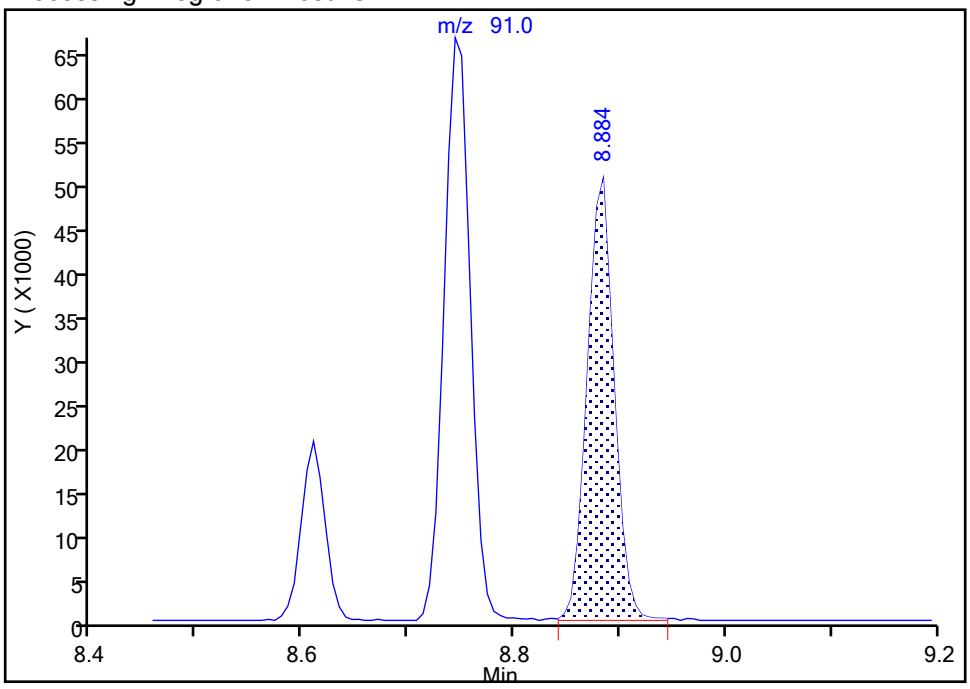
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5869.D
Injection Date: 13-Oct-2020 09:53:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

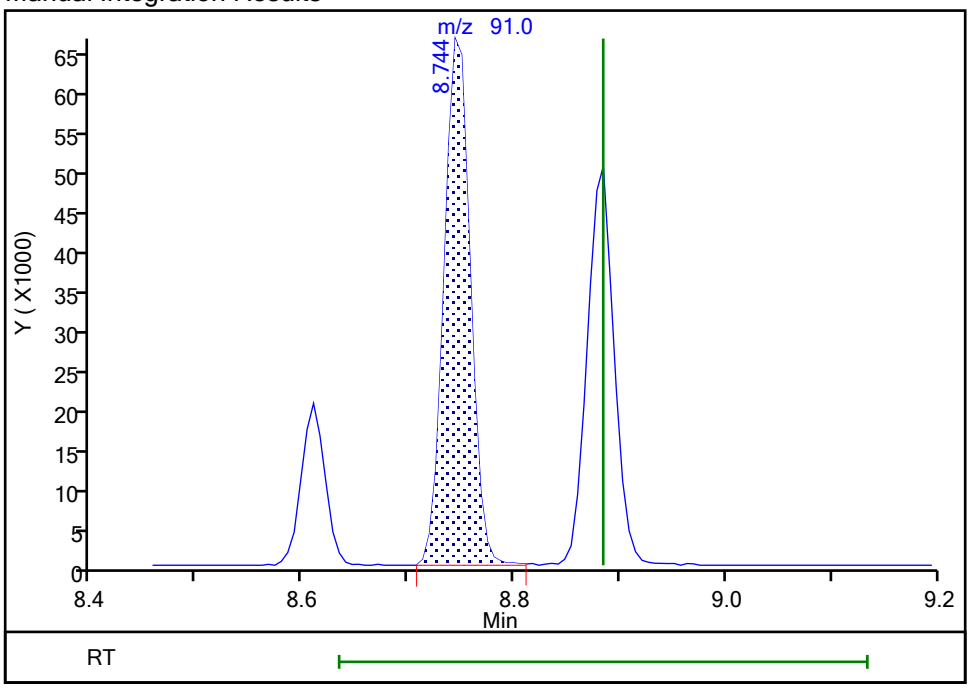
Processing Integration Results

RT: 8.88
Area: 88745
Amount: 11.425195
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 114457
Amount: 12.205788
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:41:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 13-Oct-2020 10:17:30 ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:26:51 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:49:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	159389	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	43	5631	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	122676	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	74	60620	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	12012	800.0	866.6	a
18 Ethyl ether	59	2.446	2.446	0.000	94	23923	20.0	17.8	
19 Acrolein	56	2.556	2.556	0.000	99	17231	95.2	84.1	
20 1,1-Dichloroethene	96	2.647	2.647	0.000	95	29164	20.0	17.8	
21 112TCTFE	101	2.660	2.660	0.000	93	28999	20.0	17.8	
22 Acetone	43	2.708	2.708	0.000	99	14137	40.0	31.6	
24 Carbon disulfide	76	2.830	2.830	0.000	100	84184	20.0	17.3	
105 Isopropyl alcohol	45	2.885	2.885	0.000	97	15345	200.0	204.3	M
118 Acetonitrile	40	2.958	2.958	0.000	93	26386	200.0	171.4	a
25 3-Chloro-1-propene	76	2.995	2.995	0.000	84	19350	20.0	18.3	
26 Methyl acetate	43	3.031	3.031	0.000	98	36226	40.0	32.2	
27 Methylene Chloride	84	3.105	3.105	0.000	95	33290	20.0	17.2	
23 Iodomethane	142	2.769	2.769	0.000	99	25632	20.0	17.1	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	98	21035	200.0	197.9	
30 Acrylonitrile	53	3.342	3.342	0.000	99	104876	200.0	182.2	
28 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	99	33939	20.0	18.1	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	75730	20.0	17.5	
31 Hexane	57	3.647	3.647	0.000	93	49770	20.0	19.6	
32 1,1-Dichloroethane	63	3.769	3.769	0.000	97	64654	20.0	18.4	
33 Vinyl acetate	86	3.836	3.836	0.000	97	12154	40.0	35.0	
34 2-Chloro-1,3-butadiene	53	3.848	3.848	0.000	93	61831	20.0	18.2	
36 Isopropyl ether	87	3.867	3.867	0.000	91	31277	20.0	18.3	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	99532	20.0	18.1	
39 cis-1,2-Dichloroethene	96	4.318	4.318	0.000	84	40484	20.0	18.9	
38 2,2-Dichloropropane	77	4.312	4.312	0.000	89	48085	20.0	17.4	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	24606	40.0	36.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	99	43014	200.0	187.9	
104 Ethyl acetate	61	4.415	4.415	0.000	99	9336	40.0	35.6	
43 Methacrylonitrile	67	4.537	4.537	0.000	94	123577	200.0	182.0	
42 Chlorobromomethane	128	4.543	4.543	0.000	96	17152	20.0	19.2	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	5606	40.0	35.3	
45 Chloroform	83	4.629	4.629	0.000	97	61875	20.0	16.9	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	98	54474	20.0	18.1	
47 Cyclohexane	56	4.848	4.848	0.000	92	66512	20.0	18.5	
48 Carbon tetrachloride	117	4.952	4.958	-0.006	82	45100	20.0	17.3	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	52748	20.0	18.7	
108 Isobutyl alcohol	43	5.116	5.116	0.000	94	27699	500.0	487.9	
50 Benzene	78	5.153	5.153	0.000	96	155947	20.0	18.9	
51 1,2-Dichloroethane	62	5.165	5.165	0.000	97	46150	20.0	17.7	
116 n-Butanol	56	5.257	5.257	0.000	48	39188	500.0	489.5	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	88451	20.0	17.9	
53 n-Heptane	43	5.446	5.446	0.000	93	50002	20.0	19.5	
54 Trichloroethene	95	5.787	5.787	0.000	97	39505	20.0	18.8	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	36085	20.0	18.1	
114 Methylcyclohexane	83	5.988	5.988	0.000	94	67334	20.0	19.5	
55 1,2-Dichloropropane	63	6.007	6.007	0.000	96	37550	20.0	18.7	
56 Dibromomethane	93	6.116	6.116	0.000	93	19559	20.0	18.3	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	41993	40.0	36.7	
115 1,4-Dioxane	58	6.153	6.153	0.000	32	5214	400.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	41469	20.0	17.1	
106 2-Nitropropane	43	6.519	6.519	0.000	98	12034	40.0	34.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	19499	20.0	17.5	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	53096	20.0	18.3	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	57389	40.0	37.3	
62 Toluene	92	7.098	7.098	0.000	97	102944	20.0	18.4	
63 trans-1,3-Dichloropropene	75	7.336	7.336	0.000	96	46768	20.0	16.8	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	38591	20.0	17.6	
65 1,1,2-Trichloroethane	83	7.525	7.525	0.000	93	25070	20.0	18.7	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	45271	20.0	19.6	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	51539	20.0	18.0	
68 2-Hexanone	43	7.811	7.811	0.000	98	38798	40.0	38.6	
69 Chlorodibromomethane	129	7.939	7.939	0.000	92	30929	20.0	17.3	
109 n-Butyl acetate	43	7.970	7.970	0.000	99	49151	20.0	18.7	
70 Ethylene Dibromide	107	8.055	8.055	0.000	99	30367	20.0	18.4	
71 Chlorobenzene	112	8.610	8.610	0.000	93	111261	20.0	18.1	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	94	34891	20.0	17.5	
74 m-Xylene & p-Xylene	106	8.878	8.878	0.000	99	77730	20.0	18.5	
73 Ethylbenzene	91	8.744	8.744	0.000	98	201060	20.0	18.7	a
75 o-Xylene	106	9.323	9.323	0.000	97	73542	20.0	18.4	
76 Styrene	104	9.341	9.341	0.000	95	122940	20.0	18.6	
77 Bromoform	173	9.530	9.530	0.000	94	16686	20.0	15.6	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	195179	20.0	18.8	
79 Bromobenzene	156	10.079	10.079	0.000	93	43949	20.0	17.5	
80 1,1,2,2-Tetrachloroethane	83	10.097	10.097	0.000	95	37137	20.0	19.2	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	87	11895	20.0	18.4	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	82	9173	20.0	17.1	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	229040	20.0	19.2	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	129314	20.0	18.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.445	10.445	0.000	99	150423	20.0	18.3	
86 1,3,5-Trimethylbenzene	105	10.451	10.451	0.000	94	155060	20.0	18.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	135472	20.0	18.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	97	156367	20.0	18.3	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	197468	20.0	19.3	
90 1,3-Dichlorobenzene	146	11.195	11.195	0.000	98	82846	20.0	18.5	
91 4-Isopropyltoluene	119	11.274	11.274	0.000	95	164844	20.0	18.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.384	0.000	98	152476	20.0	17.8	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	84486	20.0	17.6	
113 Benzyl chloride	126	11.475	11.475	0.000	99	10901	20.0	14.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	79423	20.0	17.5	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	140416	20.0	17.7	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	79	4952	20.0	17.2	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	49042	20.0	17.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	39742	20.0	17.2	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	19900	20.0	17.7	
98 Naphthalene	128	13.974	13.974	0.000	97	93917	20.0	18.6	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	33271	20.0	18.0	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	37.1	
S 102 1,3-Dichloropropene, Total	1				0		40.0	35.0	
S 100 Xylenes, Total	1				0		40.0	37.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

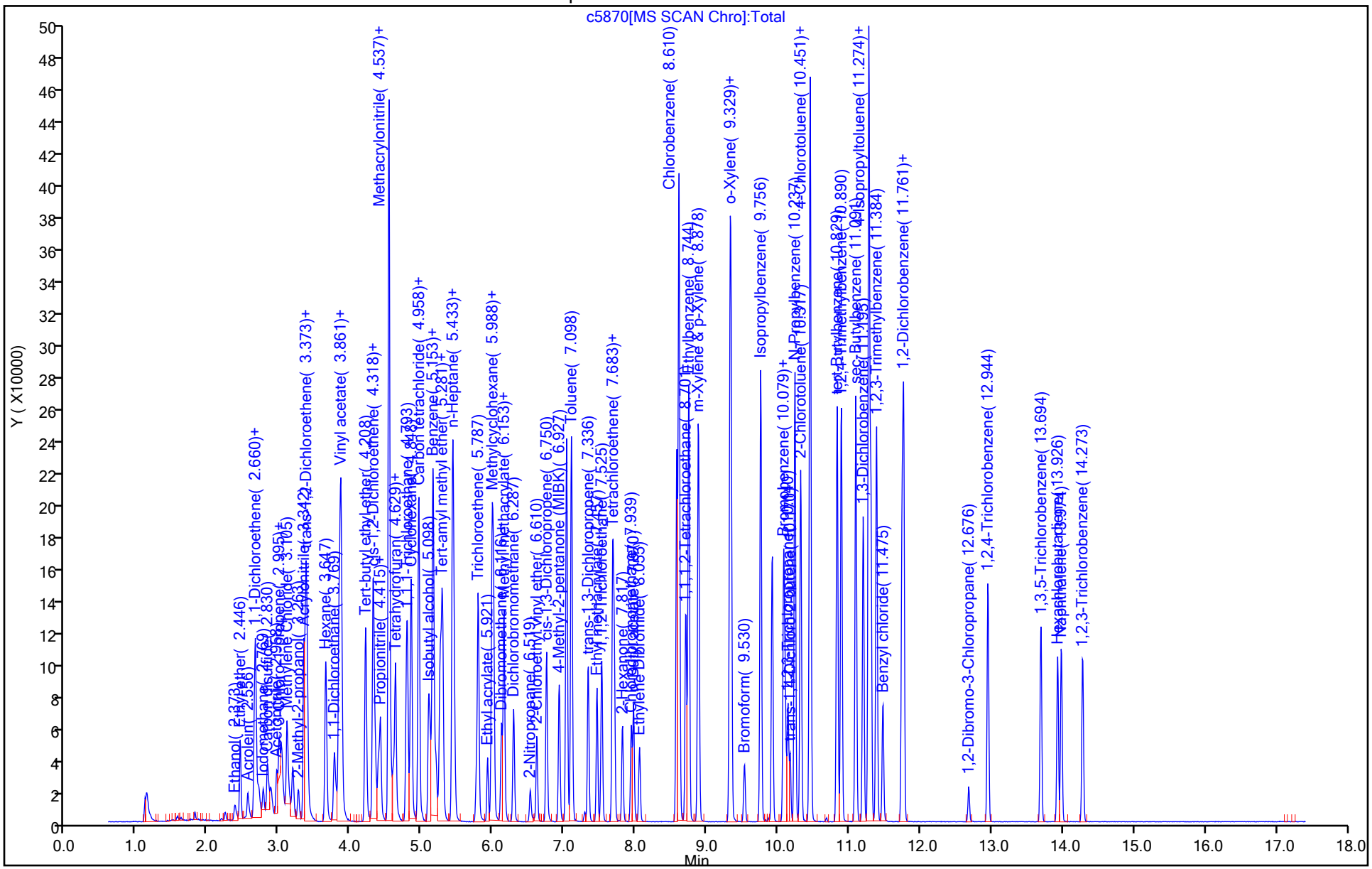
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	20.00	Units: uL

Report Date: 13-Oct-2020 18:26:54 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D

Injection Date:	13-Oct-2020 10:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std6			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

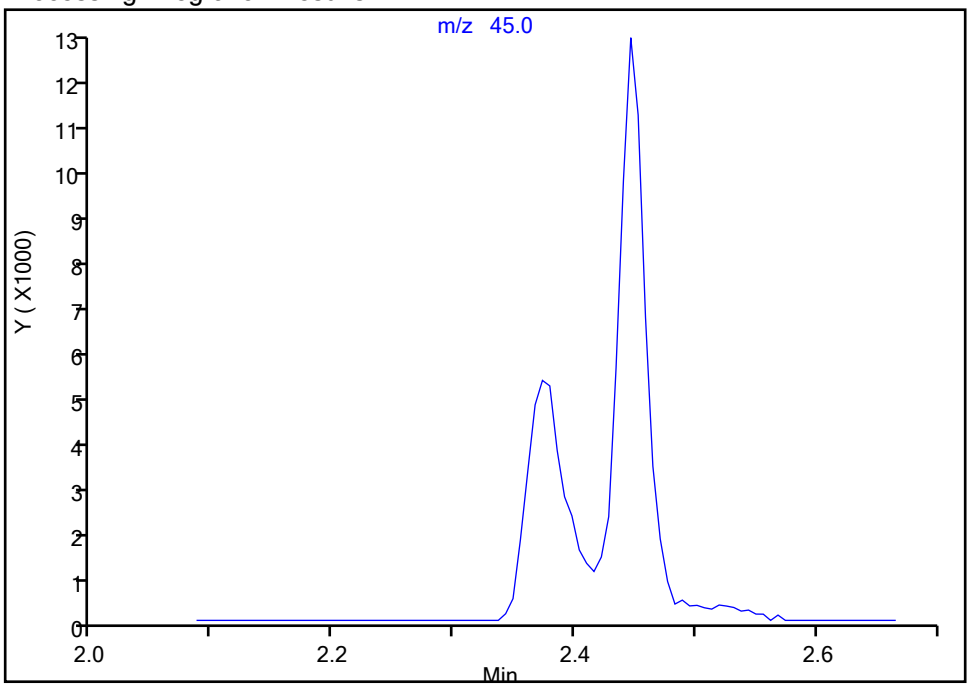
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

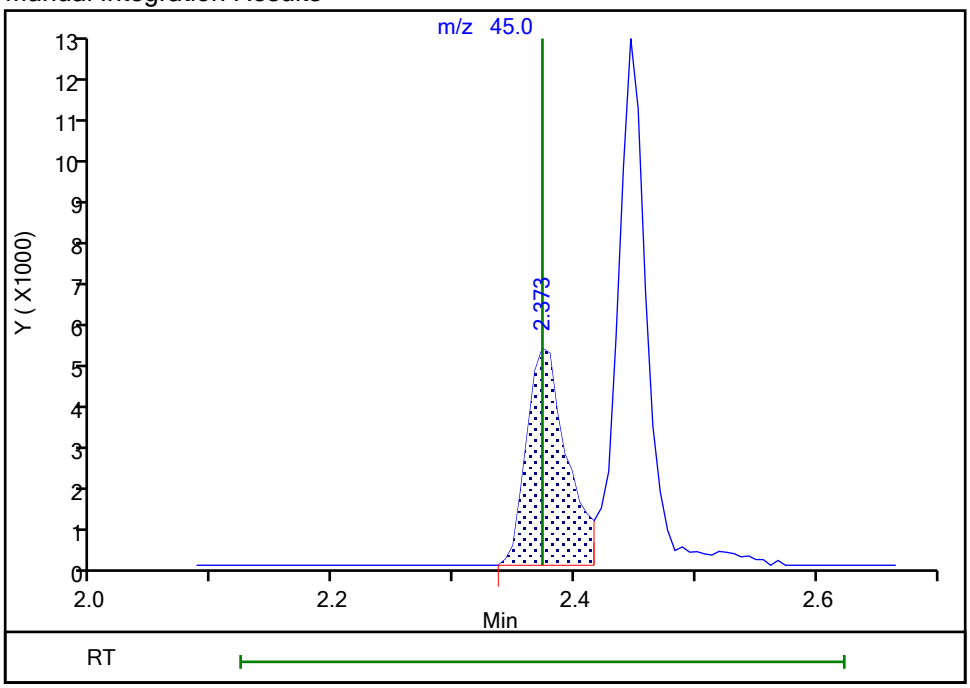
Not Detected
Expected RT: 2.37

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 12012
Amount: 866.6106
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:47:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

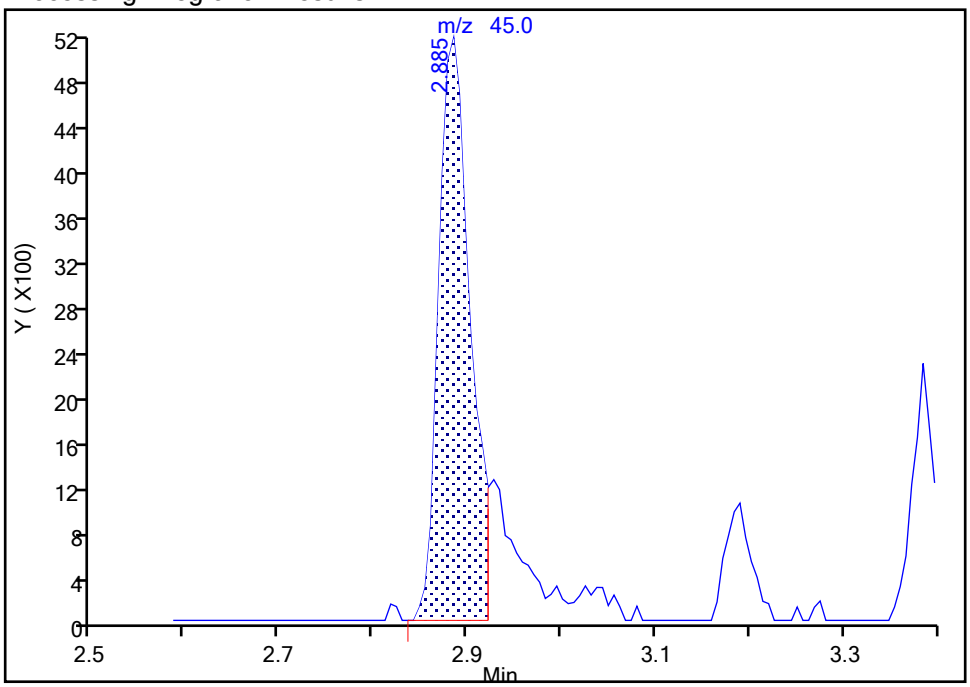
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

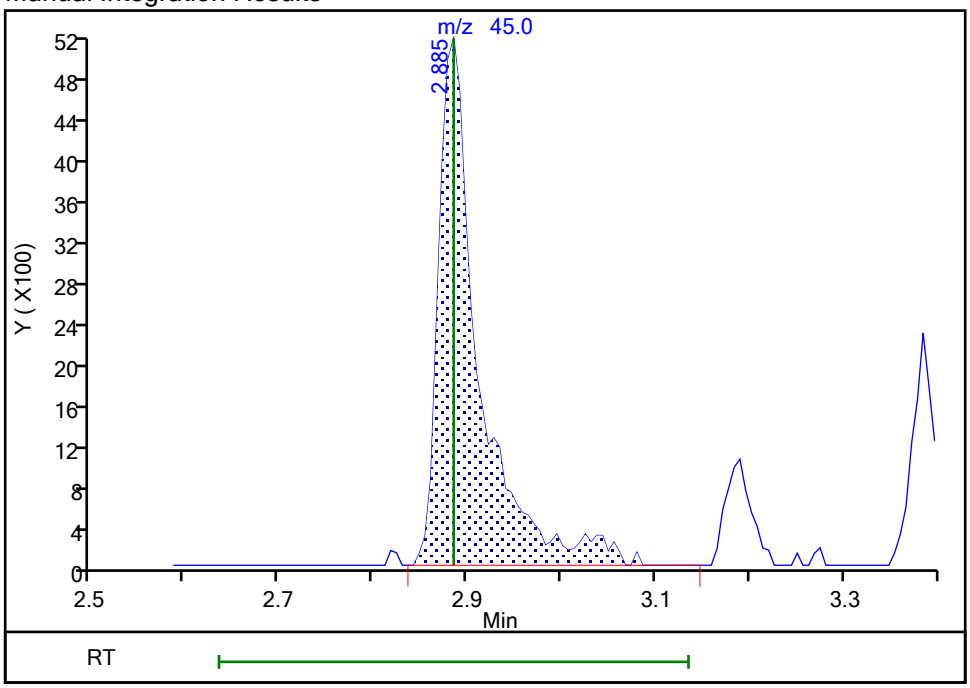
Processing Integration Results

RT: 2.89
Area: 11951
Amount: 165.7984
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 15345
Amount: 204.3129
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:04
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

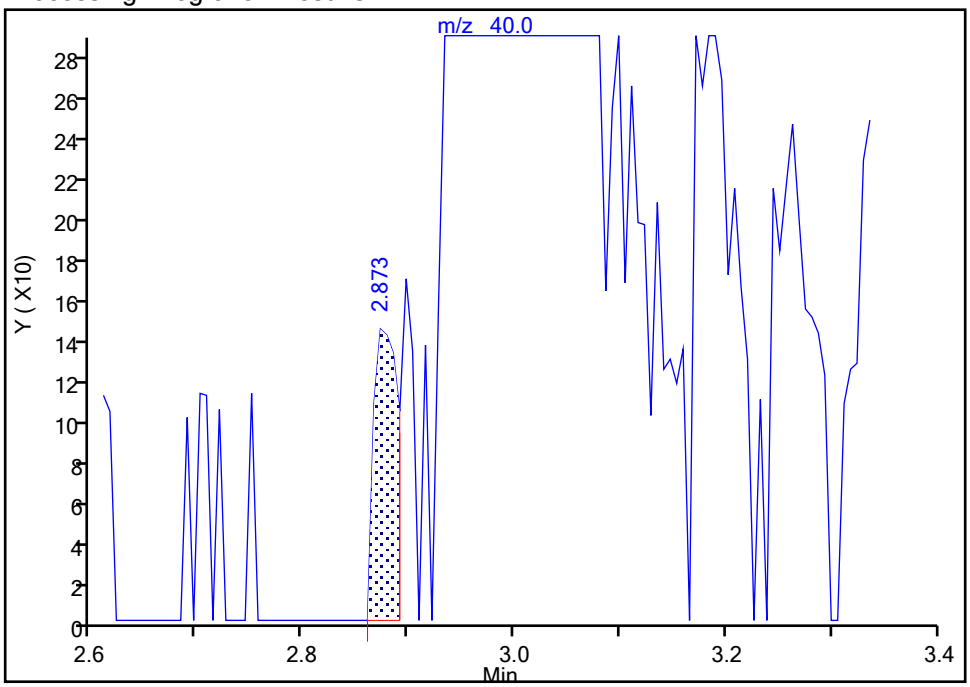
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

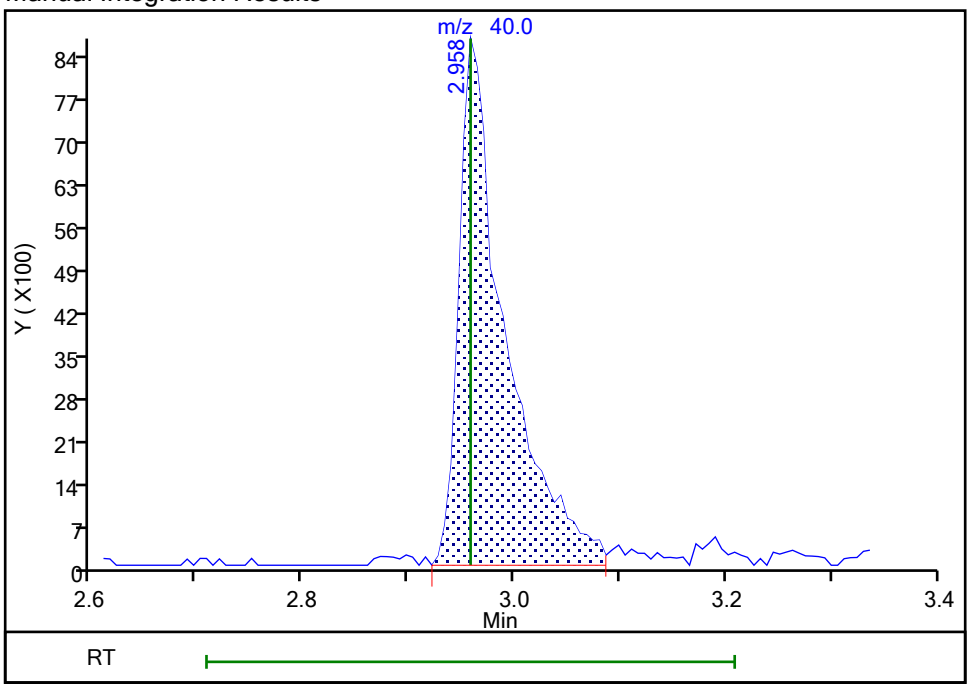
Processing Integration Results

RT: 2.87
Area: 231
Amount: 1.915025
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 26386
Amount: 171.3846
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:14
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

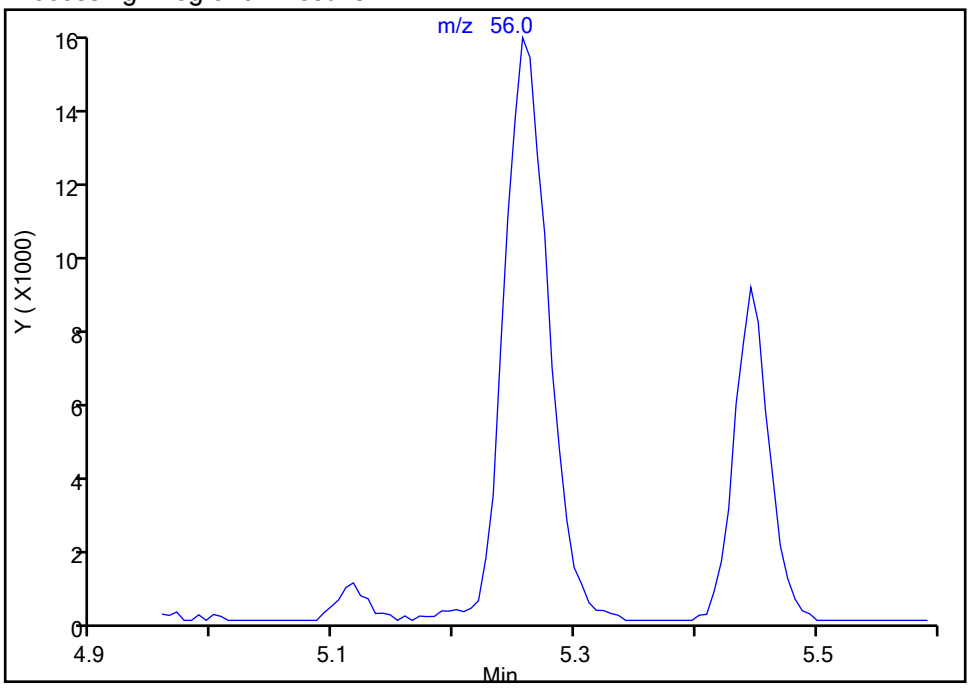
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

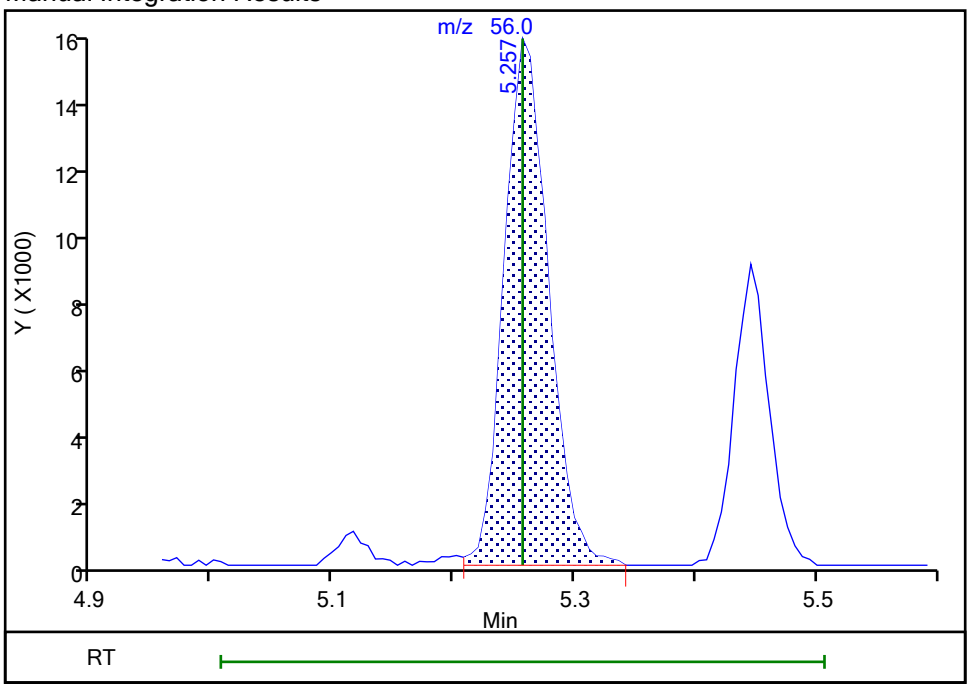
Not Detected
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.26
Area: 39188
Amount: 489.4817
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:35
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

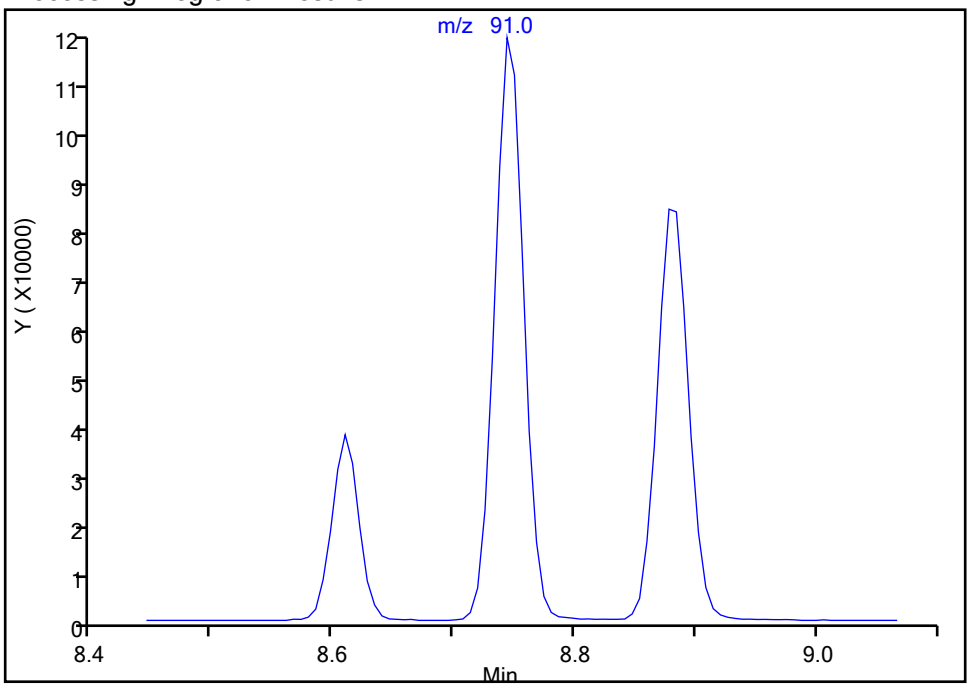
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5870.D
Injection Date: 13-Oct-2020 10:17:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

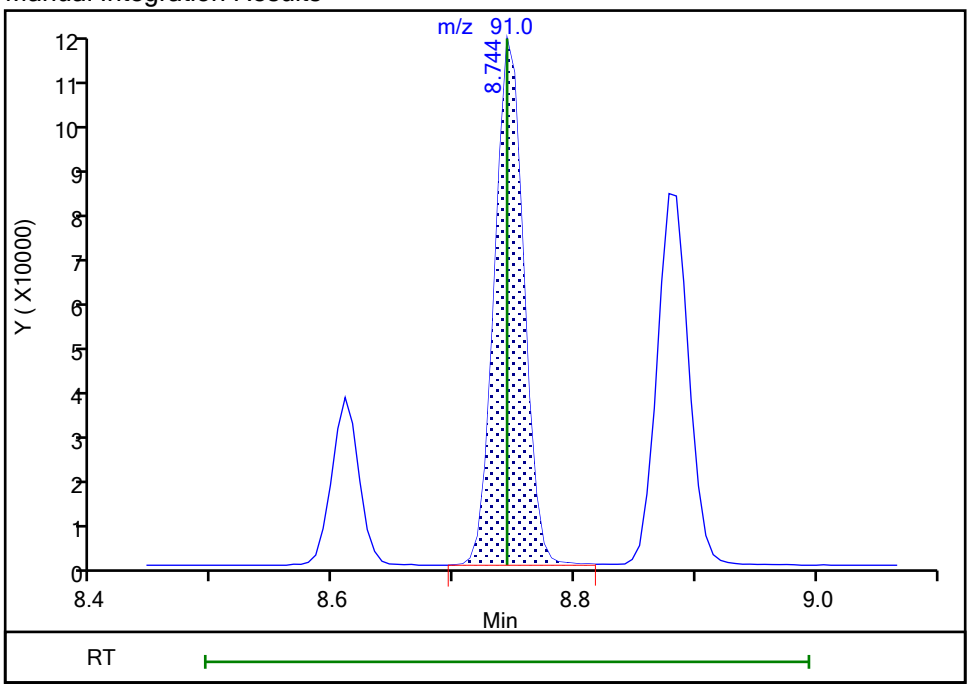
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 201060
Amount: 18.673750
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:48:57
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 13-Oct-2020 10:42:30 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:03 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 16:58:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.433	0.000	99	155110	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.116	0.000	25	5965	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	118172	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	55	55872	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	26155	2000.0	1939.0	
18 Ethyl ether	59	2.452	2.452	0.000	94	63989	50.0	48.8	
19 Acrolein	56	2.556	2.556	0.000	98	44935	238.0	225.3	
20 1,1-Dichloroethene	96	2.653	2.653	0.000	95	78968	50.0	49.5	
21 112TCTFE	101	2.666	2.666	0.000	95	78118	50.0	49.3	
22 Acetone	43	2.708	2.708	0.000	99	35597	100.0	87.2	
23 Iodomethane	142	2.775	2.775	0.000	99	76573	50.0	52.5	
24 Carbon disulfide	76	2.836	2.836	0.000	100	231488	50.0	49.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	97	33439	500.0	457.5	
118 Acetonitrile	40	2.958	2.958	0.000	99	66605	500.0	444.6	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	81	48267	50.0	46.8	
26 Methyl acetate	43	3.031	3.031	0.000	98	98353	100.0	89.8	
27 Methylene Chloride	84	3.111	3.111	0.000	95	87198	50.0	46.2	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	46928	500.0	453.7	
30 Acrylonitrile	53	3.342	3.342	0.000	99	278089	500.0	496.4	
28 trans-1,2-Dichloroethene	96	3.373	3.373	0.000	98	92873	50.0	51.0	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	208359	50.0	49.4	
31 Hexane	57	3.653	3.653	0.000	94	127364	50.0	51.6	
32 1,1-Dichloroethane	63	3.769	3.769	0.000	97	171356	50.0	50.2	
33 Vinyl acetate	86	3.836	3.836	0.000	97	33401	100.0	98.8	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	162736	50.0	49.3	
36 Isopropyl ether	87	3.867	3.867	0.000	92	84398	50.0	50.8	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	262448	50.0	49.2	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	90	132455	50.0	49.2	
39 cis-1,2-Dichloroethene	96	4.324	4.324	0.000	87	105556	50.0	50.7	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	57256	100.0	88.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	100	104790	500.0	470.4	
104 Ethyl acetate	61	4.421	4.421	0.000	100	22941	100.0	90.0	
43 Methacrylonitrile	67	4.537	4.537	0.000	94	320400	500.0	484.9	
42 Chlorobromomethane	128	4.549	4.549	0.000	96	45286	50.0	52.0	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	14966	100.0	96.8	
45 Chloroform	83	4.629	4.629	0.000	97	163959	50.0	45.9	
46 1,1,1-Trichloroethane	97	4.799	4.799	0.000	99	144945	50.0	49.5	
47 Cyclohexane	56	4.848	4.848	0.000	92	176929	50.0	50.7	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	124328	50.0	49.1	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	136208	50.0	49.7	
108 Isobutyl alcohol	43	5.116	5.116	0.000	92	63711	1250.0	1153.1	
50 Benzene	78	5.153	5.153	0.000	97	401953	50.0	50.2	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	121762	50.0	48.0	
116 n-Butanol	56	5.257	5.257	0.000	59	101015	1250.0	1296.5	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	231676	50.0	48.2	
53 n-Heptane	43	5.446	5.446	0.000	94	125772	50.0	50.5	
54 Trichloroethene	95	5.793	5.793	0.000	97	103662	50.0	50.6	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	94097	50.0	48.6	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	172955	50.0	51.4	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	93	96515	50.0	49.3	
56 Dibromomethane	93	6.122	6.122	0.000	96	50926	50.0	49.0	
115 1,4-Dioxane	58	6.159	6.159	0.000	96	10854	1000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	106838	100.0	95.9	
58 Dichlorobromomethane	83	6.287	6.287	0.000	99	116297	50.0	49.2	
106 2-Nitropropane	43	6.525	6.525	0.000	99	34658	100.0	100.9	
59 2-Chloroethyl vinyl ether	63	6.616	6.616	0.000	93	53569	50.0	49.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	149104	50.0	52.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	140519	100.0	93.9	
62 Toluene	92	7.098	7.098	0.000	98	270263	50.0	49.6	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	131564	50.0	47.8	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	101807	50.0	47.8	
65 1,1,2-Trichloroethane	83	7.524	7.524	0.000	93	64494	50.0	49.6	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	116227	50.0	51.8	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	138017	50.0	49.5	
68 2-Hexanone	43	7.817	7.817	0.000	97	92086	100.0	94.2	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	85925	50.0	49.5	
109 n-Butyl acetate	43	7.969	7.969	0.000	98	120393	50.0	47.0	
70 Ethylene Dibromide	107	8.055	8.055	0.000	97	79261	50.0	49.4	
71 Chlorobenzene	112	8.610	8.610	0.000	92	289226	50.0	48.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	95306	50.0	49.7	
73 Ethylbenzene	91	8.744	8.744	0.000	98	520303	50.0	50.2	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	201025	50.0	49.8	a
75 o-Xylene	106	9.323	9.323	0.000	97	192378	50.0	50.1	
76 Styrene	104	9.341	9.341	0.000	95	319407	50.0	50.2	
77 Bromoform	173	9.530	9.530	0.000	95	46626	50.0	45.2	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	506065	50.0	50.6	
79 Bromobenzene	156	10.079	10.079	0.000	93	117293	50.0	48.4	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	88795	50.0	47.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	87	28589	50.0	46.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	86	23391	50.0	45.2	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	590896	50.0	51.3	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	334892	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	392335	50.0	49.4	
86 1,3,5-Trimethylbenzene	105	10.451	10.451	0.000	95	398516	50.0	50.0	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	348509	50.0	50.4	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	400430	50.0	48.7	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	502827	50.0	51.1	
90 1,3-Dichlorobenzene	146	11.194	11.194	0.000	98	212595	50.0	49.2	
91 4-Isopropyltoluene	119	11.274	11.274	0.000	96	420087	50.0	50.5	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	212997	50.0	48.0	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	387286	50.0	48.9	
113 Benzyl chloride	126	11.475	11.475	0.000	99	33030	50.0	45.9	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	199770	50.0	47.9	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	366616	50.0	50.1	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	80	12612	50.0	47.5	
96 1,2,4-Trichlorobenzene	180	12.944	12.944	0.000	94	125538	50.0	49.2	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	101560	50.0	47.7	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	51495	50.0	49.6	
98 Naphthalene	128	13.974	13.974	0.000	97	222523	50.0	47.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	82621	50.0	48.6	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	101.7	
S 102 1,3-Dichloropropene, Total	1				0		100.0	100.5	
S 100 Xylenes, Total	1				0		100.0	99.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

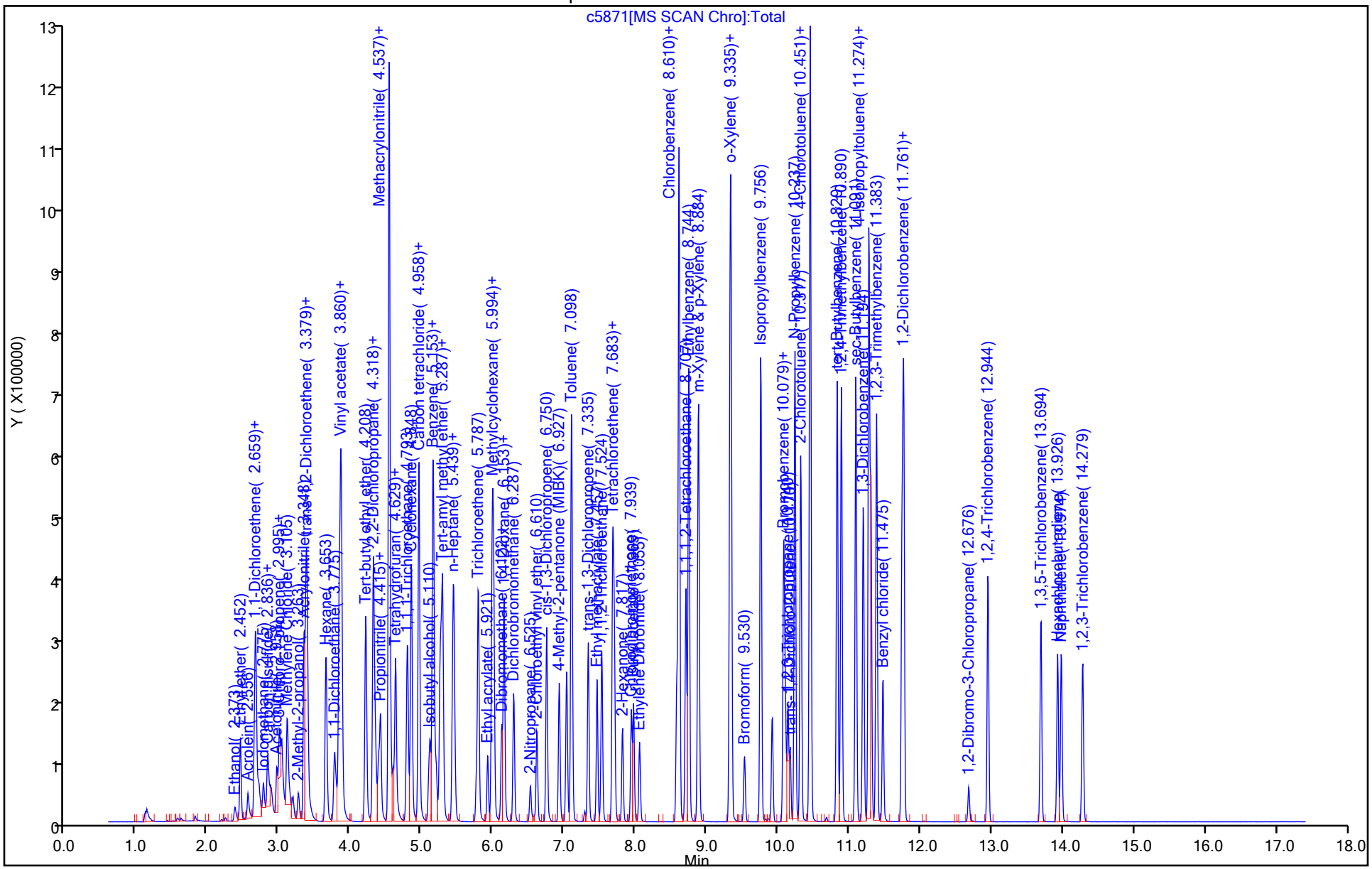
VV_M_ISSTD_00250	Amount Added:	1.00	Units: uL
VV_I_MOSOL_00217	Amount Added:	50.00	Units: uL

Report Date: 13-Oct-2020 18:27:05 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D

Injection Date:	13-Oct-2020 10:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std7			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

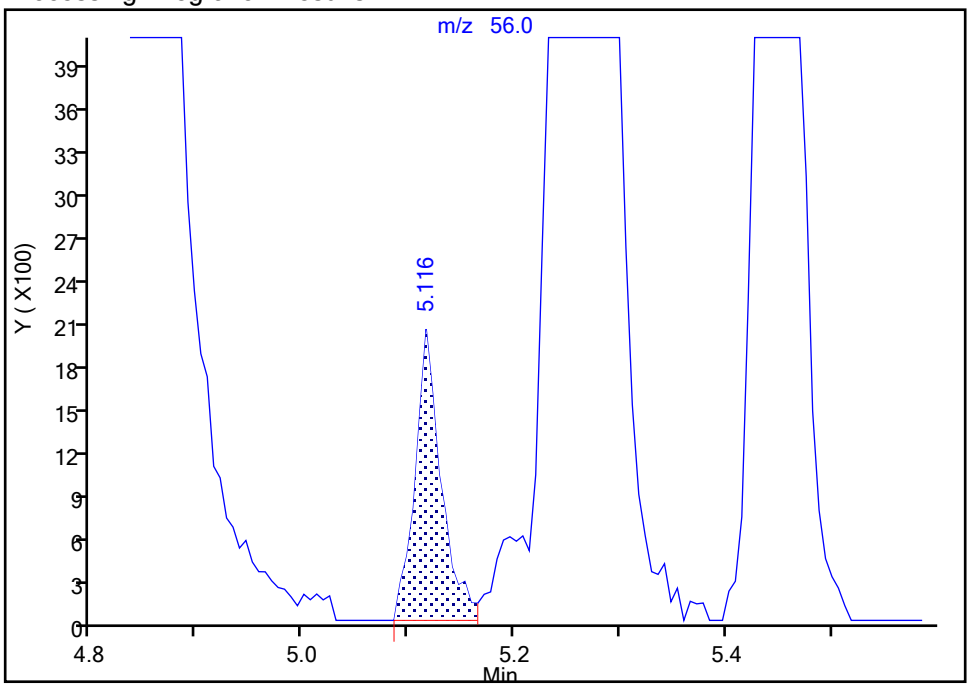
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Injection Date: 13-Oct-2020 10:42:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

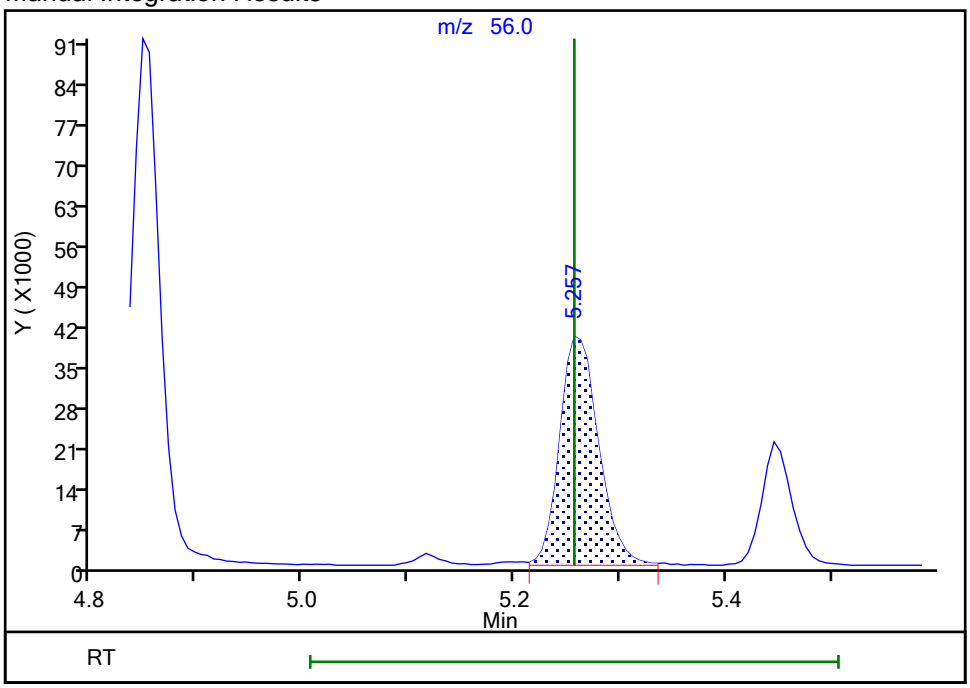
Processing Integration Results

RT: 5.12
Area: 3491
Amount: 97.602964
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 101015
Amount: 1296.5457
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:57:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

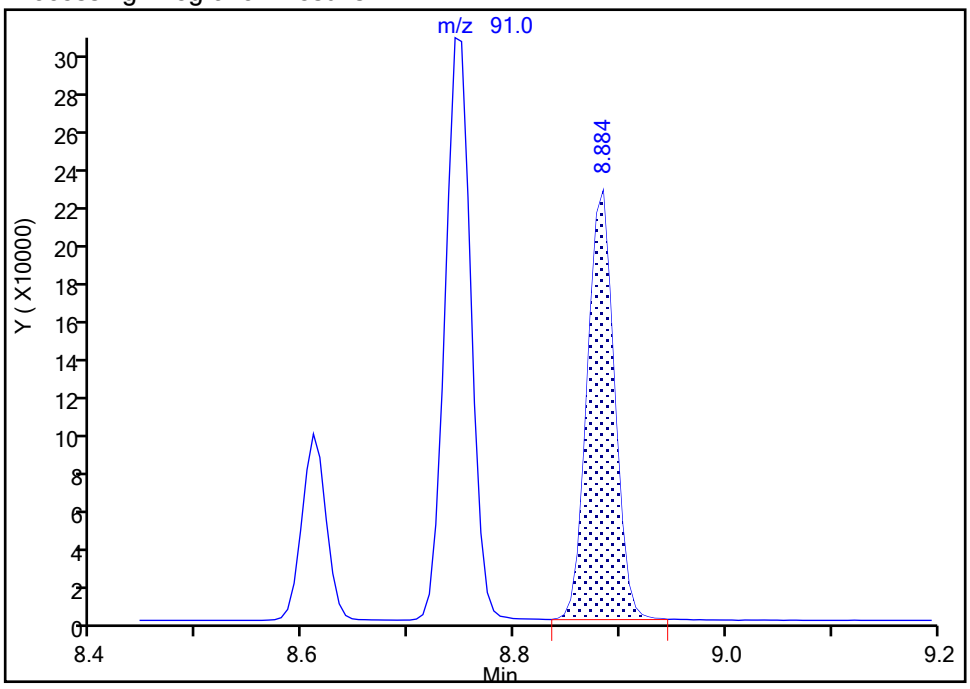
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Injection Date: 13-Oct-2020 10:42:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

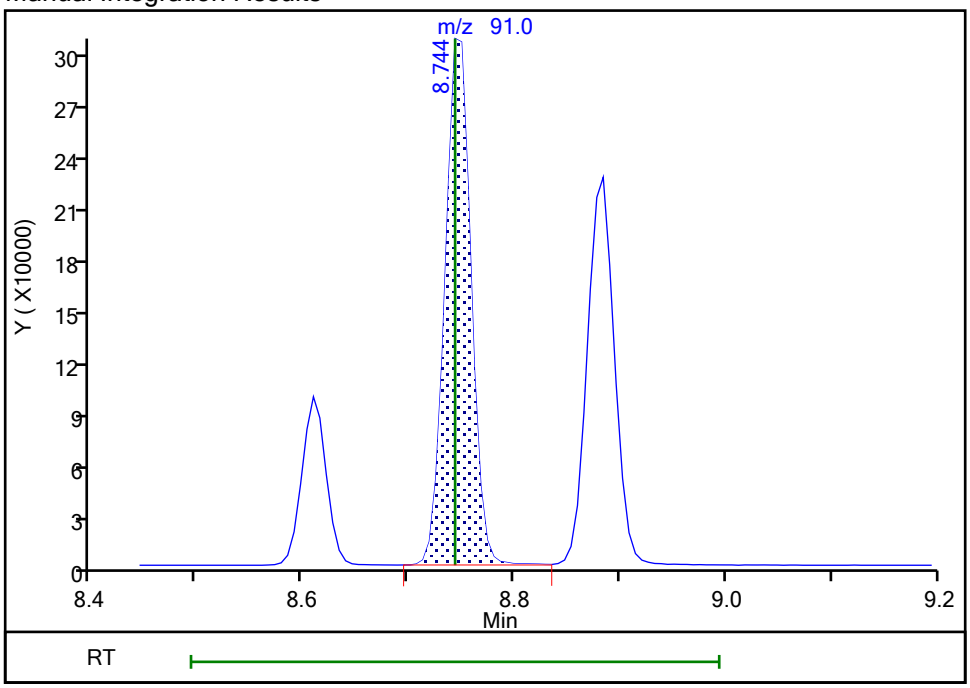
Processing Integration Results

RT: 8.88
Area: 397866
Amount: 43.921814
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 520303
Amount: 50.165739
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:57:36
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

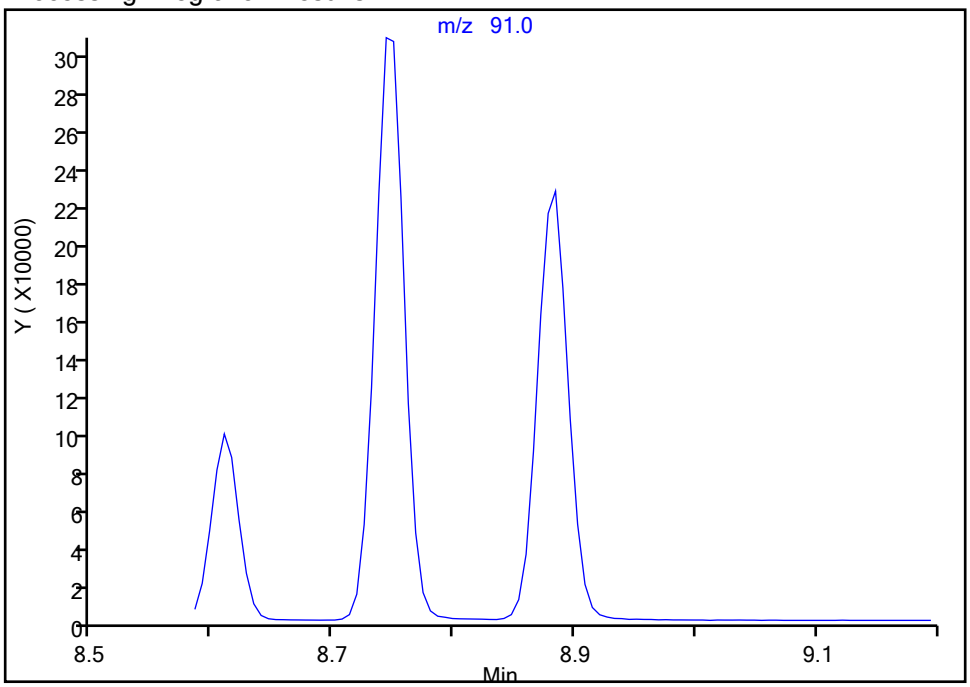
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5871.D
Injection Date: 13-Oct-2020 10:42:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

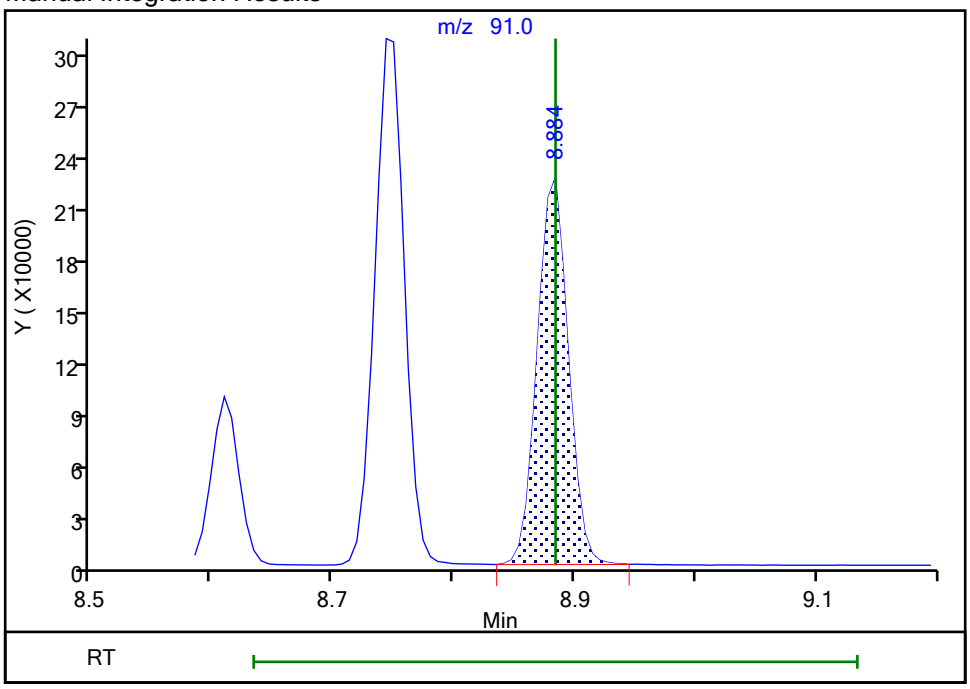
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 397866
Amount: 49.787317
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 16:57:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 13-Oct-2020 11:06:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:16 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:02:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	157172	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	23	6571	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	119881	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	54	57005	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	100	54539	4000.0	3990.2	
18 Ethyl ether	59	2.452	2.452	0.000	94	136339	100.0	102.6	
19 Acrolein	56	2.556	2.556	0.000	99	94356	475.9	466.8	
20 1,1-Dichloroethene	96	2.647	2.647	0.000	97	169348	100.0	104.7	
21 112TCTFE	101	2.666	2.666	0.000	95	167783	100.0	104.6	
22 Acetone	43	2.708	2.708	0.000	100	72721	200.0	179.3	
23 Iodomethane	142	2.769	2.769	0.000	98	177375	100.0	119.9	
24 Carbon disulfide	76	2.830	2.830	0.000	100	500417	100.0	104.5	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	72053	1000.0	972.9	
118 Acetonitrile	40	2.958	2.958	0.000	99	136343	1000.0	898.1	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	83	116896	100.0	111.9	
26 Methyl acetate	43	3.031	3.031	0.000	98	207296	200.0	186.8	
27 Methylene Chloride	84	3.105	3.105	0.000	95	184369	100.0	96.3	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	98	100031	1000.0	954.3	
30 Acrylonitrile	53	3.342	3.342	0.000	99	581014	1000.0	1023.6	
28 trans-1,2-Dichloroethene	96	3.373	3.373	0.000	97	199161	100.0	108.0	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	441722	100.0	103.3	
31 Hexane	57	3.653	3.653	0.000	94	273746	100.0	109.5	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	370988	100.0	107.2	
33 Vinyl acetate	86	3.836	3.836	0.000	97	74802	200.0	218.4	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	93	357917	100.0	107.0	
36 Isopropyl ether	87	3.867	3.867	0.000	92	174705	100.0	103.7	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	564903	100.0	104.5	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	90	289710	100.0	106.2	
39 cis-1,2-Dichloroethene	96	4.324	4.324	0.000	86	224357	100.0	106.3	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	123300	200.0	187.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.391	4.391	0.000	99	217461	1000.0	963.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	53714	200.0	207.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	94	664416	1000.0	992.3	
42 Chlorobromomethane	128	4.549	4.549	0.000	97	90073	100.0	102.2	
44 Tetrahydrofuran	71	4.598	4.598	0.000	89	30348	200.0	193.7	
45 Chloroform	83	4.629	4.629	0.000	95	351967	100.0	97.3	
46 1,1,1-Trichloroethane	97	4.793	4.793	0.000	98	319797	100.0	107.9	
47 Cyclohexane	56	4.848	4.848	0.000	93	373121	100.0	105.5	
48 Carbon tetrachloride	117	4.958	4.958	0.000	95	272324	100.0	106.1	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	94	288977	100.0	104.1	
108 Isobutyl alcohol	43	5.116	5.116	0.000	95	133992	2500.0	2393.4	
50 Benzene	78	5.153	5.153	0.000	97	857100	100.0	105.5	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	259608	100.0	101.0	
116 n-Butanol	56	5.263	5.263	0.000	60	215916	2500.0	2735.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	493216	100.0	101.2	
53 n-Heptane	43	5.446	5.446	0.000	93	265129	100.0	105.0	
54 Trichloroethene	95	5.787	5.793	-0.006	97	217976	100.0	105.0	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	200154	100.0	102.0	
114 Methylcyclohexane	83	5.988	5.988	0.000	92	368808	100.0	108.2	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	94	206428	100.0	104.1	
56 Dibromomethane	93	6.116	6.116	0.000	95	108431	100.0	102.9	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	225693	200.0	200.0	
115 1,4-Dioxane	58	6.153	6.153	0.000	31	23674	2000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	254937	100.0	106.4	
106 2-Nitropropane	43	6.519	6.519	0.000	99	83296	200.0	239.4	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	113588	100.0	103.2	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	320494	100.0	111.7	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	291062	200.0	192.0	
62 Toluene	92	7.098	7.098	0.000	98	575198	100.0	104.1	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	287350	100.0	102.6	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	217634	100.0	100.9	
65 1,1,2-Trichloroethane	83	7.524	7.524	0.000	92	137753	100.0	104.5	
66 Tetrachloroethene	166	7.677	7.677	0.000	97	243474	100.0	107.0	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	96	288225	100.0	102.0	
68 2-Hexanone	43	7.817	7.817	0.000	98	192696	200.0	194.6	
69 Chlorodibromomethane	129	7.939	7.939	0.000	92	190332	100.0	108.2	
109 n-Butyl acetate	43	7.969	7.969	0.000	98	251591	100.0	96.9	
70 Ethylene Dibromide	107	8.055	8.055	0.000	99	168707	100.0	103.8	
71 Chlorobenzene	112	8.610	8.610	0.000	94	602850	100.0	100.3	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	96	203777	100.0	104.8	
73 Ethylbenzene	91	8.744	8.744	0.000	98	1094090	100.0	104.0	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	425486	100.0	103.9	a
75 o-Xylene	106	9.329	9.323	0.006	97	400141	100.0	102.6	
76 Styrene	104	9.341	9.341	0.000	94	674858	100.0	104.5	
77 Bromoform	173	9.530	9.530	0.000	96	108385	100.0	103.6	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	1072001	100.0	105.7	
79 Bromobenzene	156	10.079	10.079	0.000	94	243560	100.0	99.0	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	186481	100.0	98.4	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	86	59328	100.0	94.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	88	52313	100.0	99.6	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	1236556	100.0	105.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	698997	100.0	102.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	812123	100.0	100.8	
86 1,3,5-Trimethylbenzene	105	10.451	10.451	0.000	94	837133	100.0	103.4	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	734102	100.0	104.7	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	842589	100.0	101.1	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	1062415	100.0	106.5	
90 1,3-Dichlorobenzene	146	11.194	11.194	0.000	98	441110	100.0	100.7	
91 4-Isopropyltoluene	119	11.274	11.274	0.000	97	886323	100.0	104.5	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	443152	100.0	97.9	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	817804	100.0	101.3	
113 Benzyl chloride	126	11.475	11.475	0.000	99	74667	100.0	101.7	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	411046	100.0	96.5	
94 n-Butylbenzene	91	11.761	11.761	0.000	98	781733	100.0	104.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	84	27437	100.0	101.2	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	268789	100.0	103.3	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	218247	100.0	100.4	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	111264	100.0	105.1	
98 Naphthalene	128	13.980	13.980	0.000	97	476762	100.0	100.6	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	173729	100.0	100.2	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		200.0	214.3	
S 102 1,3-Dichloropropene, Total	1				0		200.0	214.4	
S 100 Xylenes, Total	1				0		200.0	206.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

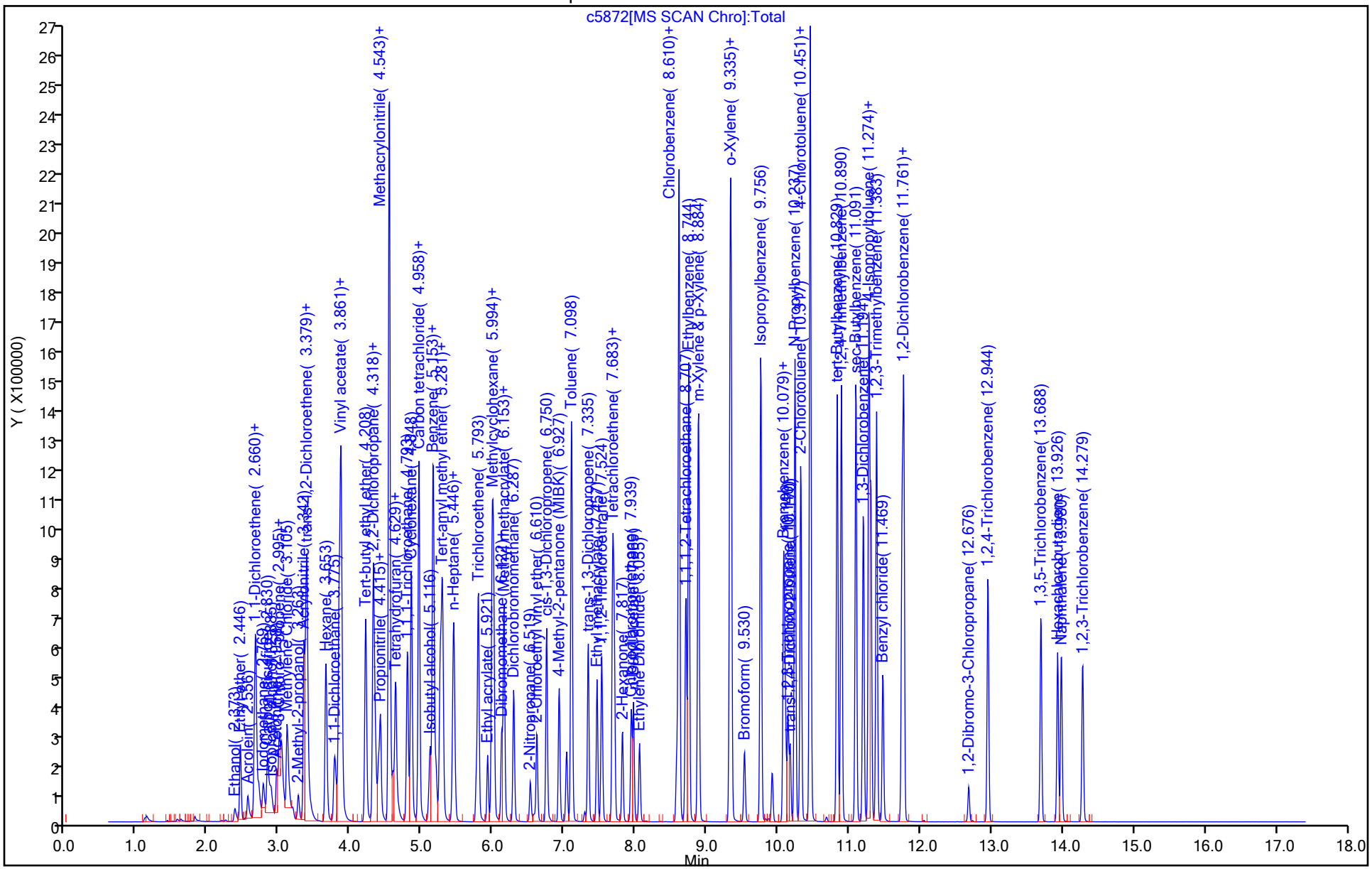
Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 100.00	Units: uL

Report Date: 13-Oct-2020 18:27:19 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D				
Injection Date:	13-Oct-2020 11:06:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icis			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

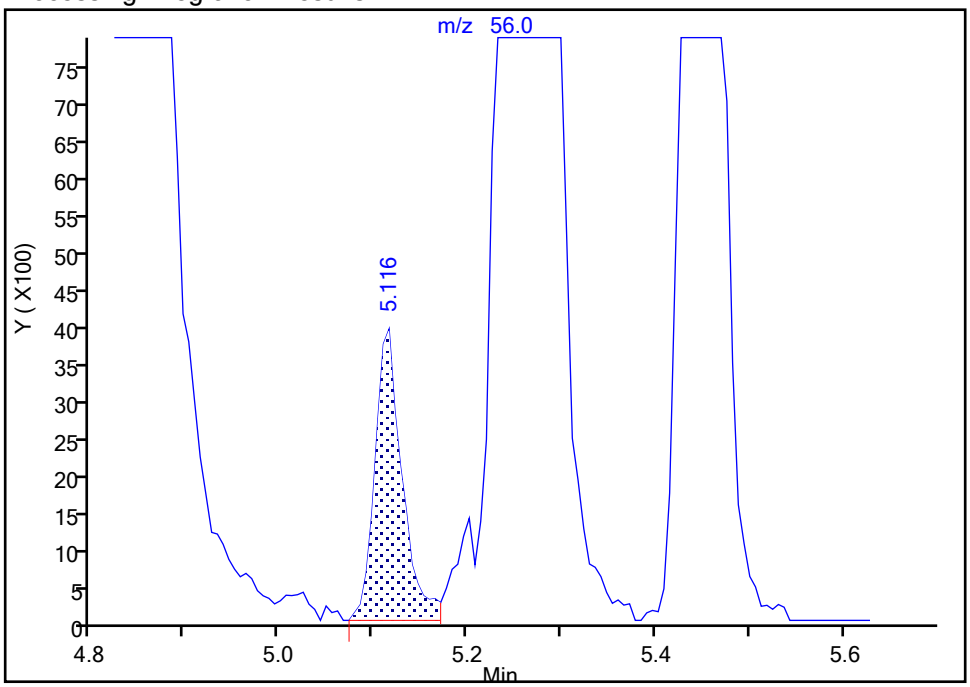
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin
Lims ID: icis
Client ID:
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

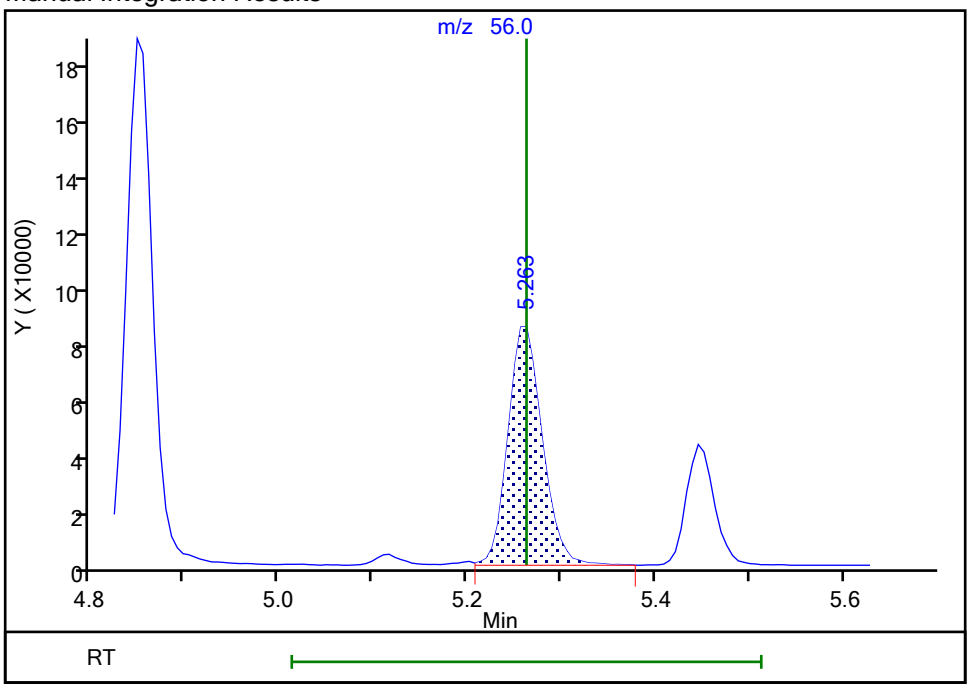
Processing Integration Results

RT: 5.12
Area: 7860
Amount: 180.9818
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 215916
Amount: 2734.9626
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:01:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

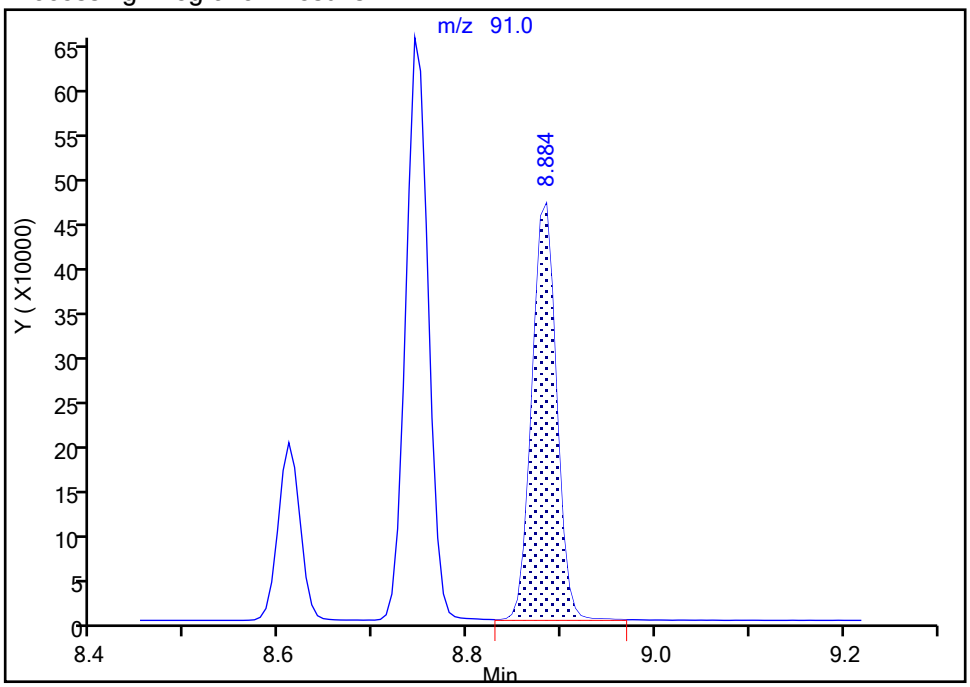
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin
Lims ID: icis
Client ID:
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

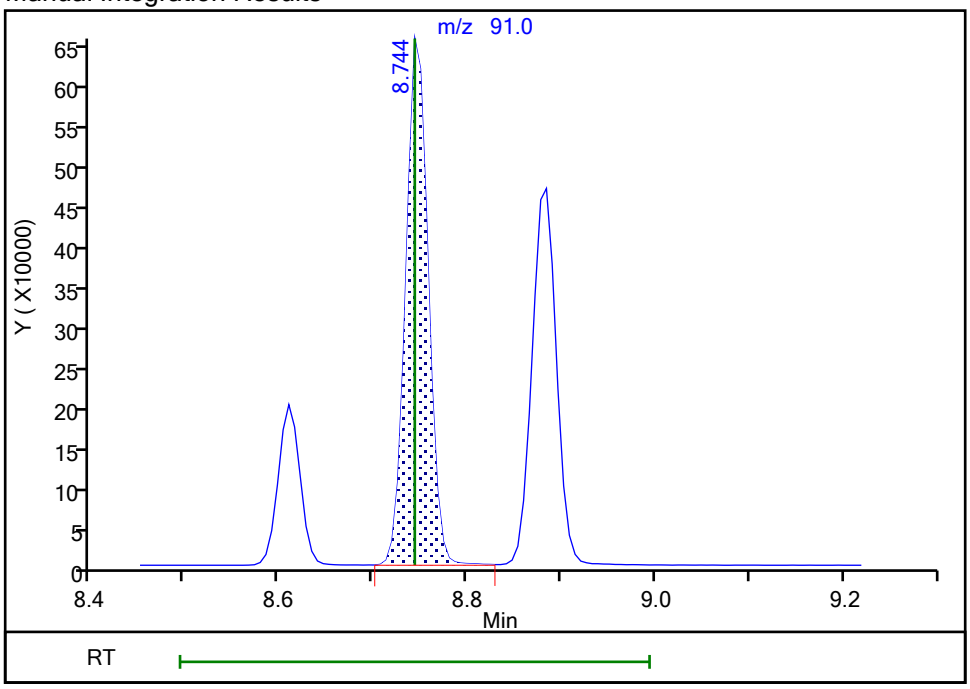
Processing Integration Results

RT: 8.88
Area: 852564
Amount: 90.550511
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 1094090
Amount: 103.9844
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:01:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

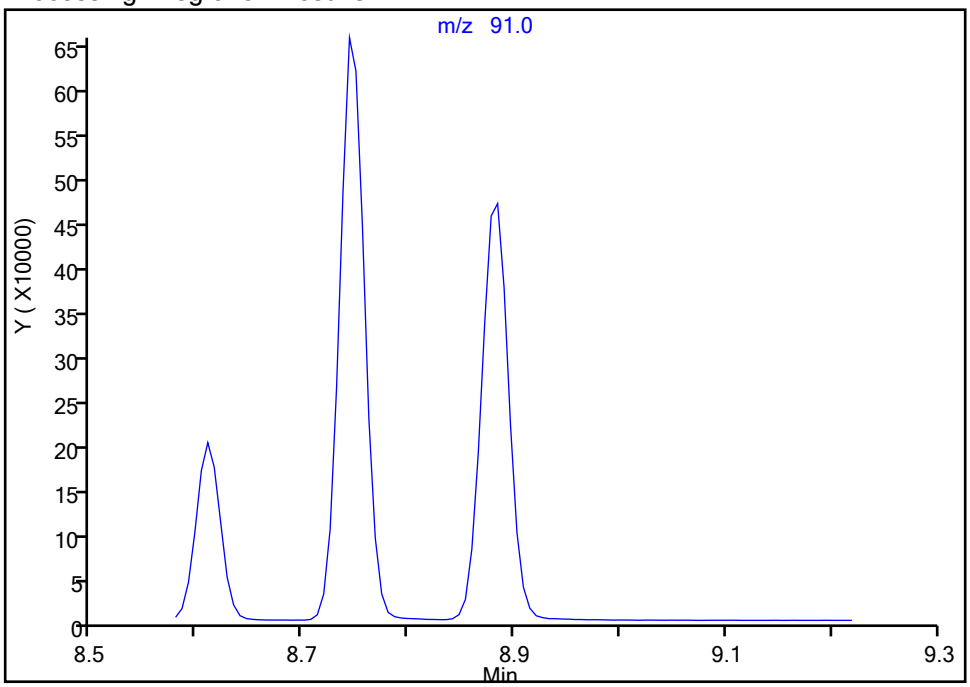
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5872.D
Injection Date: 13-Oct-2020 11:06:30 Instrument ID: Calvin
Lims ID: icis
Client ID:
Operator ID: sjn ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

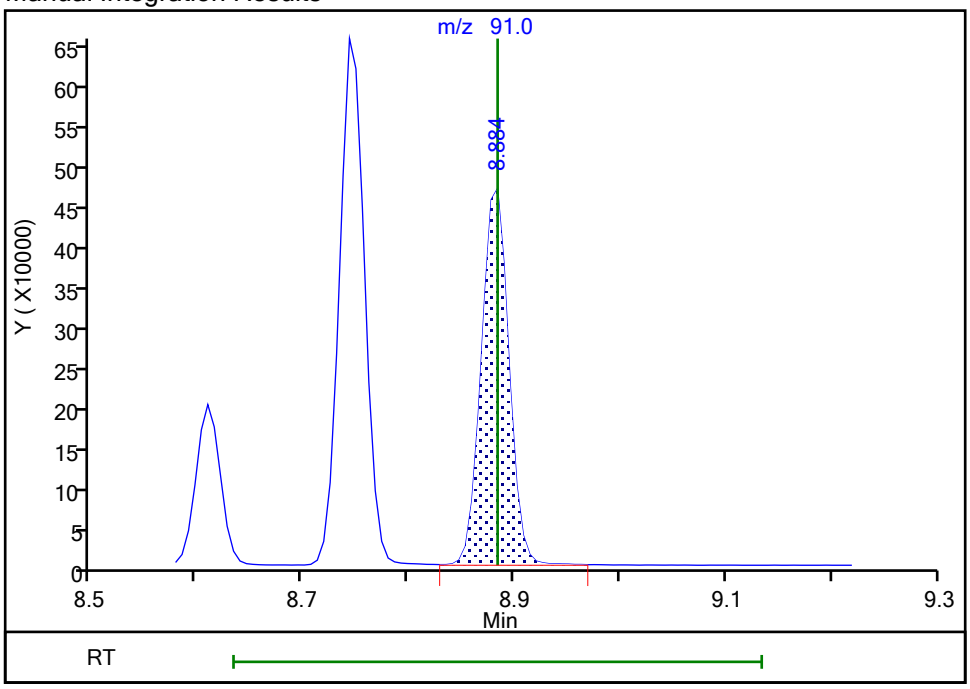
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 852564
Amount: 103.8767
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:01:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 13-Oct-2020 11:30:30 ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:30 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:06:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	172776	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.104	0.006	24	7429	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	131436	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	48	60203	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	100	86149	6000.0	5733.7	
18 Ethyl ether	59	2.452	2.452	0.000	94	223212	150.0	152.8	
19 Acrolein	56	2.556	2.556	0.000	99	154853	713.9	696.9	
20 1,1-Dichloroethene	96	2.653	2.647	0.006	96	267205	150.0	150.3	
21 112TCTFE	101	2.666	2.666	0.000	95	272172	150.0	154.3	
22 Acetone	43	2.708	2.708	0.000	99	128729	300.0	290.8	
23 Iodomethane	142	2.775	2.769	0.006	98	264409	150.0	162.6	
24 Carbon disulfide	76	2.836	2.830	0.006	100	794423	150.0	151.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	114198	1500.0	1402.7	
118 Acetonitrile	40	2.964	2.958	0.006	100	229730	1500.0	1376.5	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	79	186082	150.0	162.0	
26 Methyl acetate	43	3.031	3.031	0.000	98	341651	300.0	280.0	
27 Methylene Chloride	84	3.111	3.105	0.006	95	297867	150.0	141.6	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	158525	1500.0	1375.8	
30 Acrylonitrile	53	3.342	3.342	0.000	99	932977	1500.0	1495.2	
28 trans-1,2-Dichloroethene	96	3.379	3.373	0.006	96	320120	150.0	157.9	
29 Methyl tert-butyl ether	73	3.385	3.385	0.000	97	721382	150.0	153.4	
31 Hexane	57	3.653	3.653	0.000	95	413206	150.0	150.3	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	96	588499	150.0	154.8	
33 Vinyl acetate	86	3.836	3.836	0.000	97	120034	300.0	318.8	
34 2-Chloro-1,3-butadiene	53	3.854	3.854	0.000	94	570674	150.0	155.2	
36 Isopropyl ether	87	3.873	3.867	0.006	93	285228	150.0	154.1	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	920936	150.0	154.9	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	92	467030	150.0	155.7	
39 cis-1,2-Dichloroethene	96	4.324	4.324	0.000	88	356748	150.0	153.8	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	201245	300.0	278.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	99	351145	1500.0	1415.2	
104 Ethyl acetate	61	4.421	4.415	0.006	100	82353	300.0	289.9	
43 Methacrylonitrile	67	4.543	4.543	0.000	94	1065799	1500.0	1448.0	
42 Chlorobromomethane	128	4.549	4.549	0.000	96	136698	150.0	141.0	
44 Tetrahydrofuran	71	4.598	4.598	0.000	81	50732	300.0	294.6	
45 Chloroform	83	4.635	4.629	0.006	97	556220	150.0	139.9	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	98	507413	150.0	155.7	
47 Cyclohexane	56	4.854	4.848	0.006	93	586722	150.0	150.9	
48 Carbon tetrachloride	117	4.958	4.958	0.000	87	437207	150.0	155.0	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	463519	150.0	151.9	
108 Isobutyl alcohol	43	5.116	5.116	0.000	95	216458	3750.0	3517.2	
50 Benzene	78	5.153	5.153	0.000	97	1353344	150.0	151.6	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	416961	150.0	147.6	
116 n-Butanol	56	5.263	5.263	0.000	58	327034	3750.0	3768.4	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	797639	150.0	148.9	
53 n-Heptane	43	5.446	5.446	0.000	93	409601	150.0	147.6	
54 Trichloroethene	95	5.793	5.793	0.000	97	345027	150.0	151.2	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	330069	150.0	153.0	
114 Methylcyclohexane	83	5.988	5.988	0.000	93	561404	150.0	149.8	
55 1,2-Dichloropropane	63	6.006	6.006	0.000	93	329863	150.0	151.3	
56 Dibromomethane	93	6.122	6.116	0.006	96	171460	150.0	148.0	
115 1,4-Dioxane	58	6.153	6.153	0.000	92	37142	3000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	369629	300.0	297.9	
58 Dichlorobromomethane	83	6.287	6.287	0.000	99	411966	150.0	156.5	
106 2-Nitropropane	43	6.525	6.519	0.006	99	144550	300.0	377.9	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	186190	150.0	153.9	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	519632	150.0	164.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	478227	300.0	287.0	
62 Toluene	92	7.104	7.098	0.006	98	908469	150.0	149.6	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	96	469028	150.0	152.2	
64 Ethyl methacrylate	69	7.457	7.457	0.000	90	351773	150.0	148.3	
65 1,1,2-Trichloroethane	83	7.524	7.524	0.000	93	218875	150.0	151.0	
66 Tetrachloroethene	166	7.683	7.677	0.006	96	374289	150.0	149.7	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	463989	150.0	149.4	
68 2-Hexanone	43	7.817	7.817	0.000	97	315901	300.0	290.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	307574	150.0	159.0	
109 n-Butyl acetate	43	7.970	7.969	0.001	98	407719	150.0	142.9	
70 Ethylene Dibromide	107	8.055	8.055	0.000	98	270235	150.0	151.2	
71 Chlorobenzene	112	8.610	8.610	0.000	91	937906	150.0	142.3	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	96	324315	150.0	152.2	
73 Ethylbenzene	91	8.750	8.744	0.006	98	1726342	150.0	149.7	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	665198	150.0	148.1	a
75 o-Xylene	106	9.329	9.323	0.006	98	626337	150.0	146.5	
76 Styrene	104	9.341	9.341	0.000	95	1066367	150.0	150.6	
77 Bromoform	173	9.530	9.530	0.000	96	176253	150.0	153.6	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	1671006	150.0	150.3	
79 Bromobenzene	156	10.079	10.079	0.000	96	378854	150.0	140.5	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	300355	150.0	144.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	86	93956	150.0	135.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	94	87699	150.0	152.4	
83 N-Propylbenzene	91	10.237	10.237	0.000	99	1946827	150.0	152.0	
84 2-Chlorotoluene	91	10.323	10.317	0.006	96	1106175	150.0	147.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	1308877	150.0	148.2	
86 1,3,5-Trimethylbenzene	105	10.457	10.451	0.006	94	1321492	150.0	148.9	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	1139275	150.0	148.2	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	1322936	150.0	144.8	
89 sec-Butylbenzene	105	11.097	11.091	0.006	94	1664286	150.0	152.2	
90 1,3-Dichlorobenzene	146	11.201	11.194	0.007	98	696302	150.0	144.9	
91 4-Isopropyltoluene	119	11.280	11.274	0.006	97	1385446	150.0	154.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	695523	150.0	145.5	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	1292178	150.0	151.6	
113 Benzyl chloride	126	11.475	11.475	0.000	99	121624	150.0	156.8	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	97	645769	150.0	143.6	
94 n-Butylbenzene	91	11.768	11.761	0.007	98	1231038	150.0	156.0	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	94	45896	150.0	160.3	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	424780	150.0	154.6	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	348565	150.0	151.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	173590	150.0	155.3	
98 Naphthalene	128	13.981	13.980	0.001	97	751860	150.0	150.2	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	275840	150.0	150.6	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		300.0	311.7	
S 102 1,3-Dichloropropene, Total	1				0		300.0	317.0	
S 100 Xylenes, Total	1				0		300.0	294.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

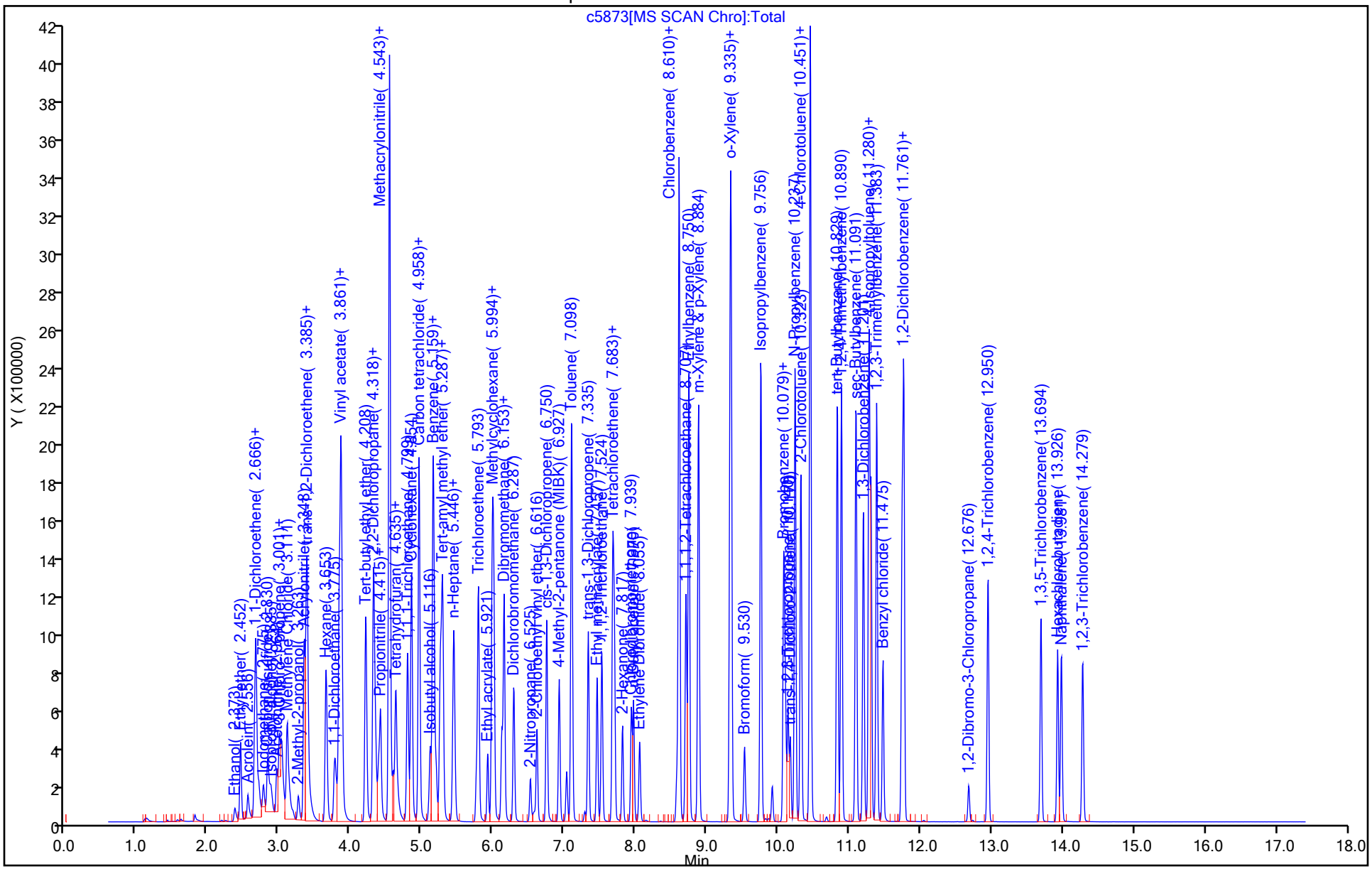
VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 150.00	Units: uL

Report Date: 13-Oct-2020 18:27:33 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D

Injection Date:	13-Oct-2020 11:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std9			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

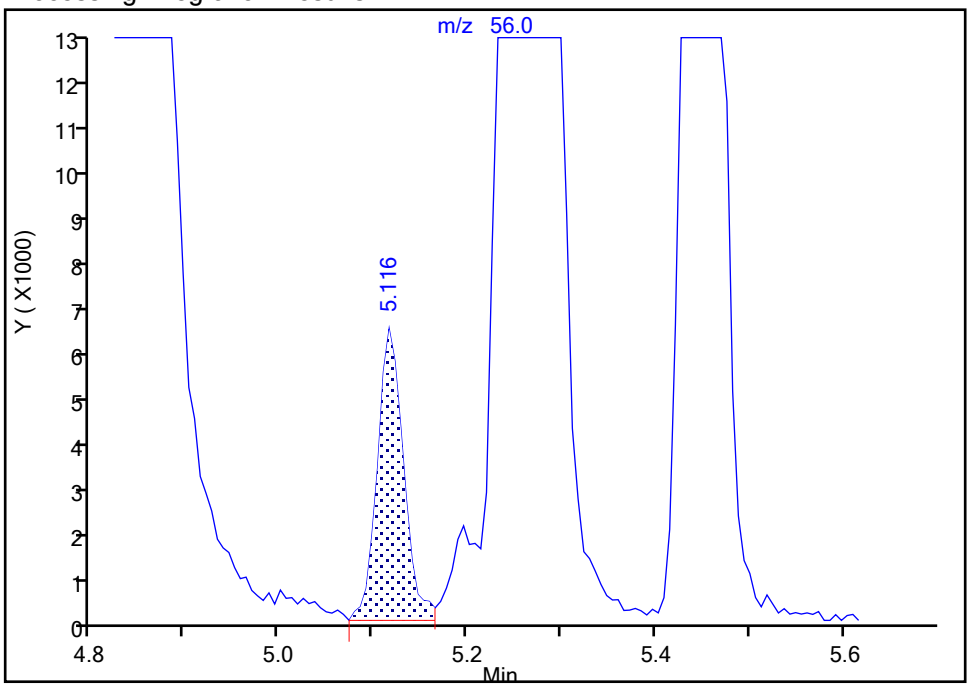
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Injection Date: 13-Oct-2020 11:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

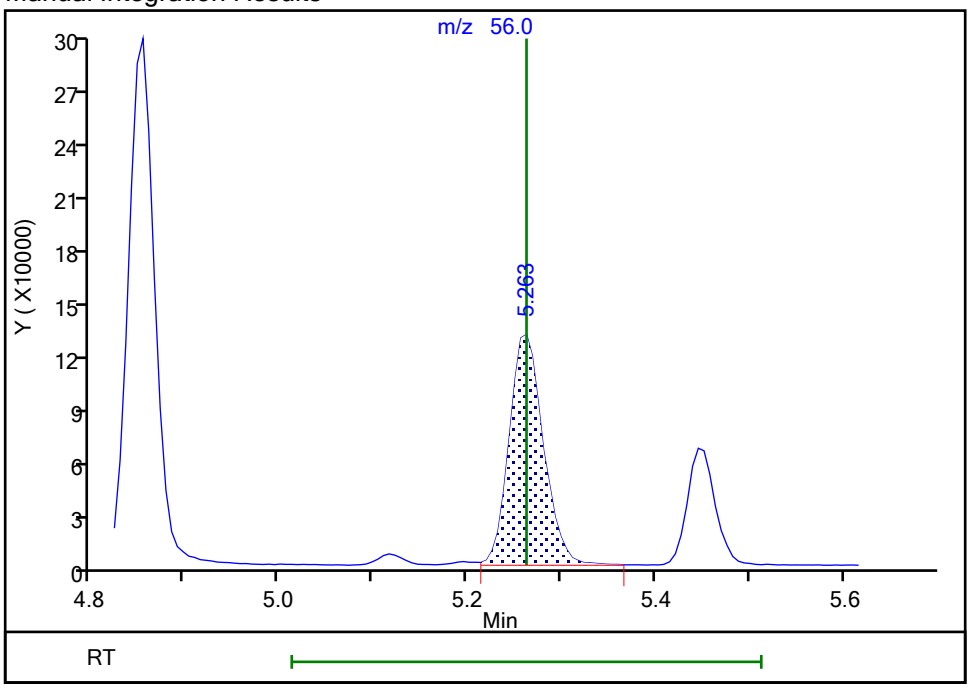
Processing Integration Results

RT: 5.12
Area: 12361
Amount: 220.5027
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 327034
Amount: 3768.3500
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:06:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

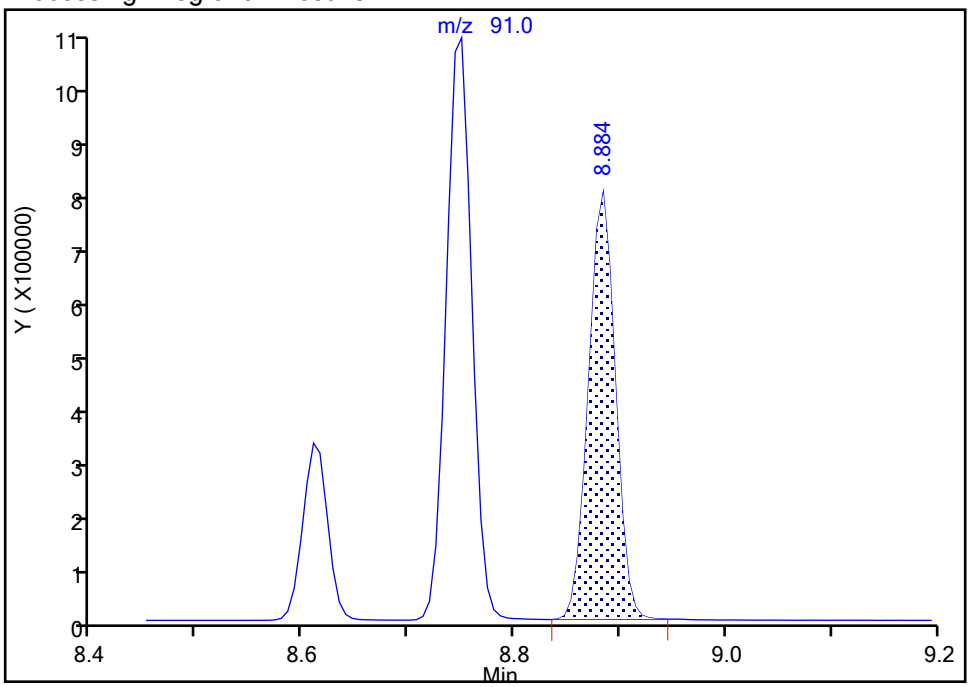
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D				
Injection Date:	13-Oct-2020 11:30:30	Instrument ID:	Calvin		
Lims ID:	std9				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	13	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

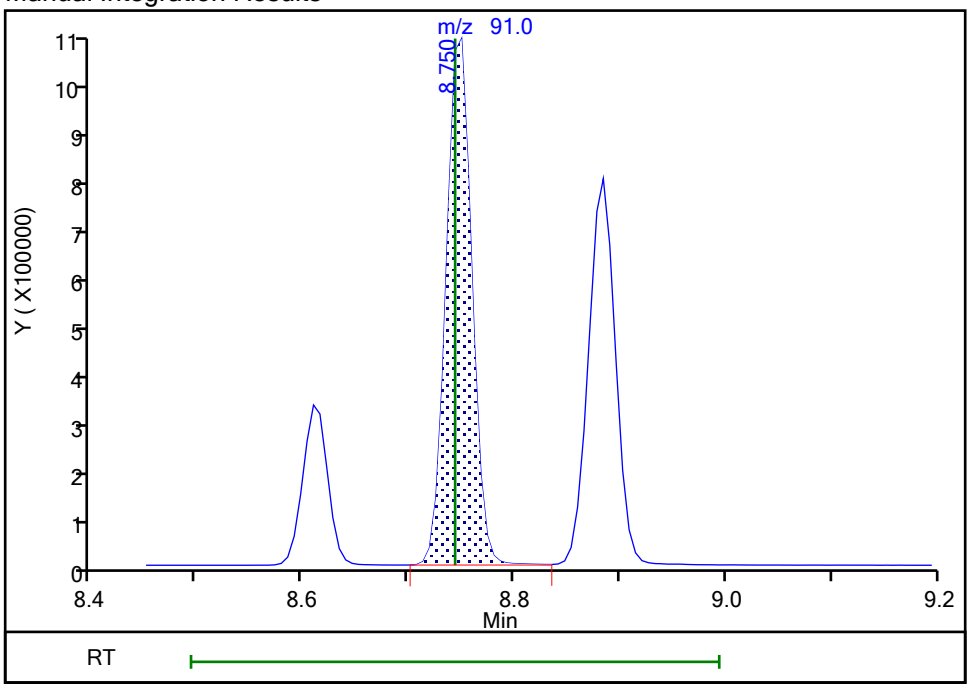
Processing Integration Results

RT: 8.88
Area: 1318920
Amount: 124.8552
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 1726342
Amount: 149.6504
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:06:08

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

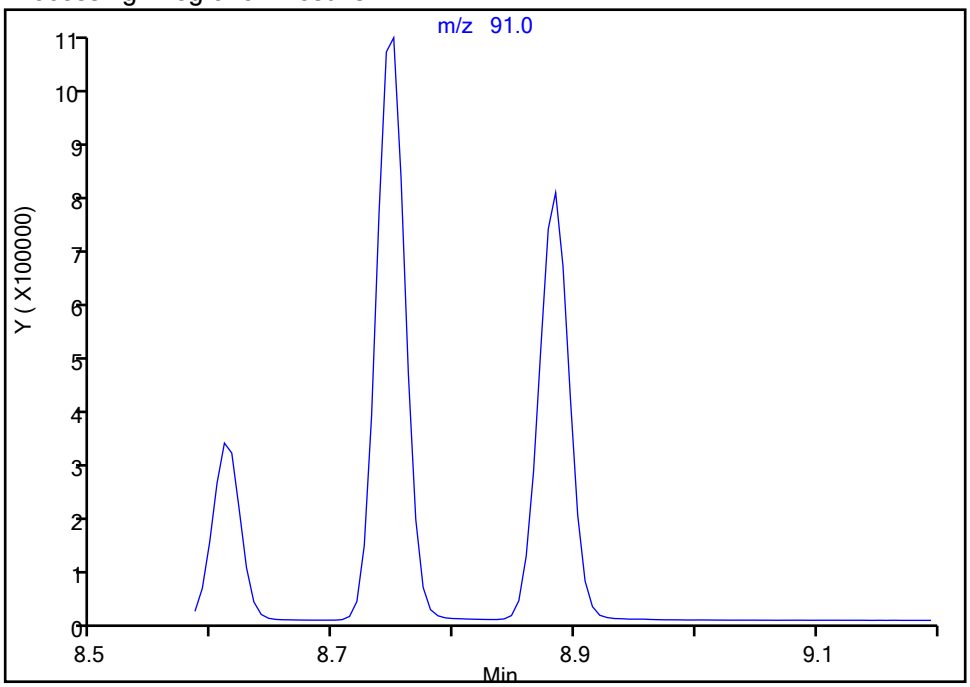
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5873.D
Injection Date: 13-Oct-2020 11:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

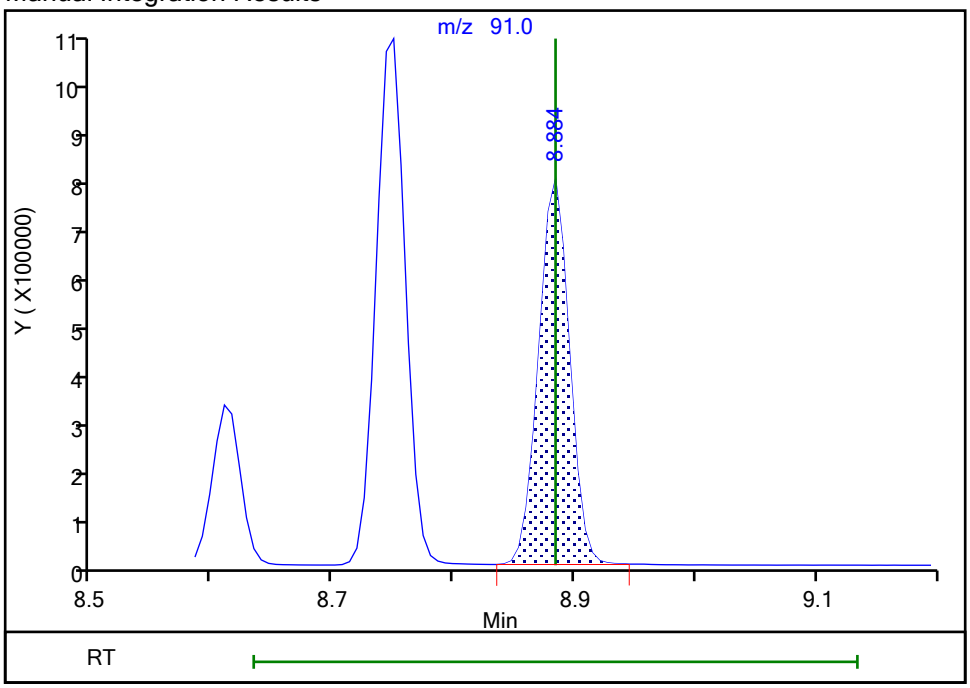
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 1318920
Amount: 148.1221
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:05:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 13-Oct-2020 11:55:30 ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:27:44 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:08:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	162997	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.104	0.006	95	7644	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	122687	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	50	58055	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	99	119684	8000.0	8443.5	
18 Ethyl ether	59	2.452	2.452	0.000	94	298566	200.0	216.7	
19 Acrolein	56	2.556	2.556	0.000	99	206827	951.8	986.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	96	366088	200.0	218.3	
21 112TCTFE	101	2.666	2.666	0.000	95	377961	200.0	227.1	
22 Acetone	43	2.708	2.708	0.000	99	168271	400.0	404.2	
23 Iodomethane	142	2.776	2.769	0.007	99	326157	200.0	212.7	
24 Carbon disulfide	76	2.836	2.830	0.006	100	1088335	200.0	219.3	
105 Isopropyl alcohol	45	2.879	2.885	-0.006	98	156610	2000.0	2039.0	
118 Acetonitrile	40	2.964	2.958	0.006	95	298576	2000.0	1896.4	a
25 3-Chloro-1-propene	76	3.001	3.001	0.000	81	244182	200.0	225.4	
26 Methyl acetate	43	3.032	3.031	0.001	98	453391	400.0	393.9	
27 Methylene Chloride	84	3.105	3.105	0.000	95	400344	200.0	201.7	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	217696	2000.0	2002.7	
30 Acrylonitrile	53	3.349	3.342	0.007	99	1248302	2000.0	2120.6	
28 trans-1,2-Dichloroethene	96	3.379	3.373	0.006	96	427320	200.0	223.4	
29 Methyl tert-butyl ether	73	3.391	3.385	0.006	97	971336	200.0	218.9	
31 Hexane	57	3.653	3.653	0.000	94	581122	200.0	224.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	798918	200.0	222.7	
33 Vinyl acetate	86	3.836	3.836	0.000	99	161865	400.0	455.6	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	94	787903	200.0	227.1	
36 Isopropyl ether	87	3.867	3.867	0.000	91	371279	200.0	212.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	1235473	200.0	220.3	
38 2,2-Dichloropropane	77	4.318	4.318	0.000	92	636194	200.0	224.8	
39 cis-1,2-Dichloroethene	96	4.330	4.324	0.006	88	475897	200.0	217.5	
40 2-Butanone (MEK)	43	4.342	4.342	0.000	100	270827	400.0	396.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	99	470953	2000.0	2012.0	
104 Ethyl acetate	61	4.415	4.415	0.000	100	111574	400.0	416.3	
43 Methacrylonitrile	67	4.550	4.543	0.007	94	1427644	2000.0	2056.0	
42 Chlorobromomethane	128	4.550	4.549	0.001	96	176667	200.0	193.2	
44 Tetrahydrofuran	71	4.598	4.598	0.000	93	66548	400.0	409.6	
45 Chloroform	83	4.635	4.629	0.006	97	754824	200.0	201.2	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	98	696226	200.0	226.4	
47 Cyclohexane	56	4.854	4.848	0.006	93	814904	200.0	222.2	
48 Carbon tetrachloride	117	4.958	4.958	0.000	87	603475	200.0	226.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	91	626437	200.0	217.6	
108 Isobutyl alcohol	43	5.117	5.116	0.000	94	291625	5000.0	5022.9	
50 Benzene	78	5.159	5.153	0.006	97	1828665	200.0	217.1	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	567476	200.0	212.9	
116 n-Butanol	56	5.263	5.263	0.000	58	447648	5000.0	5467.6	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	1068336	200.0	211.3	
53 n-Heptane	43	5.446	5.446	0.000	93	564880	200.0	215.8	
54 Trichloroethene	95	5.793	5.793	0.000	97	470196	200.0	218.4	
117 Ethyl acrylate	55	5.921	5.921	0.000	98	440304	200.0	216.4	
114 Methylcyclohexane	83	5.988	5.988	0.000	93	774861	200.0	219.2	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	93	449040	200.0	218.3	
56 Dibromomethane	93	6.122	6.116	0.006	96	224693	200.0	205.6	
115 1,4-Dioxane	58	6.159	6.153	0.006	98	50608	4000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	93	490835	400.0	419.3	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	561520	200.0	226.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	201806	400.0	559.3	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	247569	200.0	217.0	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	707454	200.0	237.9	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	640642	400.0	407.5	
62 Toluene	92	7.104	7.098	0.006	97	1205515	200.0	210.5	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	97	636840	200.0	218.9	
64 Ethyl methacrylate	69	7.458	7.457	0.001	89	476733	200.0	213.1	
65 1,1,2-Trichloroethane	83	7.525	7.524	0.001	93	294668	200.0	215.5	
66 Tetrachloroethene	166	7.683	7.677	0.006	96	498635	200.0	211.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	95	614765	200.0	209.8	
68 2-Hexanone	43	7.817	7.817	0.000	98	420569	400.0	409.5	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	413885	200.0	226.8	
109 n-Butyl acetate	43	7.970	7.969	0.001	99	541266	200.0	201.1	
70 Ethylene Dibromide	107	8.055	8.055	0.000	98	356689	200.0	211.5	
71 Chlorobenzene	112	8.610	8.610	0.000	90	1253361	200.0	203.7	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	430882	200.0	216.6	
73 Ethylbenzene	91	8.750	8.744	0.006	98	2302794	200.0	213.9	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	881949	200.0	210.4	a
75 o-Xylene	106	9.329	9.323	0.006	98	844682	200.0	211.7	
76 Styrene	104	9.341	9.341	0.000	93	1435489	200.0	217.2	
77 Bromoform	173	9.530	9.530	0.000	95	240686	200.0	224.8	
78 Isopropylbenzene	105	9.756	9.756	0.000	96	2251337	200.0	216.9	
79 Bromobenzene	156	10.079	10.079	0.000	96	501867	200.0	199.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	398669	200.0	205.6	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	87	123377	200.0	191.0	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	89	116968	200.0	217.7	
83 N-Propylbenzene	91	10.244	10.237	0.007	99	2598529	200.0	217.3	
84 2-Chlorotoluene	91	10.323	10.317	0.006	95	1483757	200.0	211.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	1765116	200.0	214.1	
86 1,3,5-Trimethylbenzene	105	10.457	10.451	0.006	94	1785375	200.0	215.6	
87 tert-Butylbenzene	119	10.835	10.829	0.006	93	1523388	200.0	212.2	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	1786213	200.0	209.4	
89 sec-Butylbenzene	105	11.097	11.091	0.006	95	2249763	200.0	220.4	
90 1,3-Dichlorobenzene	146	11.201	11.194	0.007	98	920200	200.0	205.2	
91 4-Isopropyltoluene	119	11.280	11.274	0.006	97	1876962	200.0	217.2	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	923470	200.0	200.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.383	0.001	99	1734226	200.0	210.9	
113 Benzyl chloride	126	11.475	11.475	0.000	99	165299	200.0	221.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	96	860941	200.0	198.5	
94 n-Butylbenzene	91	11.768	11.761	0.007	98	1652224	200.0	217.1	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	85	60609	200.0	219.5	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	561538	200.0	212.0	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	453613	200.0	205.0	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	228752	200.0	212.3	
98 Naphthalene	128	13.981	13.980	0.001	97	992752	200.0	205.7	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	364999	200.0	206.6	
132 t-Amyl alcohol	1		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		400.0	440.9	
S 102 1,3-Dichloropropene, Total	1				0		400.0	456.7	
S 100 Xylenes, Total	1				0		400.0	422.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

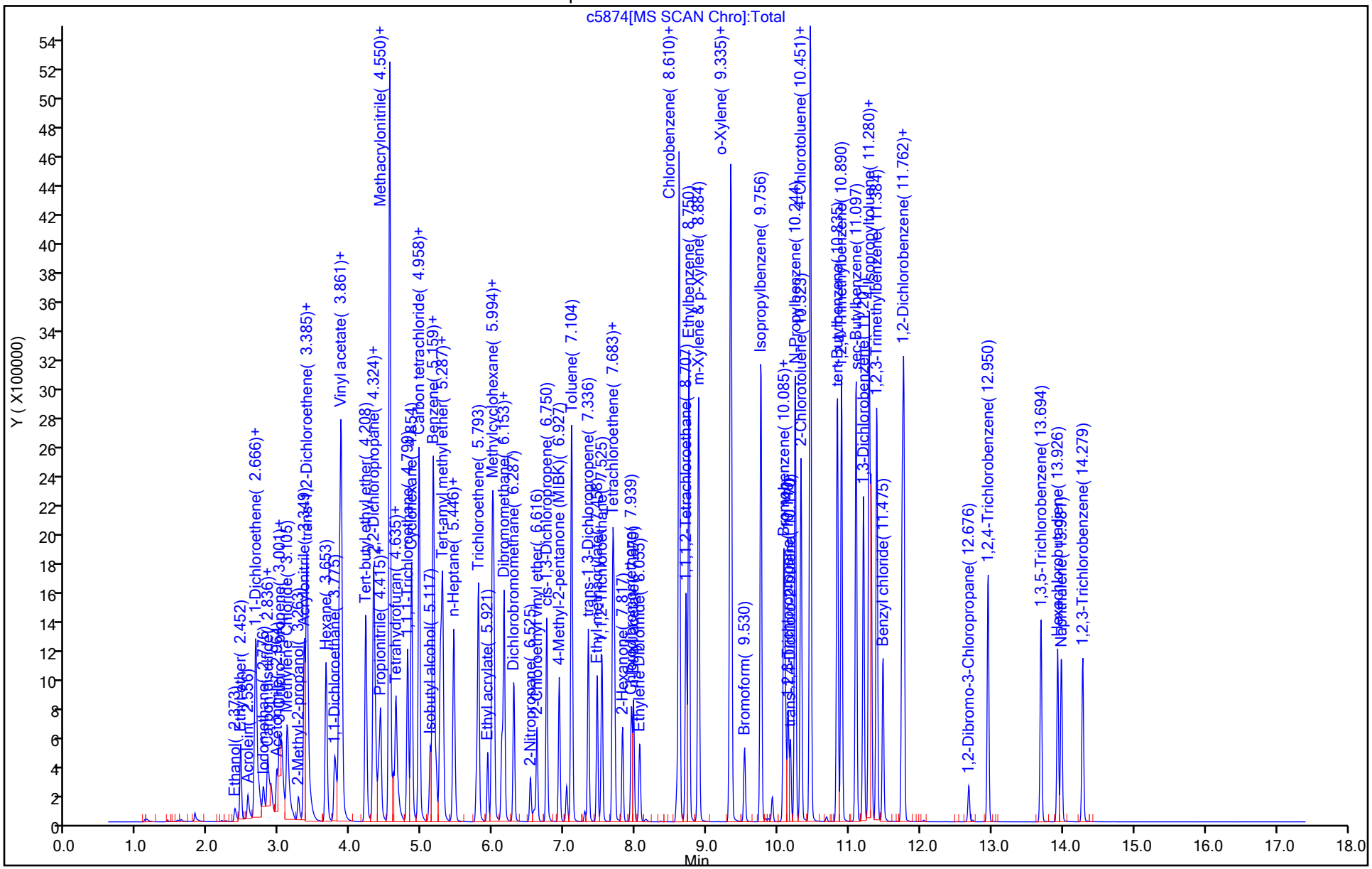
Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 200.00	Units: uL

Report Date: 13-Oct-2020 18:27:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D				
Injection Date:	13-Oct-2020 11:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std10			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

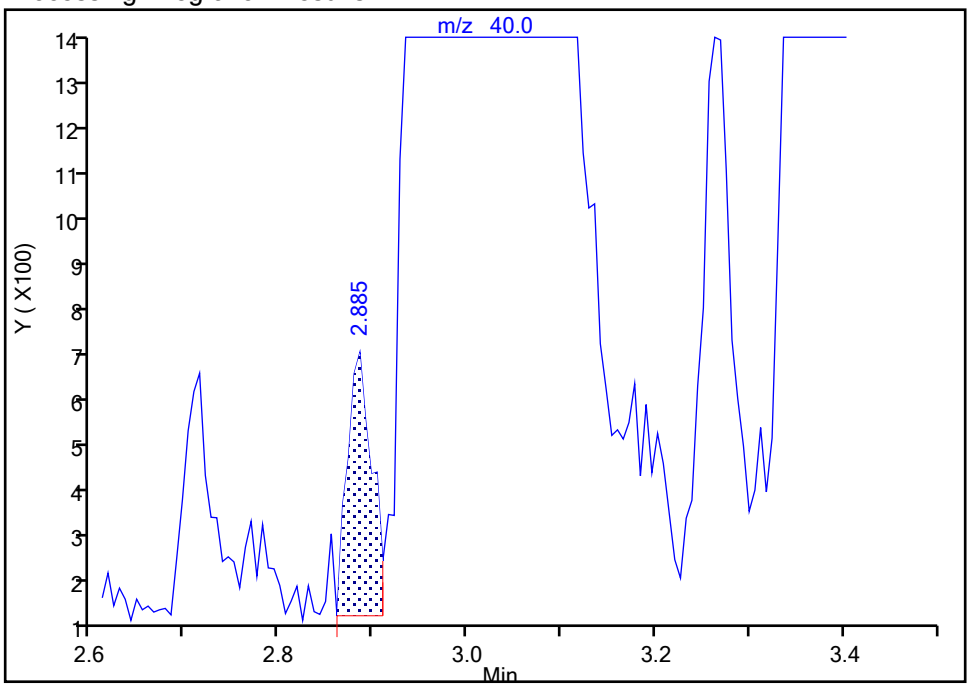
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

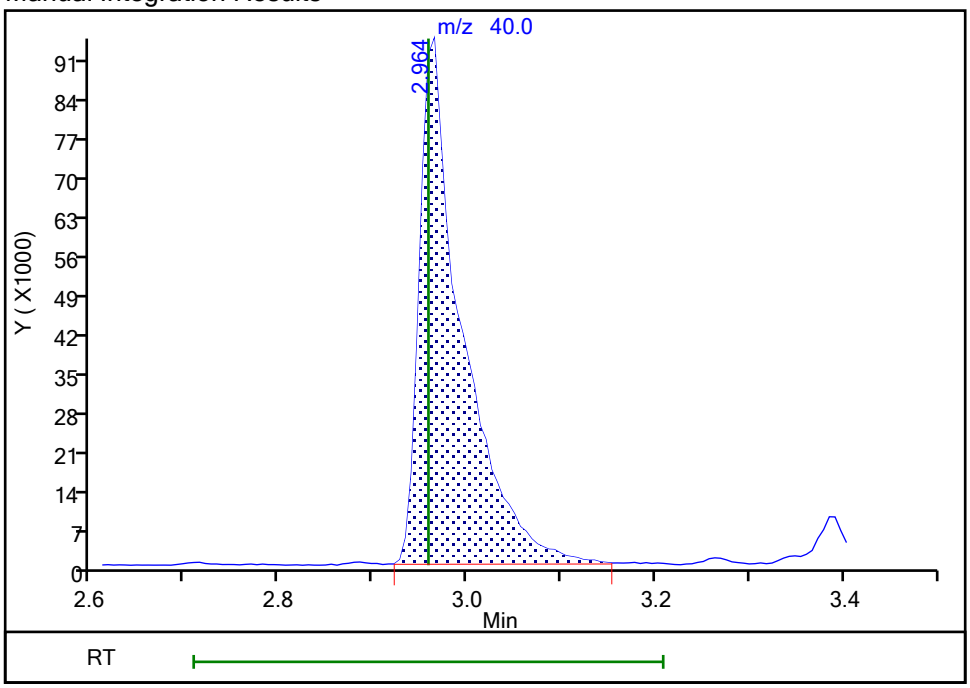
Processing Integration Results

RT: 2.89
Area: 1041
Amount: 7.681900
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 298576
Amount: 1896.4087
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

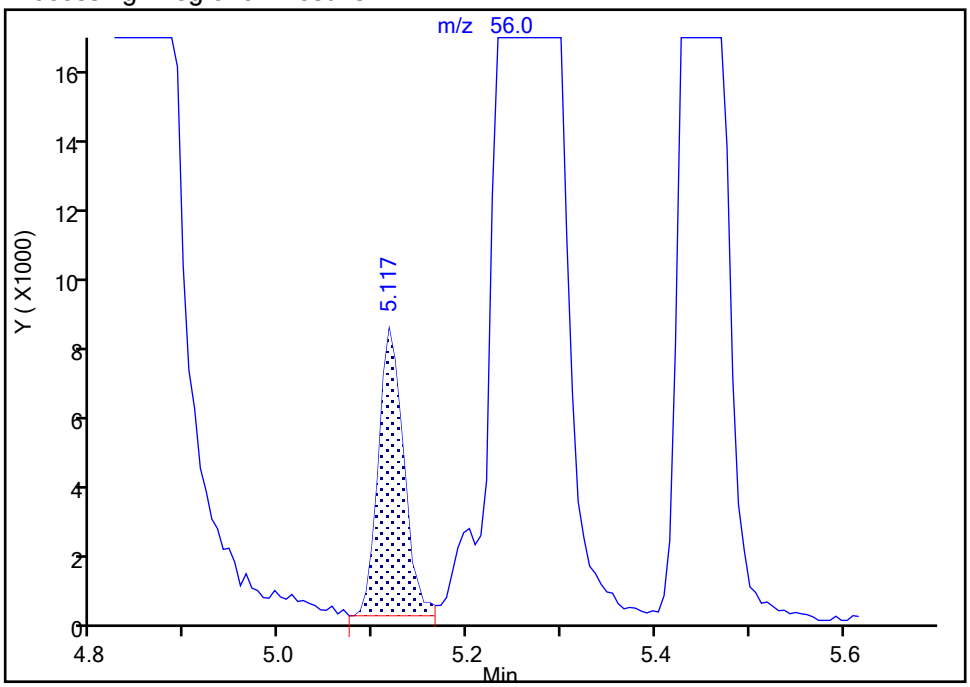
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

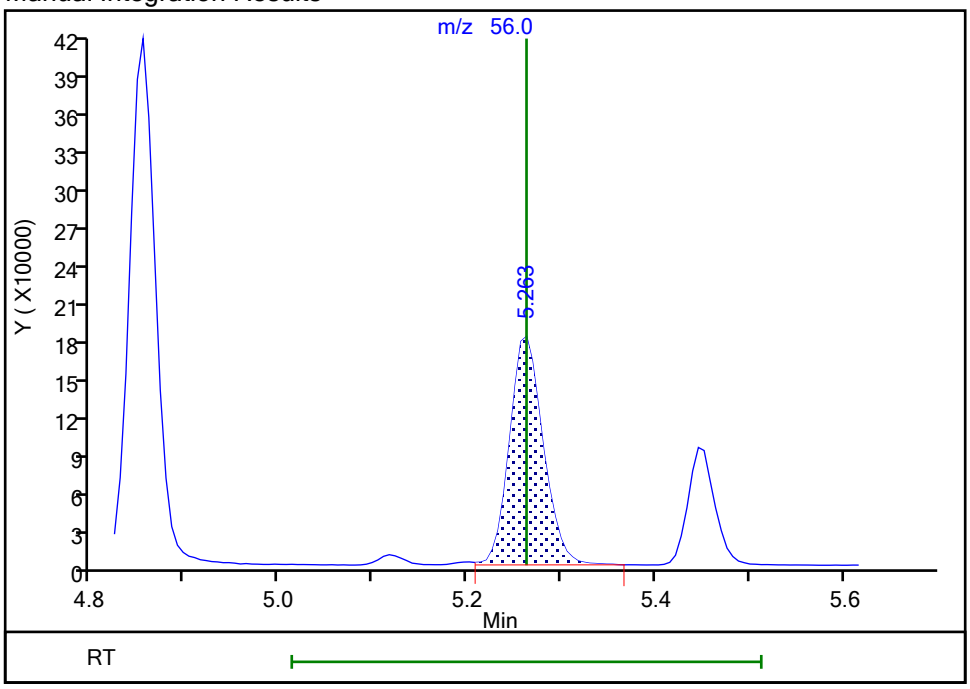
Processing Integration Results

RT: 5.12
Area: 15356
Amount: 255.5837
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 447648
Amount: 5467.6258
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

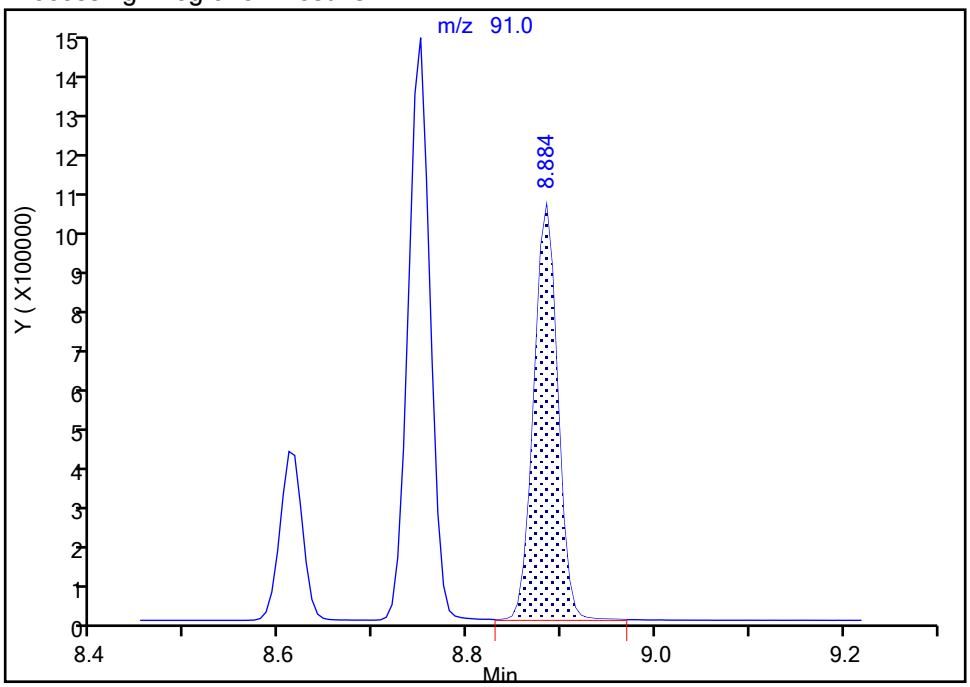
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

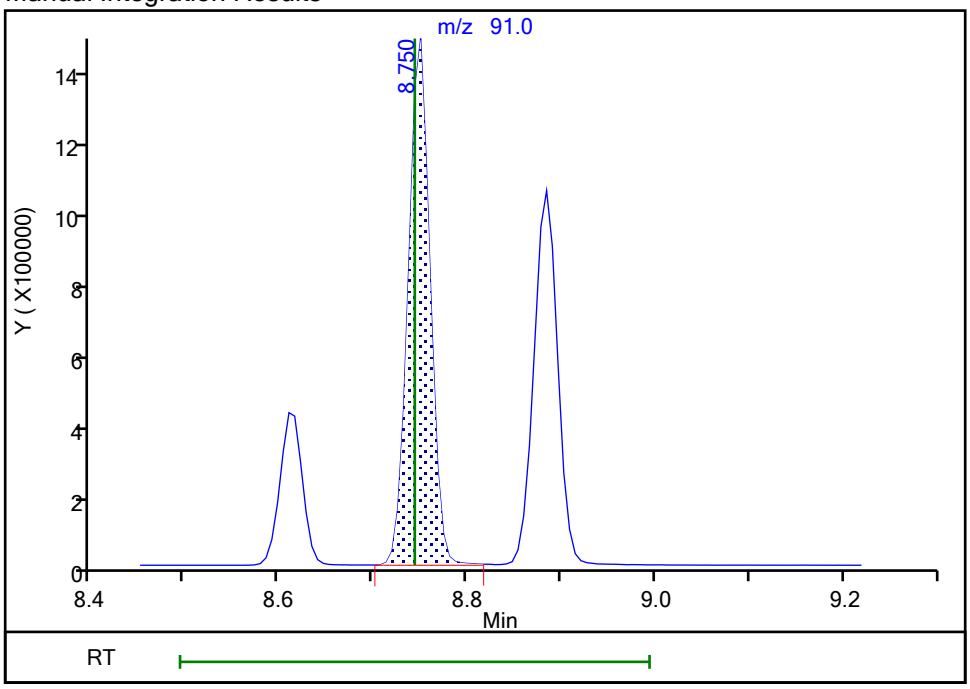
Processing Integration Results

RT: 8.88
Area: 1787470
Amount: 177.1365
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 2302794
Amount: 213.8563
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

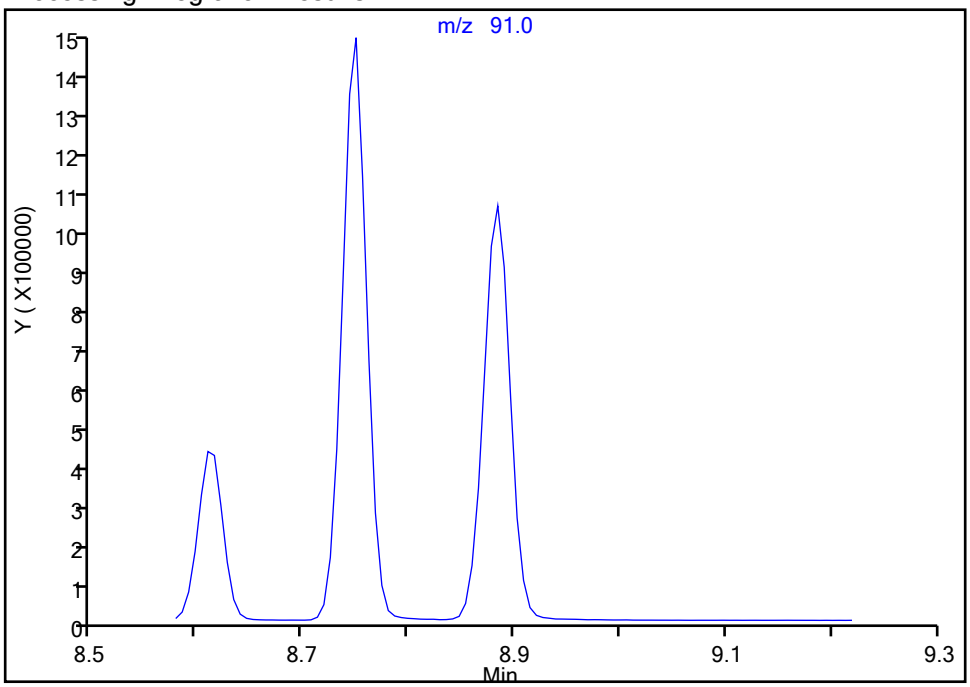
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5874.D
Injection Date: 13-Oct-2020 11:55:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

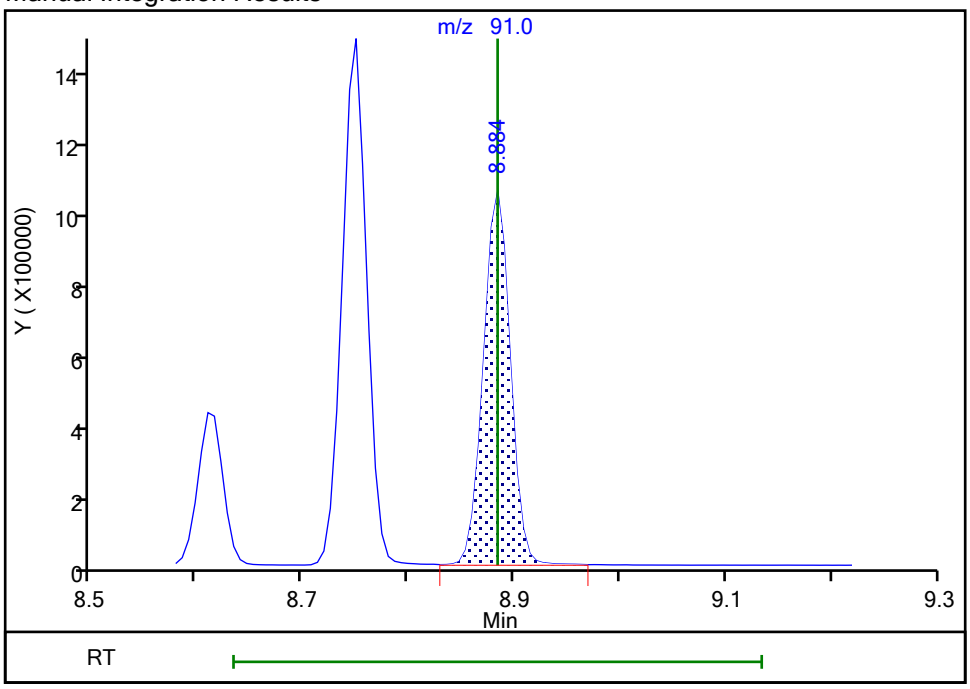
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 1787470
Amount: 210.3915
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:07:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 13-Oct-2020 12:19:30 ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:28:00 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 17:09:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	169584	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.104	0.006	23	7917	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	125533	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	47	58870	50.0	50.0	
17 Ethanol	45	2.373	2.373	0.000	100	144217	10000	9779.1	
18 Ethyl ether	59	2.458	2.452	0.006	94	384793	250.0	268.4	
19 Acrolein	56	2.556	2.556	0.000	99	266433	1189.8	1221.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	464156	250.0	266.1	
21 112TCTFE	101	2.672	2.666	0.006	96	485273	250.0	280.3	
22 Acetone	43	2.708	2.708	0.000	99	225662	500.0	522.0	
23 Iodomethane	142	2.776	2.769	0.007	98	387251	250.0	242.7	
24 Carbon disulfide	76	2.836	2.830	0.006	100	1378380	250.0	266.9	
105 Isopropyl alcohol	45	2.885	2.885	0.000	98	193100	2500.0	2416.5	
118 Acetonitrile	40	2.964	2.958	0.006	99	382505	2500.0	2335.1	
25 3-Chloro-1-propene	76	3.001	3.001	0.000	87	317309	250.0	281.5	
26 Methyl acetate	43	3.032	3.031	0.001	98	587283	500.0	490.4	
27 Methylene Chloride	84	3.111	3.105	0.006	96	508797	250.0	246.4	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	266006	2500.0	2352.1	
30 Acrylonitrile	53	3.349	3.342	0.007	98	1604328	2500.0	2619.5	
28 trans-1,2-Dichloroethene	96	3.385	3.373	0.012	96	544308	250.0	273.5	
29 Methyl tert-butyl ether	73	3.391	3.385	0.006	98	1263087	250.0	273.7	
31 Hexane	57	3.653	3.653	0.000	95	740402	250.0	274.4	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	97	1013362	250.0	271.5	
33 Vinyl acetate	86	3.842	3.836	0.006	97	209497	500.0	566.8	
34 2-Chloro-1,3-butadiene	53	3.861	3.854	0.007	96	1017778	250.0	282.0	
36 Isopropyl ether	87	3.873	3.867	0.006	91	484165	250.0	266.4	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	98	1610503	250.0	276.0	
38 2,2-Dichloropropane	77	4.324	4.318	0.006	92	826438	250.0	280.7	
39 cis-1,2-Dichloroethene	96	4.330	4.324	0.006	85	599338	250.0	263.2	
40 2-Butanone (MEK)	43	4.348	4.342	0.006	100	343182	500.0	483.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.397	4.391	0.006	99	592518	2500.0	2433.0	
104 Ethyl acetate	61	4.422	4.415	0.007	100	153061	500.0	549.0	
43 Methacrylonitrile	67	4.550	4.543	0.007	94	1838957	2500.0	2545.4	
42 Chlorobromomethane	128	4.556	4.549	0.007	96	220182	250.0	231.4	
44 Tetrahydrofuran	71	4.604	4.598	0.006	81	84674	500.0	500.9	
45 Chloroform	83	4.641	4.629	0.012	97	961757	250.0	246.4	
46 1,1,1-Trichloroethane	97	4.799	4.793	0.006	99	897749	250.0	280.6	
47 Cyclohexane	56	4.854	4.848	0.006	93	1043474	250.0	273.5	
48 Carbon tetrachloride	117	4.964	4.958	0.006	87	770898	250.0	278.5	
49 1,1-Dichloropropene	75	4.964	4.958	0.006	90	798317	250.0	266.5	
108 Isobutyl alcohol	43	5.117	5.116	0.000	95	364011	6250.0	6026.1	
50 Benzene	78	5.159	5.153	0.006	97	2317477	250.0	264.5	
51 1,2-Dichloroethane	62	5.171	5.171	0.000	97	736768	250.0	265.7	
116 n-Butanol	56	5.263	5.263	0.000	64	571159	6250.0	6705.2	a
52 Tert-amyl methyl ether	73	5.293	5.287	0.006	97	1375681	250.0	261.6	
53 n-Heptane	43	5.446	5.446	0.000	93	715764	250.0	262.8	
54 Trichloroethene	95	5.793	5.793	0.000	97	607159	250.0	271.1	
117 Ethyl acrylate	55	5.921	5.921	0.000	99	570579	250.0	269.5	
114 Methylcyclohexane	83	5.988	5.988	0.000	93	982937	250.0	267.2	
55 1,2-Dichloropropane	63	6.013	6.006	0.007	95	569883	250.0	266.3	
56 Dibromomethane	93	6.122	6.116	0.006	96	278956	250.0	245.3	
115 1,4-Dioxane	58	6.159	6.153	0.006	32	60627	5000.0	0	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	633981	500.0	520.6	
58 Dichlorobromomethane	83	6.293	6.287	0.006	99	727919	250.0	281.7	
106 2-Nitropropane	43	6.525	6.519	0.006	99	264364	500.0	704.2	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	320975	250.0	270.4	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	93	902811	250.0	291.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	824007	500.0	503.8	
62 Toluene	92	7.104	7.098	0.006	97	1538700	250.0	258.2	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	97	818090	250.0	270.2	
64 Ethyl methacrylate	69	7.464	7.457	0.007	90	611318	250.0	262.6	
65 1,1,2-Trichloroethane	83	7.525	7.524	0.001	93	373824	250.0	262.7	
66 Tetrachloroethene	166	7.683	7.677	0.006	95	621264	250.0	253.1	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	95	783956	250.0	257.1	
68 2-Hexanone	43	7.817	7.817	0.000	98	541233	500.0	506.5	
69 Chlorodibromomethane	129	7.945	7.939	0.006	90	529757	250.0	279.0	
109 n-Butyl acetate	43	7.970	7.969	0.001	98	700054	250.0	250.0	
70 Ethylene Dibromide	107	8.055	8.055	0.000	98	451068	250.0	257.1	
71 Chlorobenzene	112	8.610	8.610	0.000	91	1577563	250.0	250.6	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	546096	250.0	268.3	
73 Ethylbenzene	91	8.750	8.744	0.006	98	2901779	250.0	263.4	a
74 m-Xylene & p-Xylene	106	8.884	8.884	0.000	99	1116451	250.0	260.3	a
75 o-Xylene	106	9.329	9.323	0.006	98	1063985	250.0	260.6	
76 Styrene	104	9.347	9.341	0.006	95	1820064	250.0	269.1	
77 Bromoform	173	9.530	9.530	0.000	95	305575	250.0	278.9	
78 Isopropylbenzene	105	9.762	9.756	0.006	96	2818535	250.0	265.4	
79 Bromobenzene	156	10.079	10.079	0.000	97	627734	250.0	243.7	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	96	502162	250.0	253.1	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	157048	250.0	237.6	
82 trans-1,4-Dichloro-2-butene	53	10.176	10.170	0.006	90	153844	250.0	279.8	
83 N-Propylbenzene	91	10.244	10.237	0.007	99	3236015	250.0	264.4	
84 2-Chlorotoluene	91	10.323	10.317	0.006	95	1823817	250.0	254.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	2220113	250.0	263.2	
86 1,3,5-Trimethylbenzene	105	10.457	10.451	0.006	94	2236003	250.0	263.9	
87 tert-Butylbenzene	119	10.835	10.829	0.006	93	1904173	250.0	259.3	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	2229026	250.0	255.4	
89 sec-Butylbenzene	105	11.097	11.091	0.006	95	2788442	250.0	267.0	
90 1,3-Dichlorobenzene	146	11.201	11.194	0.007	98	1153950	250.0	251.5	
91 4-Isopropyltoluene	119	11.280	11.274	0.006	97	2343928	250.0	267.5	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	94	1157395	250.0	247.6	
110 1,2,3-Trimethylbenzene	105	11.390	11.383	0.007	99	2180658	250.0	261.6	
113 Benzyl chloride	126	11.475	11.475	0.000	99	212334	250.0	280.0	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	96	1081640	250.0	245.9	
94 n-Butylbenzene	91	11.768	11.761	0.007	98	2056899	250.0	266.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	85	76750	250.0	274.1	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	692684	250.0	257.9	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	97	566644	250.0	252.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	97	287521	250.0	263.1	
98 Naphthalene	128	13.981	13.980	0.001	97	1236700	250.0	252.7	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	452443	250.0	252.6	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		500.0	536.7	
S 102 1,3-Dichloropropene, Total	1				0		500.0	561.9	
S 100 Xylenes, Total	1				0		500.0	520.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 250.00	Units: uL

Report Date: 13-Oct-2020 18:28:03 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D

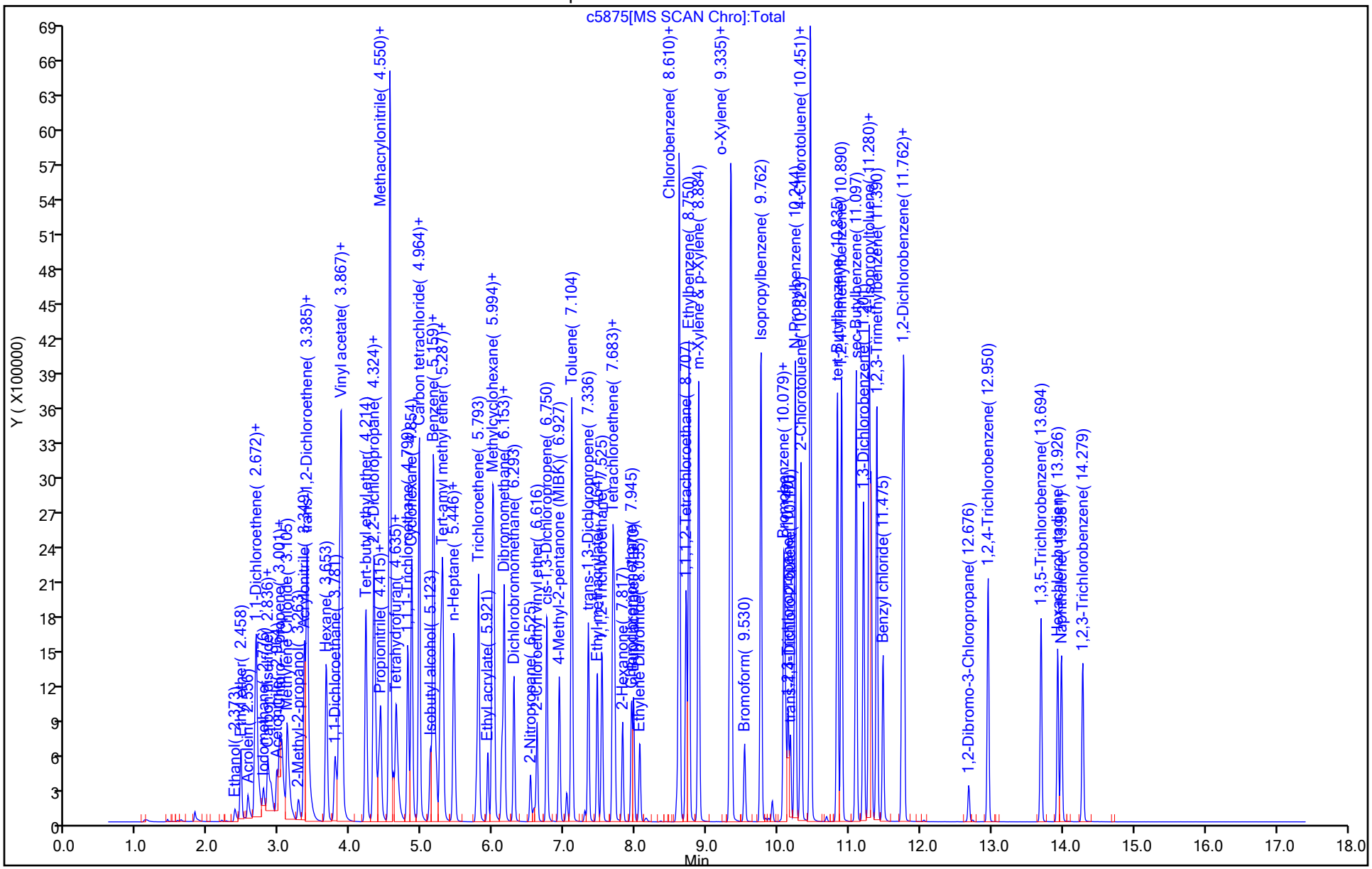
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: std11 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

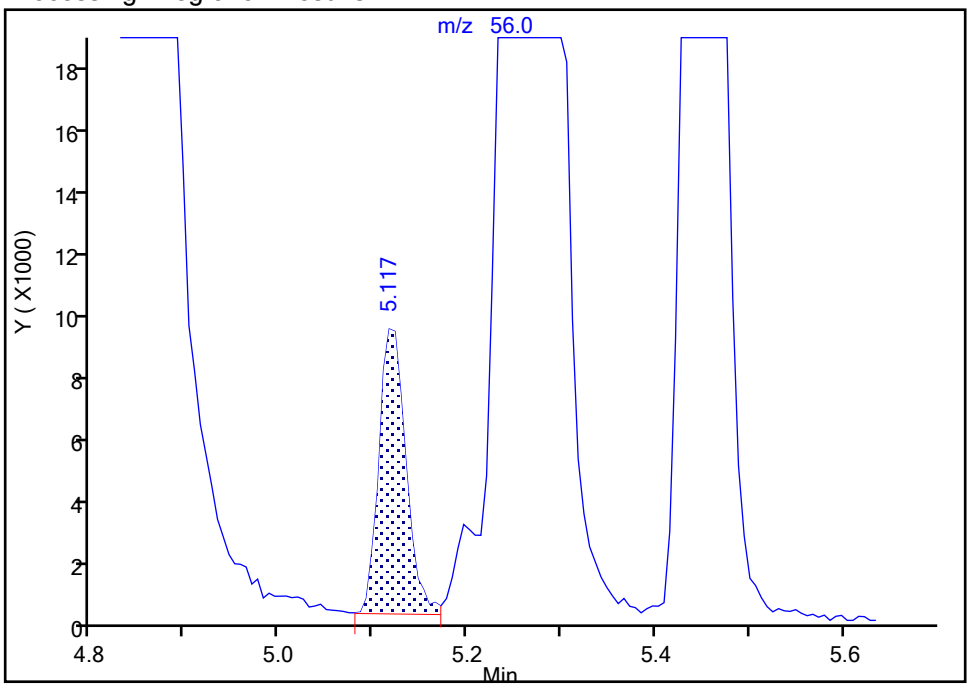
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

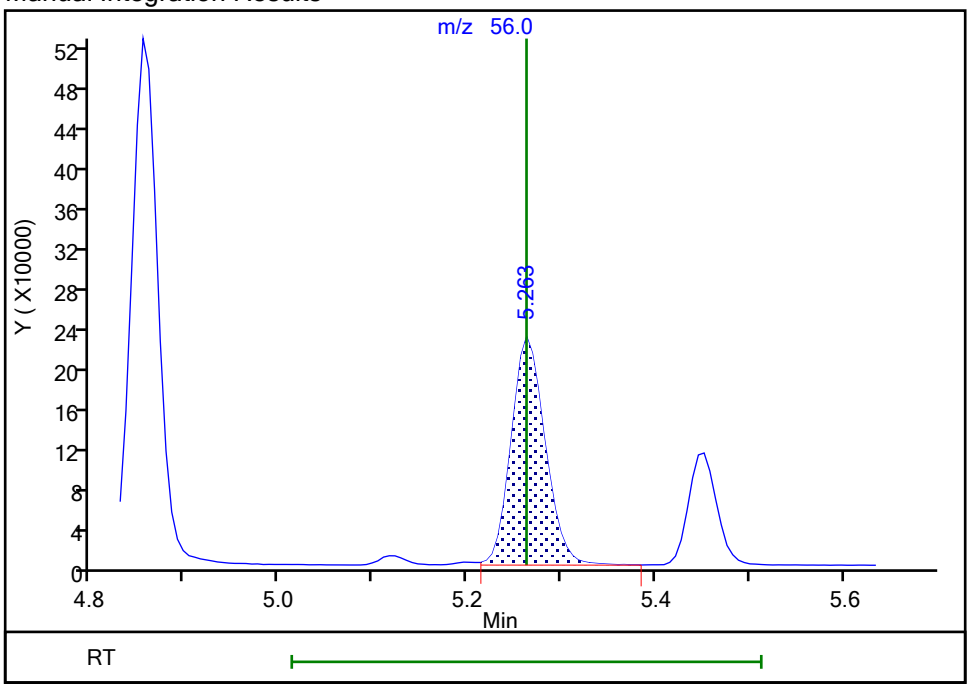
Processing Integration Results

RT: 5.12
Area: 18488
Amount: 261.5452
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 571159
Amount: 6705.2333
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:09:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

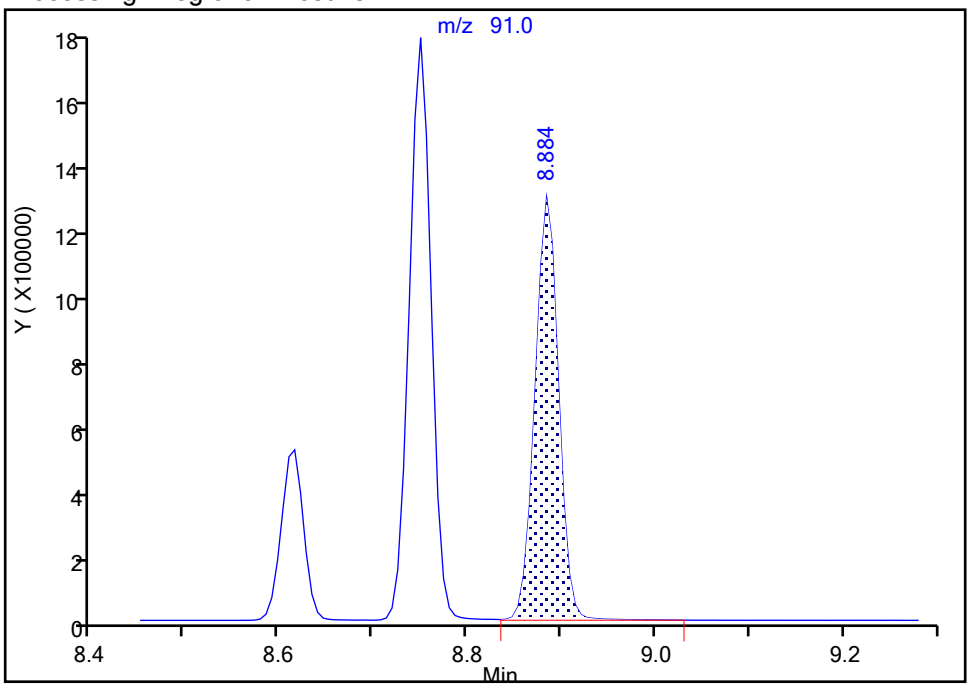
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

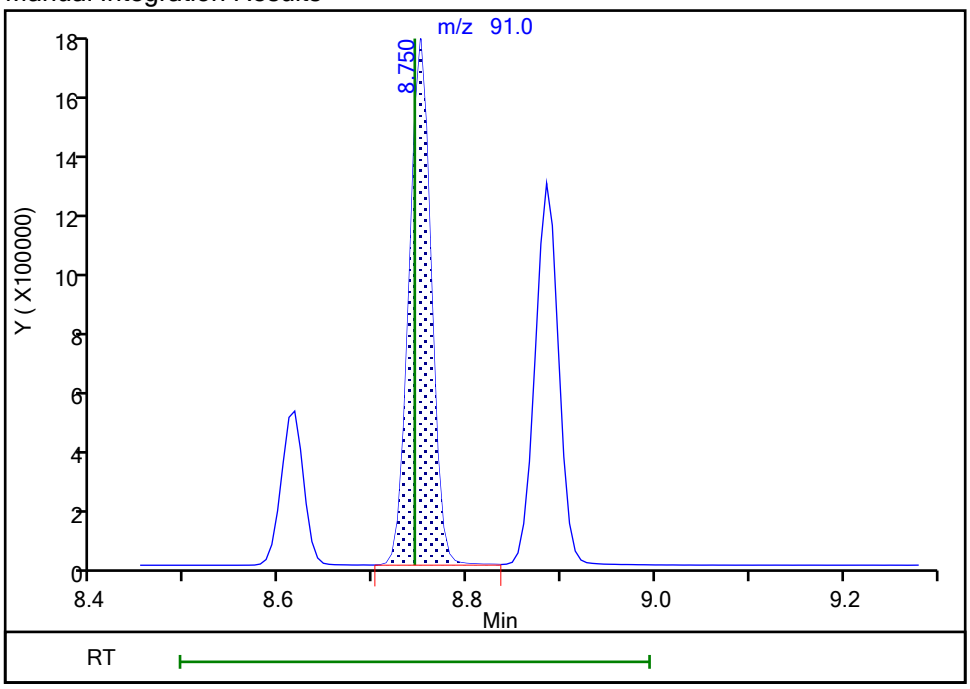
Processing Integration Results

RT: 8.88
Area: 2253626
Amount: 213.3172
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 2901779
Amount: 263.3734
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:09:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

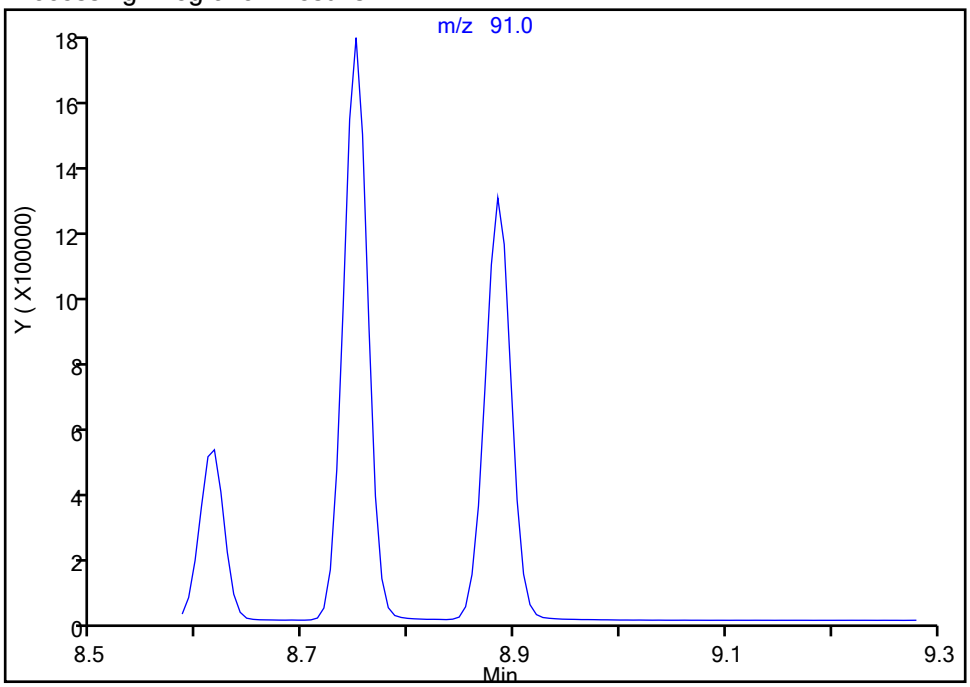
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5875.D
Injection Date: 13-Oct-2020 12:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

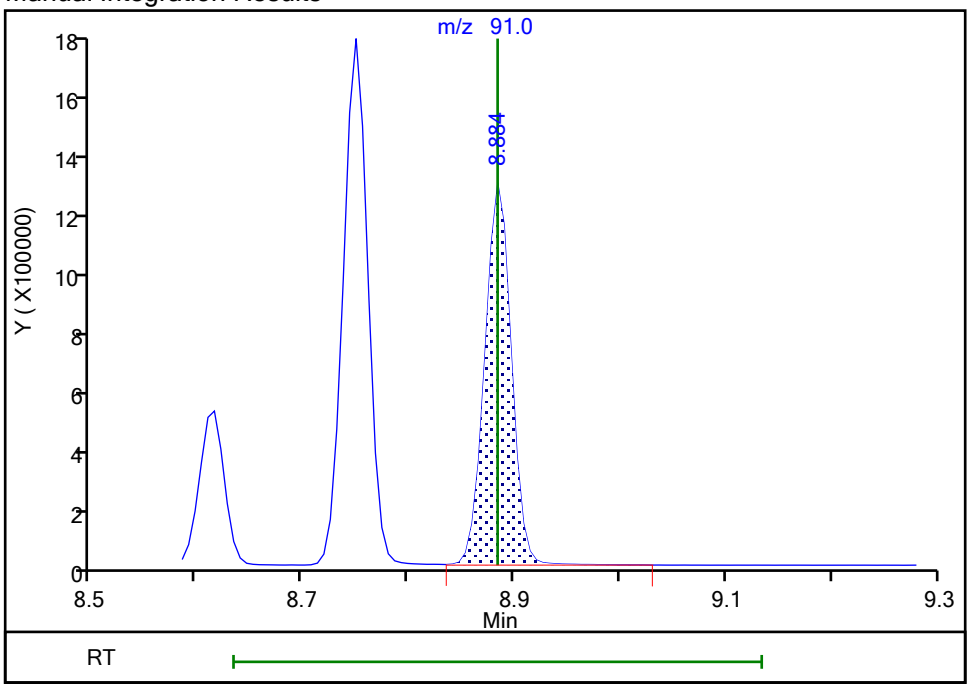
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 2253626
Amount: 260.2945
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:08:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 13-Oct-2020 12:43:30 ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub46

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:28:15 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:25:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	173049	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.104	0.012	29	10450	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	88	129499	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	47	61099	50.0	50.0	a
17 Ethanol	45	2.379	2.373	0.006	100	289149	20000	19214	
18 Ethyl ether	59	2.458	2.452	0.006	92	765976	500.0	523.6	
19 Acrolein	56	2.556	2.556	0.000	98	538297	2379.6	2418.8	
20 1,1-Dichloroethene	96	2.653	2.647	0.006	96	903993	500.0	507.8	
21 112TCTFE	101	2.678	2.666	0.012	96	994689	500.0	563.0	
22 Acetone	43	2.708	2.708	0.000	99	447694	1000.0	1018.0	
23 Iodomethane	142	2.775	2.769	0.006	98	668560	500.0	410.6	
24 Carbon disulfide	76	2.836	2.830	0.006	100	2730049	500.0	518.0	
105 Isopropyl alcohol	45	2.885	2.885	0.000	99	391322	5000.0	4799.0	
118 Acetonitrile	40	2.964	2.958	0.006	98	756184	5000.0	4523.9	a
25 3-Chloro-1-propene	76	3.001	3.001	0.000	88	601341	500.0	522.8	
26 Methyl acetate	43	3.031	3.031	0.000	98	1191325	1000.0	974.8	
27 Methylene Chloride	84	3.111	3.105	0.006	95	1002379	500.0	475.7	
35 2-Methyl-2-propanol	59	3.269	3.263	0.006	99	543563	5000.0	4710.1	
30 Acrylonitrile	53	3.355	3.342	0.013	99	3246937	5000.0	5195.4	
28 trans-1,2-Dichloroethene	96	3.385	3.373	0.012	95	1076950	500.0	530.4	
29 Methyl tert-butyl ether	73	3.391	3.385	0.006	97	2588342	500.0	549.5	
31 Hexane	57	3.653	3.653	0.000	95	1459703	500.0	530.1	
32 1,1-Dichloroethane	63	3.781	3.775	0.006	96	2020287	500.0	530.5	
33 Vinyl acetate	86	3.842	3.836	0.006	98	420294	1000.0	1114.4	
34 2-Chloro-1,3-butadiene	53	3.861	3.854	0.007	95	2116590	500.0	574.7	
36 Isopropyl ether	87	3.873	3.867	0.006	90	970817	500.0	523.5	
37 Tert-butyl ethyl ether	59	4.214	4.208	0.006	98	3278675	500.0	550.7	
38 2,2-Dichloropropane	77	4.330	4.318	0.012	92	1737091	500.0	578.2	
39 cis-1,2-Dichloroethene	96	4.336	4.324	0.012	89	1190436	500.0	512.3	
40 2-Butanone (MEK)	43	4.348	4.342	0.006	100	682199	1000.0	941.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Propionitrile	54	4.403	4.391	0.012	99	1208385	5000.0	4862.6	
104 Ethyl acetate	61	4.421	4.415	0.006	100	329929	1000.0	1159.6	
43 Methacrylonitrile	67	4.562	4.543	0.019	93	3737625	5000.0	5069.9	
42 Chlorobromomethane	128	4.556	4.549	0.007	95	437534	500.0	450.7	
44 Tetrahydrofuran	71	4.604	4.598	0.006	80	177100	1000.0	1026.7	
45 Chloroform	83	4.641	4.629	0.012	97	1934707	500.0	485.7	
46 1,1,1-Trichloroethane	97	4.805	4.793	0.012	98	1853831	500.0	567.8	
47 Cyclohexane	56	4.860	4.848	0.012	94	2156428	500.0	553.8	
48 Carbon tetrachloride	117	4.964	4.958	0.006	88	1646053	500.0	582.7	
49 1,1-Dichloropropene	75	4.964	4.958	0.006	89	1628010	500.0	532.7	
108 Isobutyl alcohol	43	5.129	5.116	0.013	94	747062	12500	12120	
50 Benzene	78	5.159	5.153	0.006	98	4666102	500.0	521.8	
51 1,2-Dichloroethane	62	5.177	5.171	0.006	98	1515161	500.0	535.4	
116 n-Butanol	56	5.269	5.263	0.006	58	1155461	12500	13293	a
52 Tert-amyl methyl ether	73	5.293	5.287	0.006	97	2860395	500.0	533.0	
53 n-Heptane	43	5.452	5.446	0.006	94	1429890	500.0	514.4	
54 Trichloroethene	95	5.793	5.793	0.000	97	1228959	500.0	537.7	
117 Ethyl acrylate	55	5.927	5.921	0.006	99	1192229	500.0	551.9	
114 Methylcyclohexane	83	5.994	5.988	0.006	94	1994384	500.0	531.4	
55 1,2-Dichloropropane	63	6.019	6.006	0.013	92	1159412	500.0	530.9	
56 Dibromomethane	93	6.128	6.116	0.012	96	530577	500.0	457.3	
115 1,4-Dioxane	58	6.159	6.153	0.006	96	126094	10000	0	
57 Methyl methacrylate	69	6.159	6.153	0.006	91	1296121	1000.0	1043.0	
58 Dichlorobromomethane	83	6.293	6.287	0.006	98	1493680	500.0	566.4	
106 2-Nitropropane	43	6.525	6.519	0.006	99	582837	1000.0	1521.5	
59 2-Chloroethyl vinyl ether	63	6.616	6.610	0.006	93	655456	500.0	541.1	
60 cis-1,3-Dichloropropene	75	6.756	6.750	0.006	92	1837353	500.0	581.9	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.927	0.006	98	1694170	1000.0	1015.1	
62 Toluene	92	7.104	7.098	0.006	98	3100949	500.0	509.9	
63 trans-1,3-Dichloropropene	75	7.335	7.335	0.000	98	1677728	500.0	542.6	
64 Ethyl methacrylate	69	7.464	7.457	0.007	90	1252335	500.0	527.2	
65 1,1,2-Trichloroethane	83	7.531	7.524	0.007	94	755043	500.0	520.0	
66 Tetrachloroethene	166	7.683	7.677	0.006	93	1237748	500.0	494.2	
67 1,3-Dichloropropane	76	7.707	7.701	0.006	95	1574200	500.0	505.9	
68 2-Hexanone	43	7.823	7.817	0.006	98	1114548	1000.0	1022.1	
69 Chlorodibromomethane	129	7.945	7.939	0.006	93	1068212	500.0	551.3	
109 n-Butyl acetate	43	7.976	7.969	0.007	98	1440031	500.0	503.9	
70 Ethylene Dibromide	107	8.061	8.055	0.006	98	905817	500.0	506.0	
71 Chlorobenzene	112	8.616	8.610	0.006	89	3151533	500.0	485.4	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.707	0.006	94	1096544	500.0	522.2	
73 Ethylbenzene	91	8.756	8.744	0.012	98	5818033	500.0	511.9	a
74 m-Xylene & p-Xylene	106	8.890	8.884	0.006	98	2235485	500.0	505.2	a
75 o-Xylene	106	9.335	9.323	0.012	98	2145850	500.0	509.5	
76 Styrene	104	9.347	9.341	0.006	95	3655260	500.0	524.0	
77 Bromoform	173	9.530	9.530	0.000	95	643252	500.0	569.1	
78 Isopropylbenzene	105	9.762	9.756	0.006	97	5652838	500.0	516.0	
79 Bromobenzene	156	10.085	10.079	0.006	97	1253773	500.0	471.8	
80 1,1,2,2-Tetrachloroethane	83	10.109	10.103	0.006	97	1017959	500.0	497.3	
81 1,2,3-Trichloropropane	110	10.146	10.140	0.006	86	314907	500.0	461.9	
82 trans-1,4-Dichloro-2-butene	53	10.176	10.170	0.006	90	325722	500.0	574.4	
83 N-Propylbenzene	91	10.250	10.237	0.013	99	6476857	500.0	513.1	
84 2-Chlorotoluene	91	10.329	10.317	0.012	95	3741652	500.0	506.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 4-Chlorotoluene	91	10.457	10.451	0.006	99	4481390	500.0	515.1	
86 1,3,5-Trimethylbenzene	105	10.463	10.451	0.012	94	4515326	500.0	516.5	
87 tert-Butylbenzene	119	10.835	10.829	0.006	93	3830382	500.0	505.6	
88 1,2,4-Trimethylbenzene	105	10.896	10.890	0.006	98	4529742	500.0	503.2	
89 sec-Butylbenzene	105	11.103	11.091	0.012	95	5600030	500.0	519.7	
90 1,3-Dichlorobenzene	146	11.207	11.194	0.013	97	2322712	500.0	490.7	
91 4-Isopropyltoluene	119	11.286	11.274	0.012	97	4701903	500.0	517.0	
92 1,4-Dichlorobenzene	146	11.310	11.304	0.006	93	2327243	500.0	479.7	
110 1,2,3-Trimethylbenzene	105	11.396	11.383	0.013	99	4453213	500.0	514.6	
113 Benzyl chloride	126	11.481	11.475	0.006	99	449904	500.0	571.6	
93 1,2-Dichlorobenzene	146	11.749	11.743	0.006	96	2186474	500.0	478.9	
94 n-Butylbenzene	91	11.774	11.761	0.013	98	4142334	500.0	517.3	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	84	165970	500.0	571.0	
96 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	94	1392929	500.0	499.6	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	96	1124797	500.0	483.0	
97 Hexachlorobutadiene	225	13.932	13.926	0.006	97	563478	500.0	496.8	
98 Naphthalene	128	13.981	13.980	0.001	97	2444812	500.0	481.4	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	890617	500.0	479.1	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		1000.0	1042.7	
S 102 1,3-Dichloropropene, Total	1				0		1000.0	1124.5	
S 100 Xylenes, Total	1				0		1000.0	1014.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

VV_M_ISSTD_00250	Amount Added: 1.00	Units: uL
VV_I_MOSOL_00217	Amount Added: 500.00	Units: uL

Report Date: 13-Oct-2020 18:28:18 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

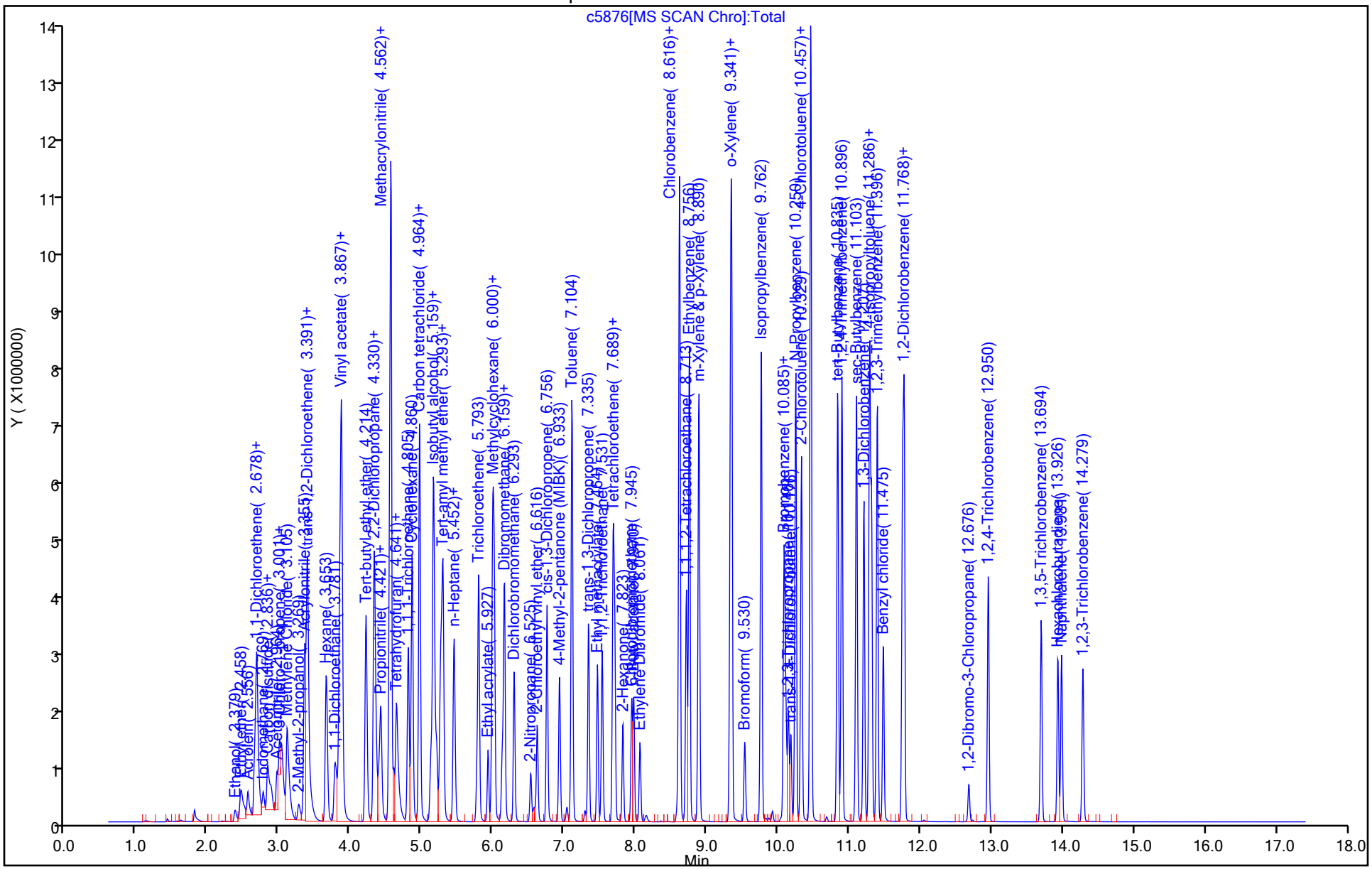
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: std12 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

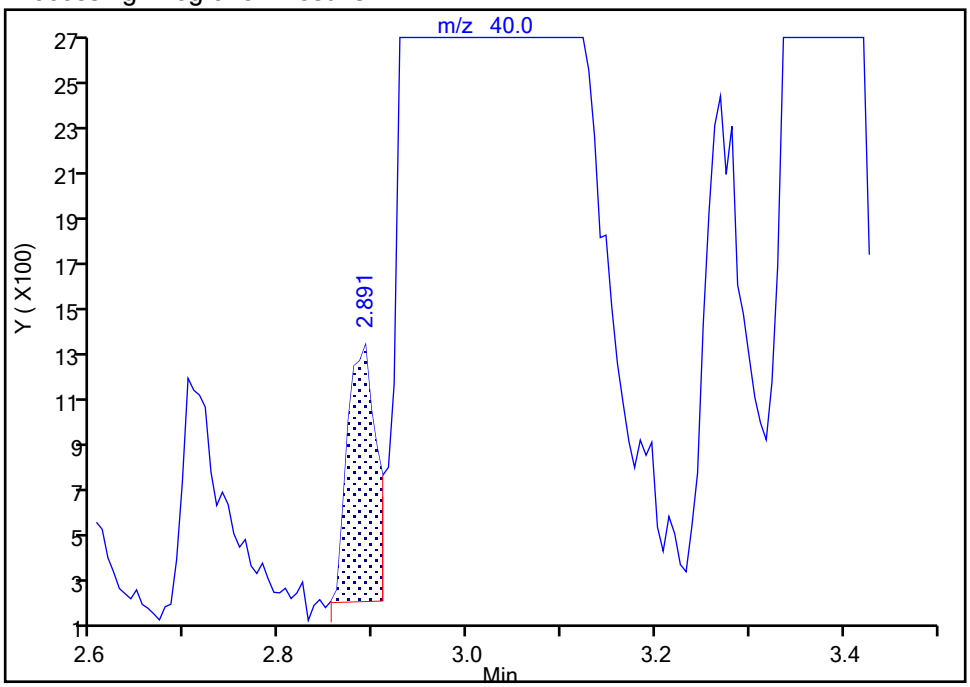
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

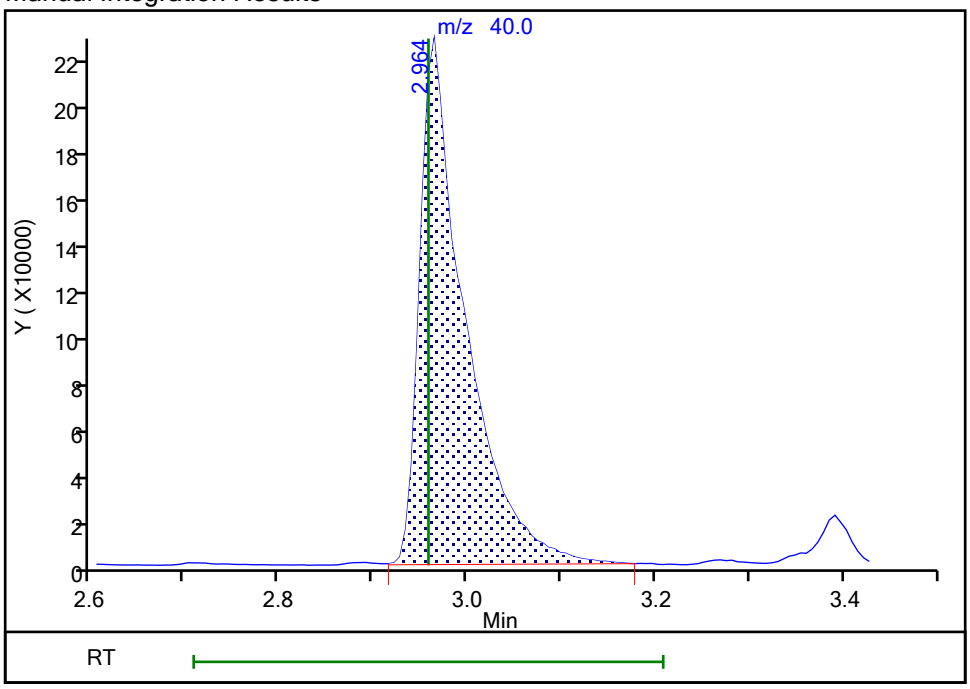
Processing Integration Results

RT: 2.89
Area: 2400
Amount: 15.167908
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 756184
Amount: 4523.9214
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls

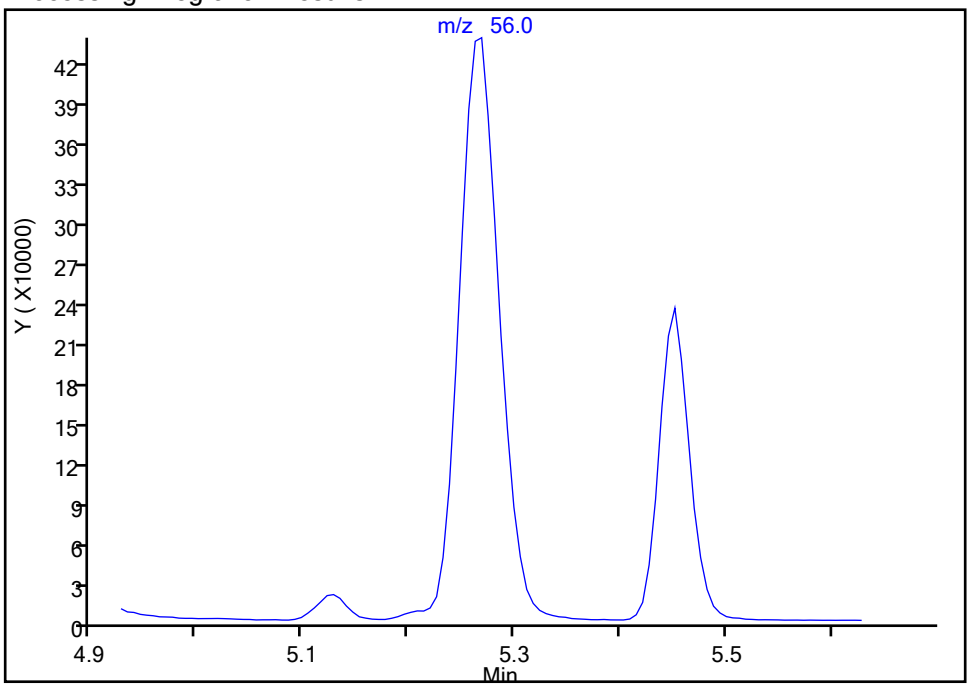
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

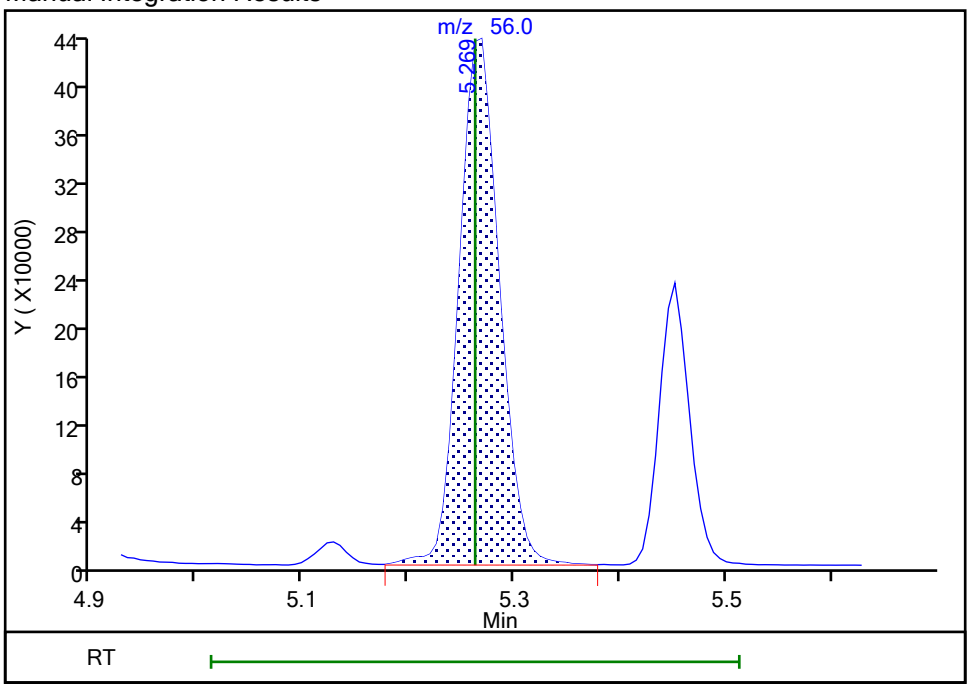
Not Detected
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.27
Area: 1155461
Amount: 13293
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

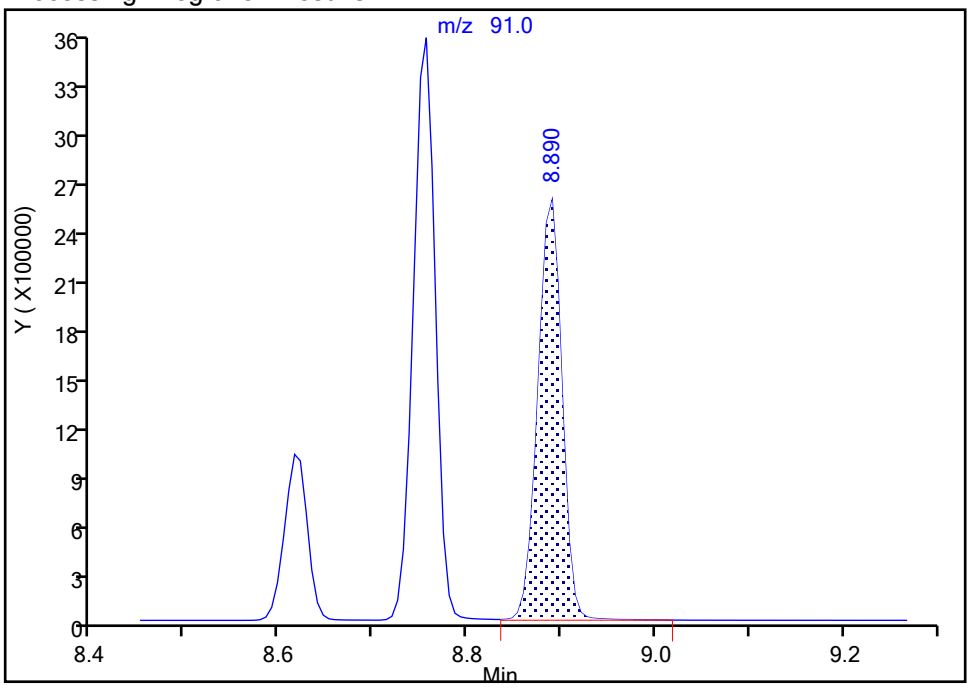
Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D				
Injection Date:	13-Oct-2020 12:43:30	Instrument ID:	Calvin		
Lims ID:	std12				
Client ID:					
Operator ID:	sjn	ALS Bottle#:	16	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		
Column:		Detector	MS SCAN		

73 Ethylbenzene, CAS: 100-41-4

Signal: 1

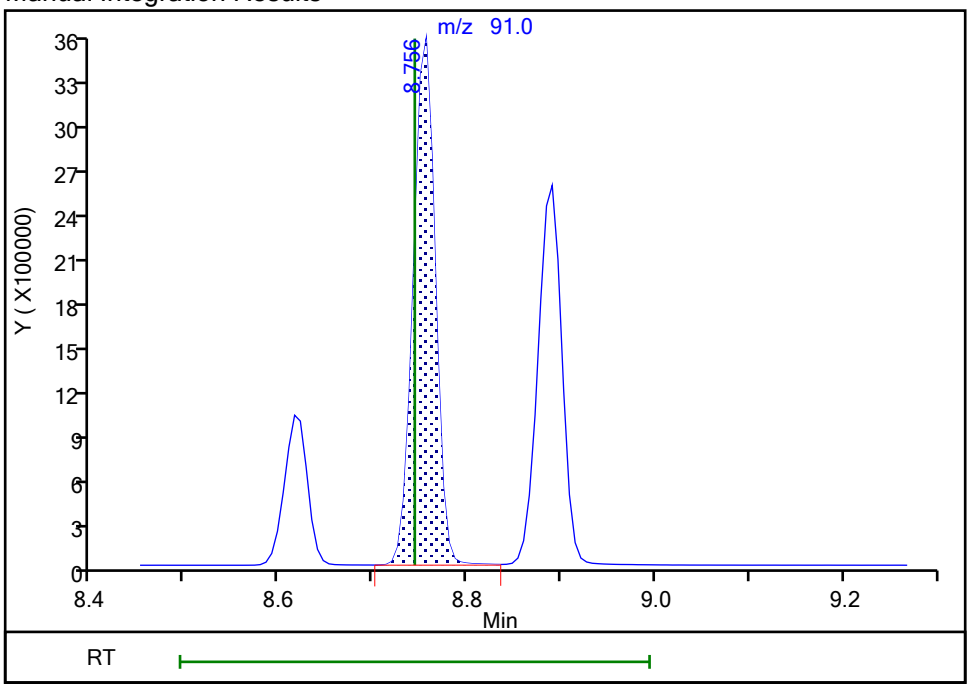
Processing Integration Results

RT: 8.89
Area: 4578359
Amount: 410.9254
Amount Units: ug/l



Manual Integration Results

RT: 8.76
Area: 5818033
Amount: 511.8883
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:44

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

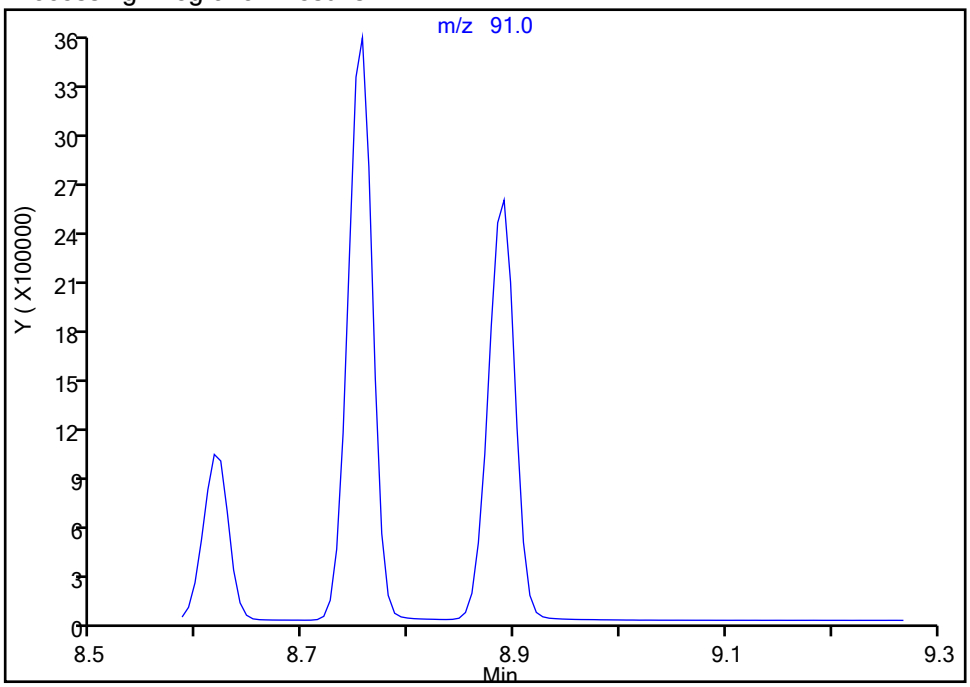
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

74 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

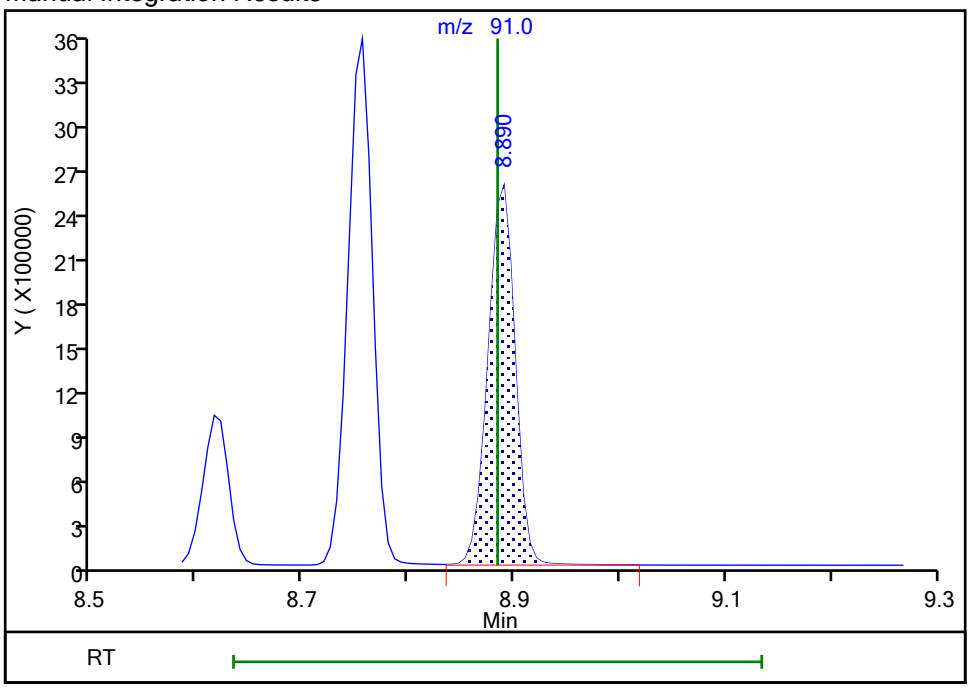
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.89
Area: 4578359
Amount: 505.2294
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

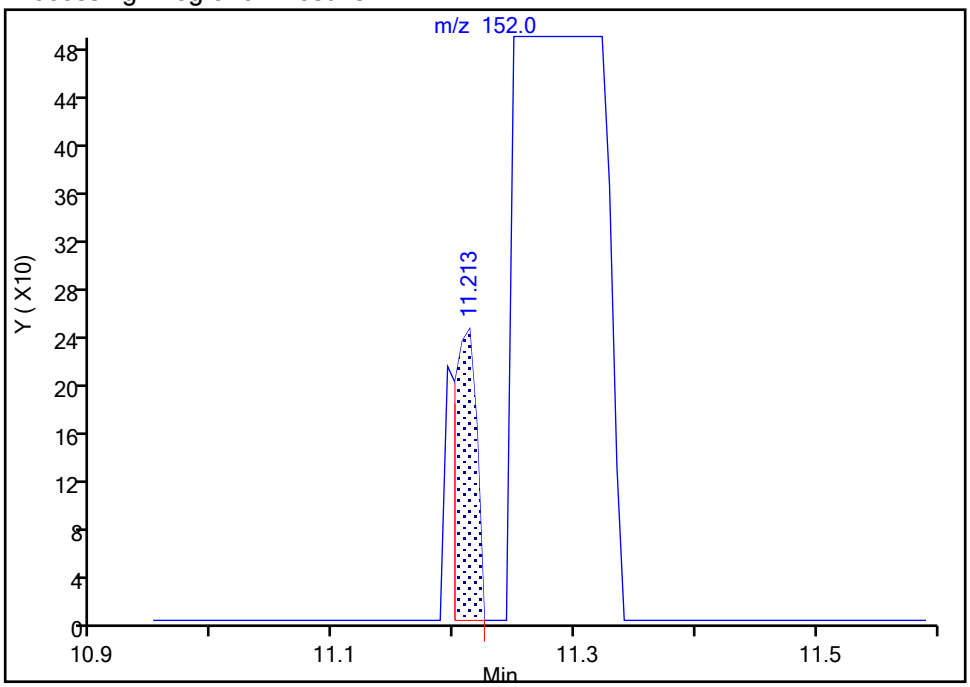
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D
Injection Date: 13-Oct-2020 12:43:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

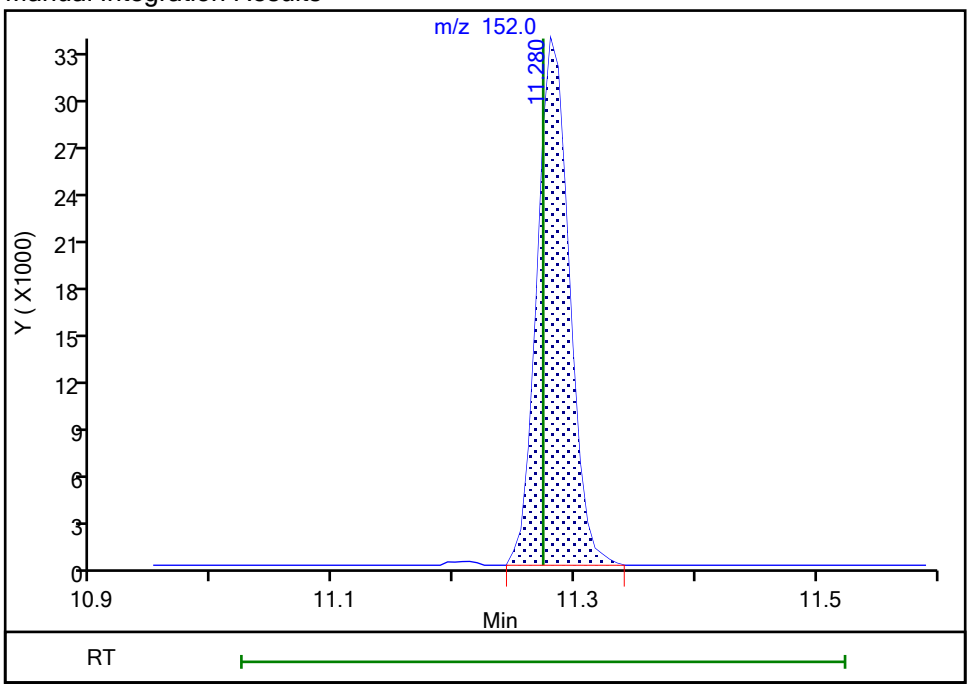
Processing Integration Results

RT: 11.21
Area: 303
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 11.28
Area: 61099
Amount: 50.000000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 17:10:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/23	c5903.D
Level 2	STD2 310-295162/24	c5904.D
Level 3	STD3 310-295162/25	c5905.D
Level 4	STD4 310-295162/26	c5906.D
Level 5	STD5 310-295162/27	c5907.D
Level 6	STD6 310-295162/28	c5908.D
Level 7	STD7 310-295162/29	c5910.D
Level 8	STD8 310-295162/30	c5911.D
Level 9	STD9 310-295162/31	c5912.D
Level 10	STD10 310-295162/32	c5913.D
Level 11	STD11 310-295162/33	c5914.D
Level 12	STD12 310-295162/34	c5915.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.9275 1.0084 1.0198	0.8764 1.1814 0.9245	0.9834 1.2033	0.9855 1.1142	0.9541 1.0928	Ave		1.0226			0.1000	10.2		20.0			
Chloromethane	0.7387 0.7043 0.7719	0.7626 0.7480 0.6887	0.7934 0.8548	0.7430 0.7810	0.6780 0.7792	Ave		0.7536			0.1000	6.5		20.0			
Vinyl chloride	0.8038 0.8530 0.9722	0.8303 1.0059 0.8760	0.9380 1.0425	0.8992 0.9899	0.8568 0.9889	Ave		0.9214			0.1000	8.5		20.0			
1,3-Butadiene	0.7973 0.8708 1.0026	0.7369 1.0597 0.8992	0.9600 1.0947	0.8624 1.0362	0.8242 1.0416	Ave		0.9321				12.5		20.0			
Bromomethane	+++++ 0.2877 +++++	0.1517 +++++ +++++	0.1965 +++++	0.2161 +++++	0.2388 +++++	Lin2	-0.120	0.2637			0.1000	8.4			0.9910		0.9900
Chloroethane	0.4854 0.4938 0.5638	0.5121 0.5644 0.5185	0.5421 0.5923	0.4943 0.5711	0.4860 0.5723	Ave		0.5330			0.1000	7.3		20.0			
Dichlorofluoromethane	1.1380 1.1592 1.3495	1.1905 1.3590 1.2368	1.3162 1.4100	1.2378 1.3587	1.1766 1.3711	Ave		1.2753				7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Trichlorofluoromethane	1.0107 1.1304 1.3029	0.9471 1.3363 1.1998	1.1779 1.4447	1.1626 1.3608	1.1662 1.3823	Ave		1.2185			0.1000	12.4		20.0			
Dibromofluoromethane (Surr)	0.2260 0.2244 0.2238	0.2232 0.2260 0.2225	0.2175 0.2337	0.2222 0.2260	0.2184 0.2256	Ave		0.2241				1.9		20.0			
Toluene-d8 (Surr)	1.2994 1.2765 1.2719	1.2696 1.2898 1.2728	1.2901 1.2639	1.3035 1.2725	1.2818 1.2916	Ave		1.2819				1.0		20.0			
4-Bromofluorobenzene (Surr)	0.8386 0.8203 0.8434	0.7971 0.8197 0.8032	0.8284 0.8044	0.8294 0.8229	0.7936 0.8151	Ave		0.8180				1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/23	c5903.D
Level 2	STD2 310-295162/24	c5904.D
Level 3	STD3 310-295162/25	c5905.D
Level 4	STD4 310-295162/26	c5906.D
Level 5	STD5 310-295162/27	c5907.D
Level 6	STD6 310-295162/28	c5908.D
Level 7	STD7 310-295162/29	c5910.D
Level 8	STD8 310-295162/30	c5911.D
Level 9	STD9 310-295162/31	c5912.D
Level 10	STD10 310-295162/32	c5913.D
Level 11	STD11 310-295162/33	c5914.D
Level 12	STD12 310-295162/34	c5915.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	1582 71642 835806	2964 195526 1645643	6625 387602	13191 548898	33695 706075	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Chloromethane	FB	Ave	1260 50038 632652	2579 123795 1225891	5345 275364	9945 384771	23945 503467	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Vinyl chloride	FB	Ave	1371 60599 796841	2808 166484 1559191	6319 335812	12037 487670	30256 638917	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
1,3-Butadiene	FB	Ave	1360 61863 821757	2492 175377 1600618	6467 352639	11544 510454	29106 672992	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Bromomethane	FB	Lin2	+++++ 20437 +++++	513 +++++ +++++	1324 +++++	2893 +++++	8433 +++++	+++++ 20.0 +++++	1.00 +++++ +++++	2.00 +++++	4.00 +++++	10.0 +++++
Chloroethane	FB	Ave	828 35084 462122	1732 93407 922989	3652 190791	6617 281347	17163 369768	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Dichlorofluoromethane	FB	Ave	1941 82355 1106051	4026 224917 2201455	8867 454200	16569 669367	41553 885885	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Trichlorofluoromethane	FB	Ave	1724 80306 1067839	3203 221164 2135680	7935 465362	15562 670399	41185 893108	0.500 20.0 250	1.00 50.0 500	2.00 100	4.00 150	10.0 200
Dibromofluoromethane (Surr)	FB	Ave	38546	37739	36630	37176	38558	50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			39853 36679	37400 39597	37645	37110	36438	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	166595 174678 158191	164920 160880 173981	163258 156890	162720 159993	171682 157762	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	49714 52415 49152	48717 47751 52414	49118 46900	49121 47939	50266 48279	50.0 50.0 50.0	50.0 50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1 Analy Batch No.: 295162

SDG No.:

Instrument ID: Calvin GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/14/2020 04:42 Calibration End Date: 10/14/2020 09:44 Calibration ID: 16866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 310-295162/23	c5903.D
Level 2	STD2 310-295162/24	c5904.D
Level 3	STD3 310-295162/25	c5905.D
Level 4	STD4 310-295162/26	c5906.D
Level 5	STD5 310-295162/27	c5907.D
Level 6	STD6 310-295162/28	c5908.D
Level 7	STD7 310-295162/29	c5910.D
Level 8	STD8 310-295162/30	c5911.D
Level 9	STD9 310-295162/31	c5912.D
Level 10	STD10 310-295162/32	c5913.D
Level 11	STD11 310-295162/33	c5914.D
Level 12	STD12 310-295162/34	c5915.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 # LVL 12 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6 LVL 12
Dichlorodifluoromethane	-9.3						40					
Chloromethane	-2.0						40					
Vinyl chloride	-12.8						40					
1,3-Butadiene	-14.5						40					
Bromomethane	+++++ +++++	3.0 +++++	+++++	+++++	+++++	+++++		40				
Chloroethane	-8.9						40					
Dichlorofluoromethane	-10.8						40					
Trichlorofluoromethane	-17.0						40					

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Oct-2020 04:42:30 ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:04 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:54:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	170569	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	6041	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	128206	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59284	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	38546	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	166595	50.0	50.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	86	49714	50.0	51.3	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	27	1582	0.5000	0.4535	M
10 Chloromethane	50	1.520	1.526	-0.006	26	1260	0.5000	0.4901	M
11 Vinyl chloride	62	1.556	1.532	0.024	90	1371	0.5000	0.4362	M
12 Butadiene	54	1.574	1.568	0.006	86	1360	0.5000	0.4277	M
14 Chloroethane	64	1.922	1.910	0.012	17	828	0.5000	0.4554	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	93	1941	0.5000	0.4462	M
13 Bromomethane	94	1.849	2.166	-0.317	1	209	0.5000	0.6868	M
16 Trichlorofluoromethane	101	2.178	2.166	0.012	30	1724	0.5000	0.4148	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

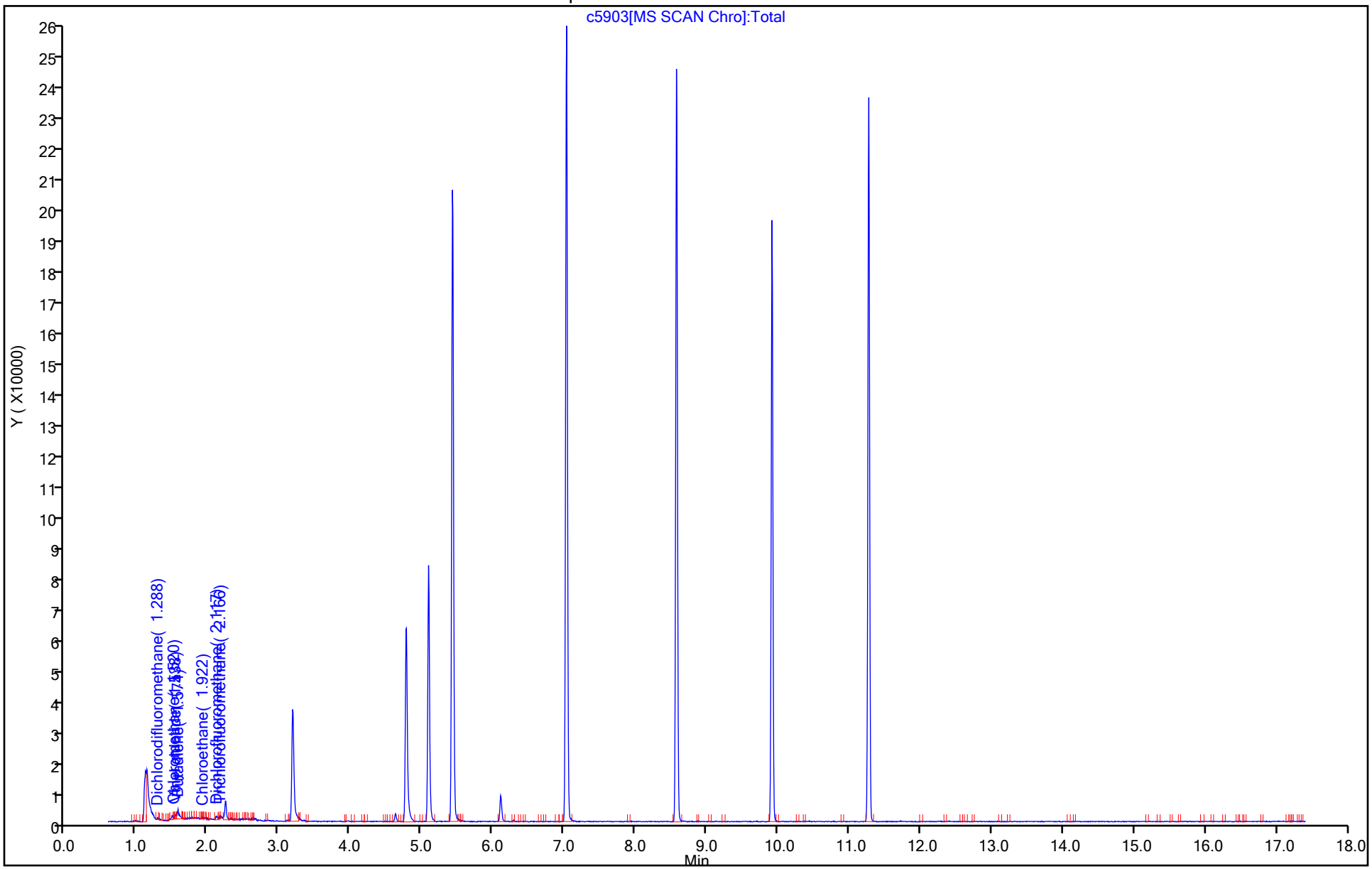
Reagents:

VV_I_GASES_00409 Amount Added: 0.50 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:04 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D				
Injection Date:	14-Oct-2020 04:42:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std1			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

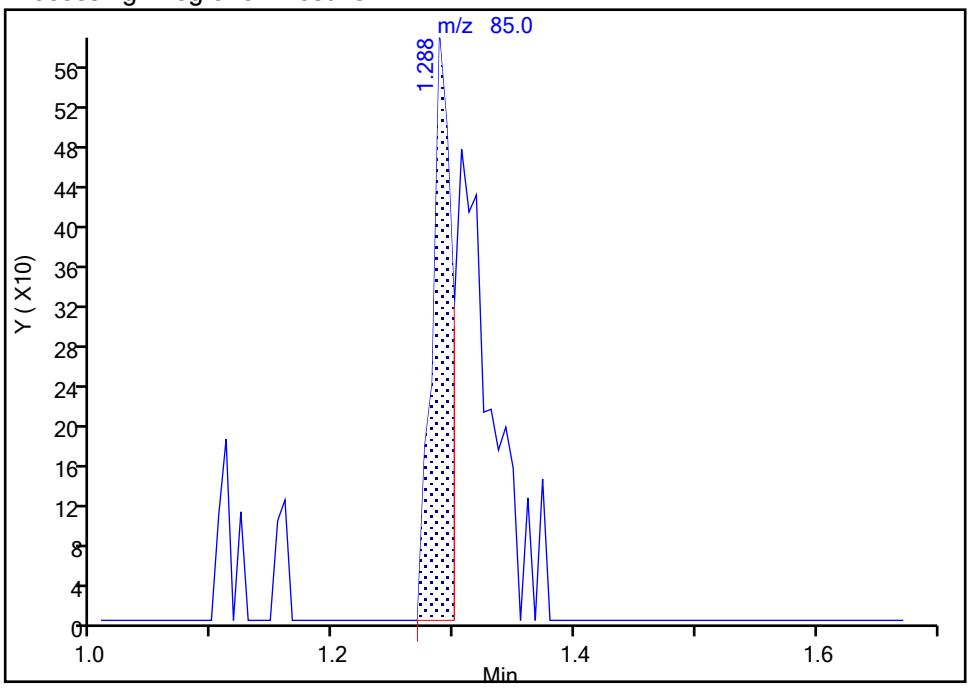
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

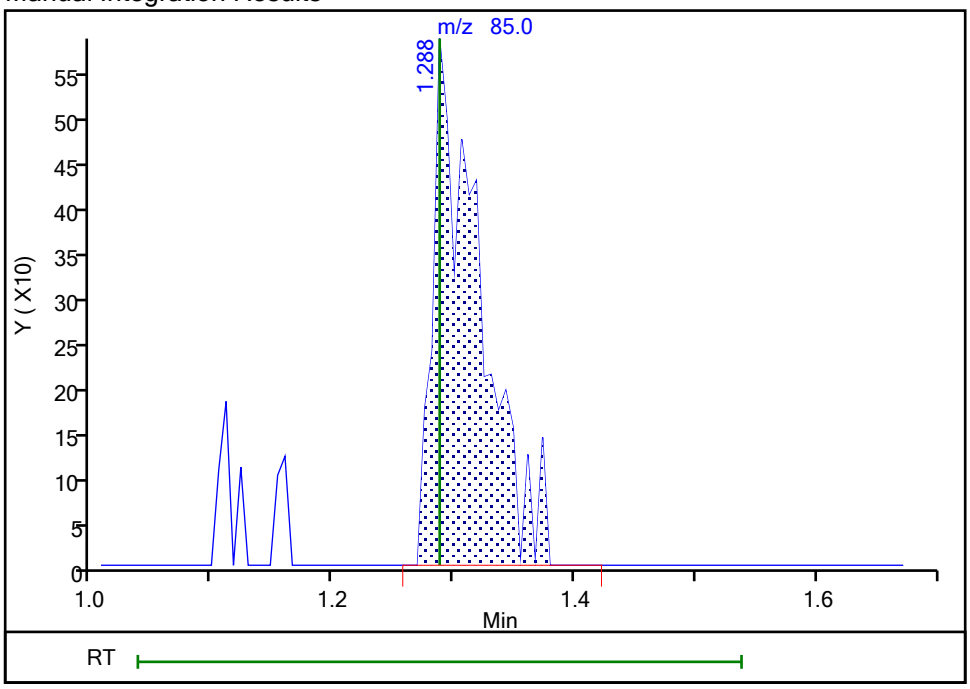
Processing Integration Results

RT: 1.29
Area: 662
Amount: 0.244710
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 1582
Amount: 0.453488
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:54:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

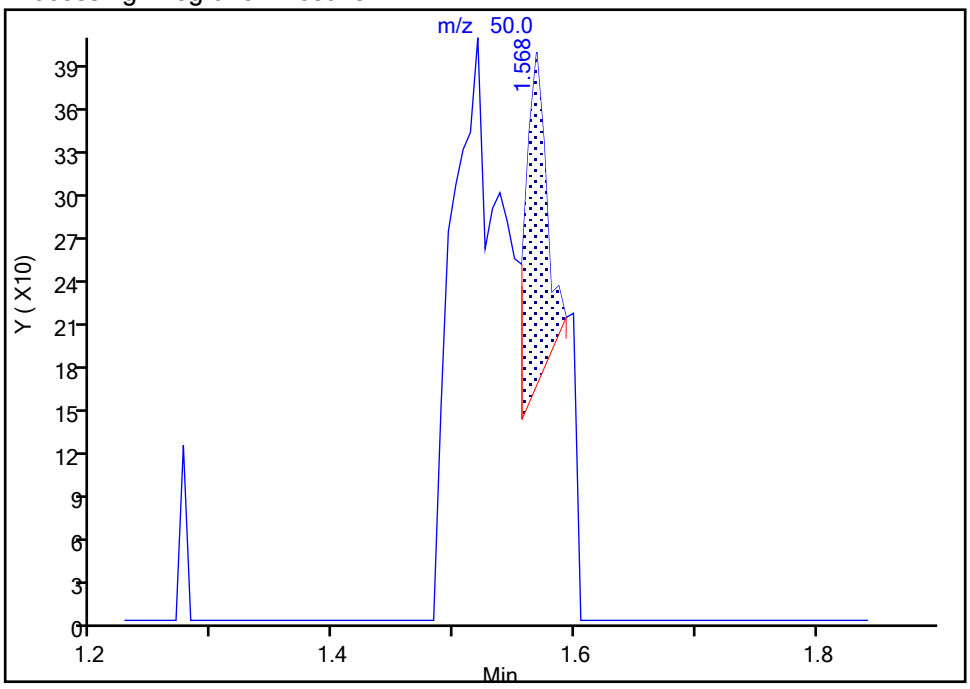
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

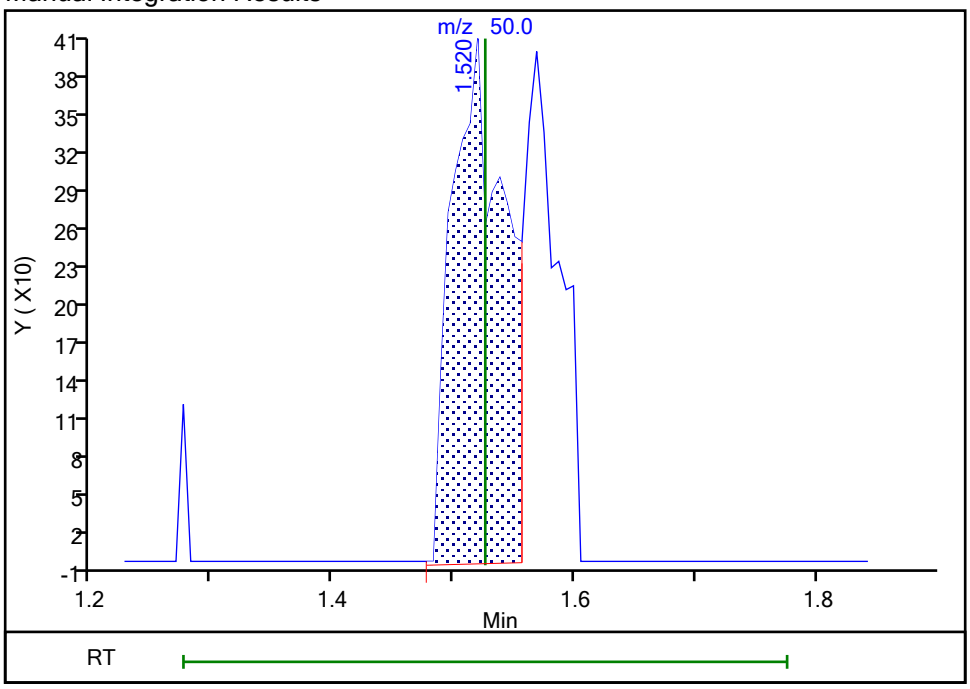
Processing Integration Results

RT: 1.57
Area: 279
Amount: 0.210239
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 1260
Amount: 0.490087
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:54:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

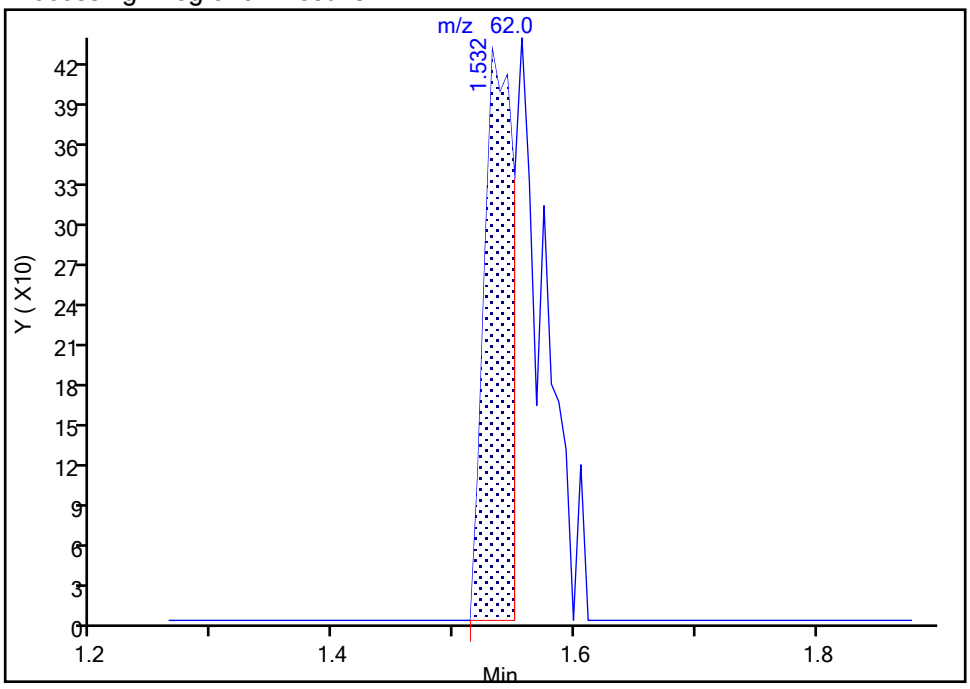
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

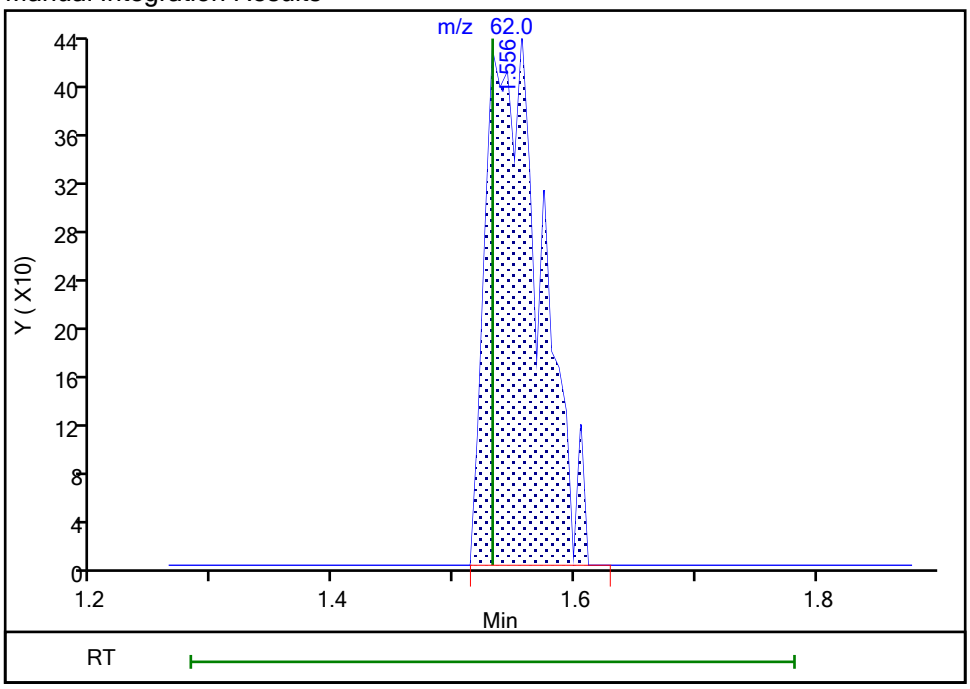
Processing Integration Results

RT: 1.53
Area: 708
Amount: 0.275952
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 1371
Amount: 0.436187
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

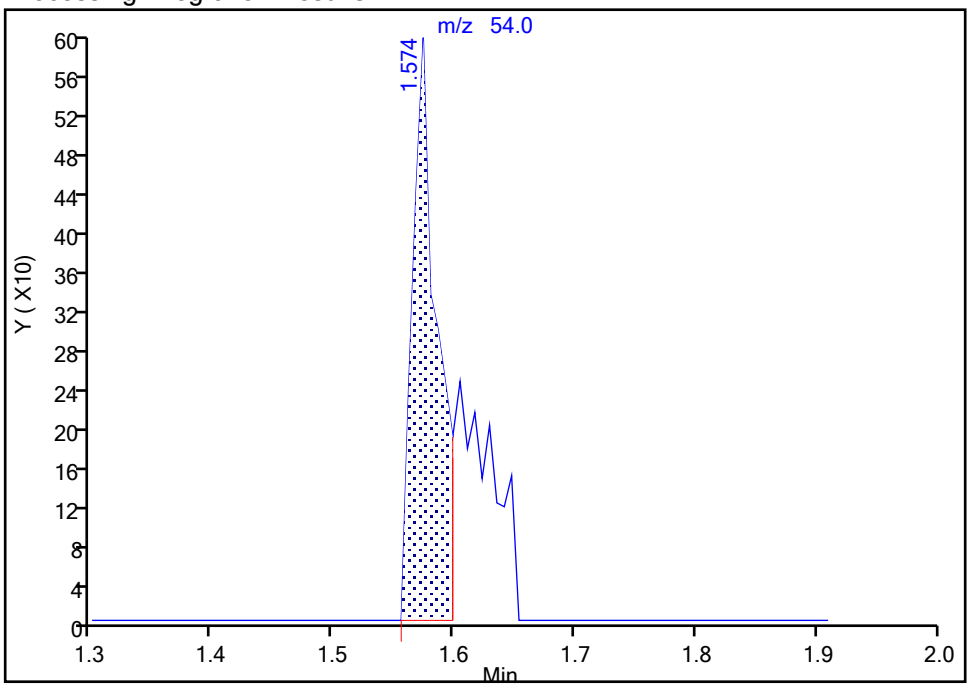
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

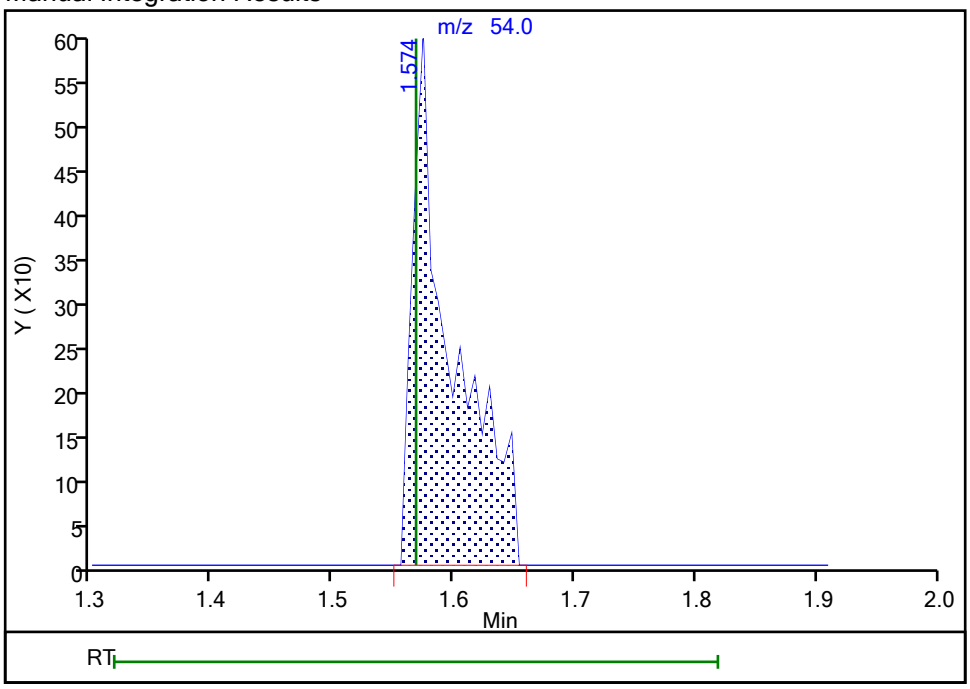
Processing Integration Results

RT: 1.57
Area: 859
Amount: 0.360772
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 1360
Amount: 0.427693
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

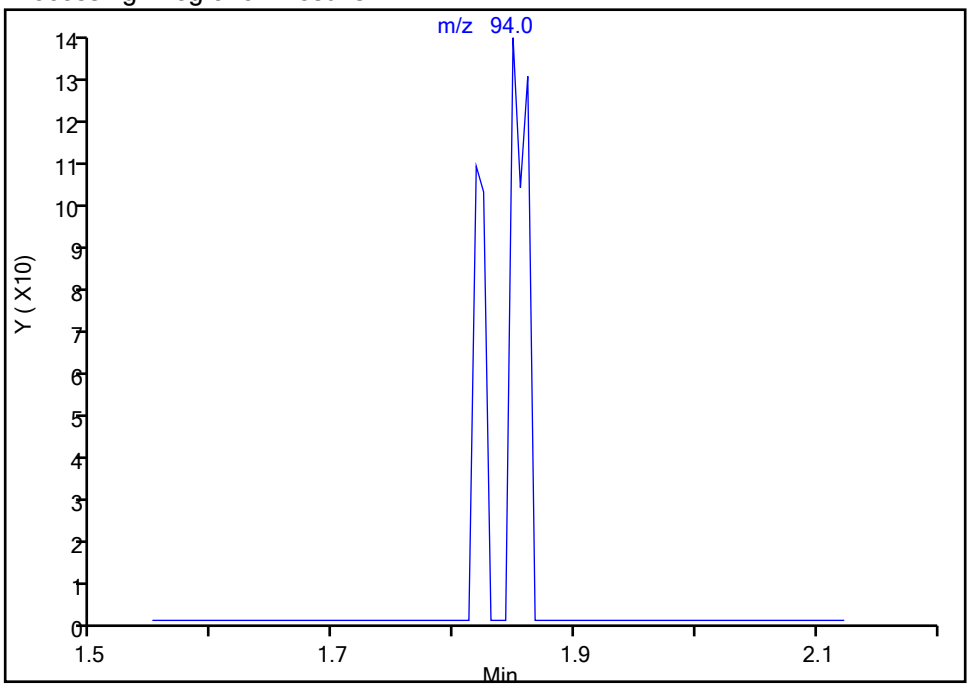
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

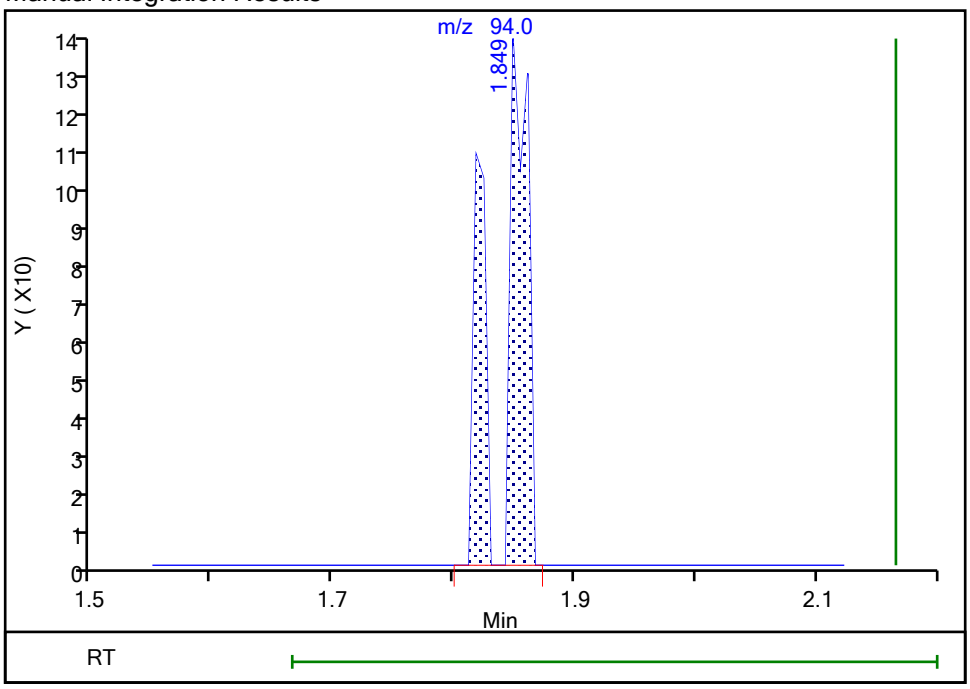
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 1.85
Area: 209
Amount: 0.686754
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

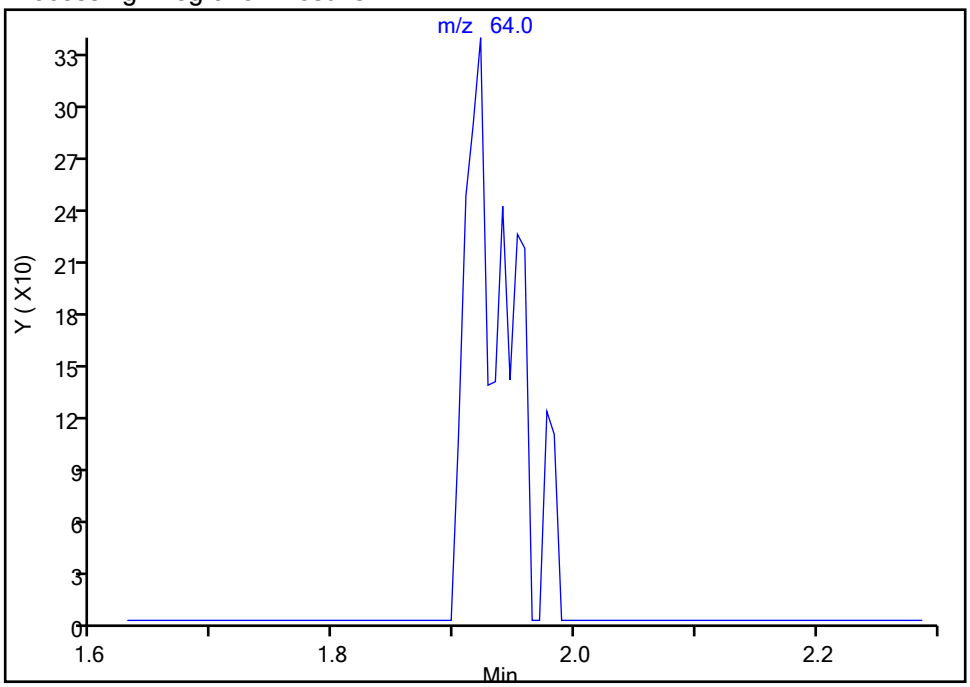
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

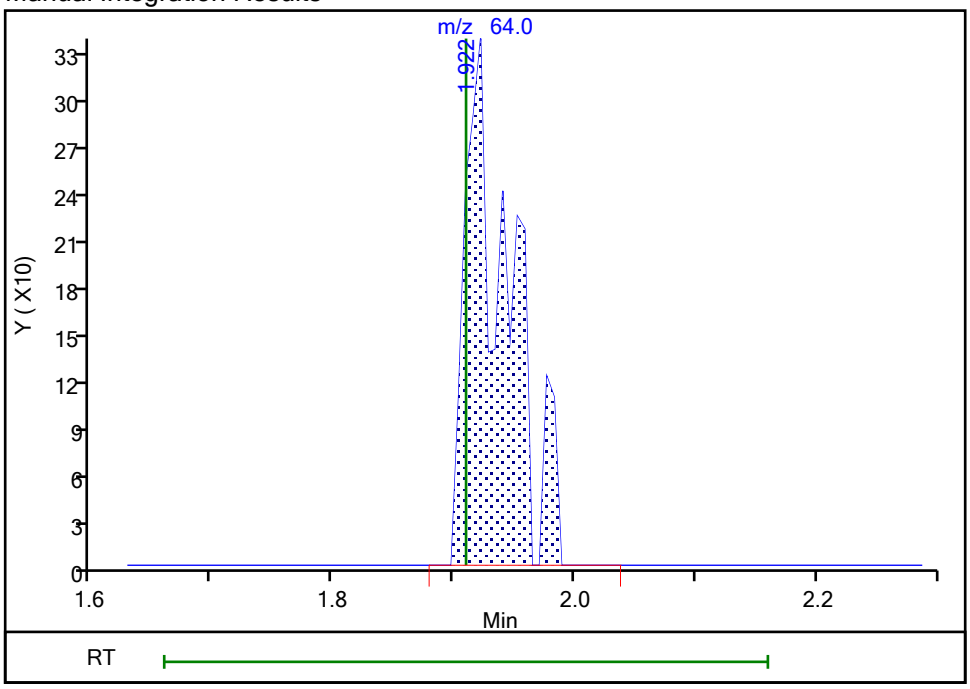
Not Detected
Expected RT: 1.91

Processing Integration Results



Manual Integration Results

RT: 1.92
Area: 828
Amount: 0.455358
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:42
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

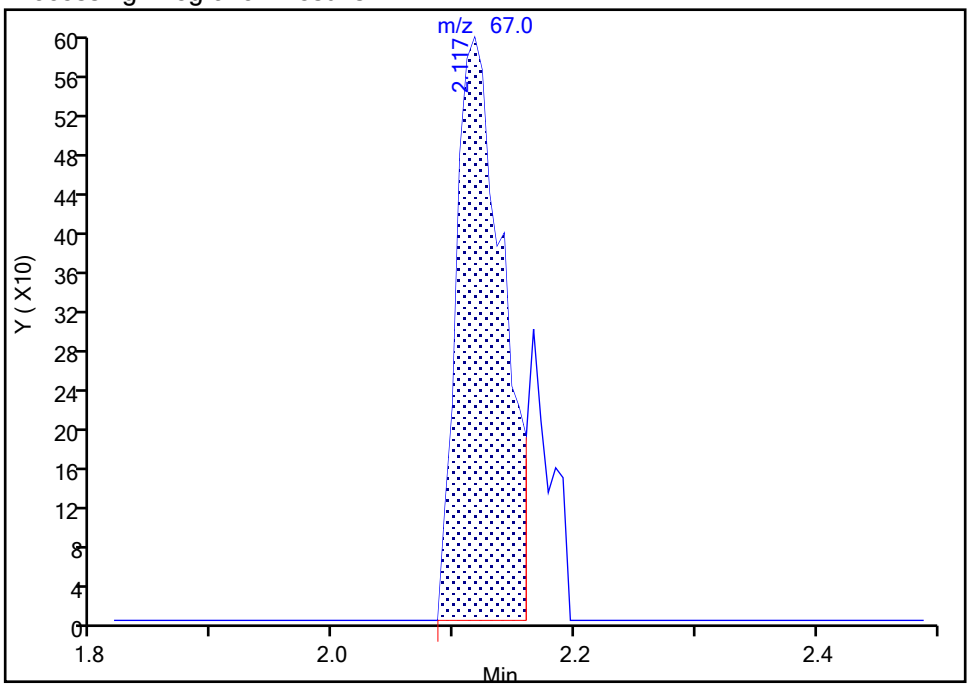
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

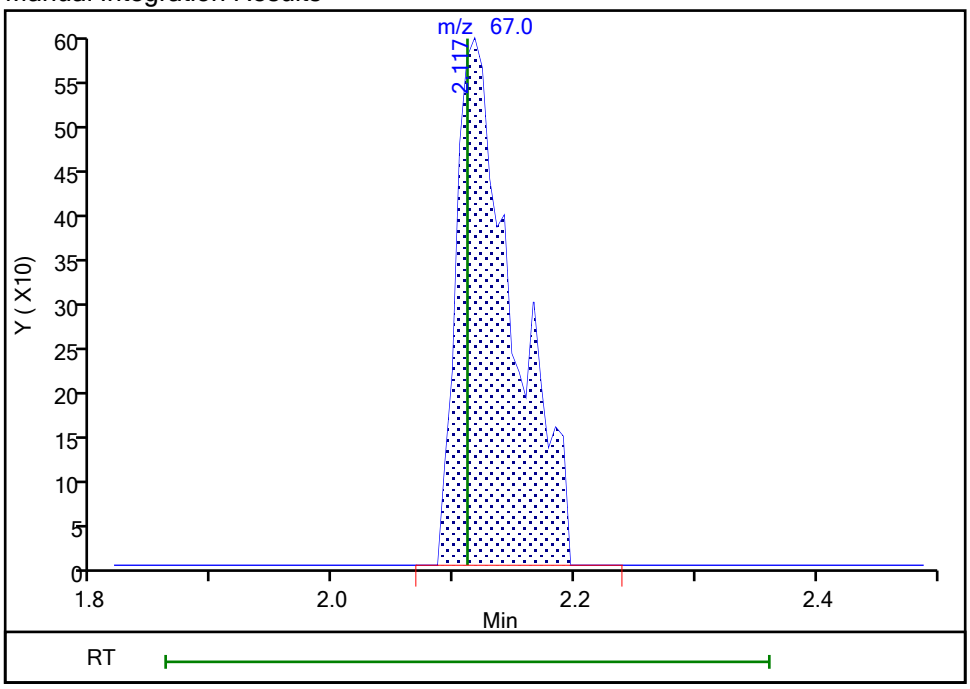
Processing Integration Results

RT: 2.12
Area: 1602
Amount: 0.426786
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 1941
Amount: 0.446157
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

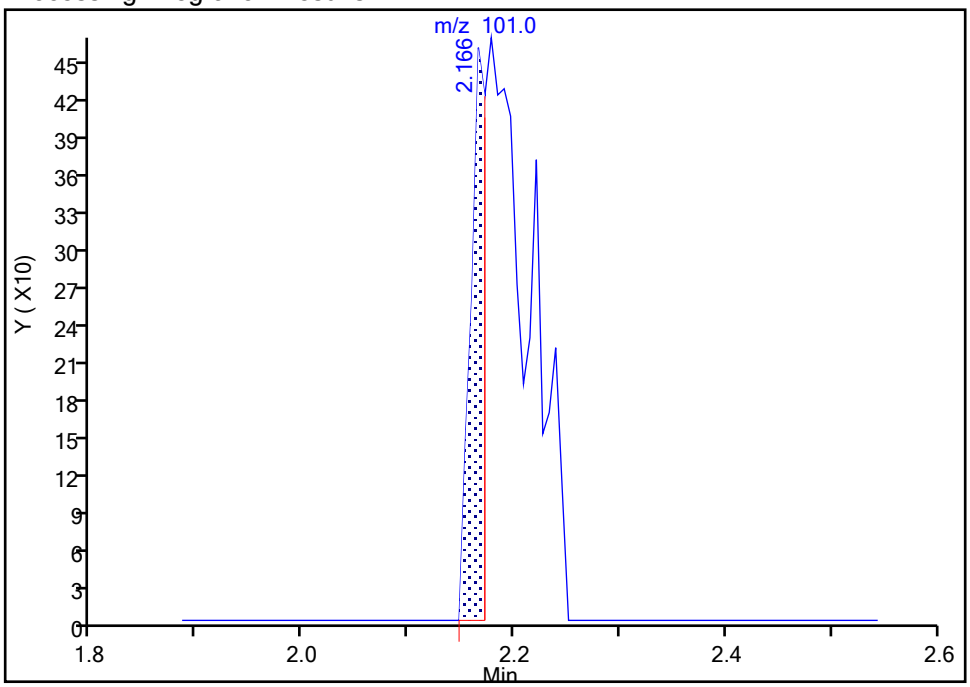
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

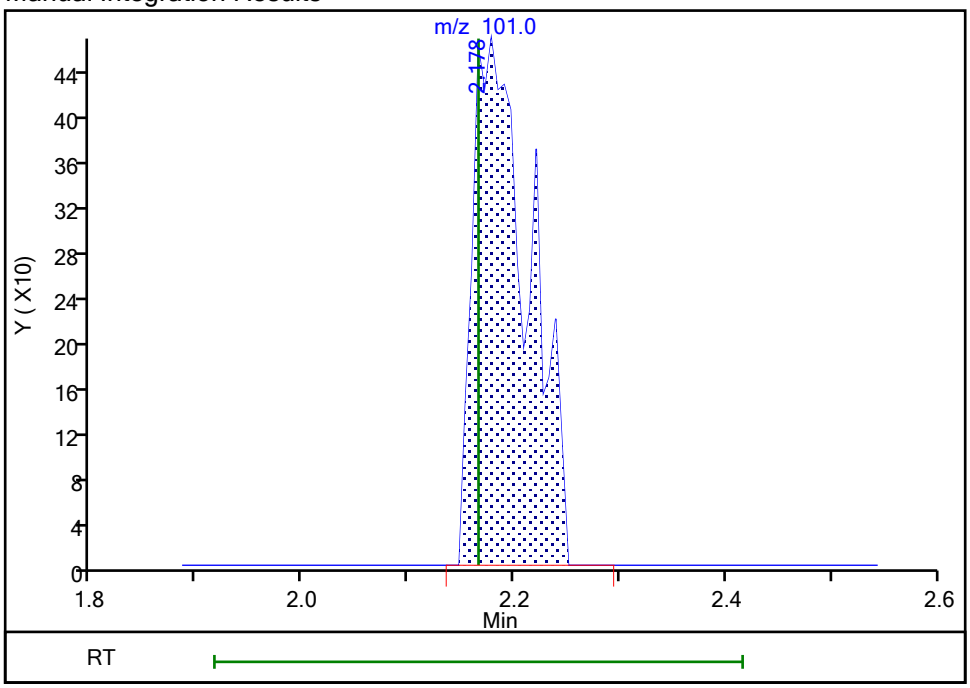
Processing Integration Results

RT: 2.17
Area: 472
Amount: 0.638448
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 1724
Amount: 0.414754
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:53:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

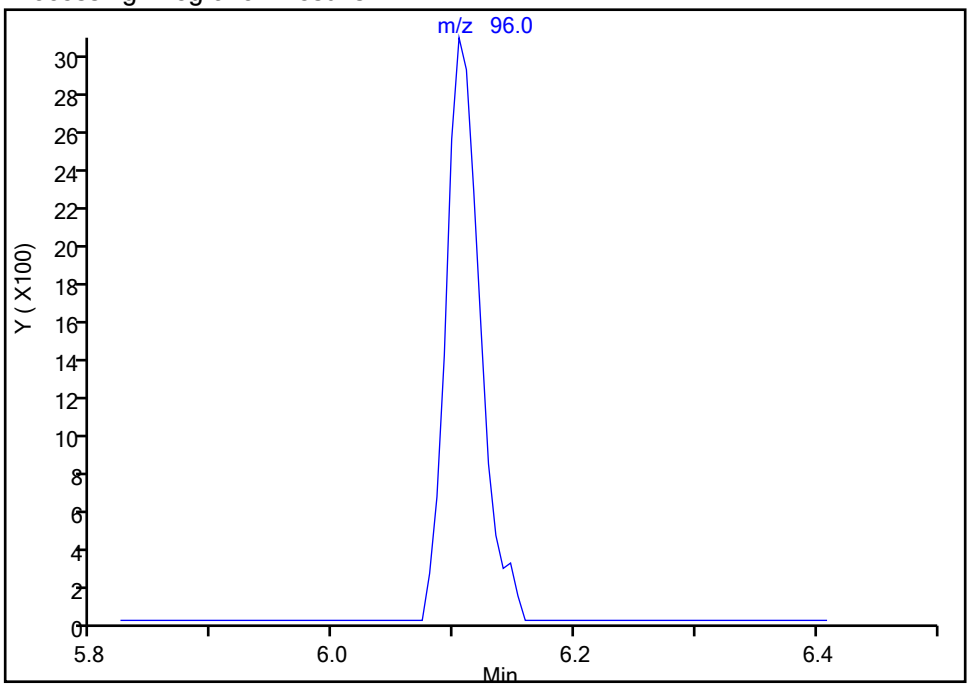
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5903.D
Injection Date: 14-Oct-2020 04:42:30 Instrument ID: Calvin
Lims ID: std1
Client ID:
Operator ID: sjn ALS Bottle#: 43 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

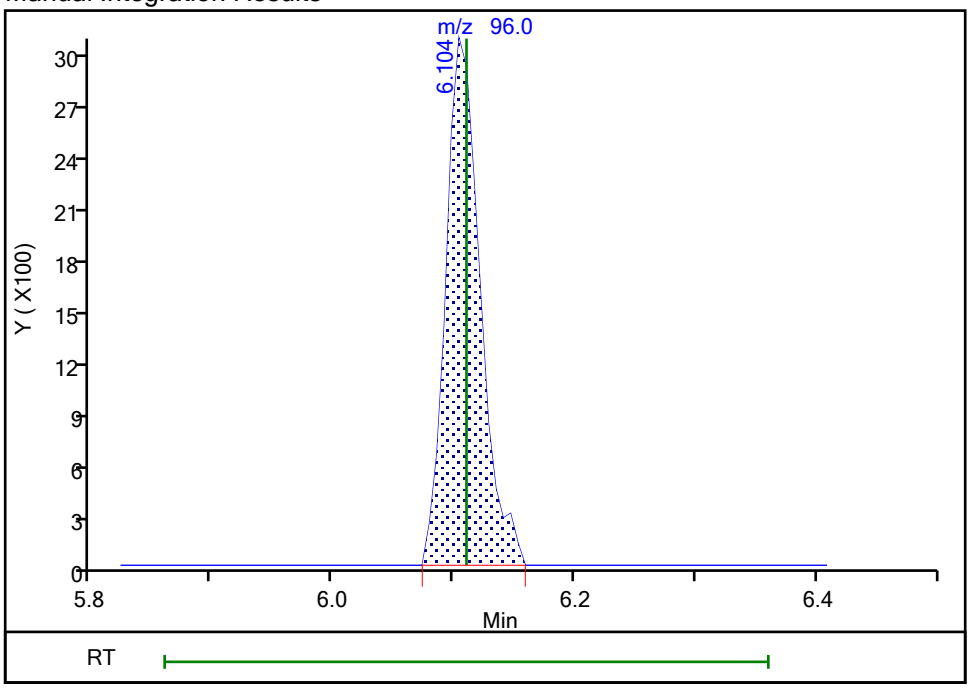
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 6041
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:54:15
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Oct-2020 05:06:30 ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:07 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:00:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	169095	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	5827	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	129904	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	61115	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	37739	50.0	49.8	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	164920	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	87	48717	50.0	48.7	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	2964	1.00	0.8571	M
10 Chloromethane	50	1.526	1.526	0.000	37	2579	1.00	1.01	M
11 Vinyl chloride	62	1.544	1.532	0.012	32	2808	1.00	0.9012	
12 Butadiene	54	1.574	1.568	0.006	92	2492	1.00	0.7905	M
14 Chloroethane	64	1.916	1.910	0.006	95	1732	1.00	0.9608	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	96	4026	1.00	0.9335	M
13 Bromomethane	94	1.836	2.166	-0.330	7	513	1.00	1.03	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	96	3203	1.00	0.7773	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

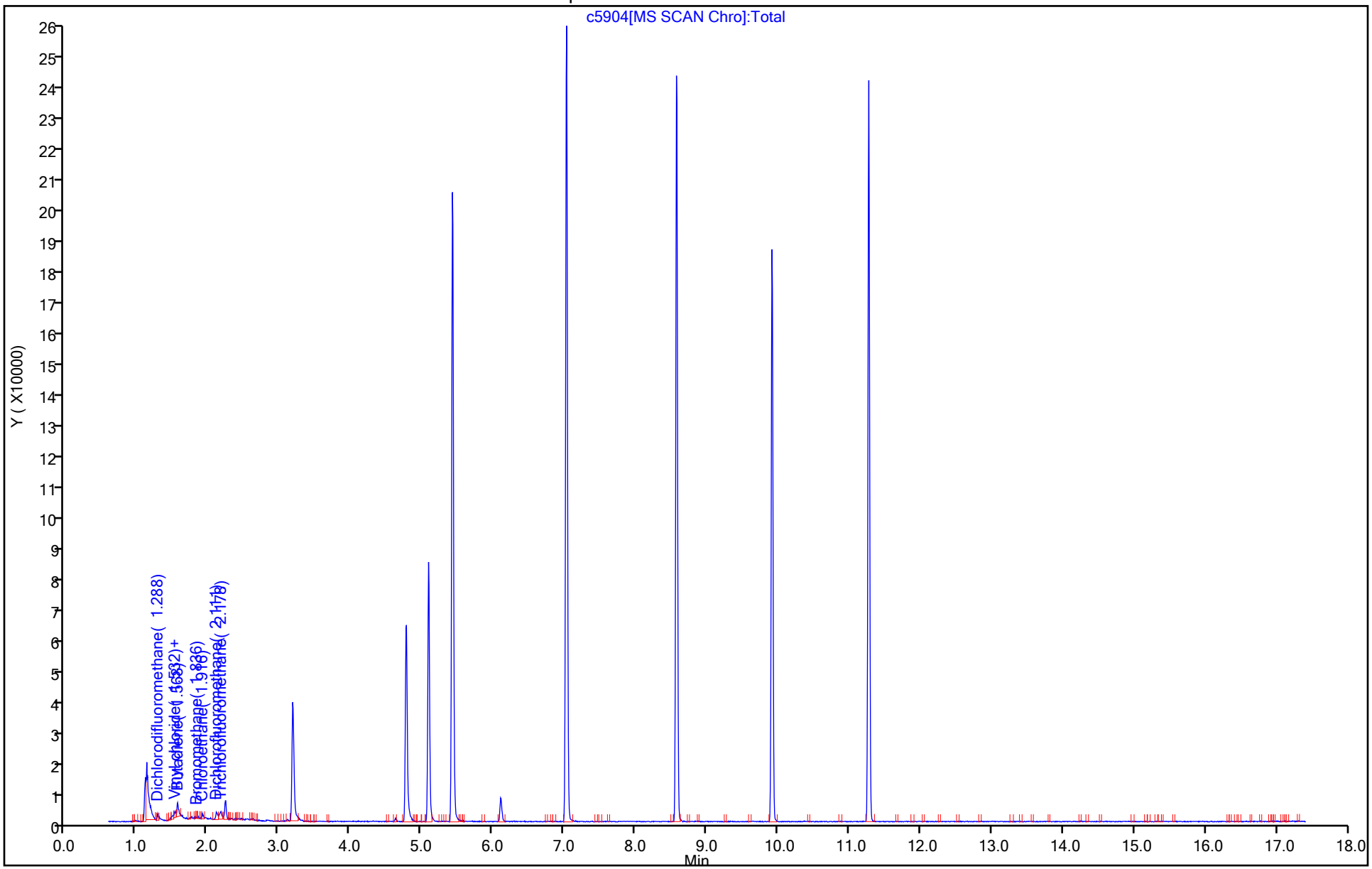
VV_I_GASES_00409 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:07 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D

Injection Date:	14-Oct-2020 05:06:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std2			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

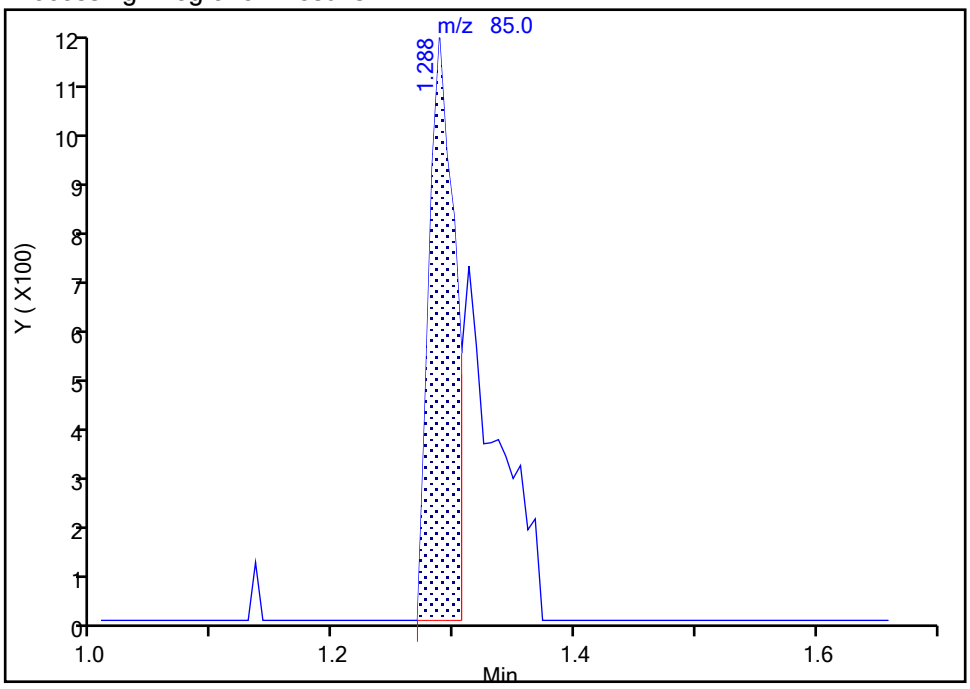
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

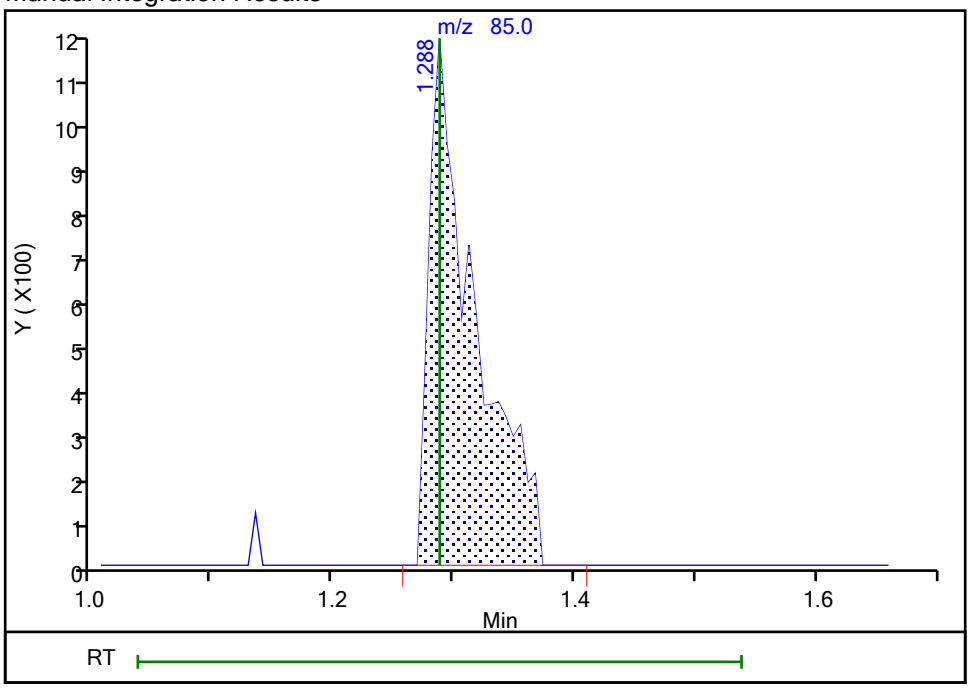
Processing Integration Results

RT: 1.29
Area: 1681
Amount: 0.562982
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 2964
Amount: 0.857051
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

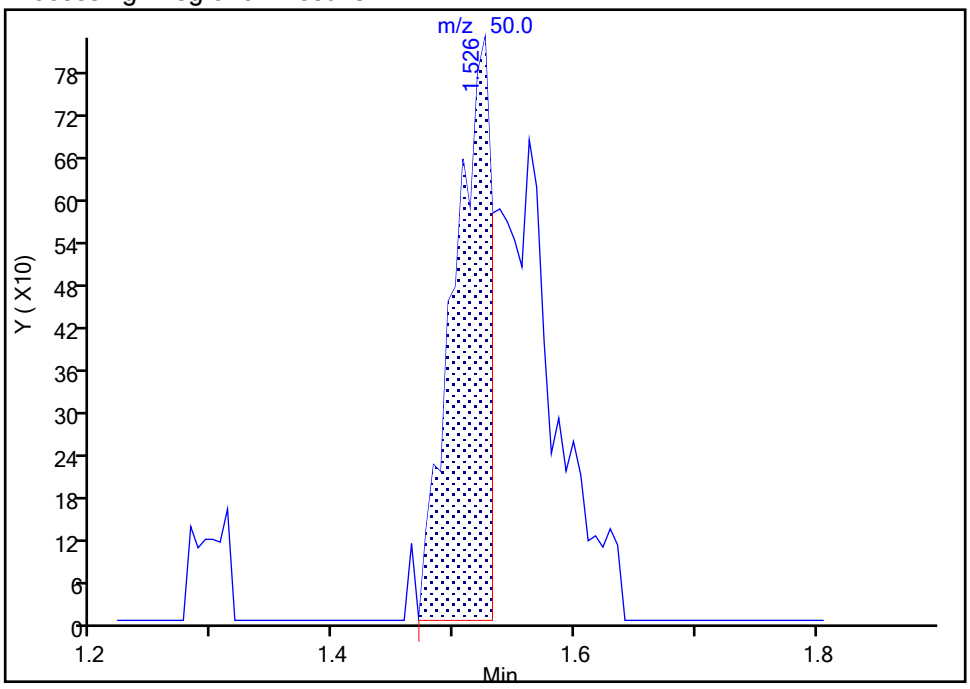
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

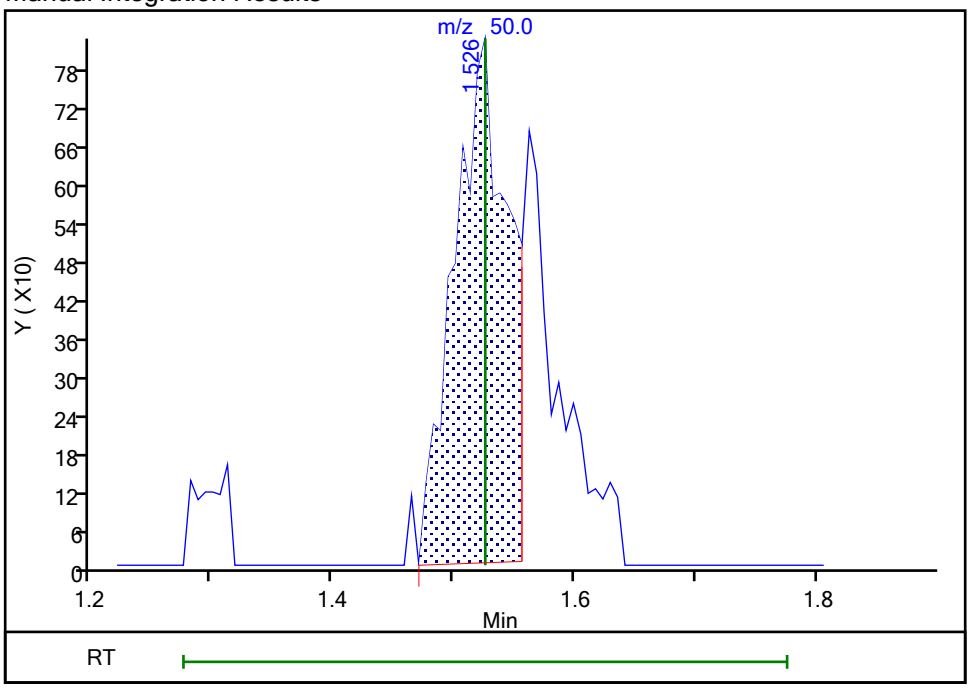
Processing Integration Results

RT: 1.53
Area: 1794
Amount: 1.094057
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 2579
Amount: 1.011866
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

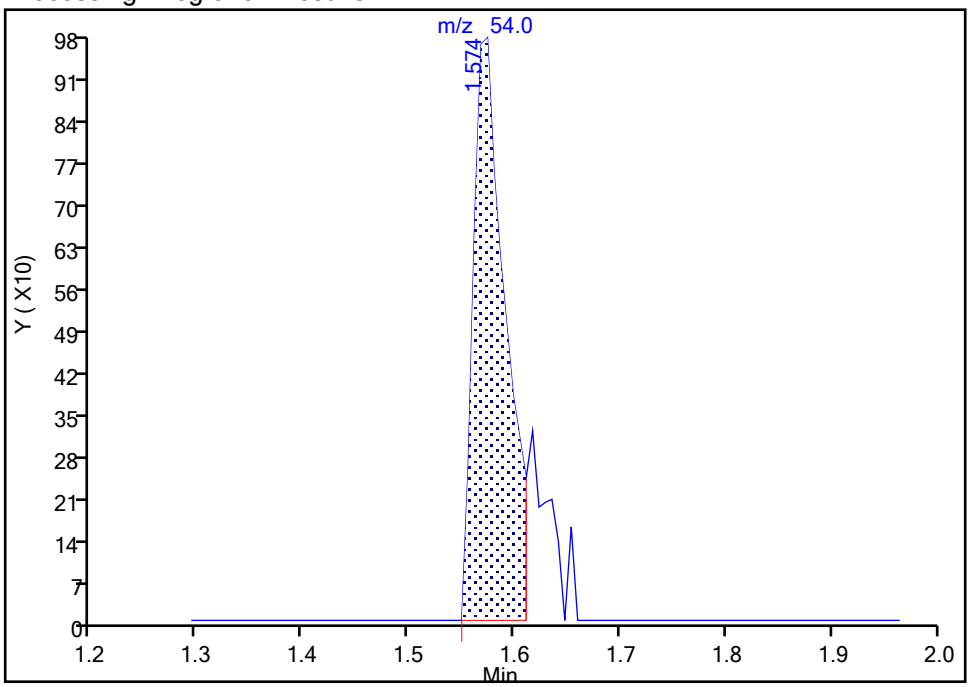
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

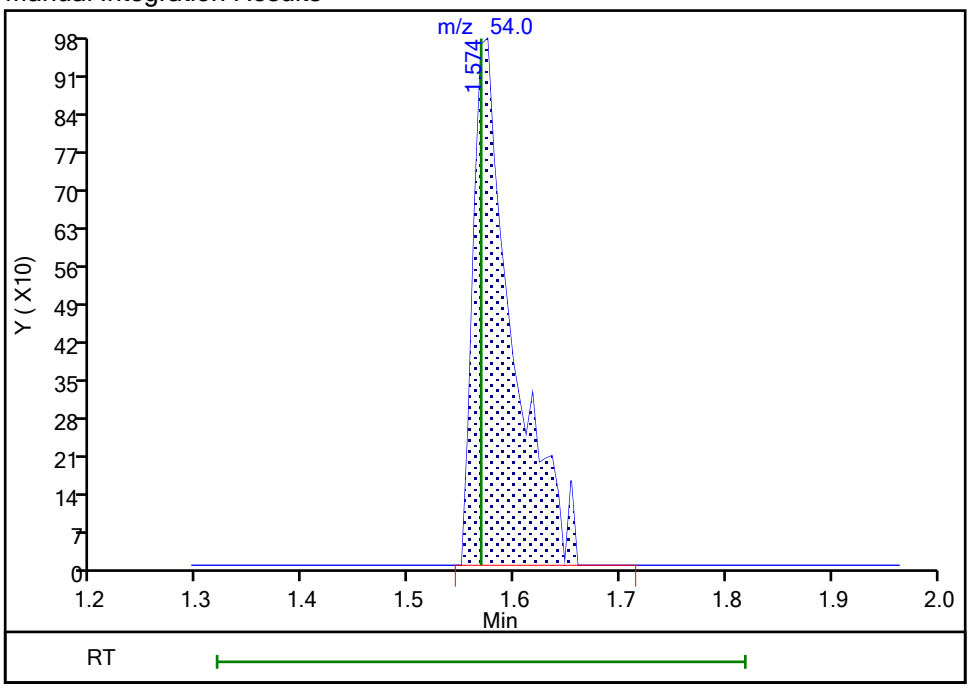
Processing Integration Results

RT: 1.57
Area: 2056
Amount: 0.813939
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 2492
Amount: 0.790516
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

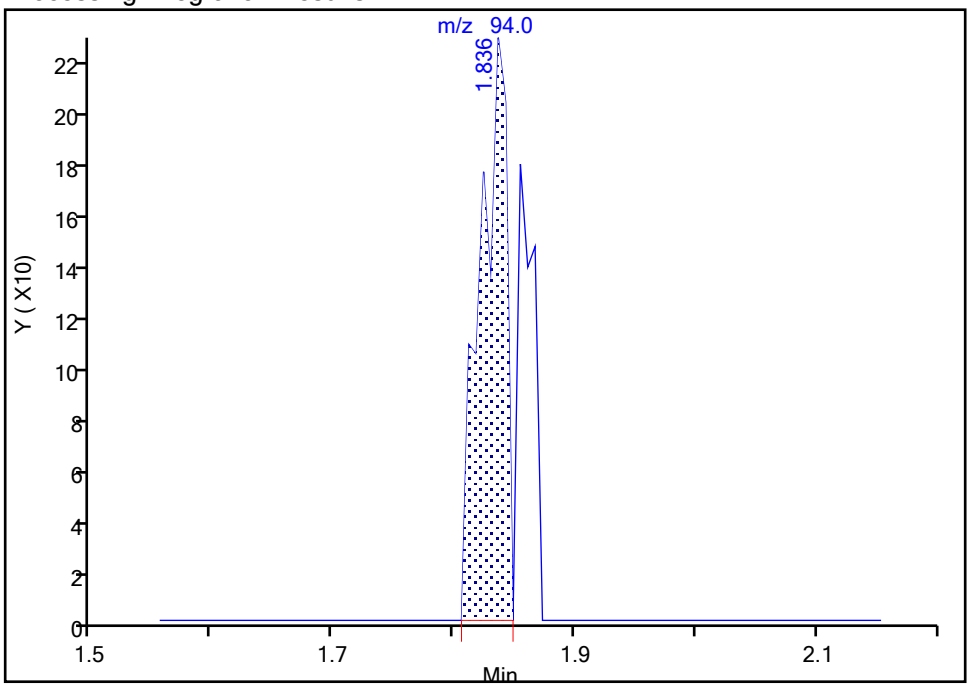
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

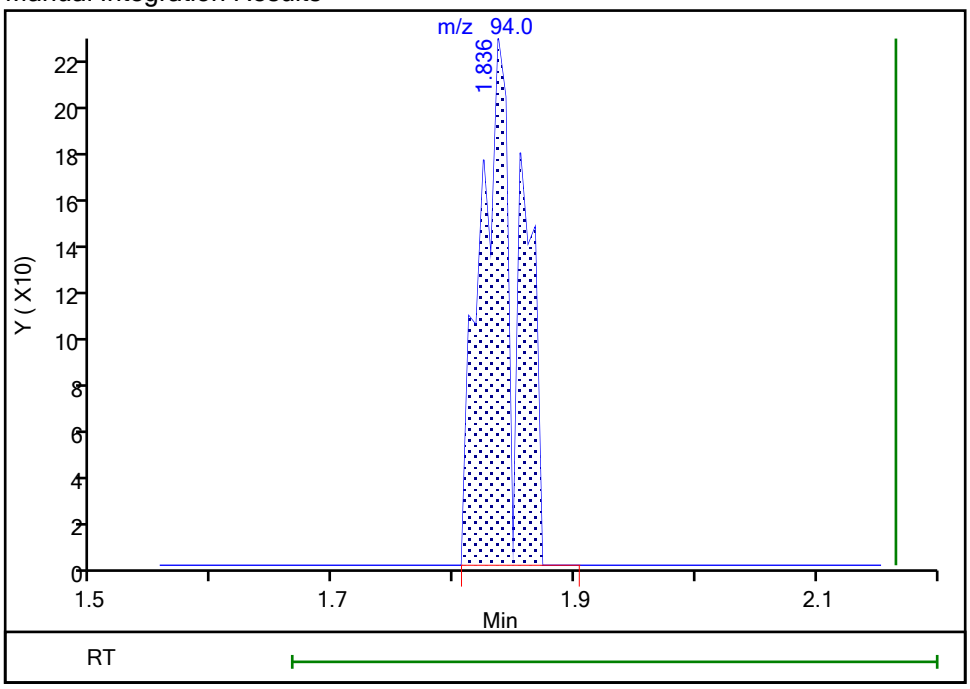
Processing Integration Results

RT: 1.84
Area: 345
Amount: 1.066768
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 513
Amount: 1.029662
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

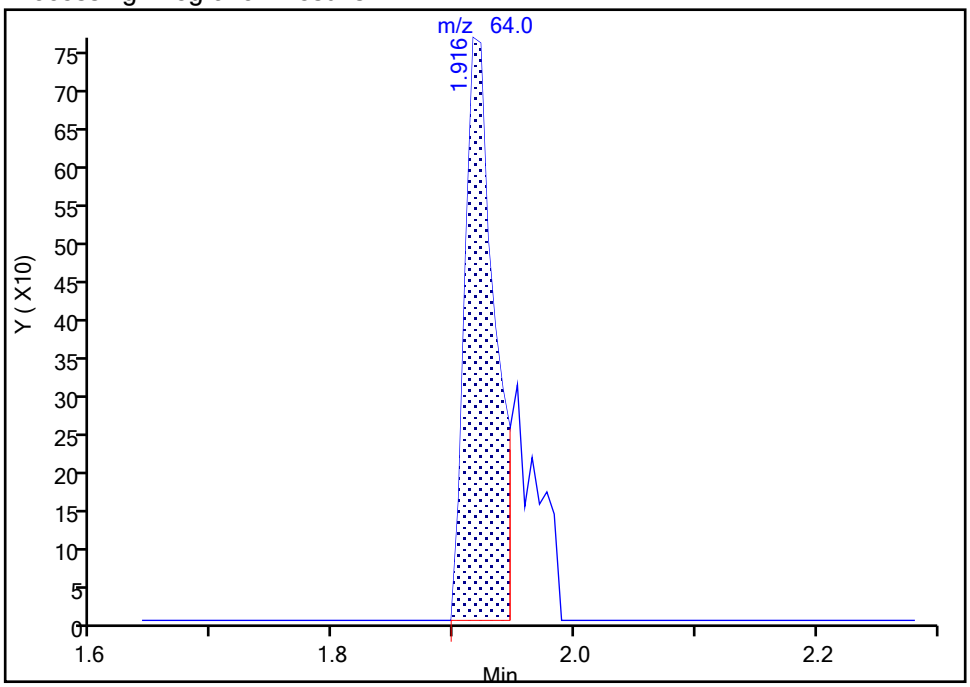
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

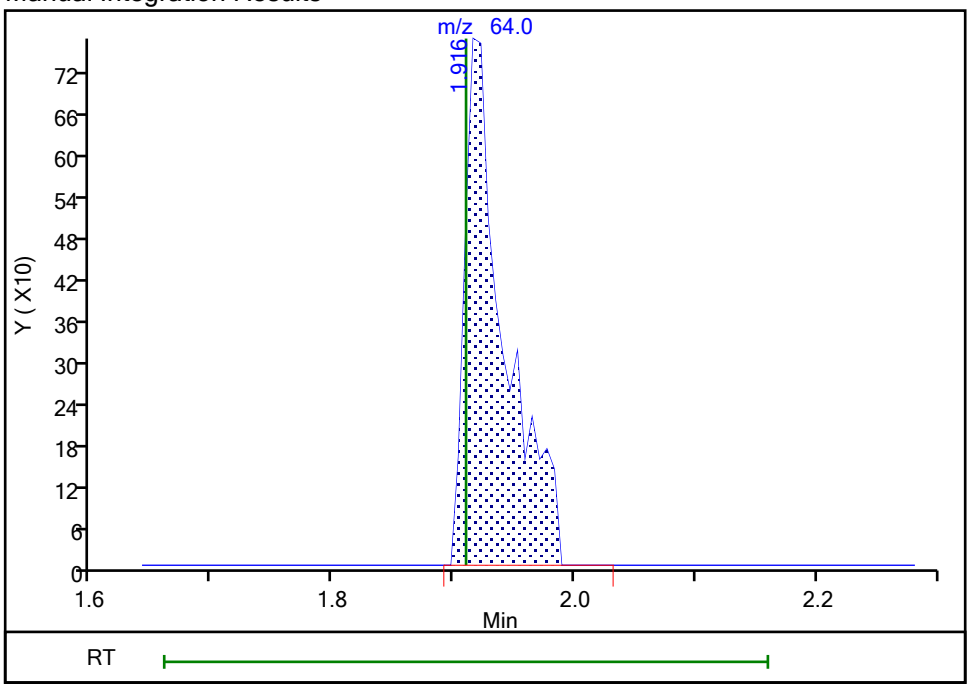
Processing Integration Results

RT: 1.92
Area: 1319
Amount: 0.875095
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 1732
Amount: 0.960814
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:09
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

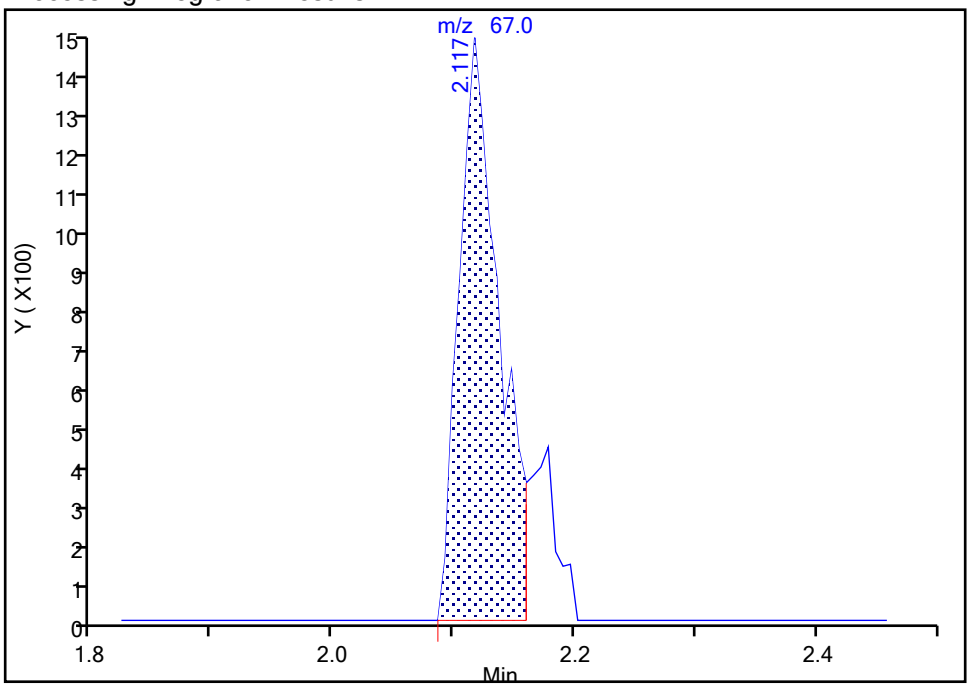
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

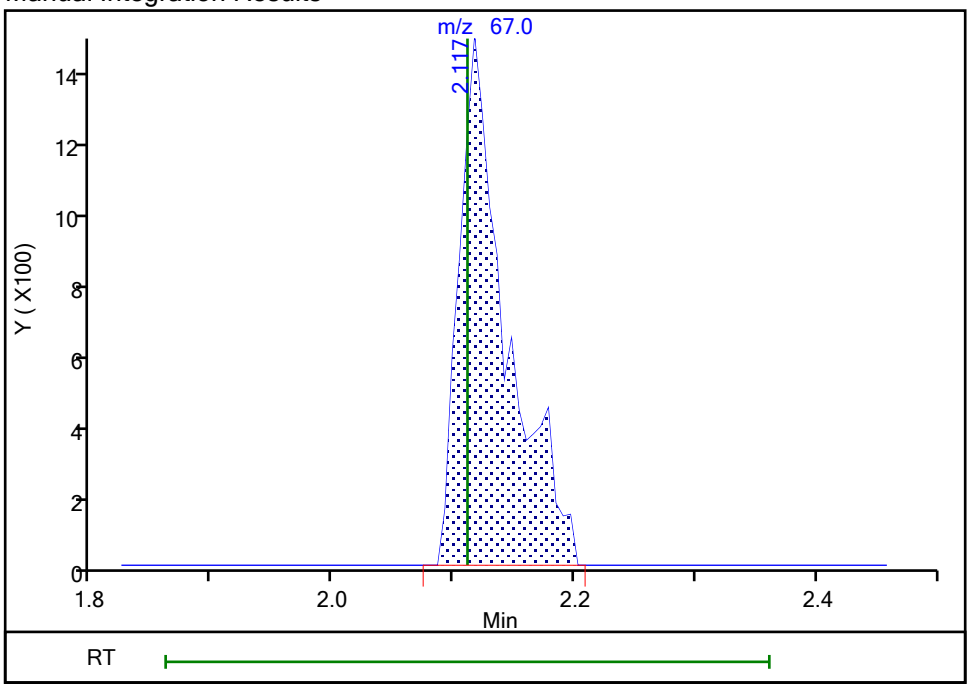
Processing Integration Results

RT: 2.12
Area: 3424
Amount: 0.893242
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 4026
Amount: 0.933480
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

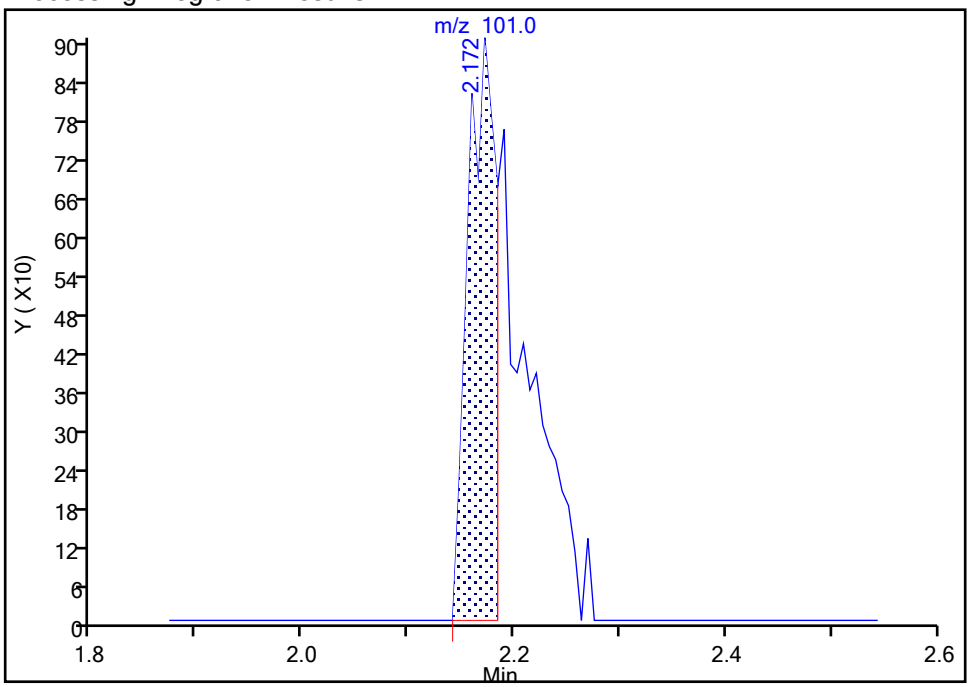
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

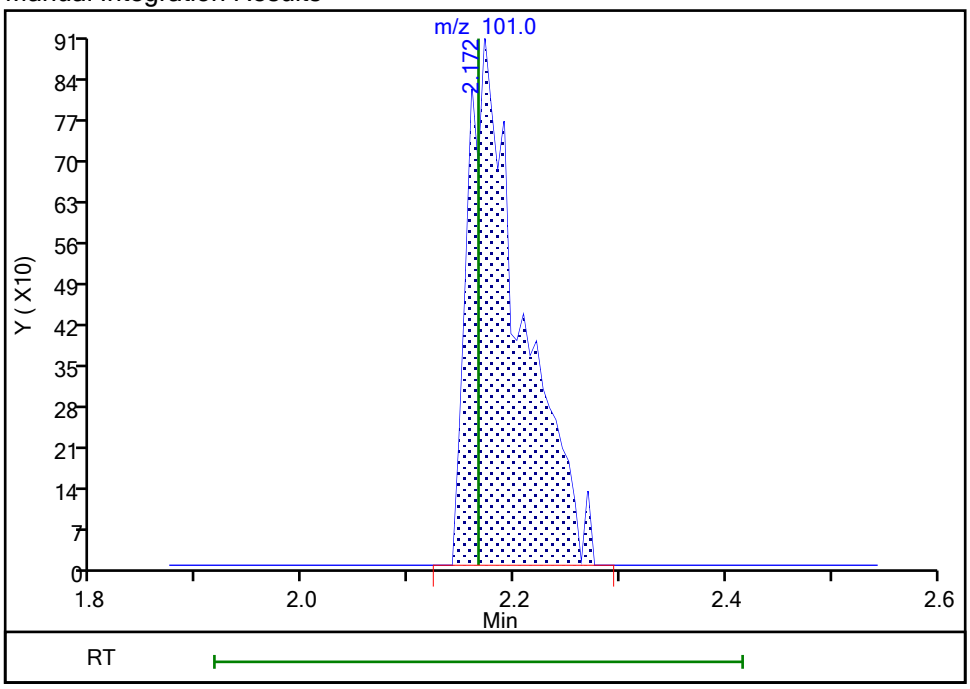
Processing Integration Results

RT: 2.17
Area: 1676
Amount: 0.568484
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 3203
Amount: 0.777283
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:00:18
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

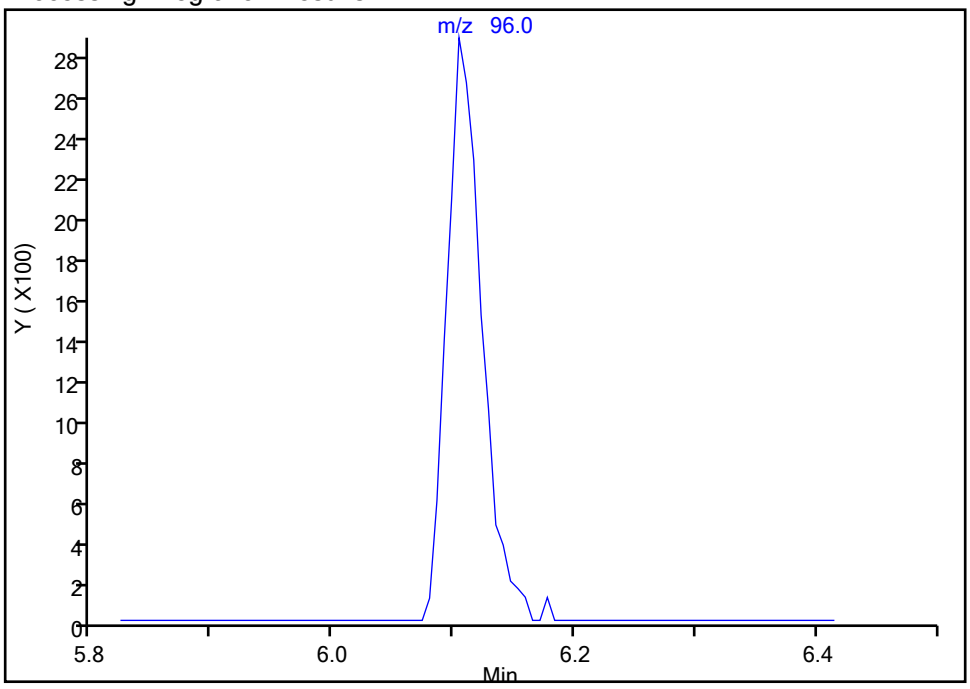
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5904.D
Injection Date: 14-Oct-2020 05:06:30 Instrument ID: Calvin
Lims ID: std2
Client ID:
Operator ID: sjn ALS Bottle#: 44 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

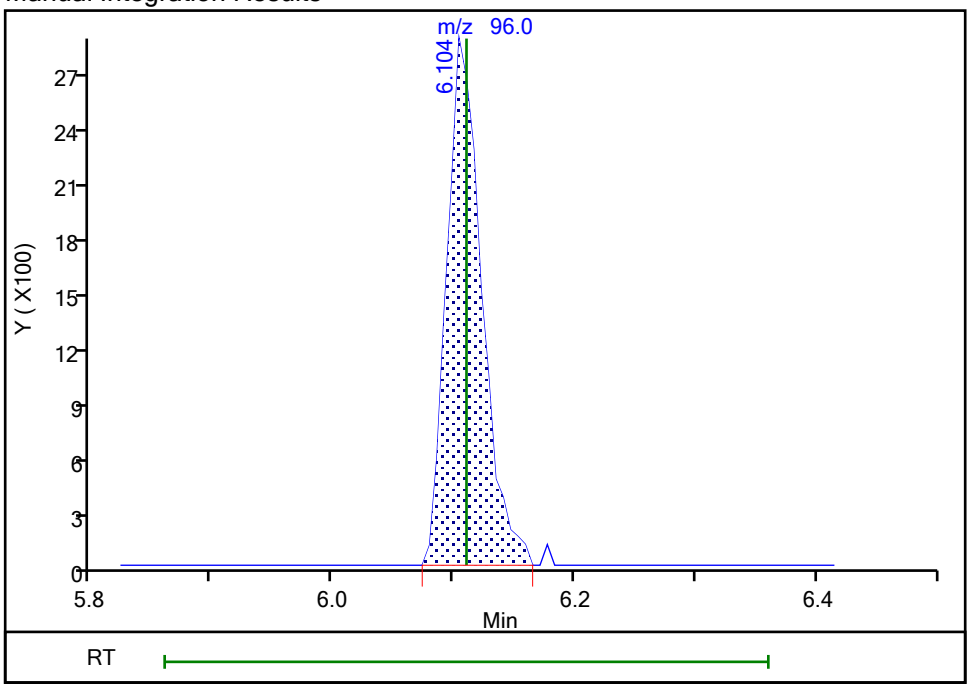
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5827
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:59:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Oct-2020 05:31:30 ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:10 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:08:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	168418	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5844	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	126544	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59292	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	91	36630	50.0	48.5	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	163258	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	87	49118	50.0	50.6	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	6625	2.00	1.92	M
10 Chloromethane	50	1.532	1.526	0.006	58	5345	2.00	2.11	M
11 Vinyl chloride	62	1.538	1.532	0.006	97	6319	2.00	2.04	M
12 Butadiene	54	1.574	1.568	0.006	89	6467	2.00	2.06	M
14 Chloroethane	64	1.916	1.910	0.006	96	3652	2.00	2.03	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	96	8867	2.00	2.06	M
13 Bromomethane	94	1.830	2.166	-0.336	68	1324	2.00	1.95	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	96	7935	2.00	1.93	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

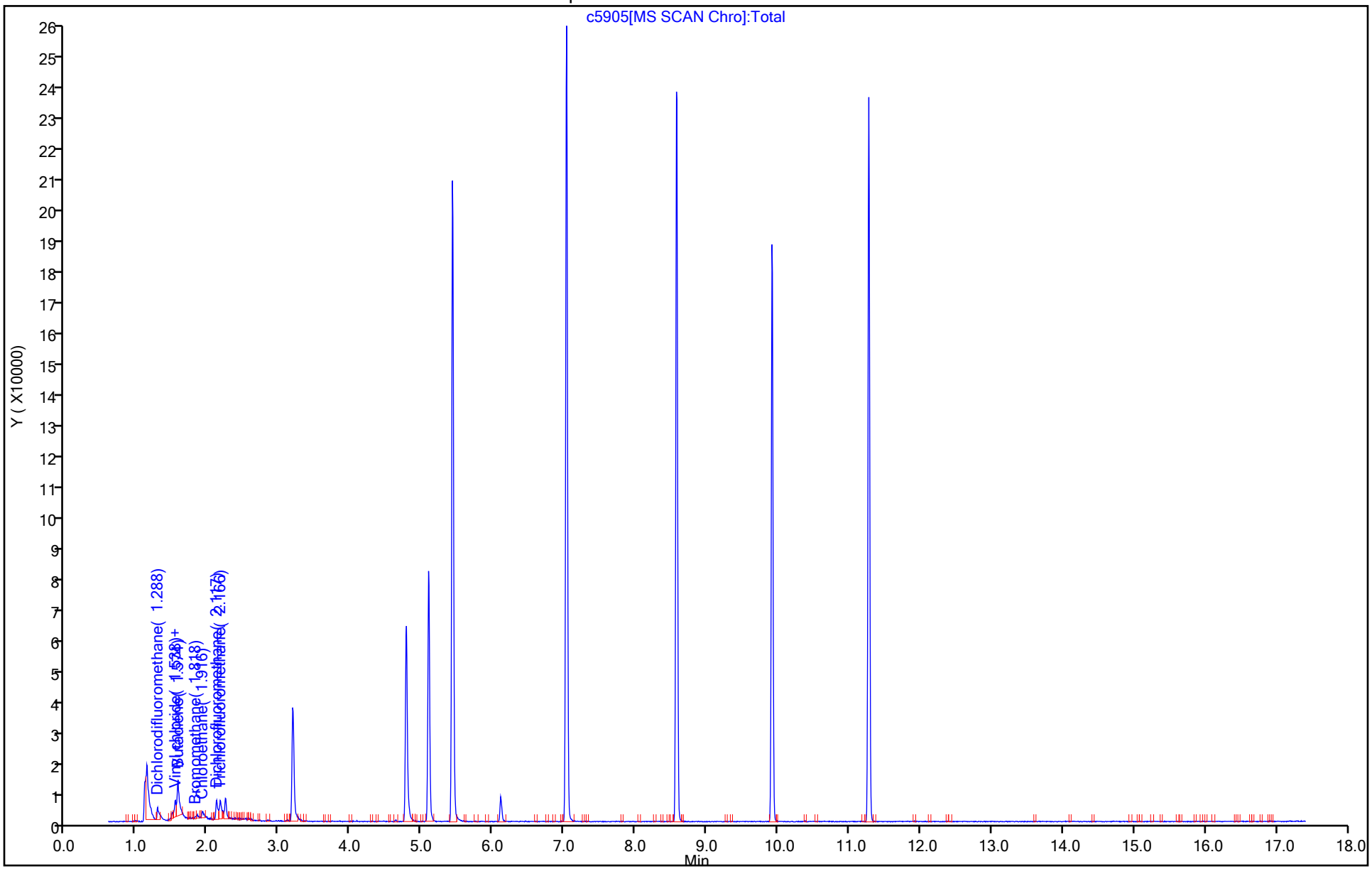
VV_I_GASES_00409 Amount Added: 2.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:10 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D

Injection Date:	14-Oct-2020 05:31:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std3			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

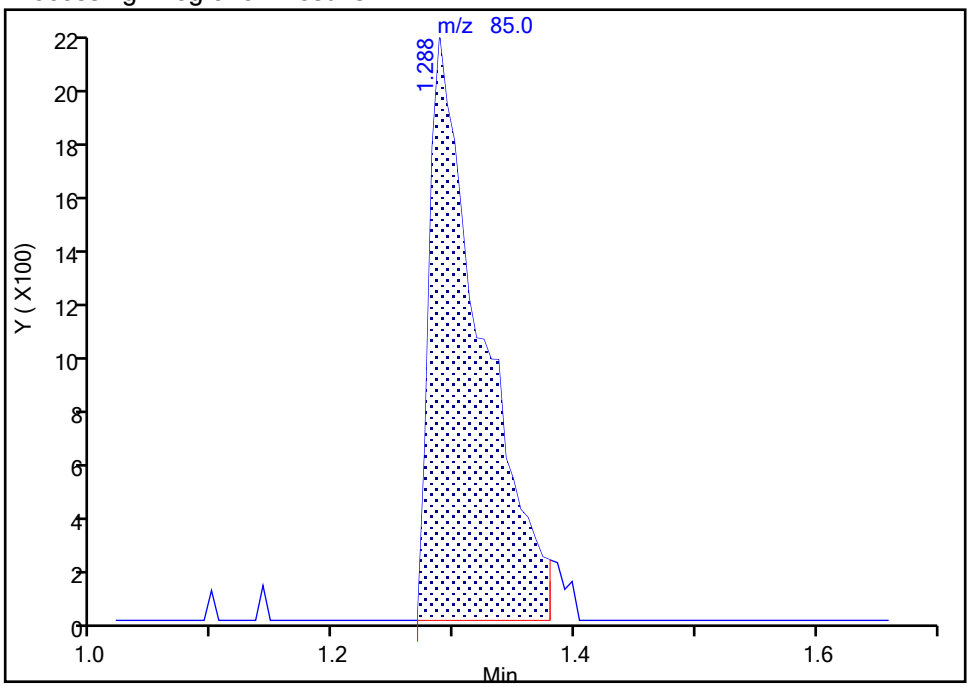
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

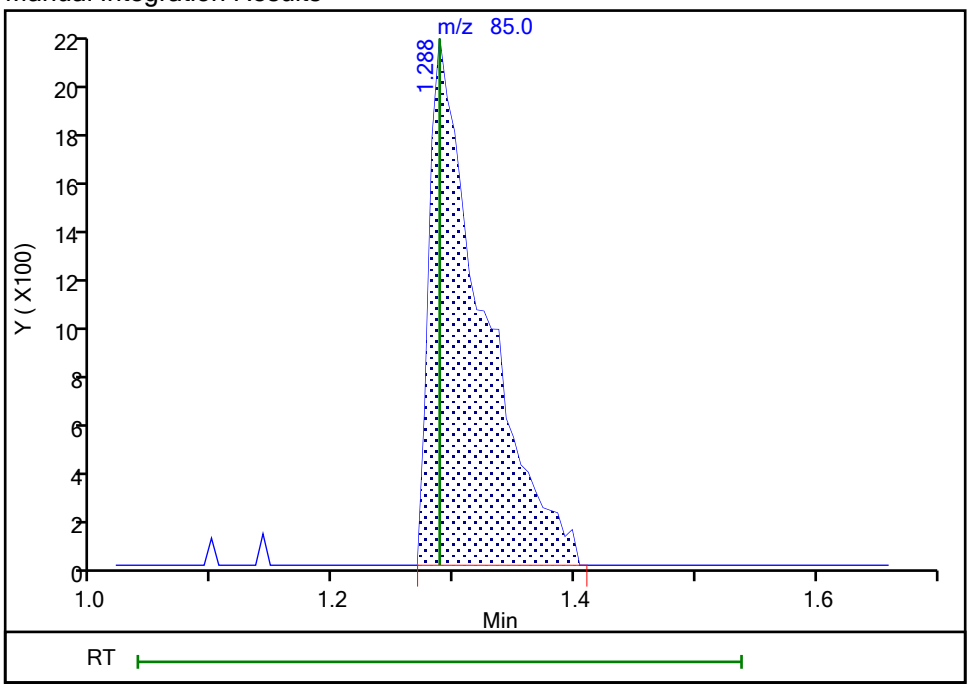
Processing Integration Results

RT: 1.29
Area: 6452
Amount: 2.024532
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 6625
Amount: 1.923343
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:19
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

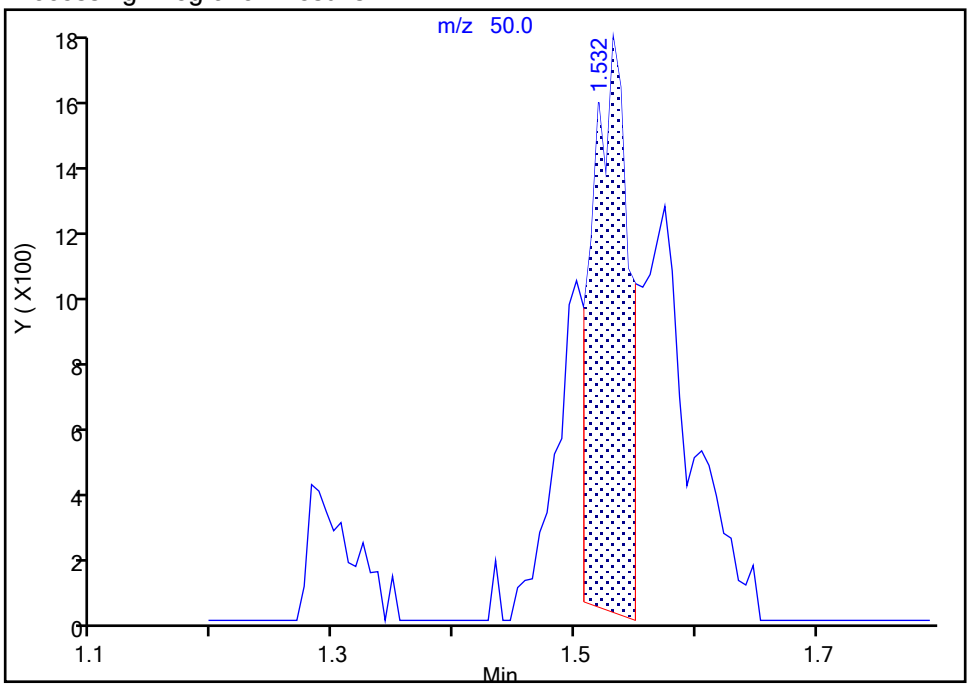
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

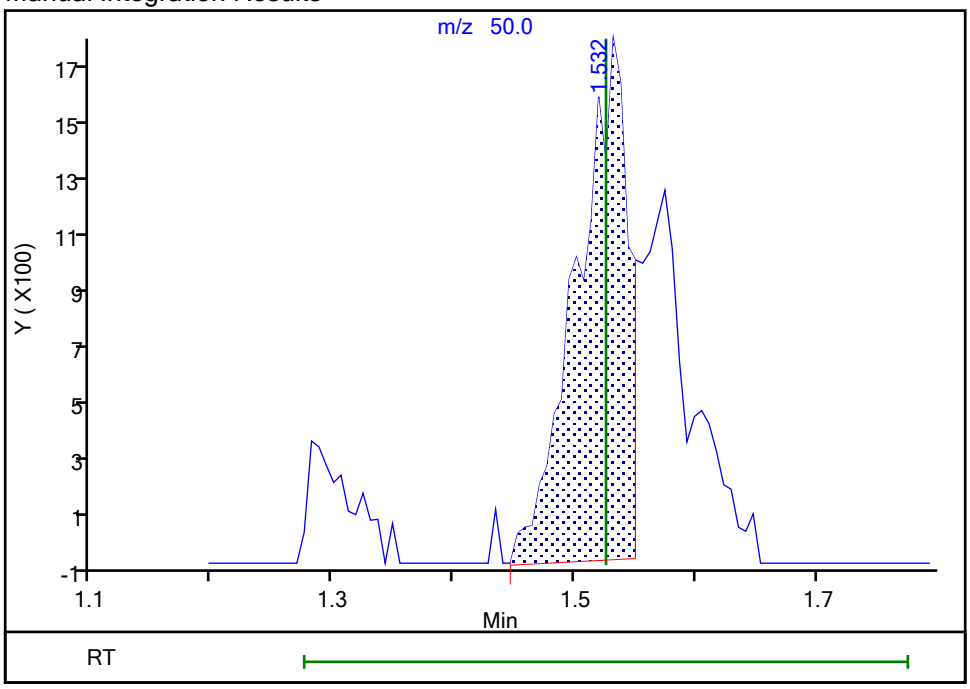
Processing Integration Results

RT: 1.53
Area: 3812
Amount: 2.161595
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 5345
Amount: 2.105531
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

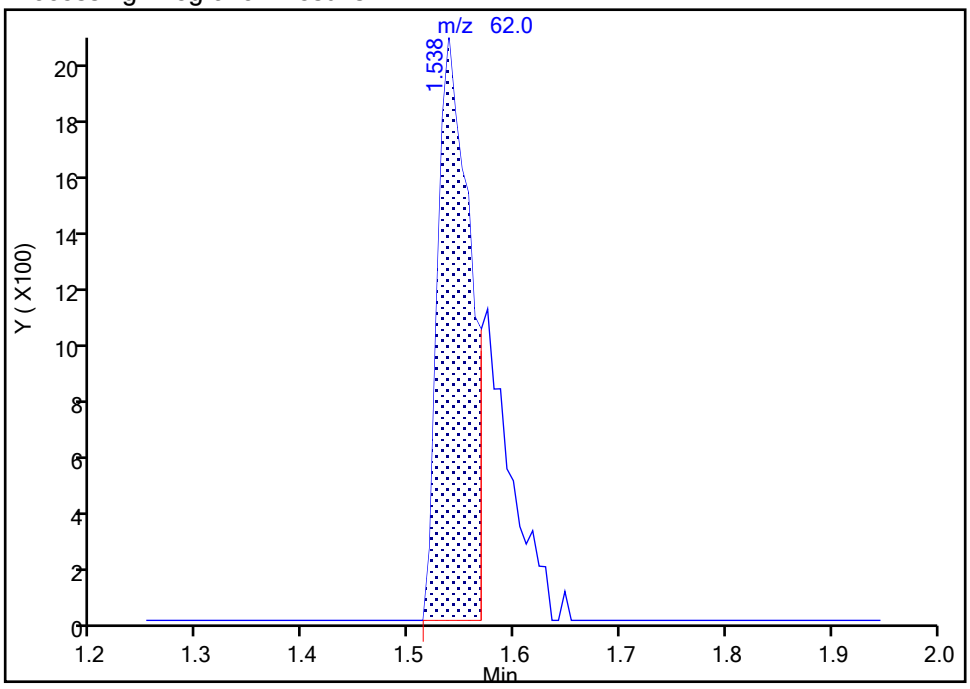
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

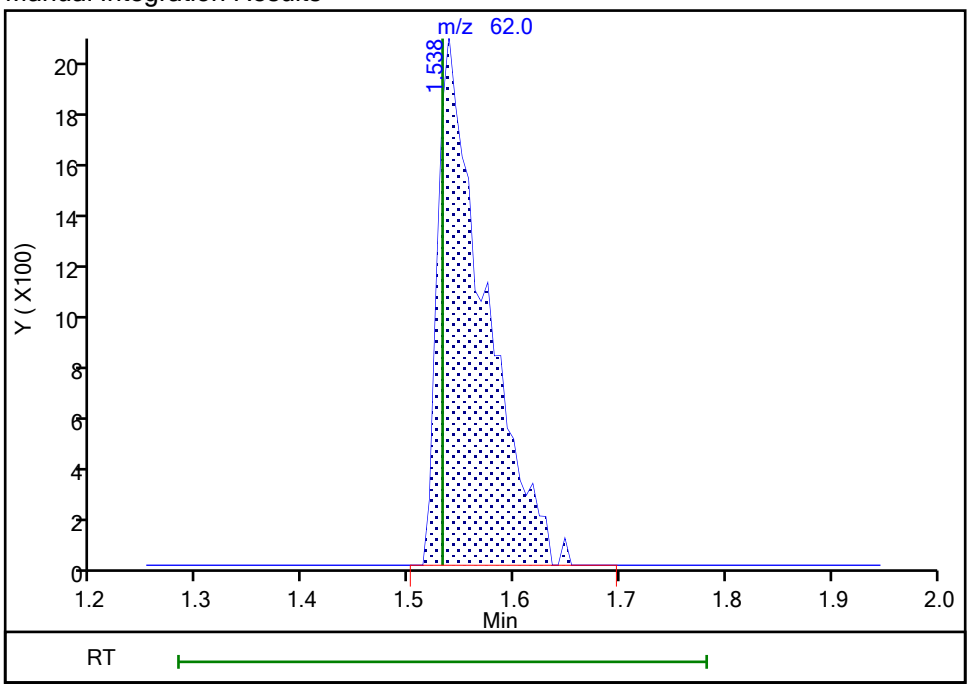
Processing Integration Results

RT: 1.54
Area: 4434
Amount: 1.611471
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 6319
Amount: 2.036082
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:05
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

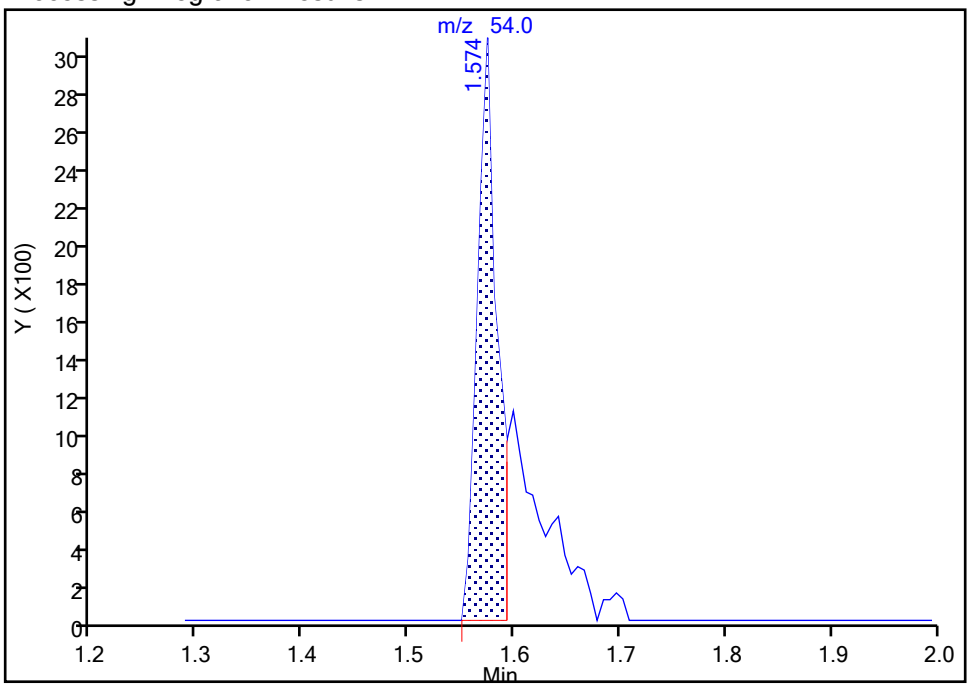
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

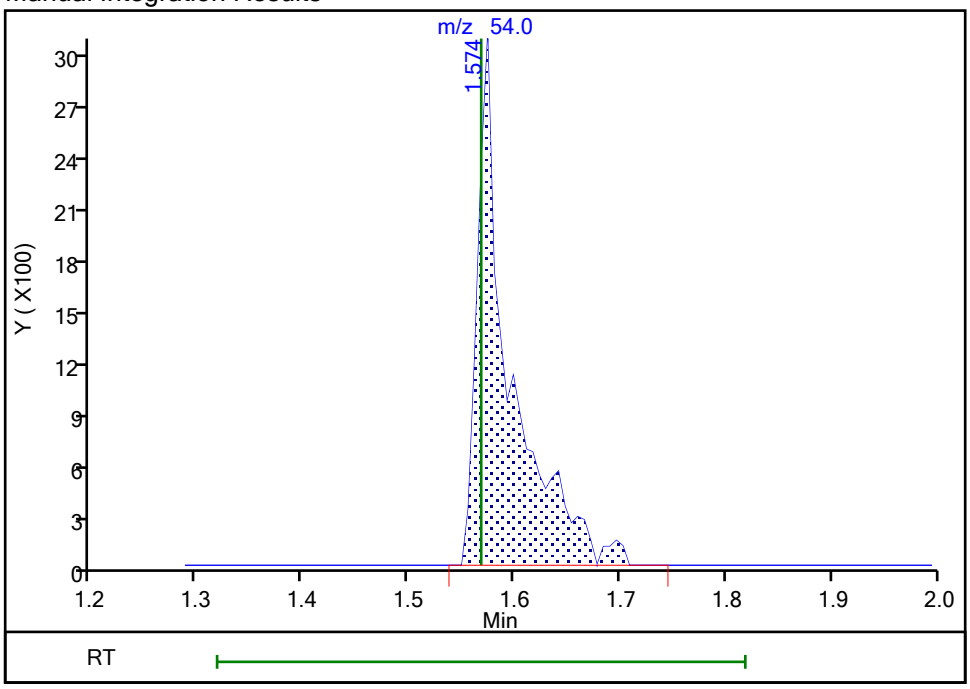
Processing Integration Results

RT: 1.57
Area: 3917
Amount: 1.513378
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 6467
Amount: 2.059717
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

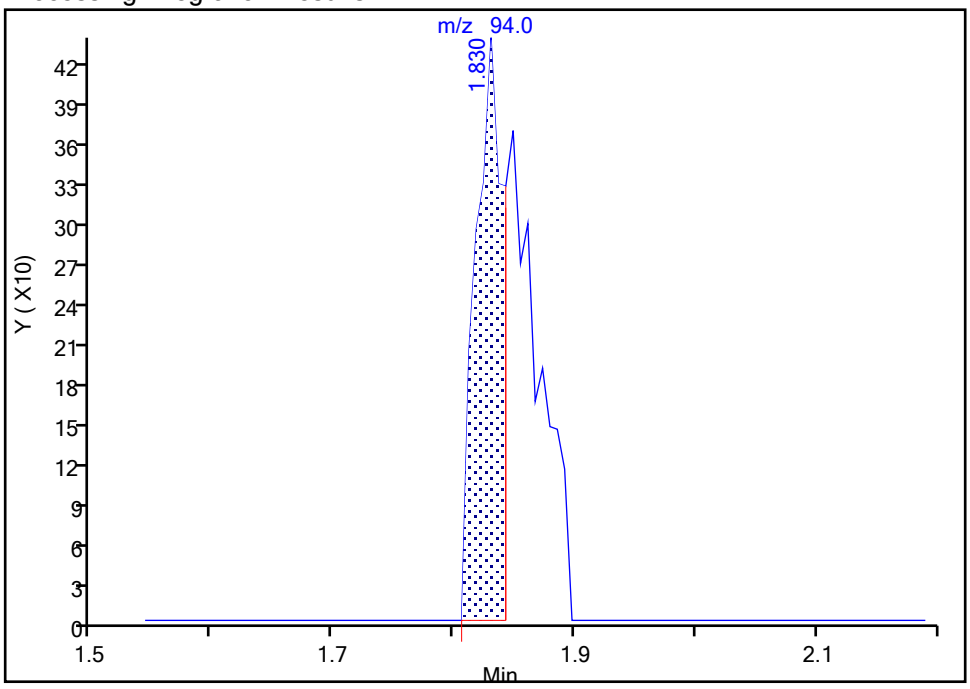
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

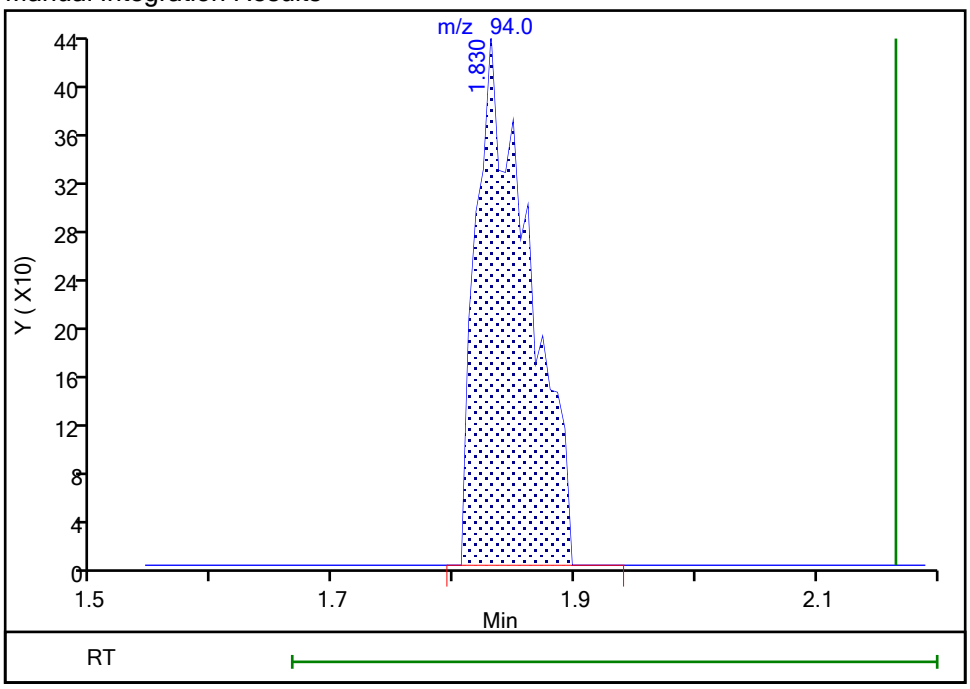
Processing Integration Results

RT: 1.83
Area: 703
Amount: 1.502875
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 1324
Amount: 1.945026
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:58
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

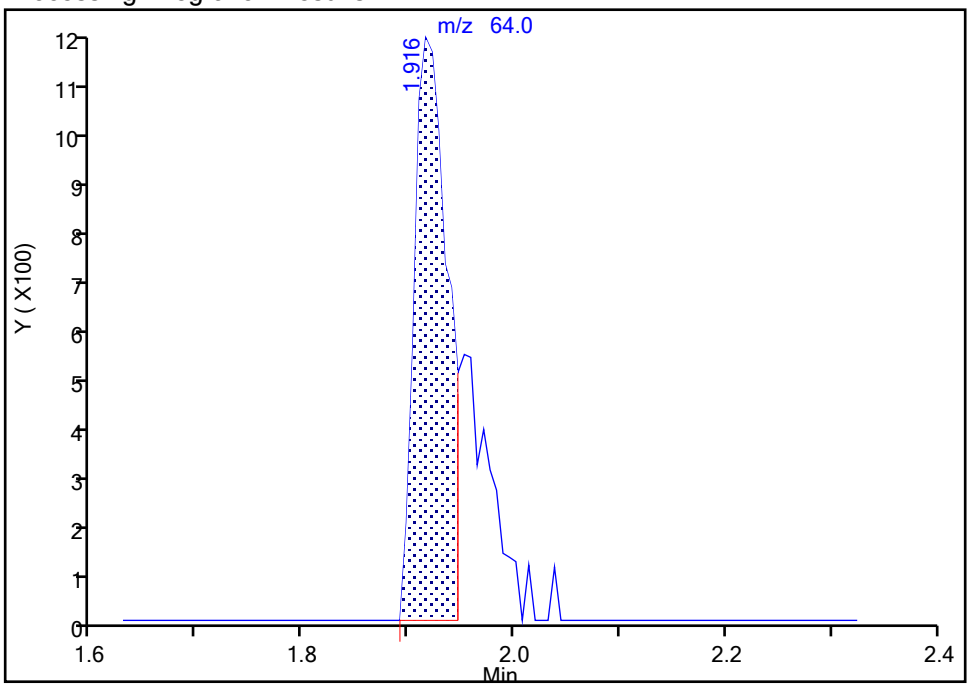
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

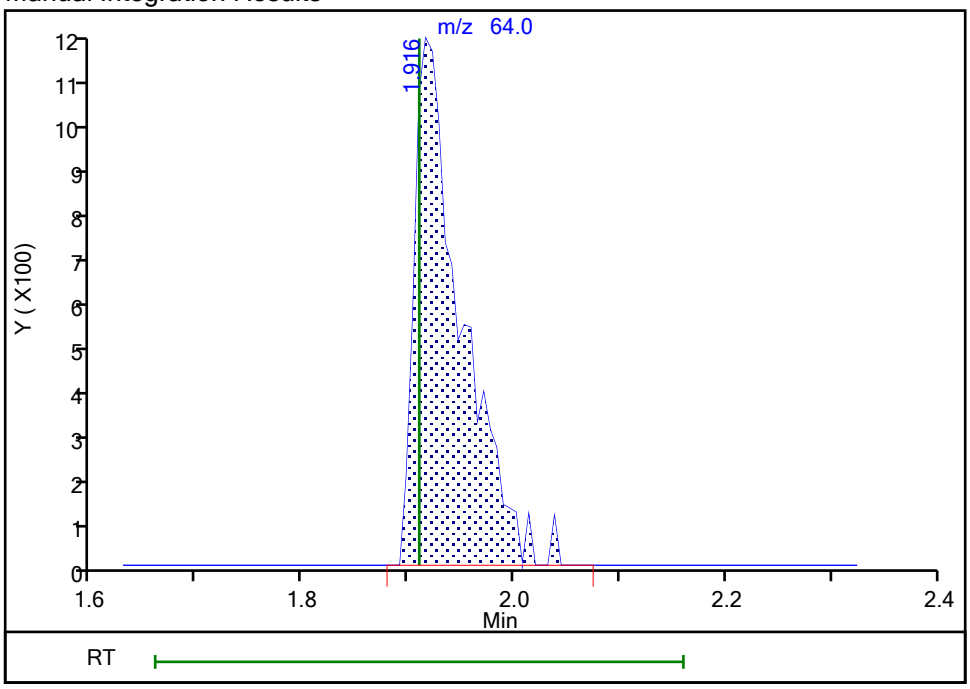
Processing Integration Results

RT: 1.92
Area: 2575
Amount: 1.640348
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 3652
Amount: 2.034064
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

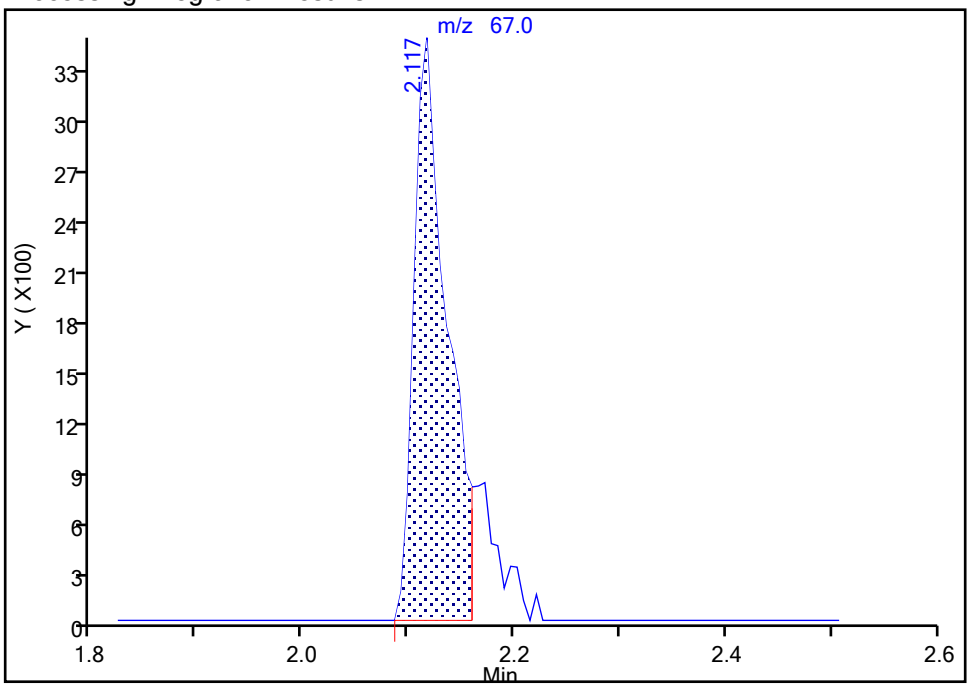
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

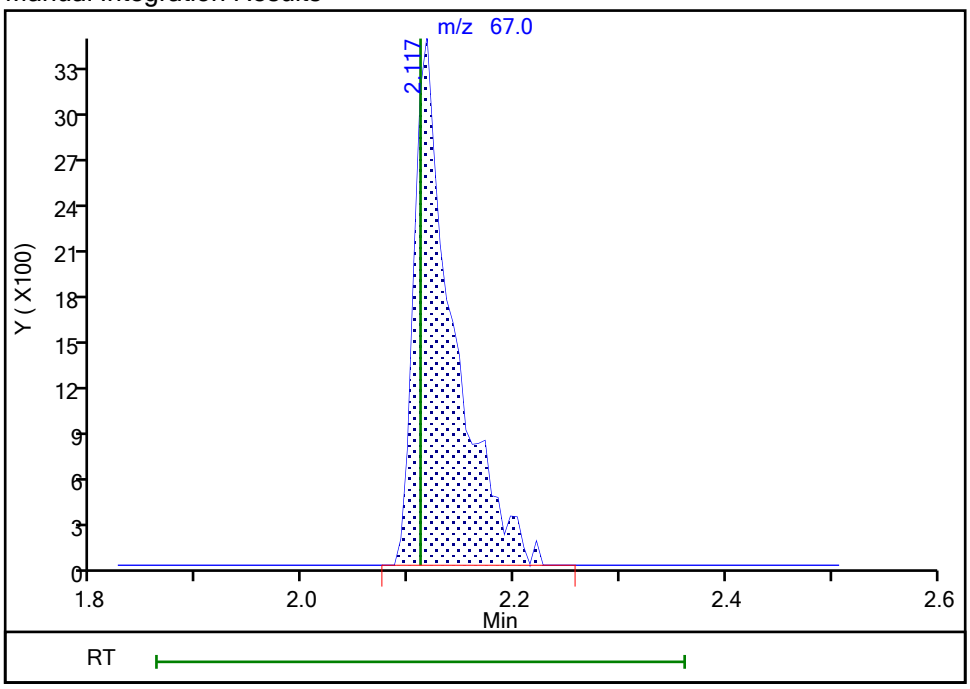
Processing Integration Results

RT: 2.12
Area: 7551
Amount: 1.927352
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 8867
Amount: 2.064192
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

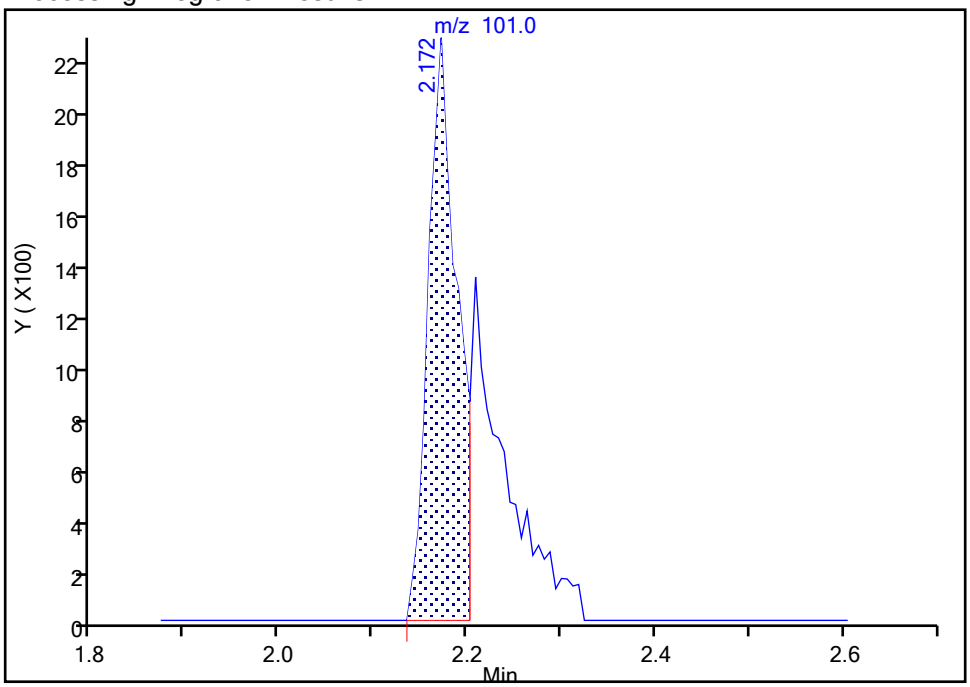
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

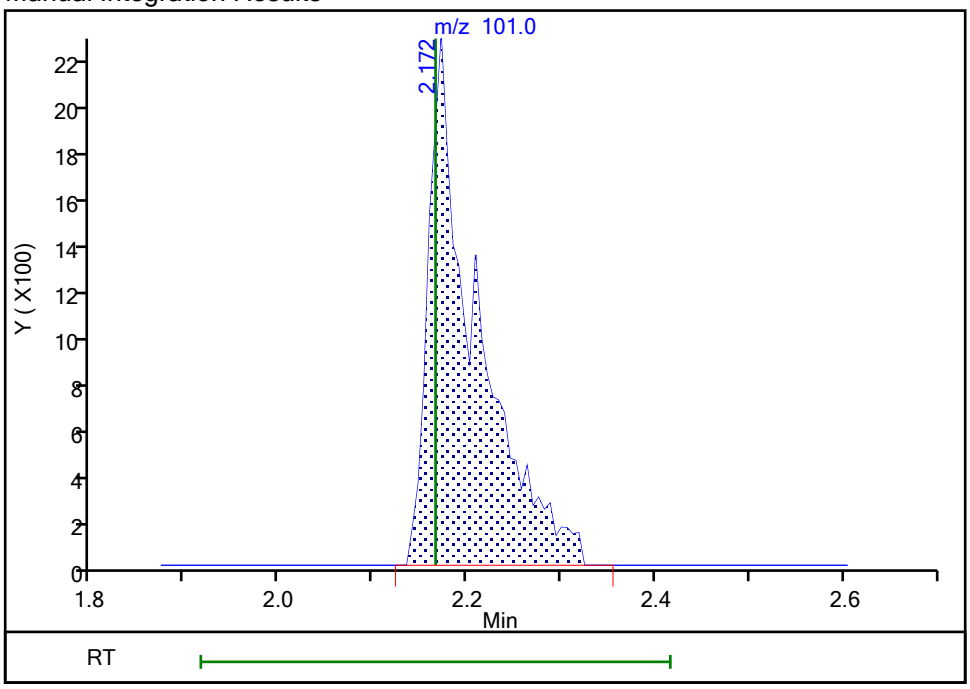
Processing Integration Results

RT: 2.17
Area: 4806
Amount: 1.506645
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 7935
Amount: 1.933354
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:07:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

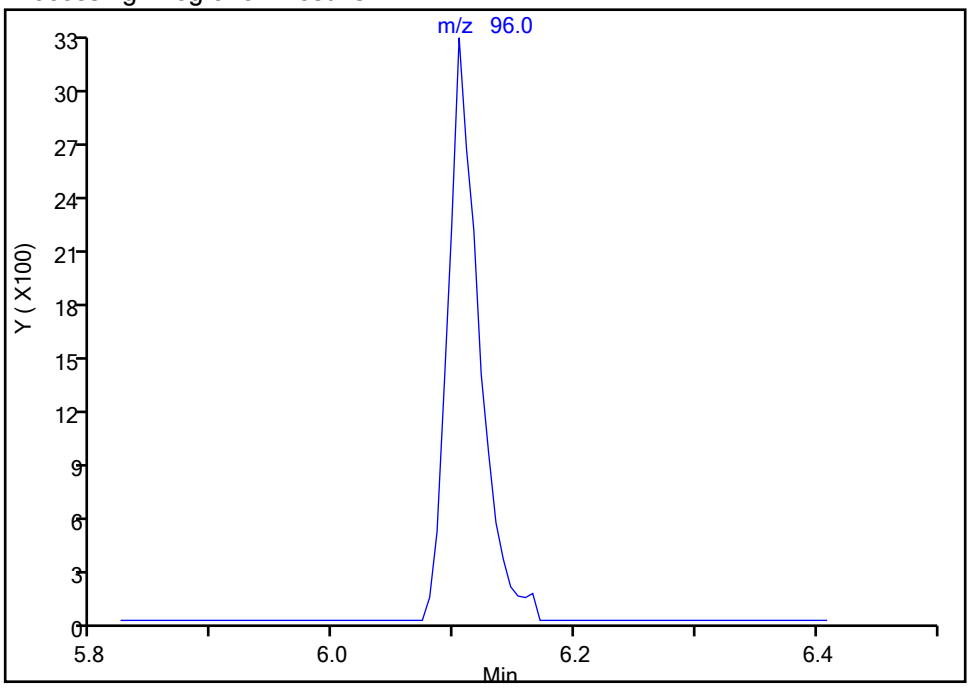
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5905.D
Injection Date: 14-Oct-2020 05:31:30 Instrument ID: Calvin
Lims ID: std3
Client ID:
Operator ID: sjn ALS Bottle#: 45 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

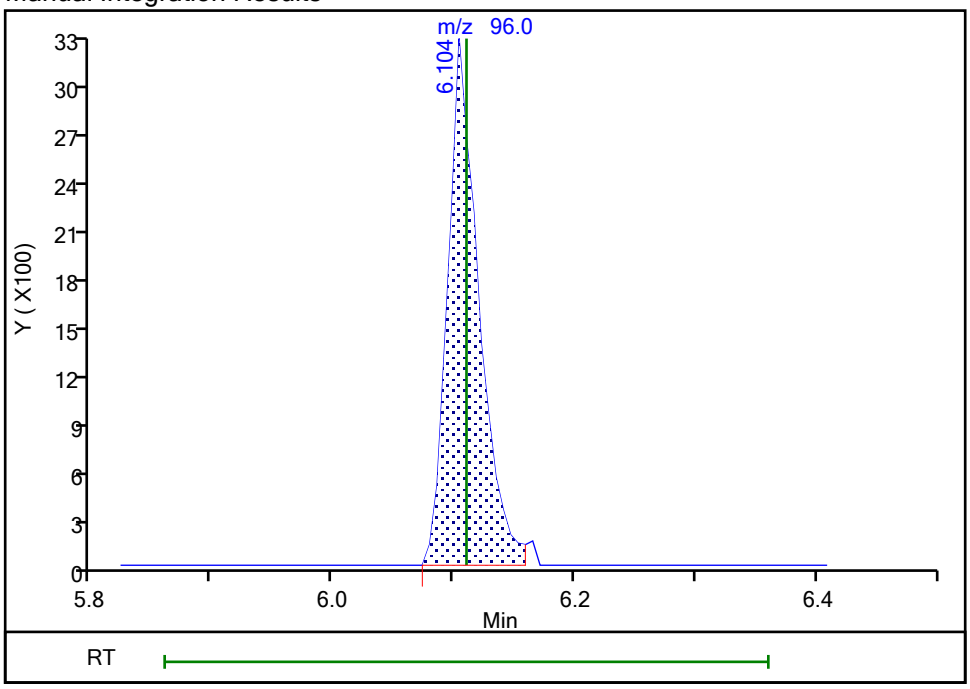
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5844
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:08:24
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Oct-2020 05:55:30 ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:13 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:11:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	167322	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5677	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	124837	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59225	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	37176	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	162720	50.0	50.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	94	49121	50.0	50.7	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	13191	4.00	3.85	M
10 Chloromethane	50	1.526	1.526	0.000	96	9945	4.00	3.94	M
11 Vinyl chloride	62	1.532	1.532	0.000	97	12037	4.00	3.90	
12 Butadiene	54	1.568	1.568	0.000	96	11544	4.00	3.70	M
14 Chloroethane	64	1.916	1.910	0.006	96	6617	4.00	3.71	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	98	16569	4.00	3.88	M
13 Bromomethane	94	1.837	2.166	-0.329	87	2893	4.00	3.73	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	98	15562	4.00	3.82	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

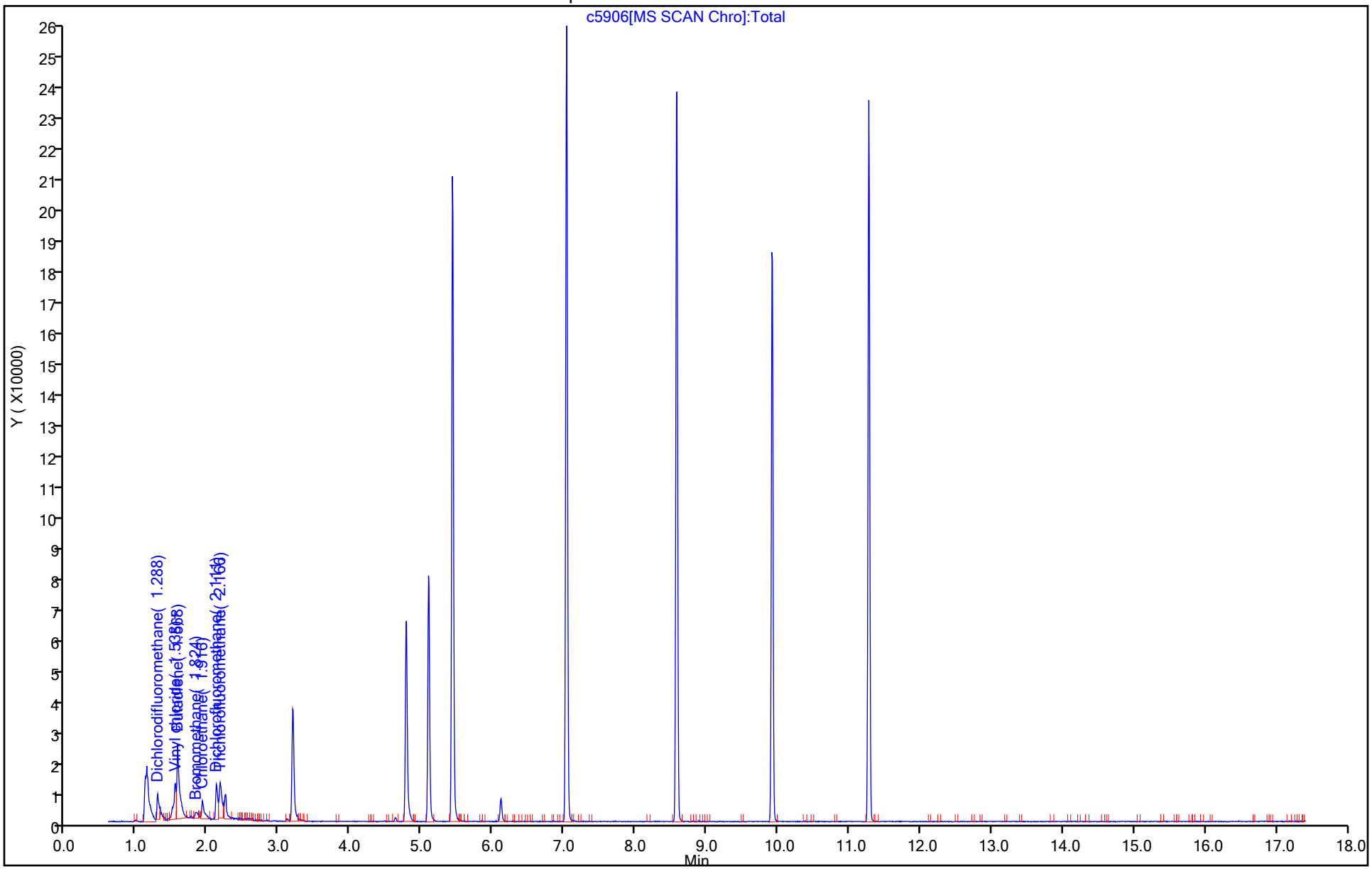
Reagents:

VV_I_GASES_00409 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:13 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D				
Injection Date:	14-Oct-2020 05:55:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std4			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	46
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

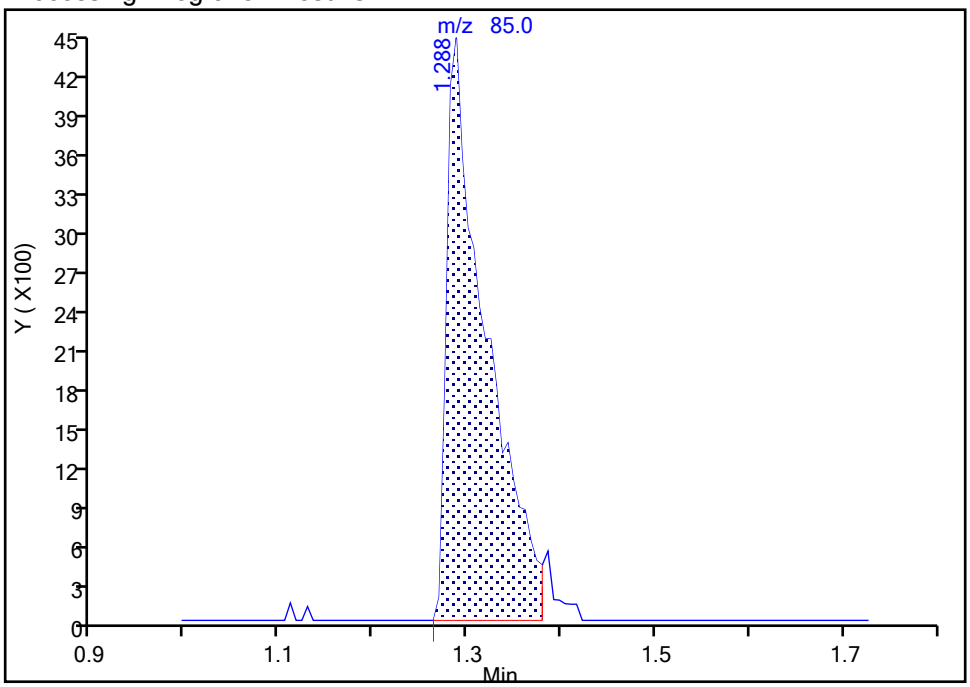
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

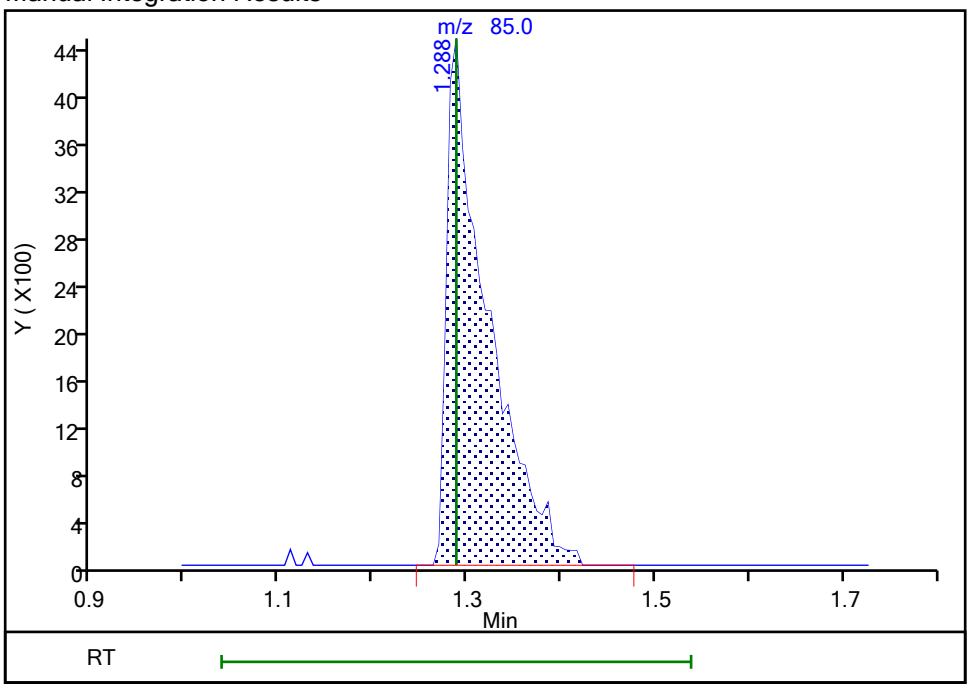
Processing Integration Results

RT: 1.29
Area: 12751
Amount: 4.009127
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 13191
Amount: 3.854643
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:36
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

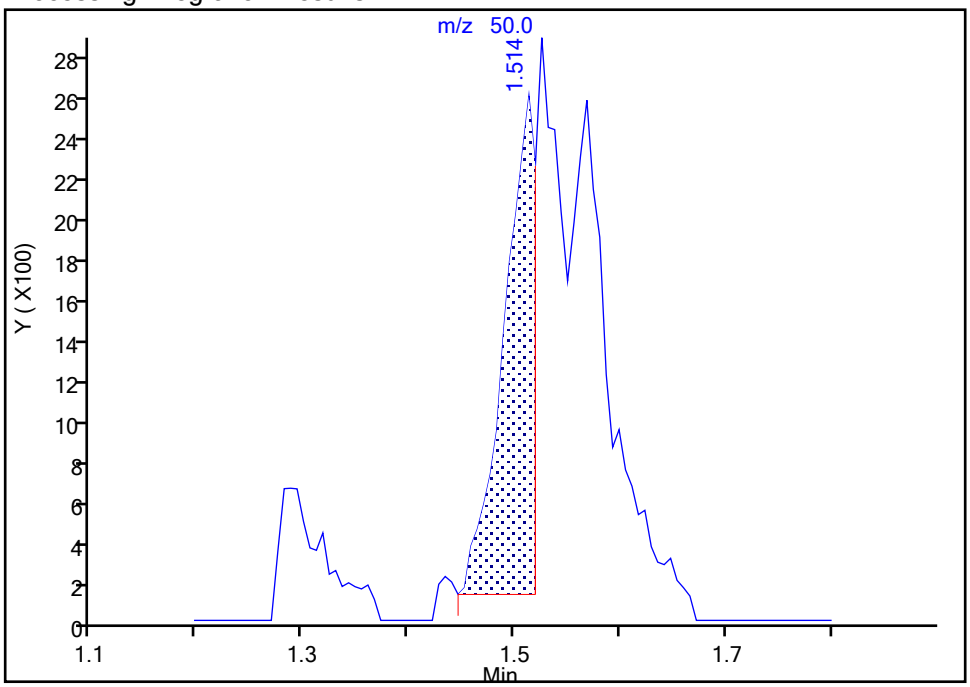
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

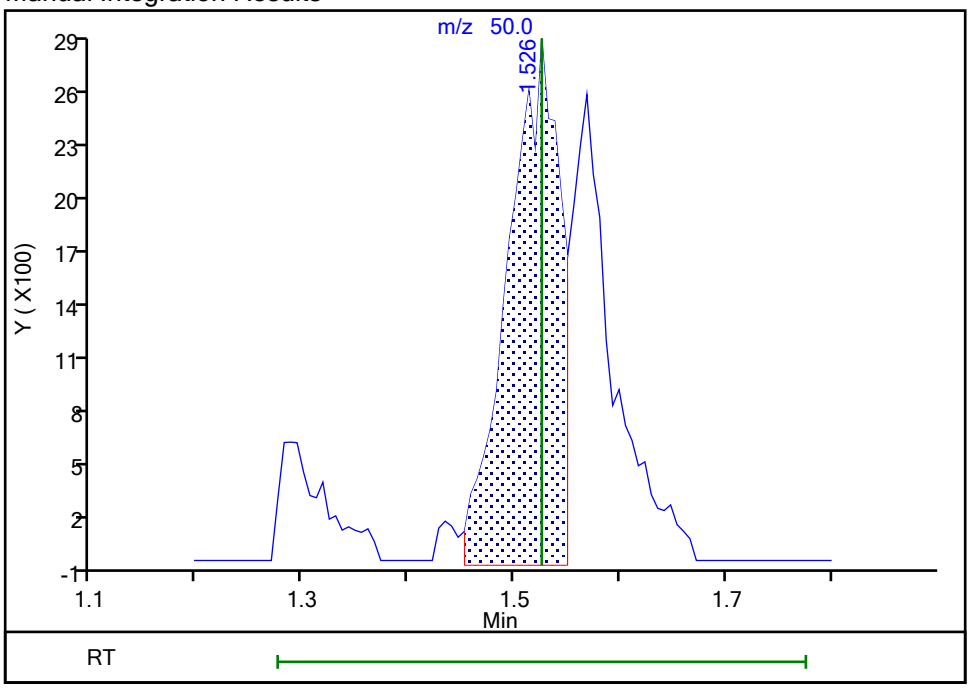
Processing Integration Results

RT: 1.51
Area: 5081
Amount: 2.704163
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 9945
Amount: 3.943250
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:43
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

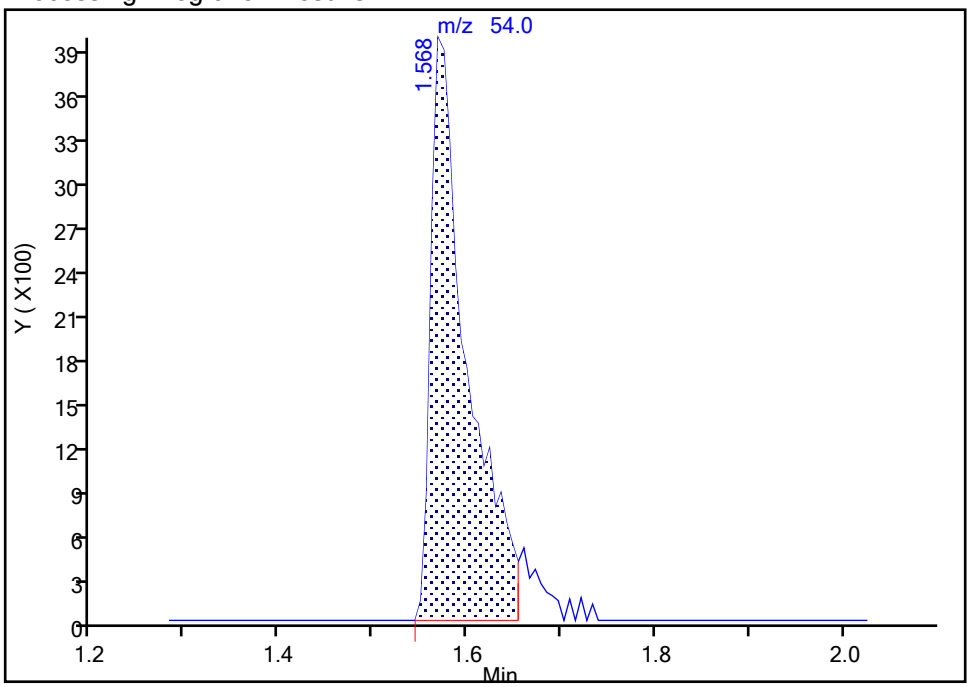
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

12 Butadiene, CAS: 106-99-0

Signal: 1

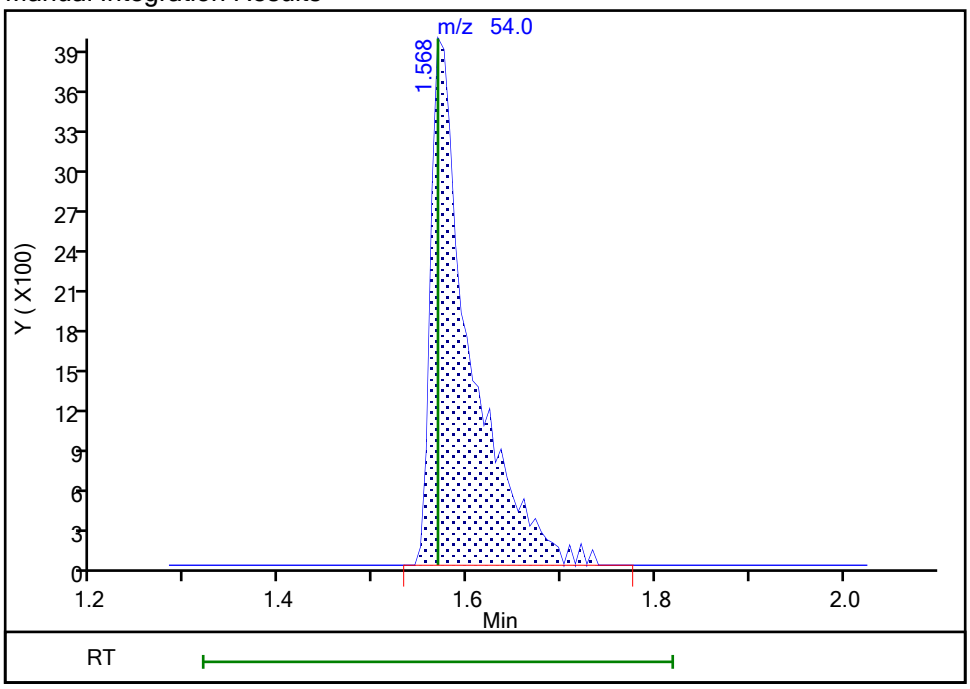
Processing Integration Results

RT: 1.57
Area: 10706
Amount: 3.847587
Amount Units: ug/l



Manual Integration Results

RT: 1.57
Area: 11544
Amount: 3.700808
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:49
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

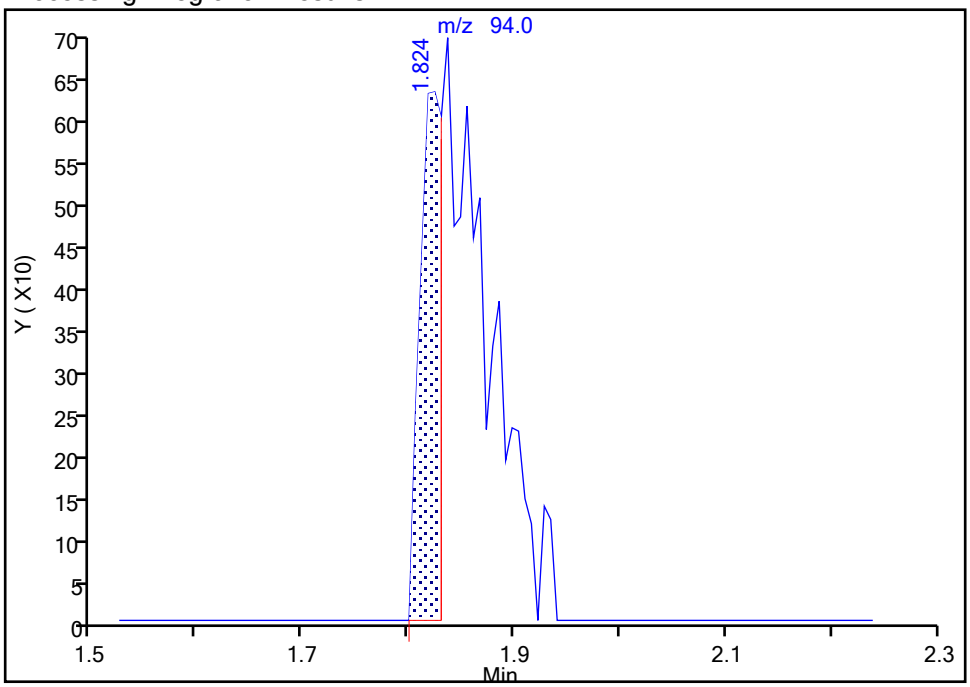
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

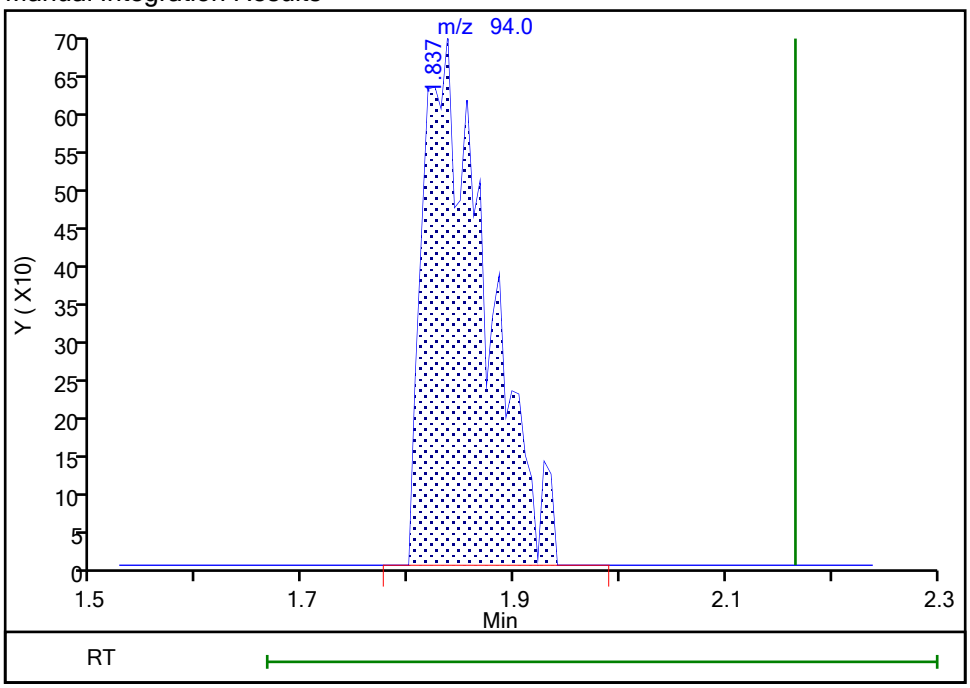
Processing Integration Results

RT: 1.82
Area: 936
Amount: 1.722446
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 2893
Amount: 3.732795
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:52
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

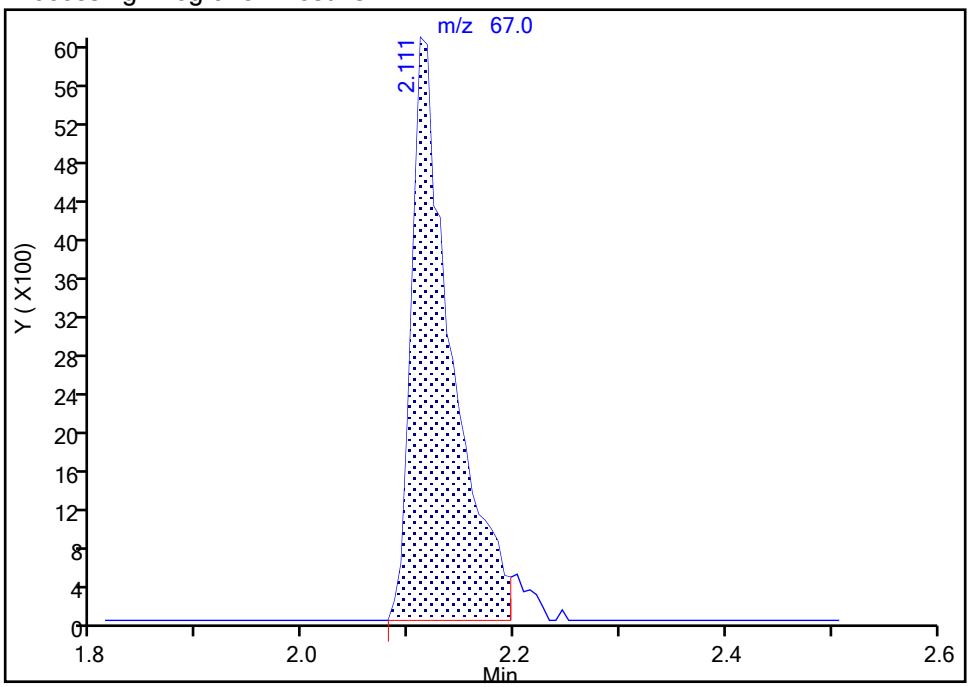
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

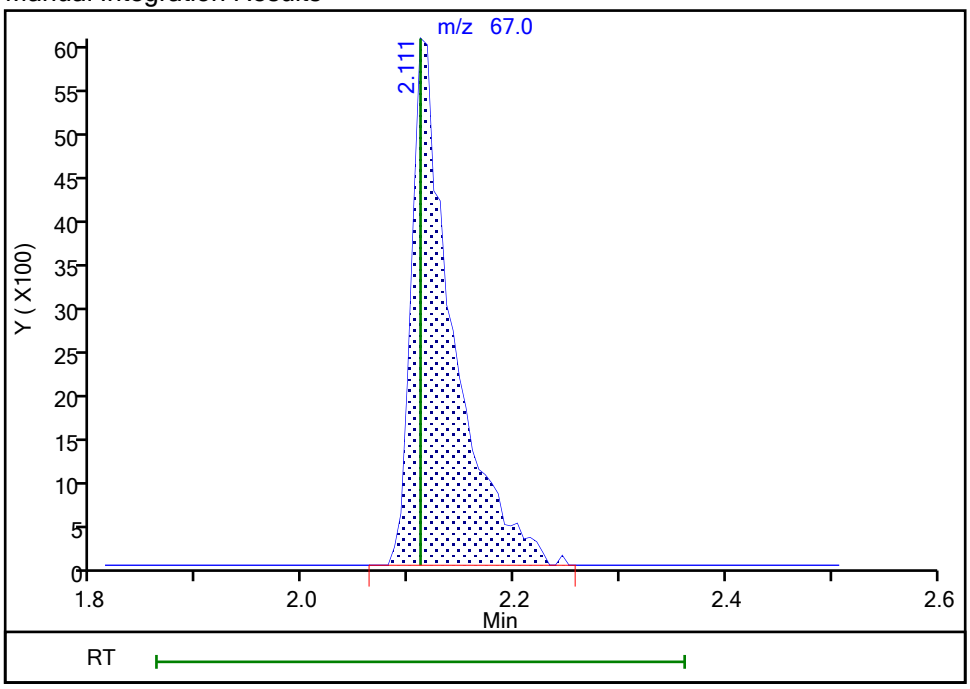
Processing Integration Results

RT: 2.11
Area: 15977
Amount: 3.992984
Amount Units: ug/l



Manual Integration Results

RT: 2.11
Area: 16569
Amount: 3.882443
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:10:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

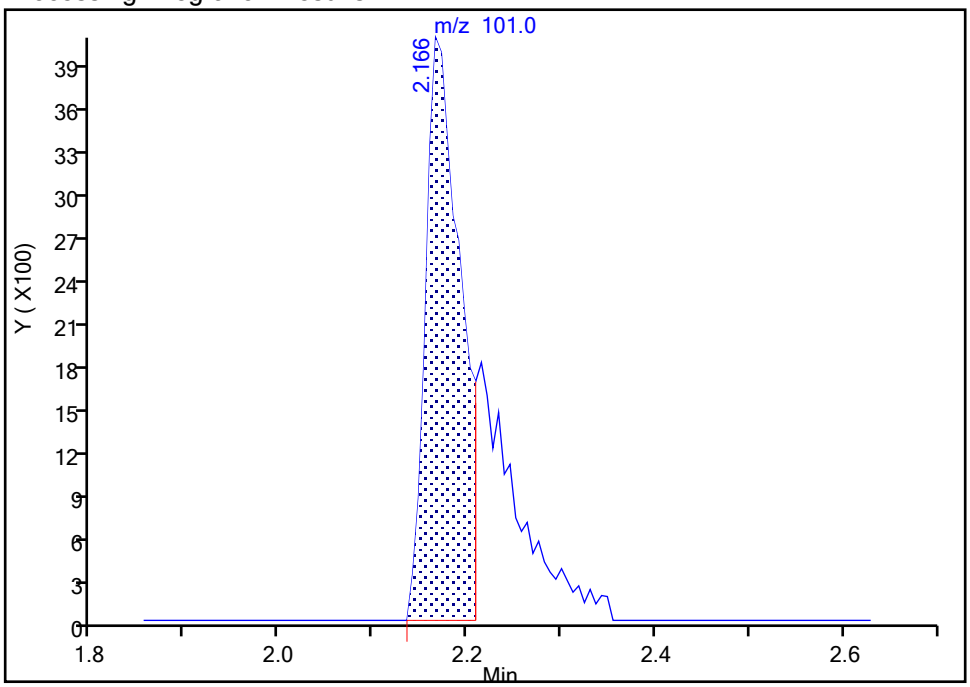
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

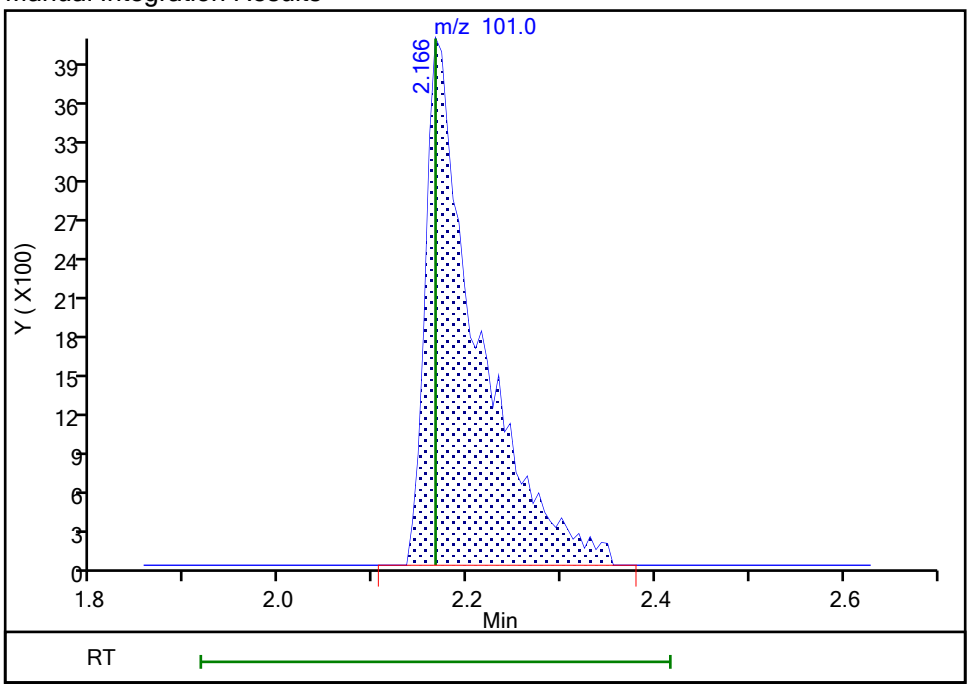
Processing Integration Results

RT: 2.17
Area: 10456
Amount: 3.050030
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 15562
Amount: 3.816501
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

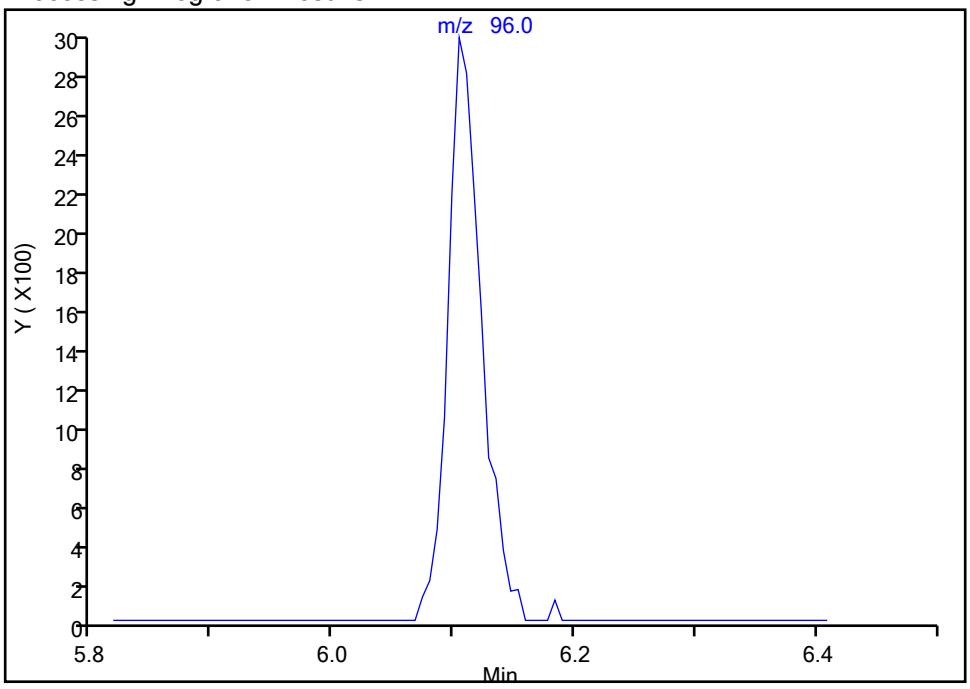
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5906.D
Injection Date: 14-Oct-2020 05:55:30 Instrument ID: Calvin
Lims ID: std4
Client ID:
Operator ID: sjn ALS Bottle#: 46 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

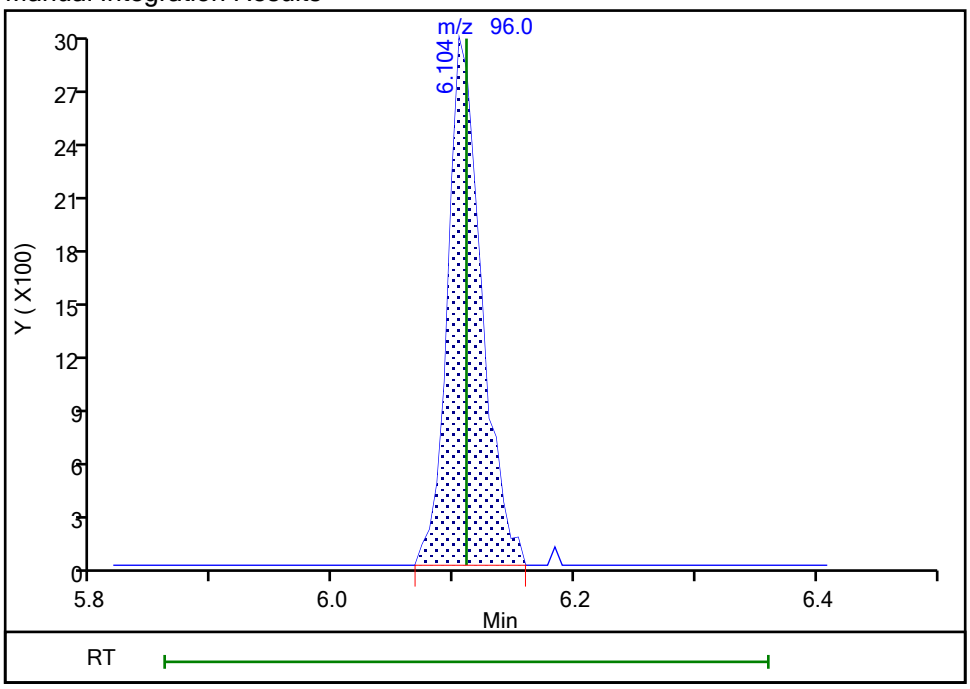
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.10
Area: 5677
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 14-Oct-2020 08:10:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Oct-2020 06:19:30 ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:16 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:11:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	176574	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6009	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	133943	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	63342	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	93	38558	50.0	48.7	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	171682	50.0	50.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	86	50266	50.0	48.5	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	33695	10.0	9.33	
10 Chloromethane	50	1.526	1.526	0.000	87	23945	10.0	9.00	
11 Vinyl chloride	62	1.538	1.532	0.006	99	30256	10.0	9.30	
12 Butadiene	54	1.568	1.568	0.000	95	29106	10.0	8.84	
14 Chloroethane	64	1.916	1.910	0.006	98	17163	10.0	9.12	M
15 Dichlorofluoromethane	67	2.117	2.111	0.006	98	41553	10.0	9.23	
13 Bromomethane	94	1.831	2.166	-0.335	89	8433	10.0	9.51	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	99	41185	10.0	9.57	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

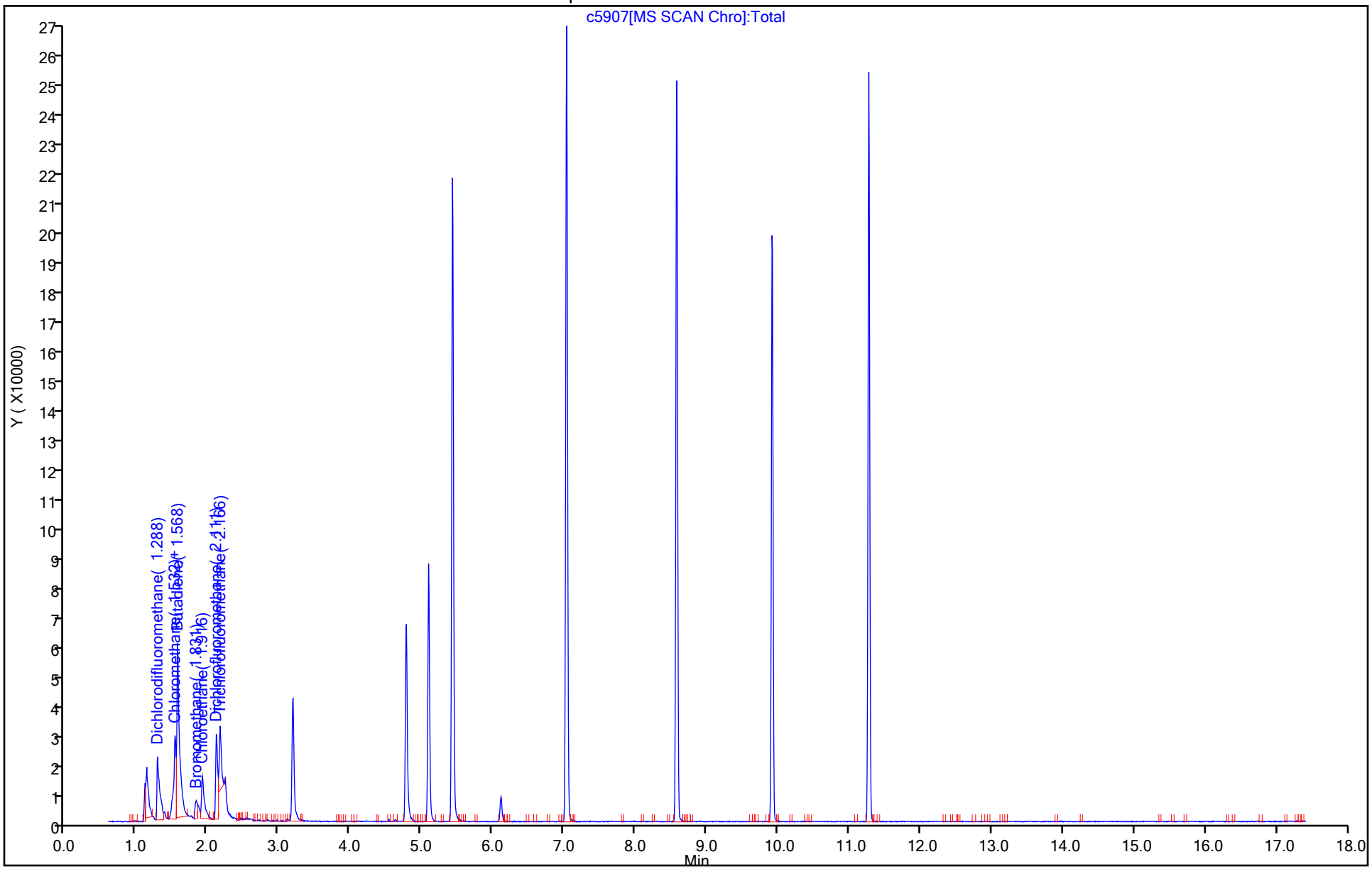
VV_I_GASES_00409 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:17 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D

Injection Date:	14-Oct-2020 06:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std5			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

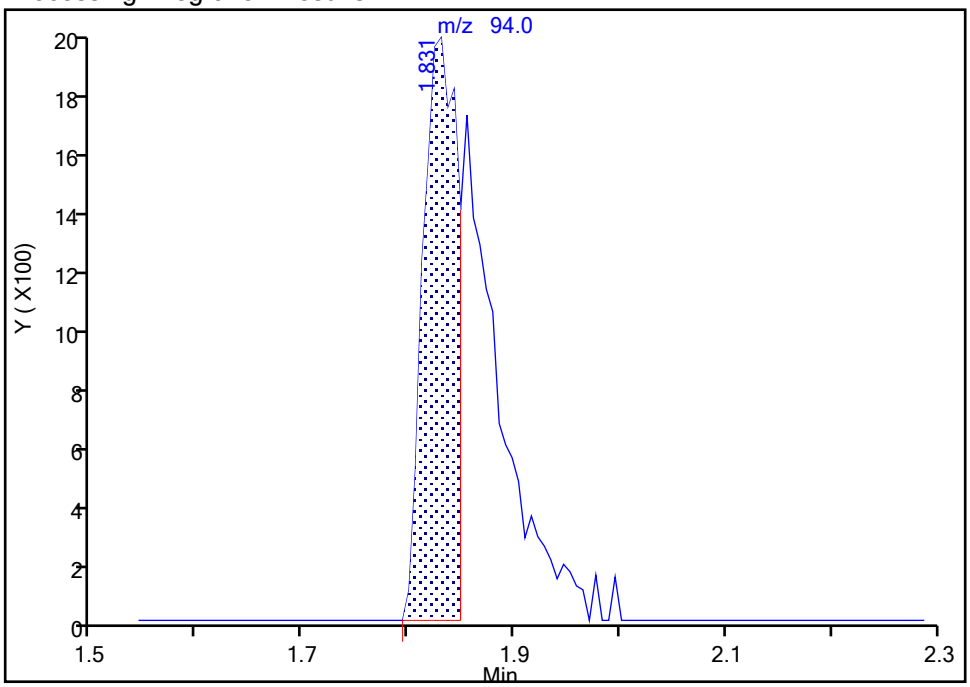
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

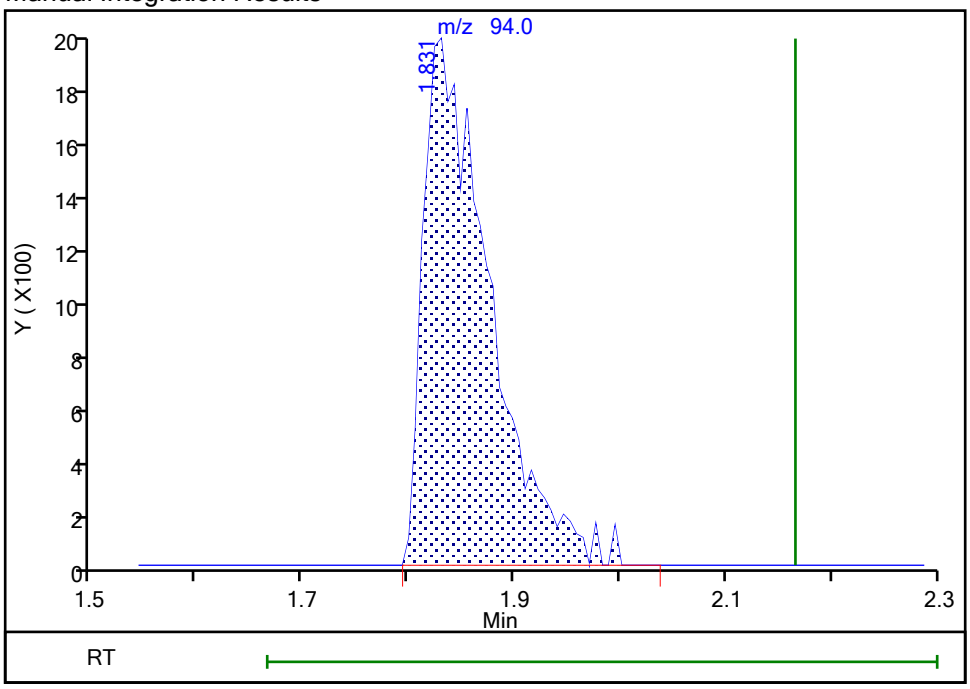
Processing Integration Results

RT: 1.83
Area: 4401
Amount: 5.775254
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 8433
Amount: 9.510044
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:23
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls

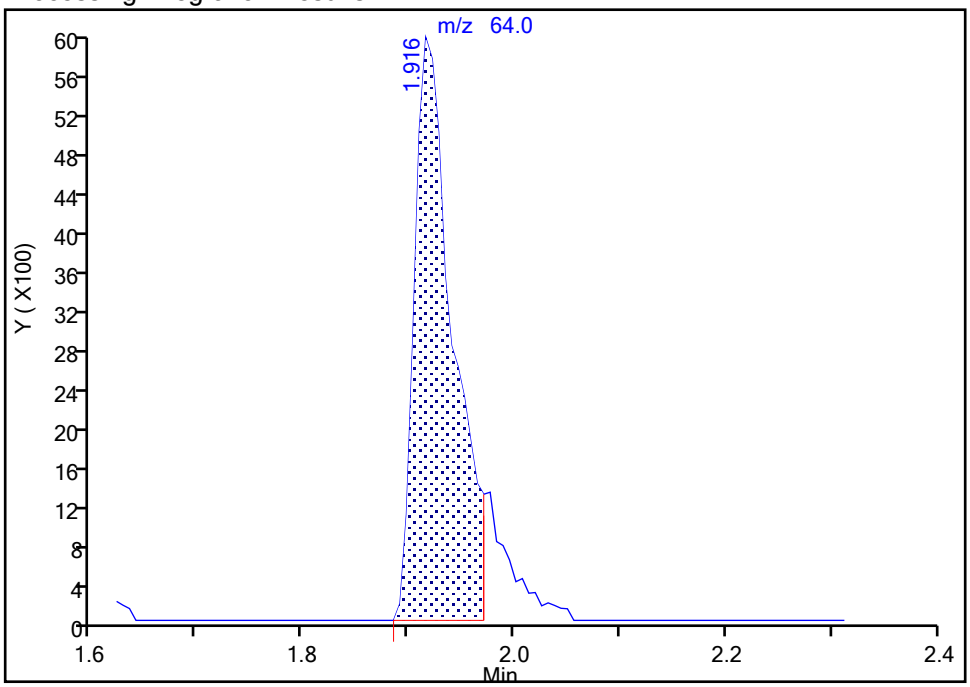
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

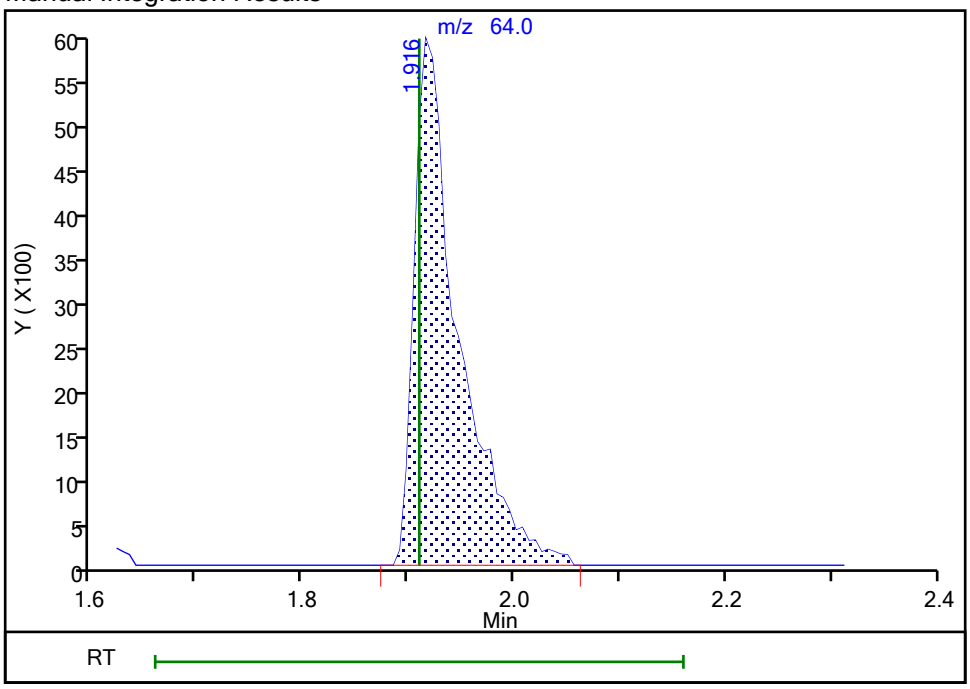
Processing Integration Results

RT: 1.92
Area: 15124
Amount: 8.692426
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 17163
Amount: 9.117772
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:20
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

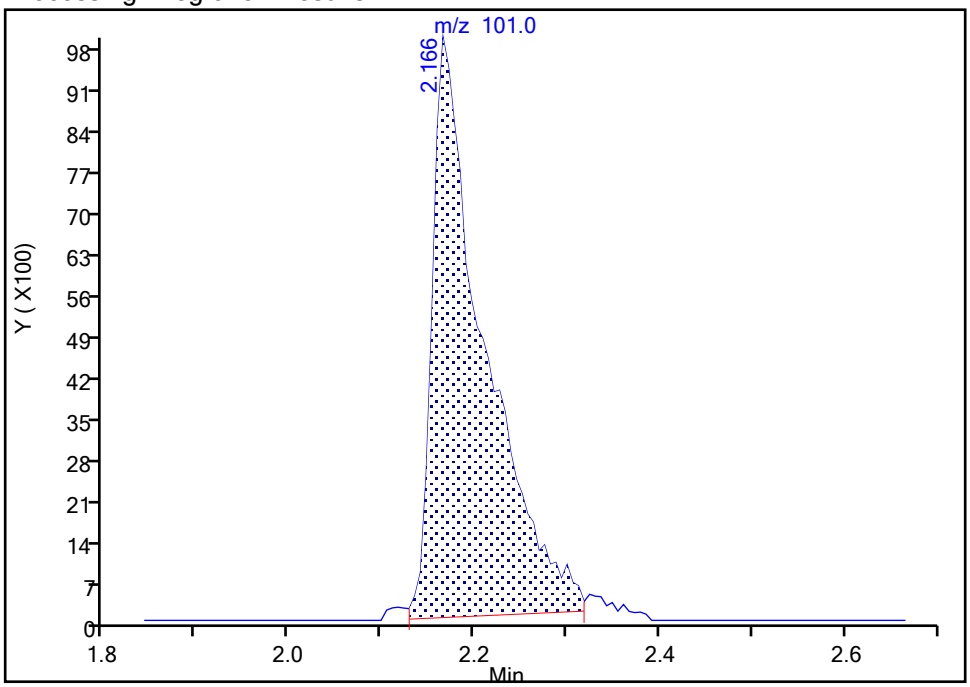
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

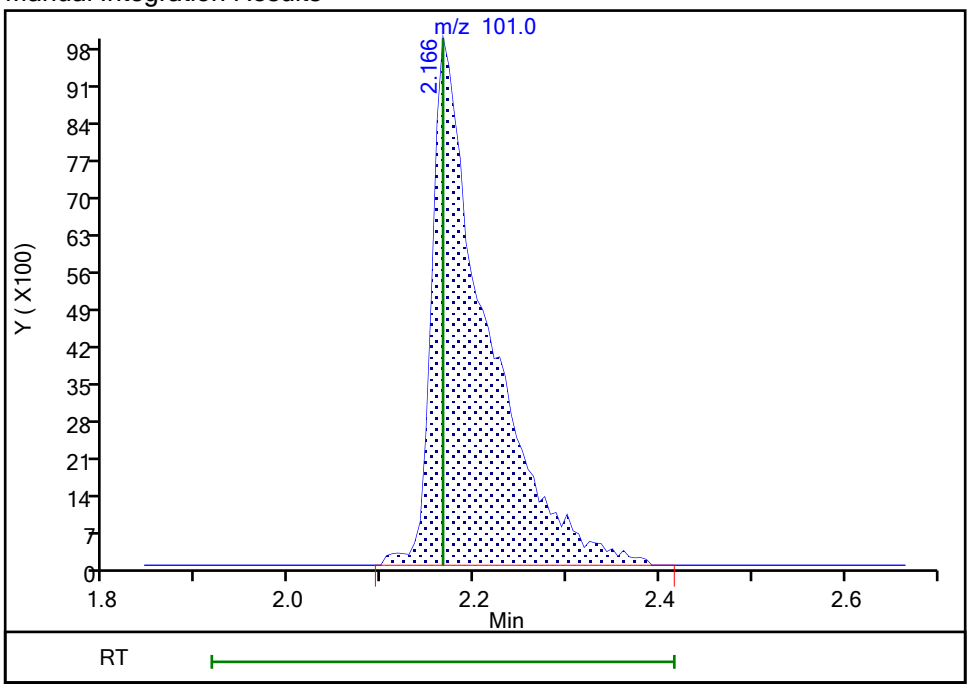
Processing Integration Results

RT: 2.17
Area: 38822
Amount: 10.104012
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 41185
Amount: 9.571176
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:14
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

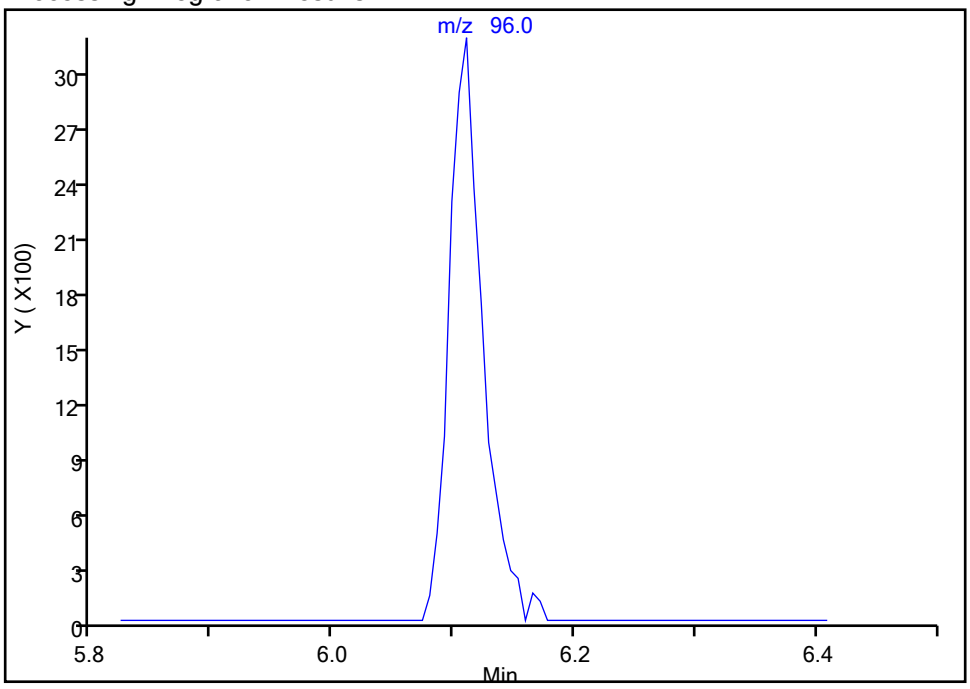
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5907.D
Injection Date: 14-Oct-2020 06:19:30 Instrument ID: Calvin
Lims ID: std5
Client ID:
Operator ID: sjn ALS Bottle#: 47 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

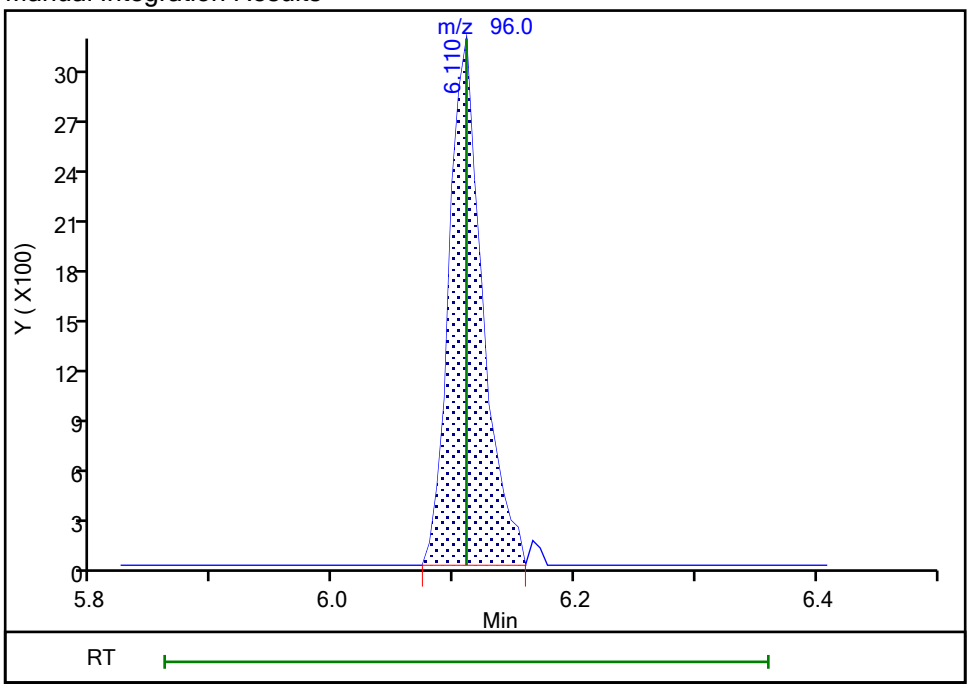
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6009
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:11:32
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Oct-2020 06:44:30 ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:19 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:21:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	177609	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	75	6057	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.573	0.006	89	136846	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	63899	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	39853	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	174678	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.914	0.006	85	52415	50.0	50.1	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	71642	20.0	19.7	
10 Chloromethane	50	1.514	1.526	-0.012	99	50038	20.0	18.7	M
11 Vinyl chloride	62	1.532	1.532	0.000	98	60599	20.0	18.5	
12 Butadiene	54	1.568	1.568	0.000	96	61863	20.0	18.7	
14 Chloroethane	64	1.916	1.910	0.006	99	35084	20.0	18.5	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	98	82355	20.0	18.2	
13 Bromomethane	94	1.837	2.166	-0.329	85	20437	20.0	22.3	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	97	80306	20.0	18.6	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

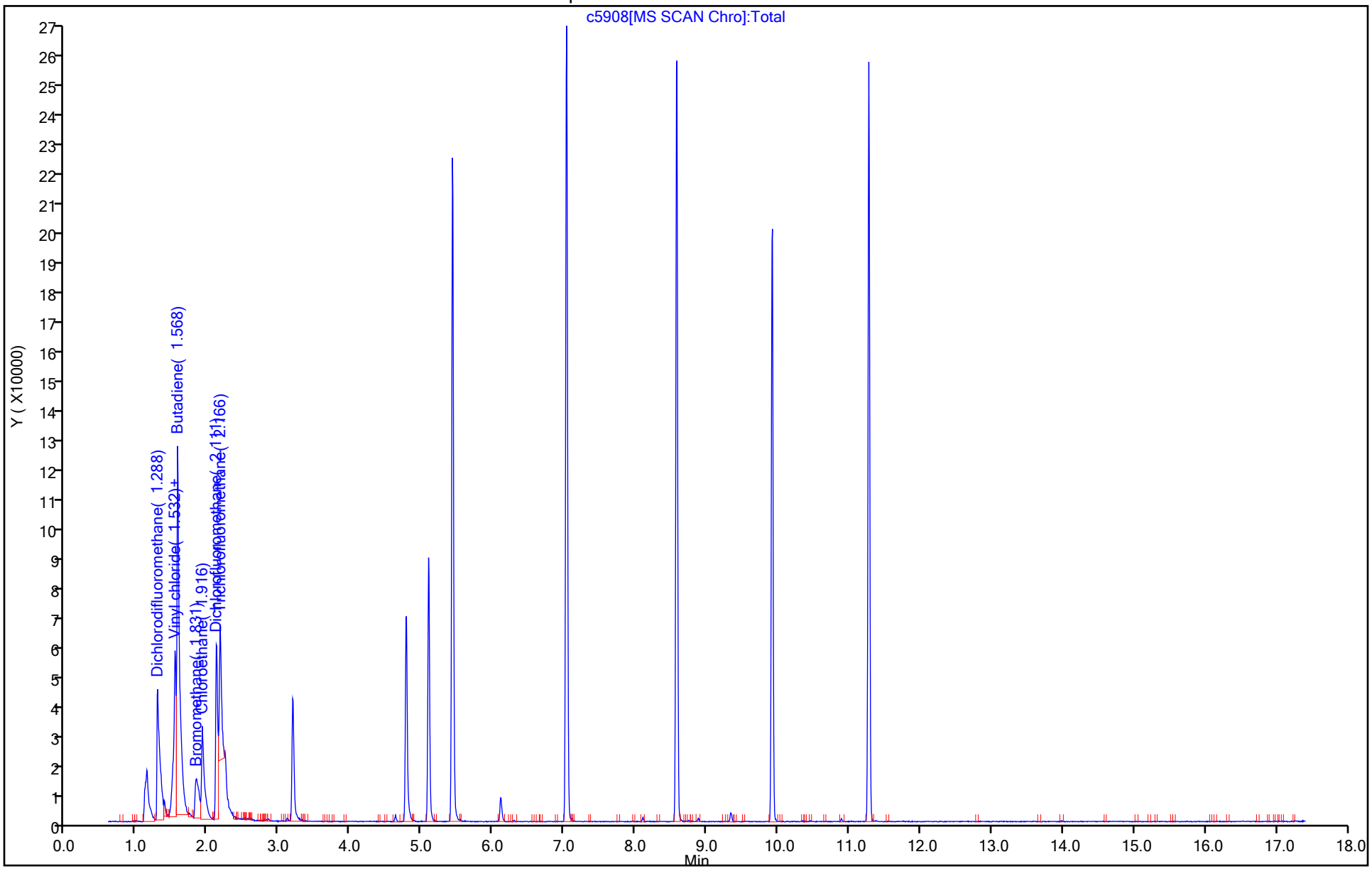
VV_I_GASES_00409 Amount Added: 20.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D

Injection Date:	14-Oct-2020 06:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std6			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

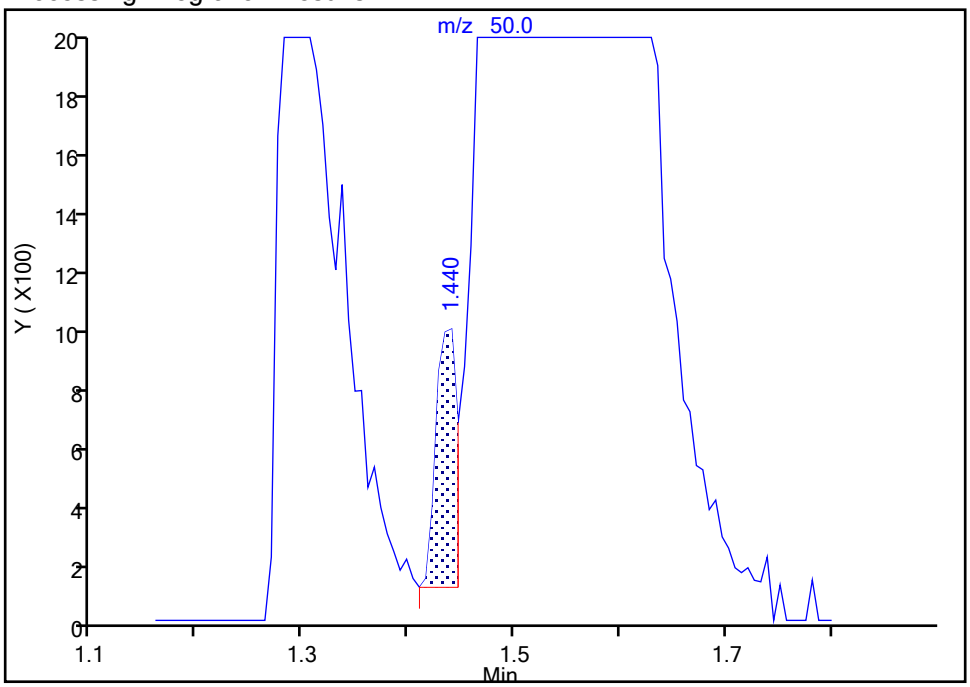
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Injection Date: 14-Oct-2020 06:44:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

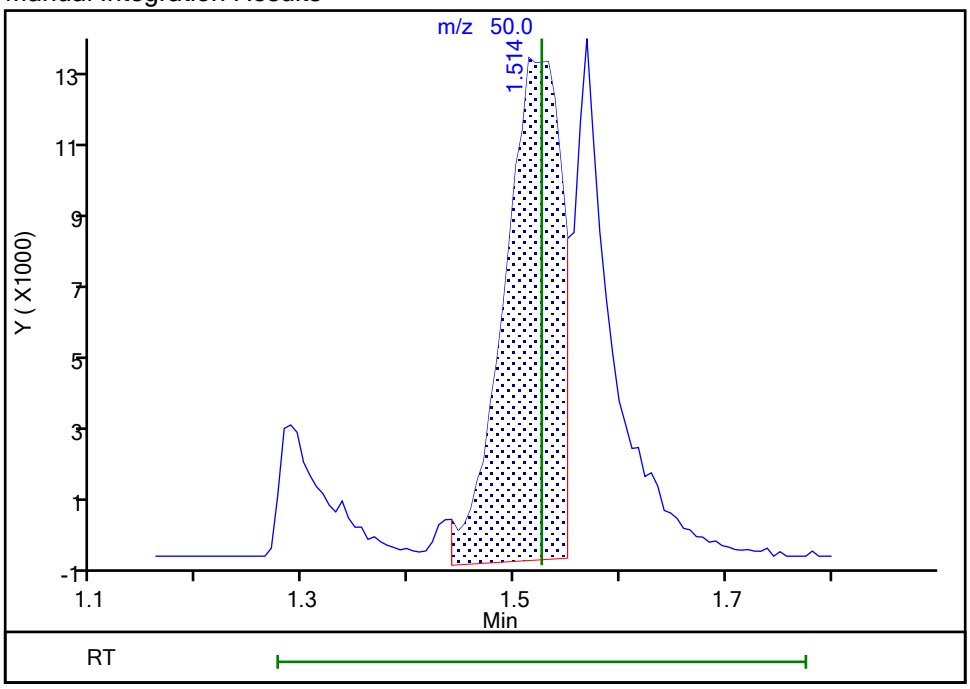
Processing Integration Results

RT: 1.44
Area: 1175
Amount: 0.516820
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 50038
Amount: 18.691214
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:15:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

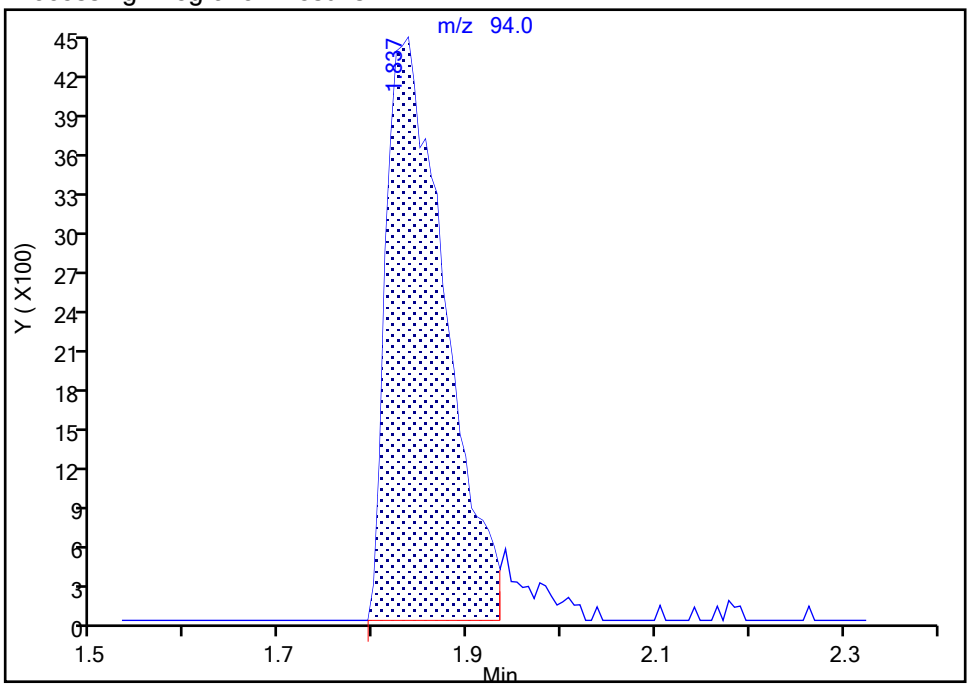
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Injection Date: 14-Oct-2020 06:44:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

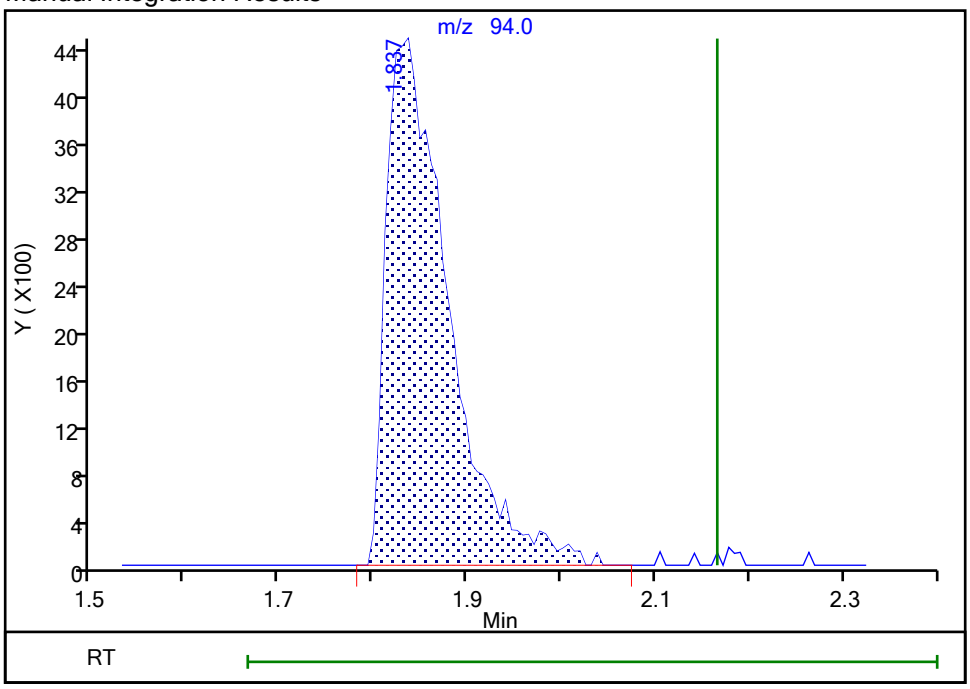
Processing Integration Results

RT: 1.84
Area: 19224
Amount: 16.613620
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 20437
Amount: 22.272432
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:15:06
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

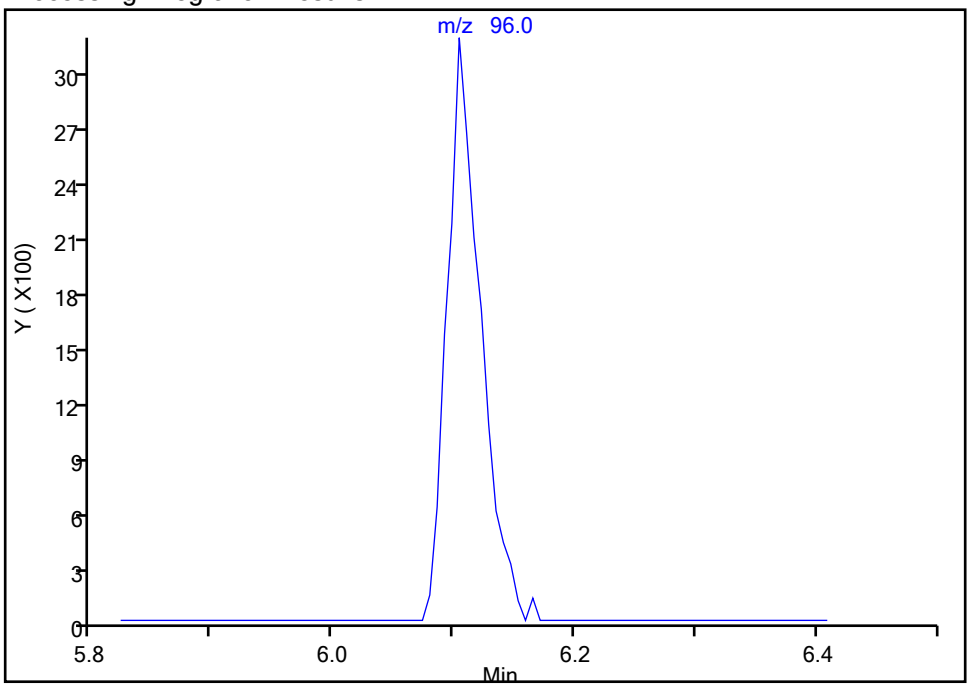
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5908.D
Injection Date: 14-Oct-2020 06:44:30 Instrument ID: Calvin
Lims ID: std6
Client ID:
Operator ID: sjn ALS Bottle#: 48 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

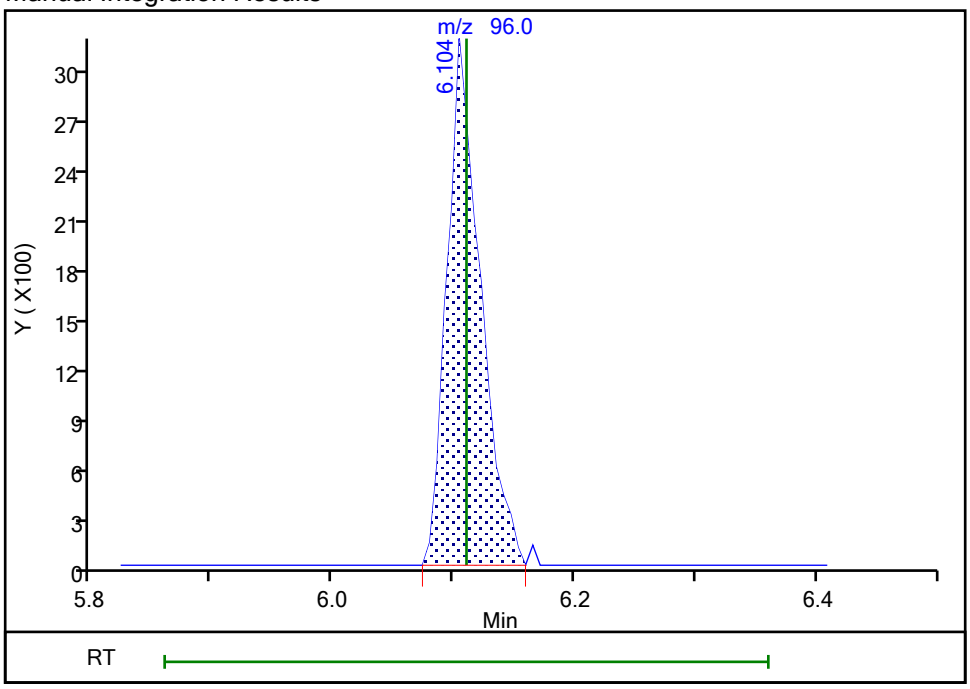
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 6057
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:15:51
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D
Lims ID: std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Oct-2020 07:41:30 ALS Bottle#: 50 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:35:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	165502	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	5465	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	124735	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58257	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	93	37400	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.031	7.024	0.007	95	160880	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	85	47751	50.0	50.1	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	195526	50.0	57.8	
10 Chloromethane	50	1.532	1.526	0.006	61	123795	50.0	49.6	
11 Vinyl chloride	62	1.538	1.532	0.006	99	166484	50.0	54.6	
12 Butadiene	54	1.568	1.568	0.000	95	175377	50.0	56.8	
14 Chloroethane	64	1.916	1.910	0.006	99	93407	50.0	52.9	
15 Dichlorofluoromethane	67	2.111	2.111	0.000	99	224917	50.0	53.3	
13 Bromomethane	94	1.849	2.166	-0.317	90	71172	50.0	82.0	M
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	221164	50.0	54.8	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

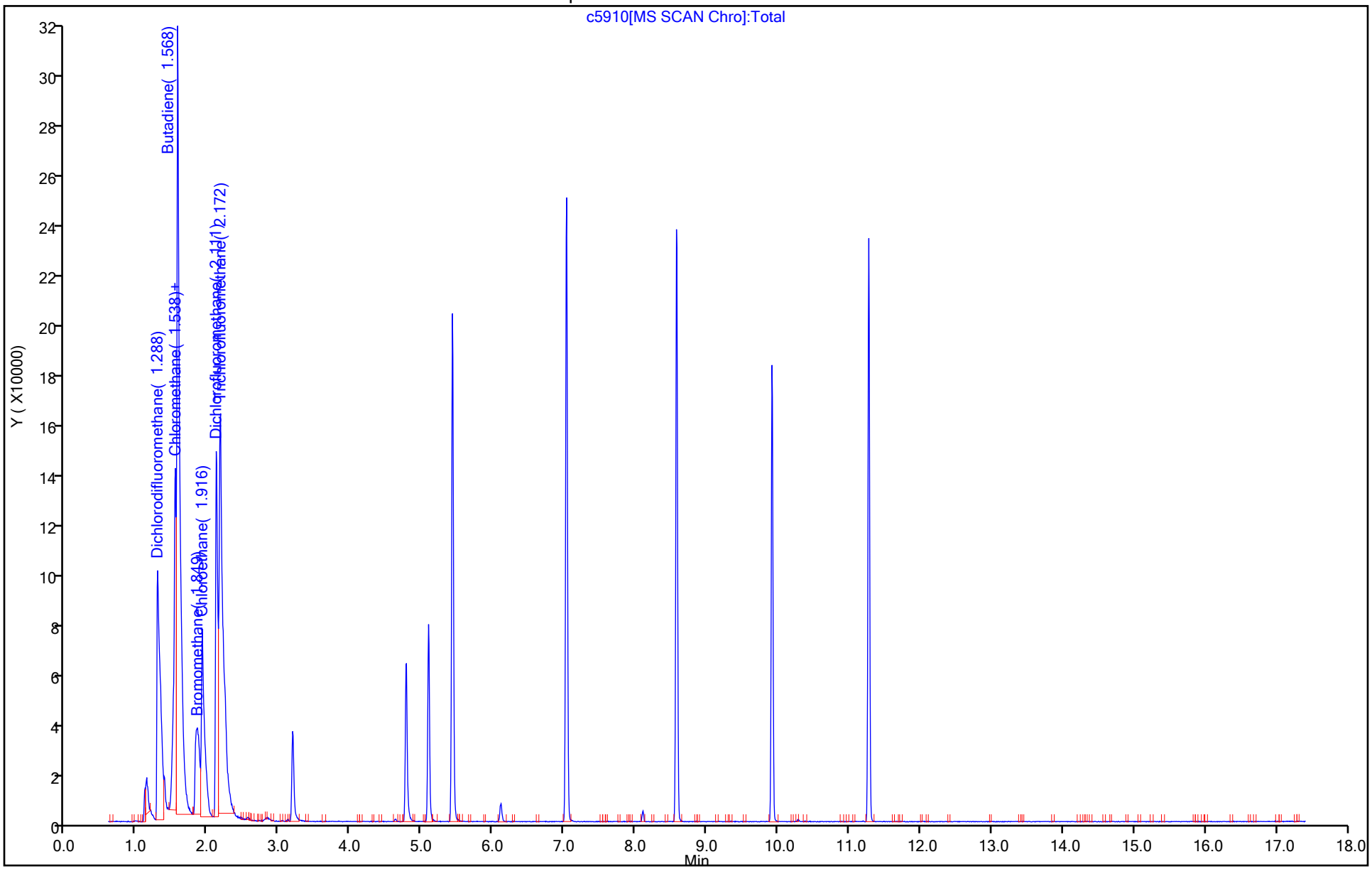
VV_I_GASES_00409 Amount Added: 50.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:23 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D

Injection Date:	14-Oct-2020 07:41:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std7			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

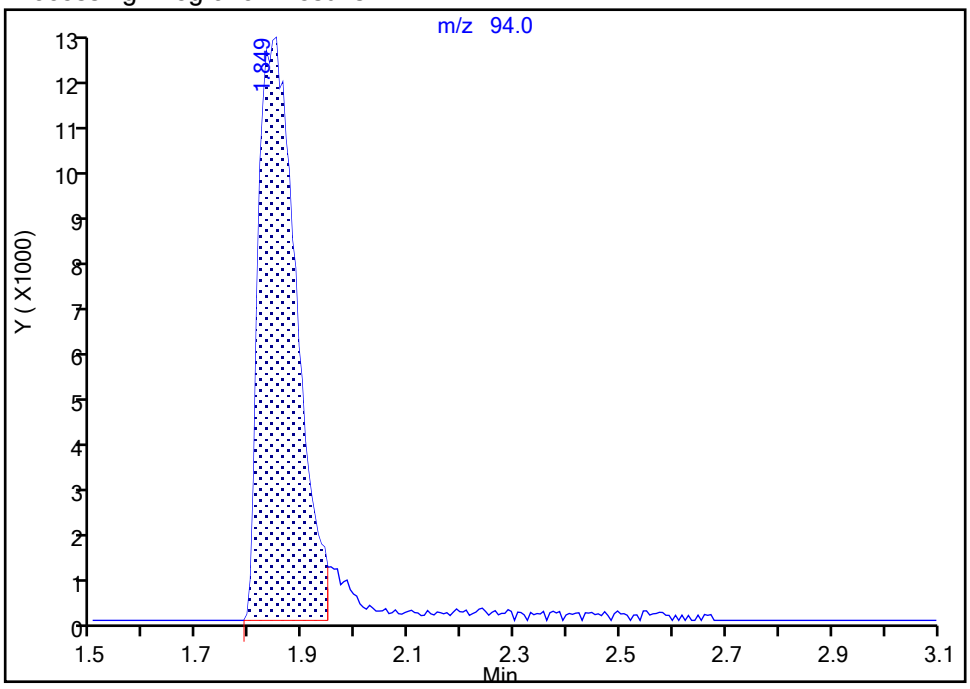
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D
Injection Date: 14-Oct-2020 07:41:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 50 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

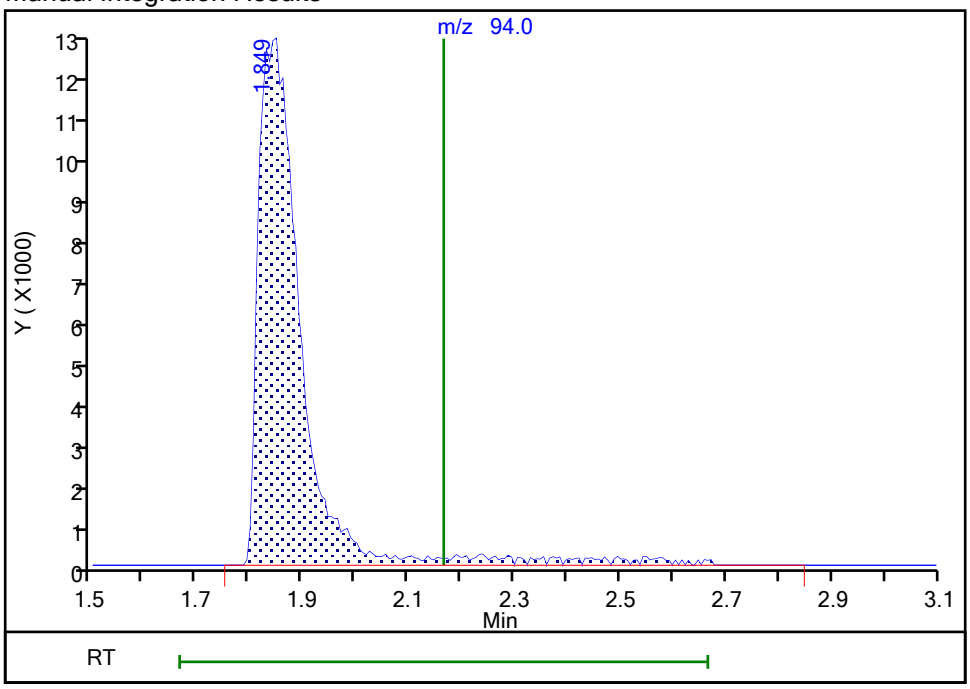
Processing Integration Results

RT: 1.85
Area: 62503
Amount: 55.804356
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 71172
Amount: 81.994080
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:16:41
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

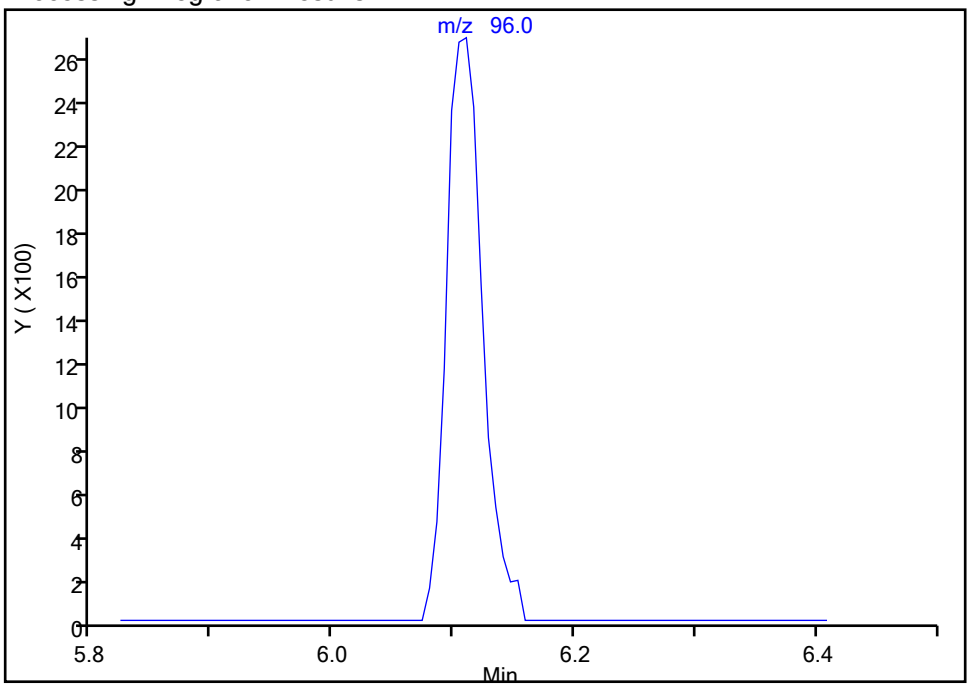
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5910.D
Injection Date: 14-Oct-2020 07:41:30 Instrument ID: Calvin
Lims ID: std7
Client ID:
Operator ID: sjn ALS Bottle#: 50 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

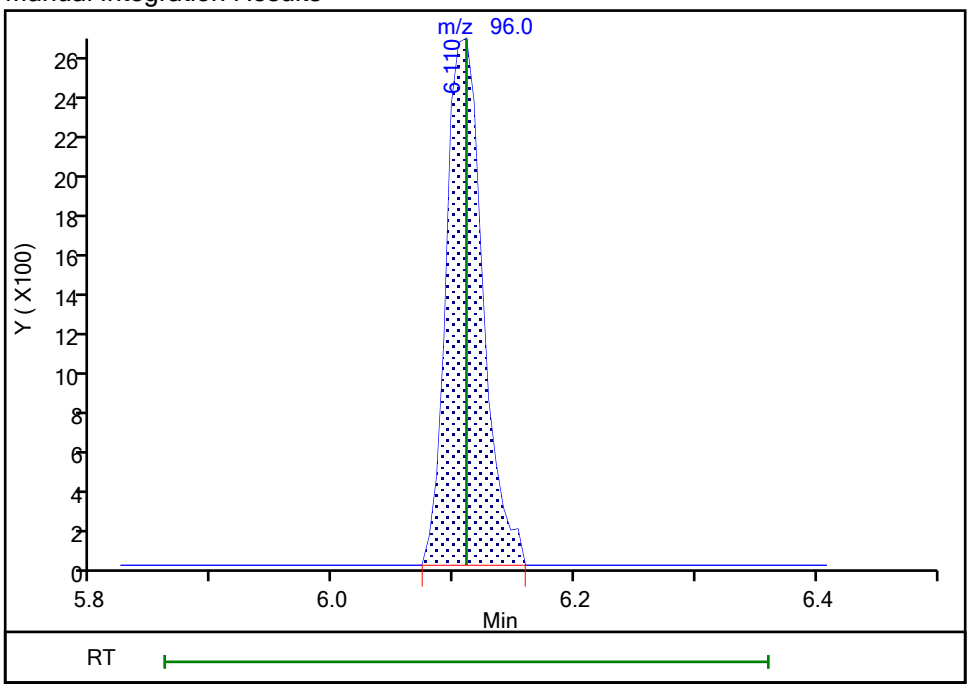
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5465
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:16:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D
Lims ID: std8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Oct-2020 08:05:30 ALS Bottle#: 51 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:25 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 08:51:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	161063	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5466	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	124134	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	58304	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	37645	50.0	52.2	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	156890	50.0	49.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	46900	50.0	49.2	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	387602	100.0	117.7	
10 Chloromethane	50	1.526	1.526	0.000	92	275364	100.0	113.4	
11 Vinyl chloride	62	1.532	1.532	0.000	99	335812	100.0	113.1	
12 Butadiene	54	1.568	1.568	0.000	95	352639	100.0	117.4	
14 Chloroethane	64	1.916	1.916	0.000	99	190791	100.0	111.1	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	97	454200	100.0	110.6	
13 Bromomethane	94	1.837	1.837	0.000	92	150021	100.0	177.1	M
16 Trichlorofluoromethane	101	2.166	2.166	0.000	99	465362	100.0	118.6	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

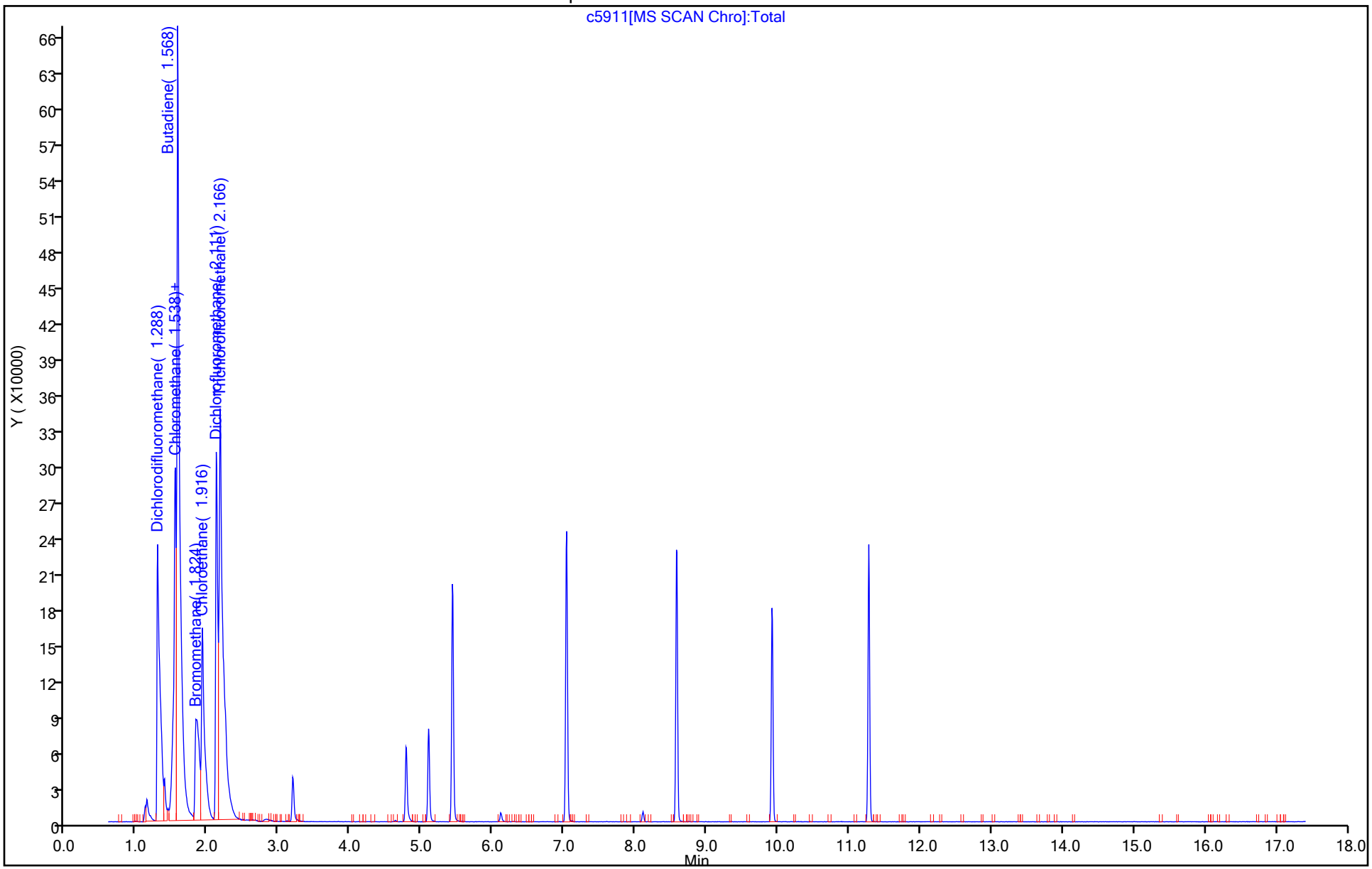
VV_I_GASES_00409 Amount Added: 100.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D

Injection Date:	14-Oct-2020 08:05:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std8			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

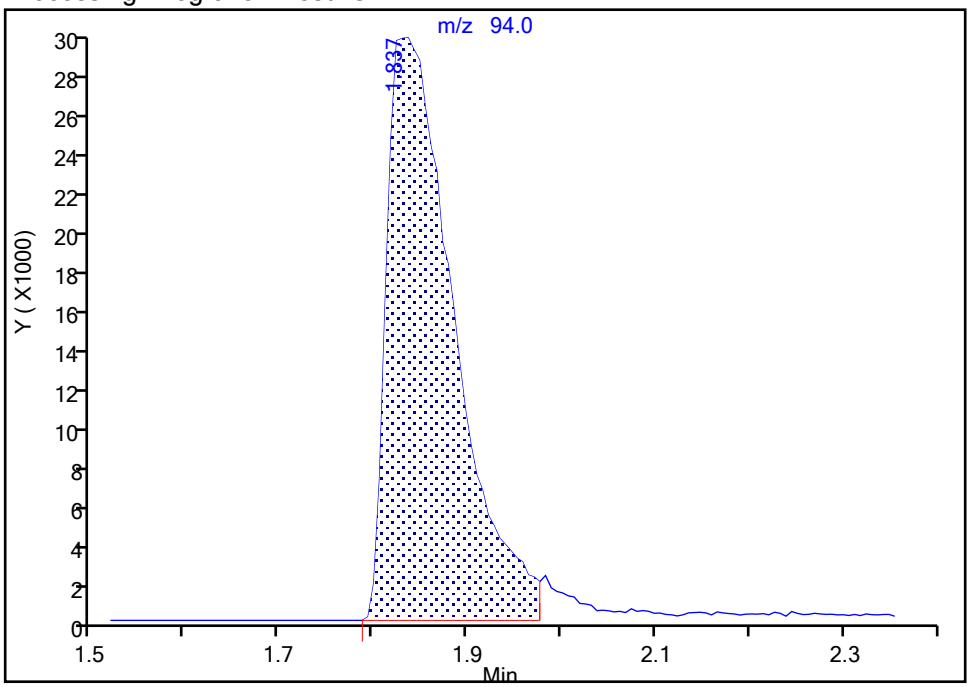
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D
Injection Date: 14-Oct-2020 08:05:30 Instrument ID: Calvin
Lims ID: std8
Client ID:
Operator ID: sjn ALS Bottle#: 51 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

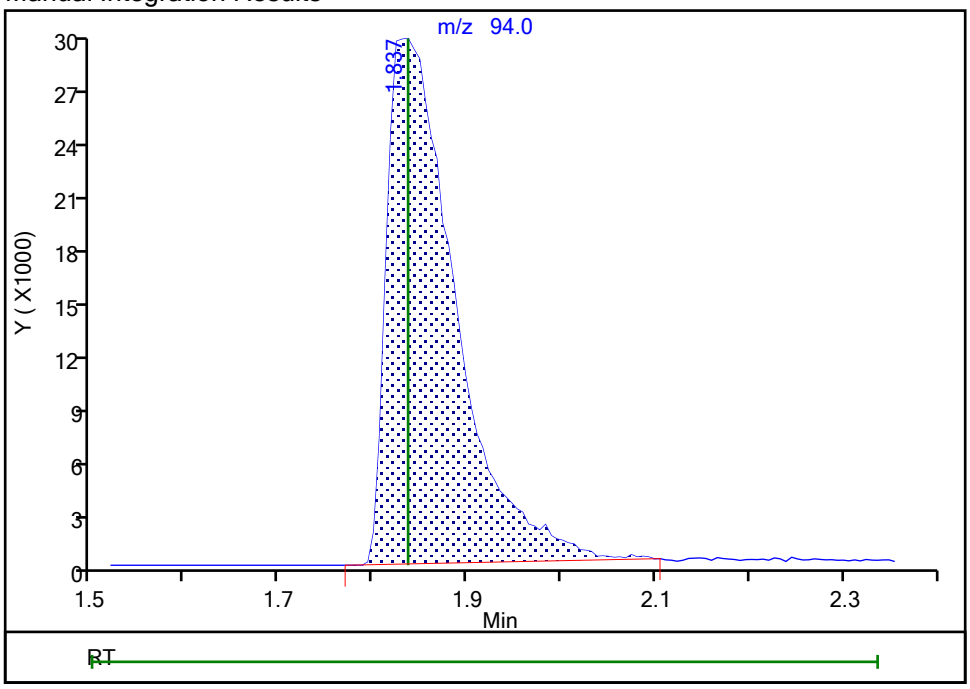
Processing Integration Results

RT: 1.84
Area: 147530
Amount: 174.3581
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 150021
Amount: 177.0660
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:37:30
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

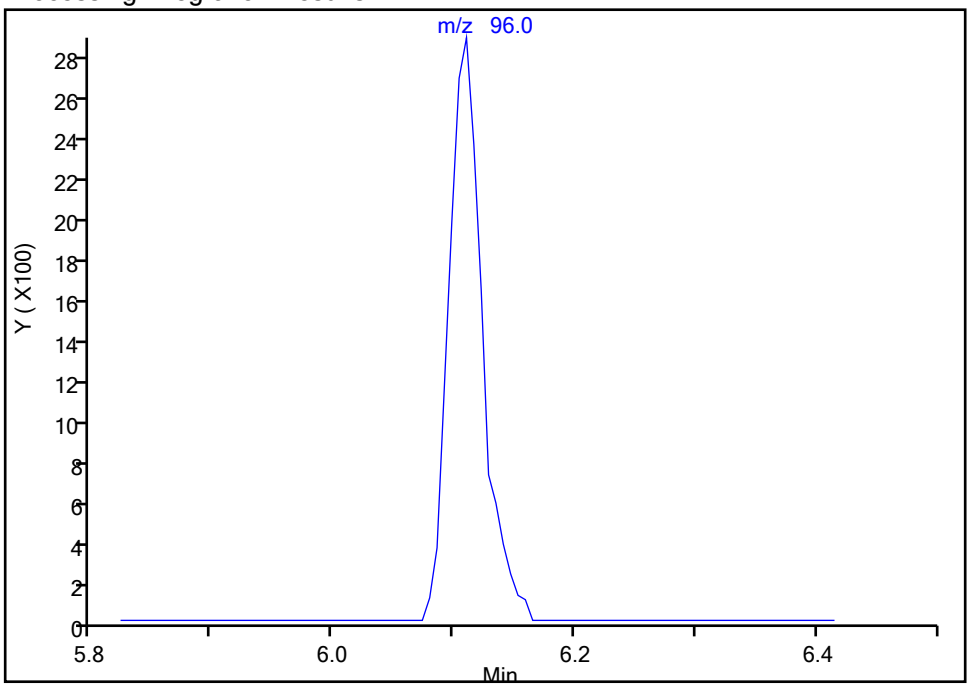
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5911.D
Injection Date: 14-Oct-2020 08:05:30 Instrument ID: Calvin
Lims ID: std8
Client ID:
Operator ID: sjn ALS Bottle#: 51 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

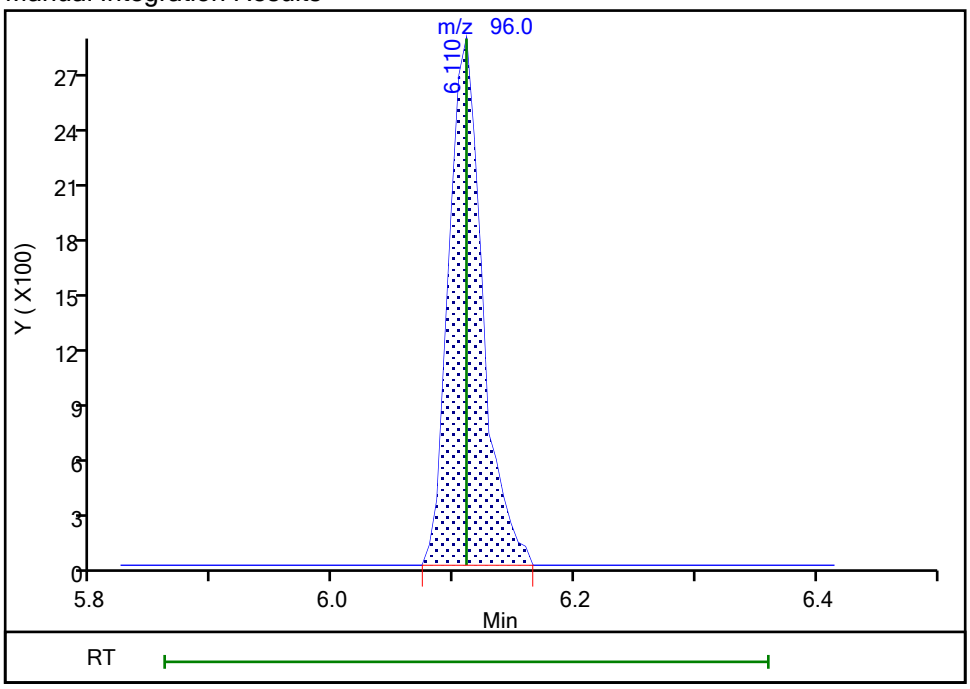
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5466
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:36:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D
Lims ID: std9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 14-Oct-2020 08:30:30 ALS Bottle#: 52 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:28 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 09:13:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	164212	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	95	5522	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.573	8.579	-0.006	89	125727	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58258	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	92	37110	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	159993	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	92	47939	50.0	50.3	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	548898	150.0	163.4	
10 Chloromethane	50	1.526	1.526	0.000	99	384771	150.0	155.5	
11 Vinyl chloride	62	1.532	1.532	0.000	99	487670	150.0	161.2	
12 Butadiene	54	1.568	1.568	0.000	96	510454	150.0	166.7	
13 Bromomethane	94	1.824	1.837	-0.013	91	242930	150.0	281.0	M
14 Chloroethane	64	1.916	1.916	0.000	99	281347	150.0	160.7	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	669367	150.0	159.8	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	100	670399	150.0	167.5	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

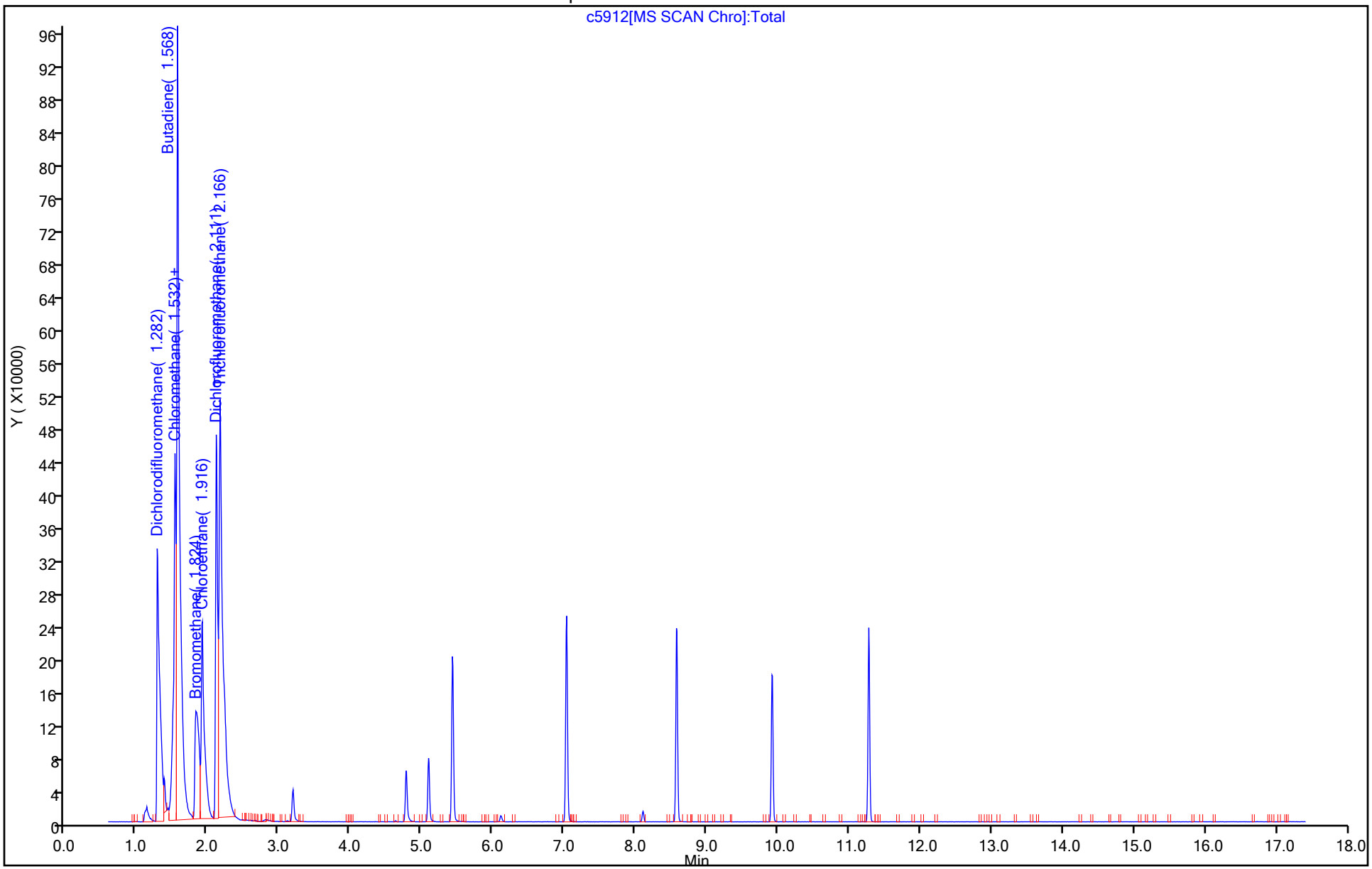
VV_I_GASES_00409 Amount Added: 150.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:29 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D

Injection Date:	14-Oct-2020 08:30:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std9			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

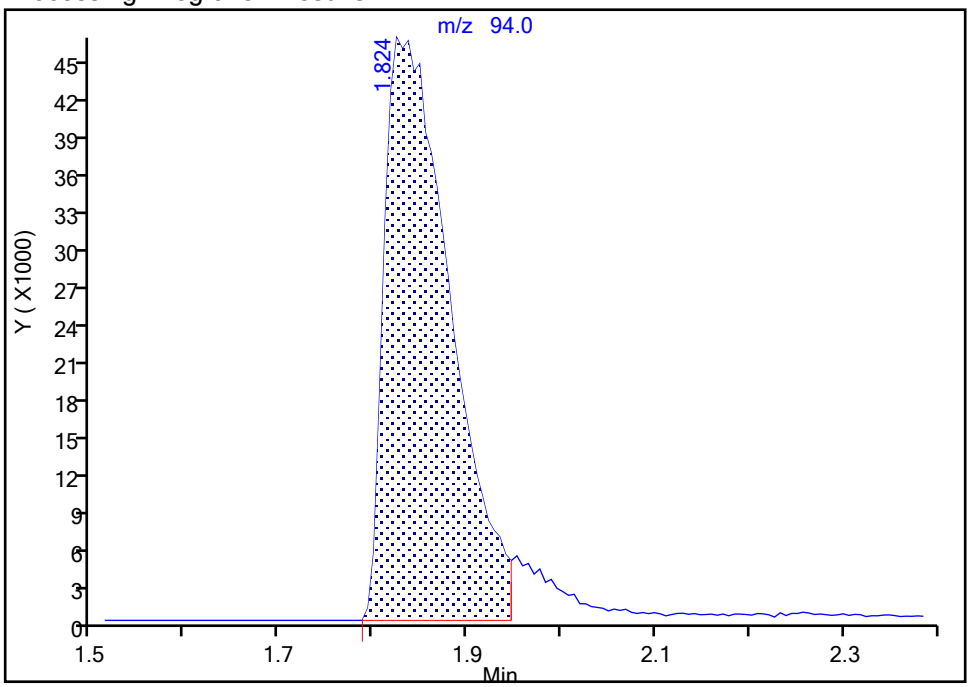
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D
Injection Date: 14-Oct-2020 08:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 52 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

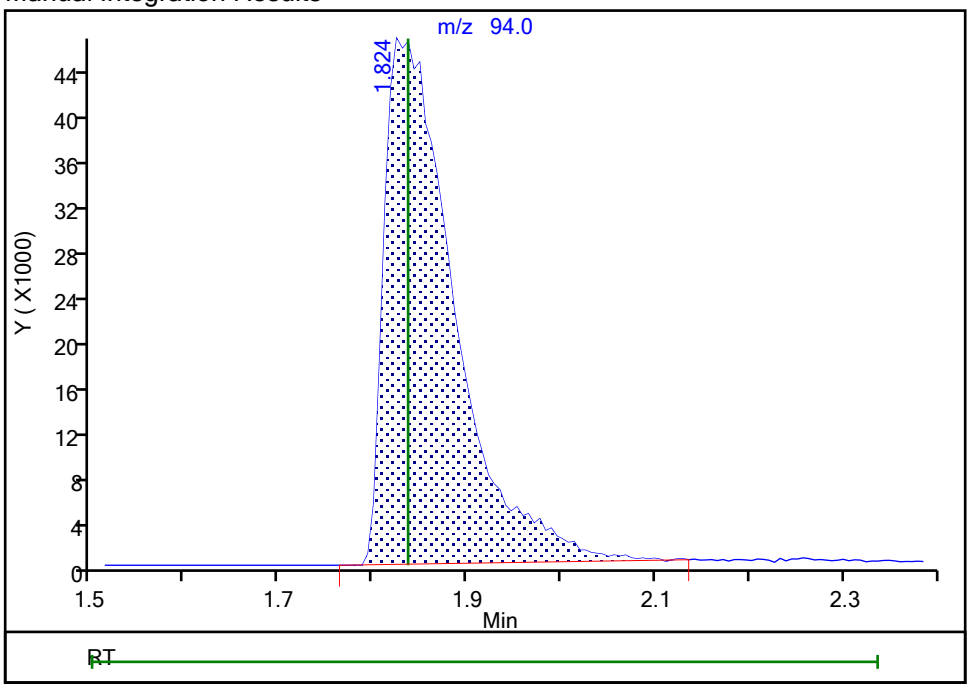
Processing Integration Results

RT: 1.82
Area: 229243
Amount: 244.0172
Amount Units: ug/l



Manual Integration Results

RT: 1.82
Area: 242930
Amount: 280.9585
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:51:35
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

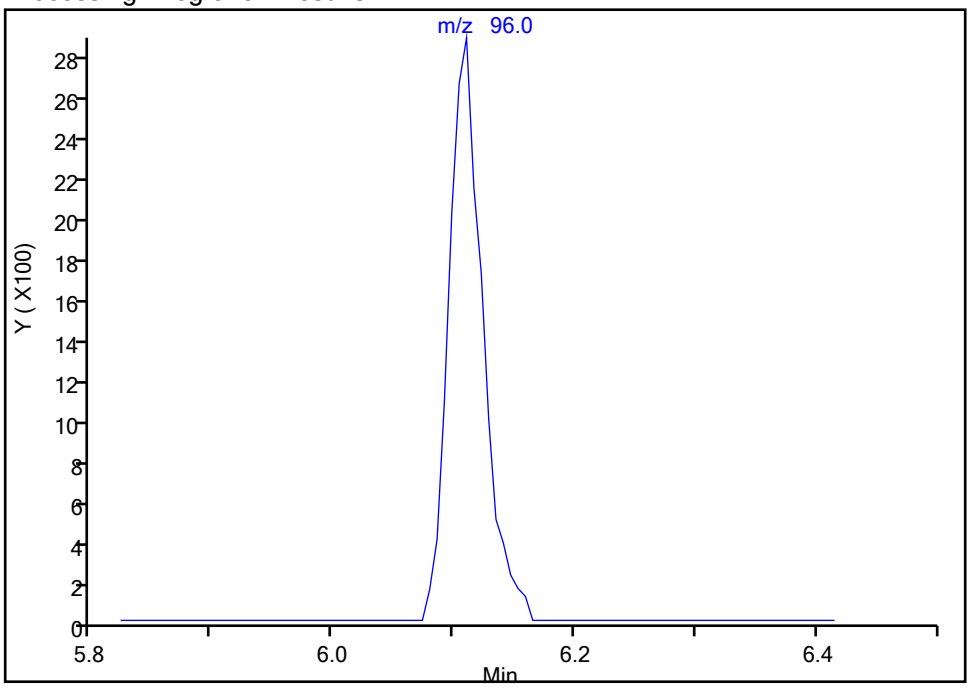
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5912.D
Injection Date: 14-Oct-2020 08:30:30 Instrument ID: Calvin
Lims ID: std9
Client ID:
Operator ID: sjn ALS Bottle#: 52 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

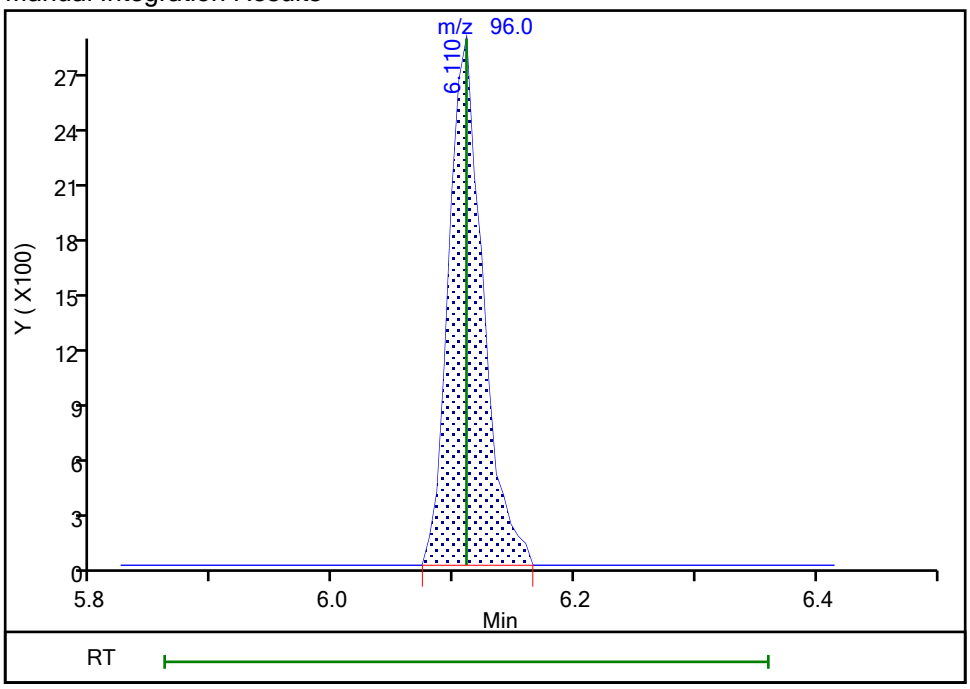
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5522
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 08:51:46
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5913.D
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 14-Oct-2020 08:54:30 ALS Bottle#: 53 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:31 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 09:15:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	161525	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	95	5553	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	122146	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	59228	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	36438	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	157762	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	87	48279	50.0	49.8	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	706075	200.0	213.7	
10 Chloromethane	50	1.526	1.526	0.000	87	503467	200.0	206.8	
11 Vinyl chloride	62	1.532	1.532	0.000	100	638917	200.0	214.7	
12 Butadiene	54	1.568	1.568	0.000	95	672992	200.0	223.5	
13 Bromomethane	94	1.830	1.837	-0.007	92	334587	200.0	393.2	
14 Chloroethane	64	1.916	1.916	0.000	99	369768	200.0	214.7	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	885885	200.0	215.0	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	99	893108	200.0	226.9	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

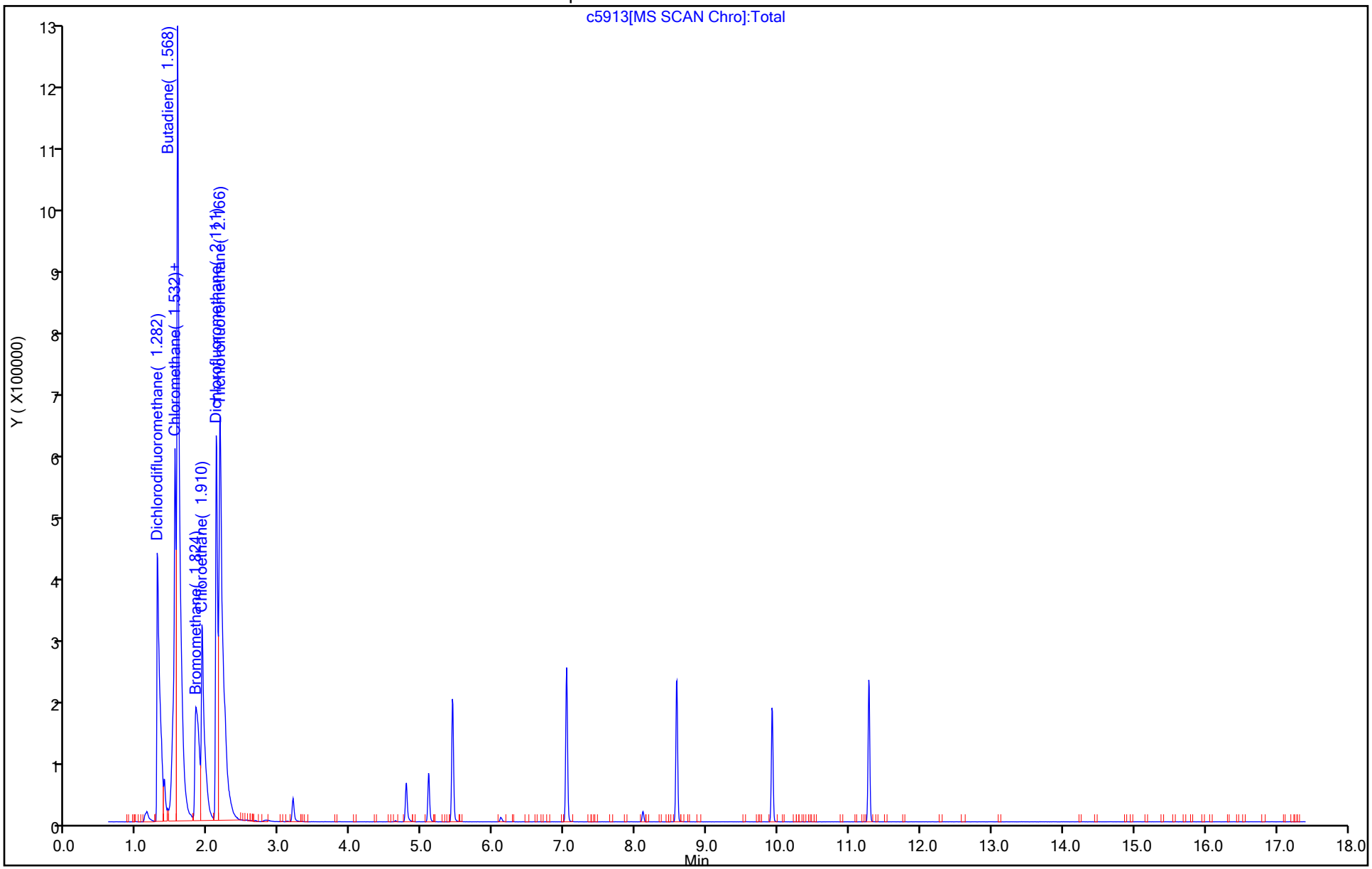
VV_I_GASES_00409 Amount Added: 200.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:32 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5913.D

Injection Date:	14-Oct-2020 08:54:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std10			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

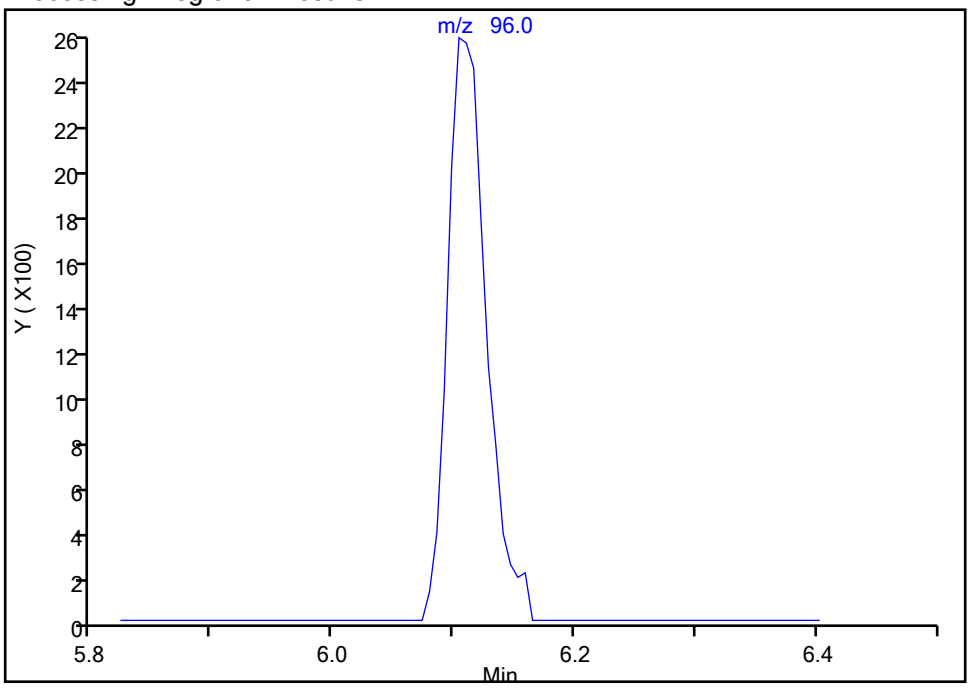
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5913.D
Injection Date: 14-Oct-2020 08:54:30 Instrument ID: Calvin
Lims ID: std10
Client ID:
Operator ID: sjn ALS Bottle#: 53 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

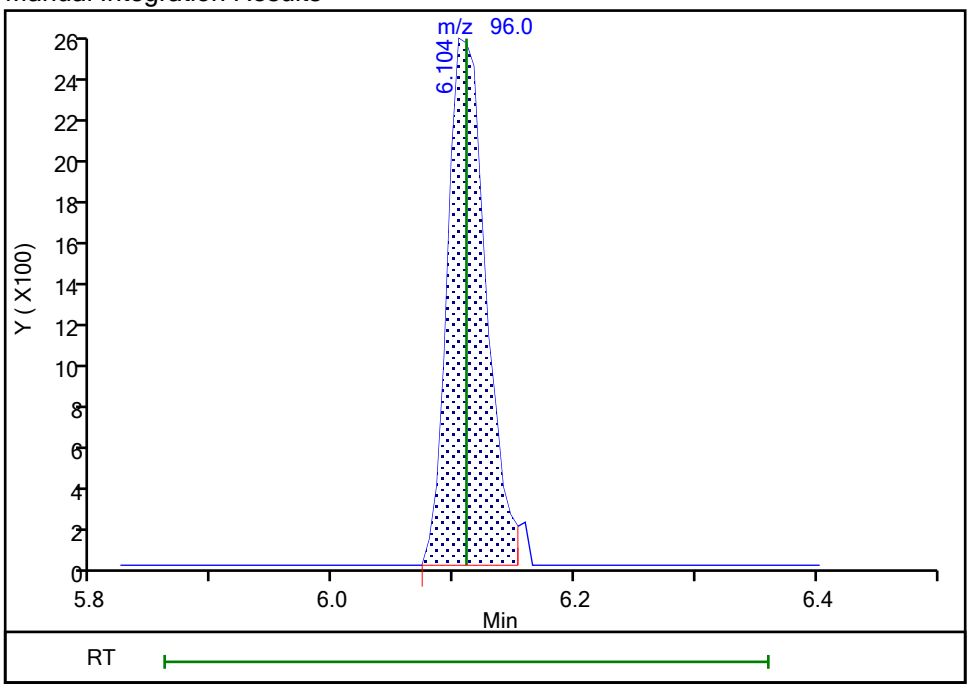
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.10
Area: 5553
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 14-Oct-2020 09:14:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5914.D
Lims ID: std11
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 14-Oct-2020 09:19:30 ALS Bottle#: 54 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:34 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 15-Oct-2020 01:13:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	163920	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	92	5534	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	124374	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58277	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	36679	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	158191	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	85	49152	50.0	51.6	
9 Dichlorodifluoromethane	85	1.282	1.288	-0.006	99	835806	250.0	249.3	
10 Chloromethane	50	1.526	1.526	0.000	99	632652	250.0	256.1	
11 Vinyl chloride	62	1.532	1.532	0.000	98	796841	250.0	263.8	
12 Butadiene	54	1.568	1.568	0.000	96	821757	250.0	268.9	
13 Bromomethane	94	1.818	1.837	-0.019	91	435821	250.0	504.6	
14 Chloroethane	64	1.910	1.916	-0.006	99	462122	250.0	264.5	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	98	1106051	250.0	264.5	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	98	1067839	250.0	267.3	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

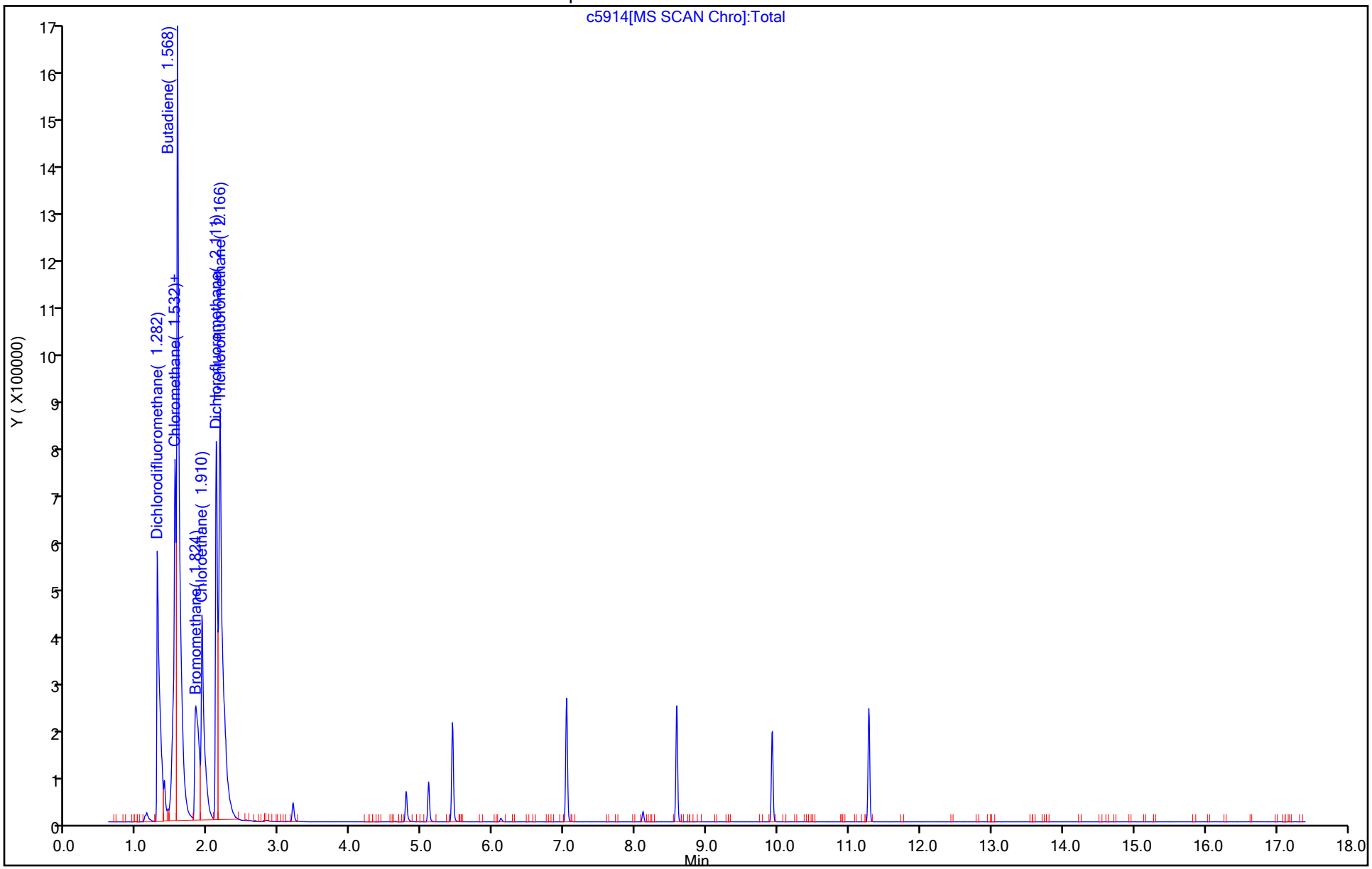
VV_I_GASES_00409 Amount Added: 250.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:35 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5914.D

Injection Date:	14-Oct-2020 09:19:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std11			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

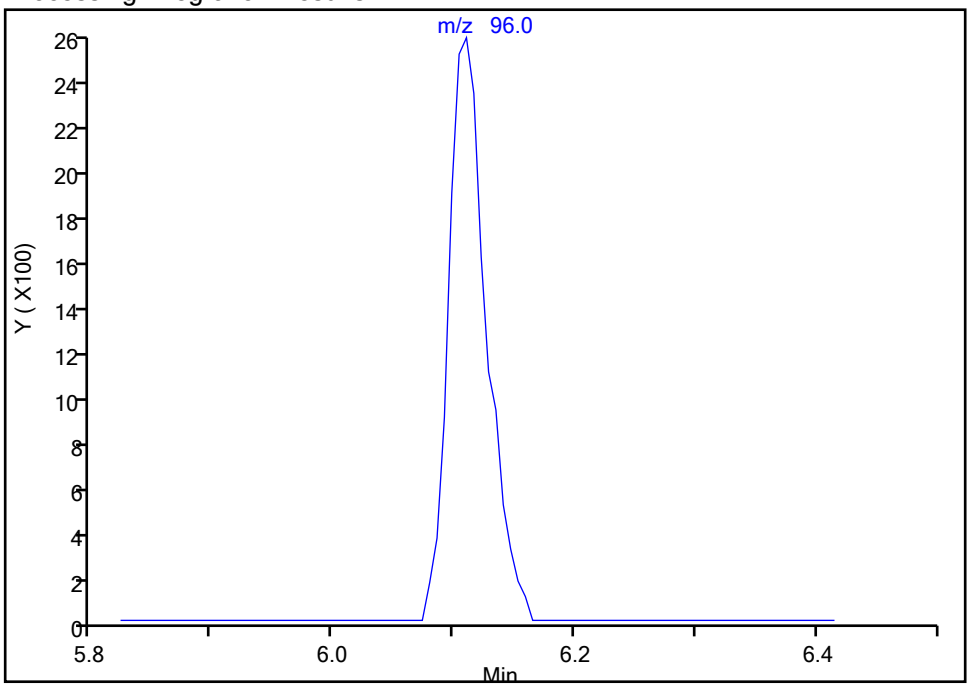
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5914.D
Injection Date: 14-Oct-2020 09:19:30 Instrument ID: Calvin
Lims ID: std11
Client ID:
Operator ID: sjn ALS Bottle#: 54 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

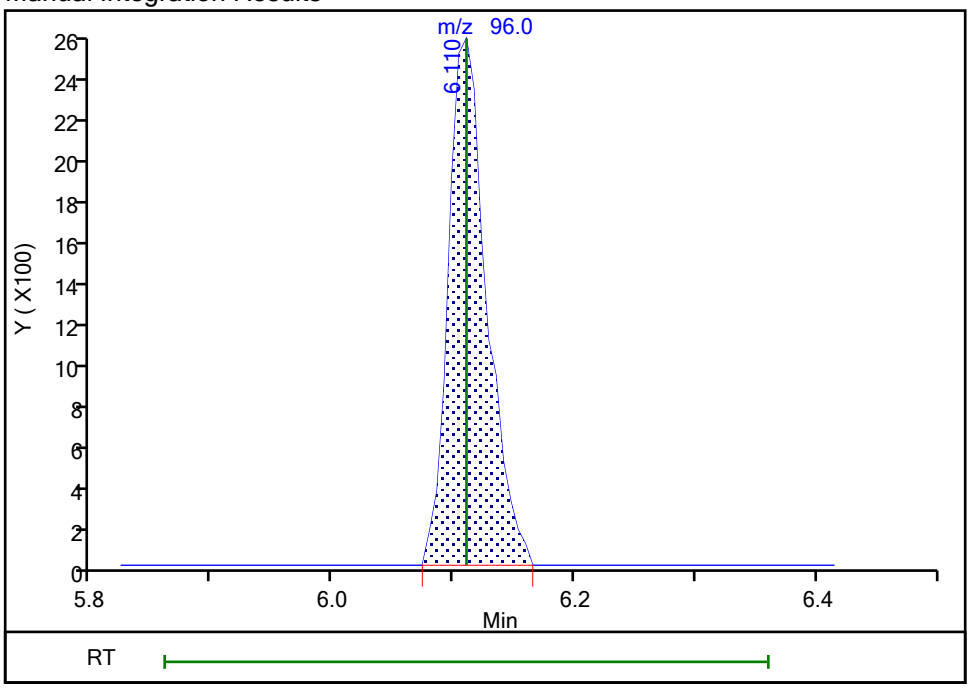
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5534
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 15-Oct-2020 01:13:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D
Lims ID: std12
Client ID:
Sample Type: IC Calib Level: 12
Inject. Date: 14-Oct-2020 09:44:30 ALS Bottle#: 55 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub49

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 15-Oct-2020 01:16:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	178000	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6106	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	136689	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	65256	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	39597	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	173981	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	52414	50.0	49.1	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	1645643	500.0	452.0	
10 Chloromethane	50	1.526	1.526	0.000	99	1225891	500.0	456.9	
11 Vinyl chloride	62	1.532	1.532	0.000	98	1559191	500.0	475.4	
12 Butadiene	54	1.568	1.568	0.000	94	1600618	500.0	482.3	
13 Bromomethane	94	1.818	1.837	-0.019	92	903288	500.0	962.7	
14 Chloroethane	64	1.910	1.916	-0.006	99	922989	500.0	486.4	
15 Dichlorofluoromethane	67	2.111	2.117	-0.006	99	2201455	500.0	484.9	
16 Trichlorofluoromethane	101	2.166	2.166	0.000	100	2135680	500.0	492.3	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

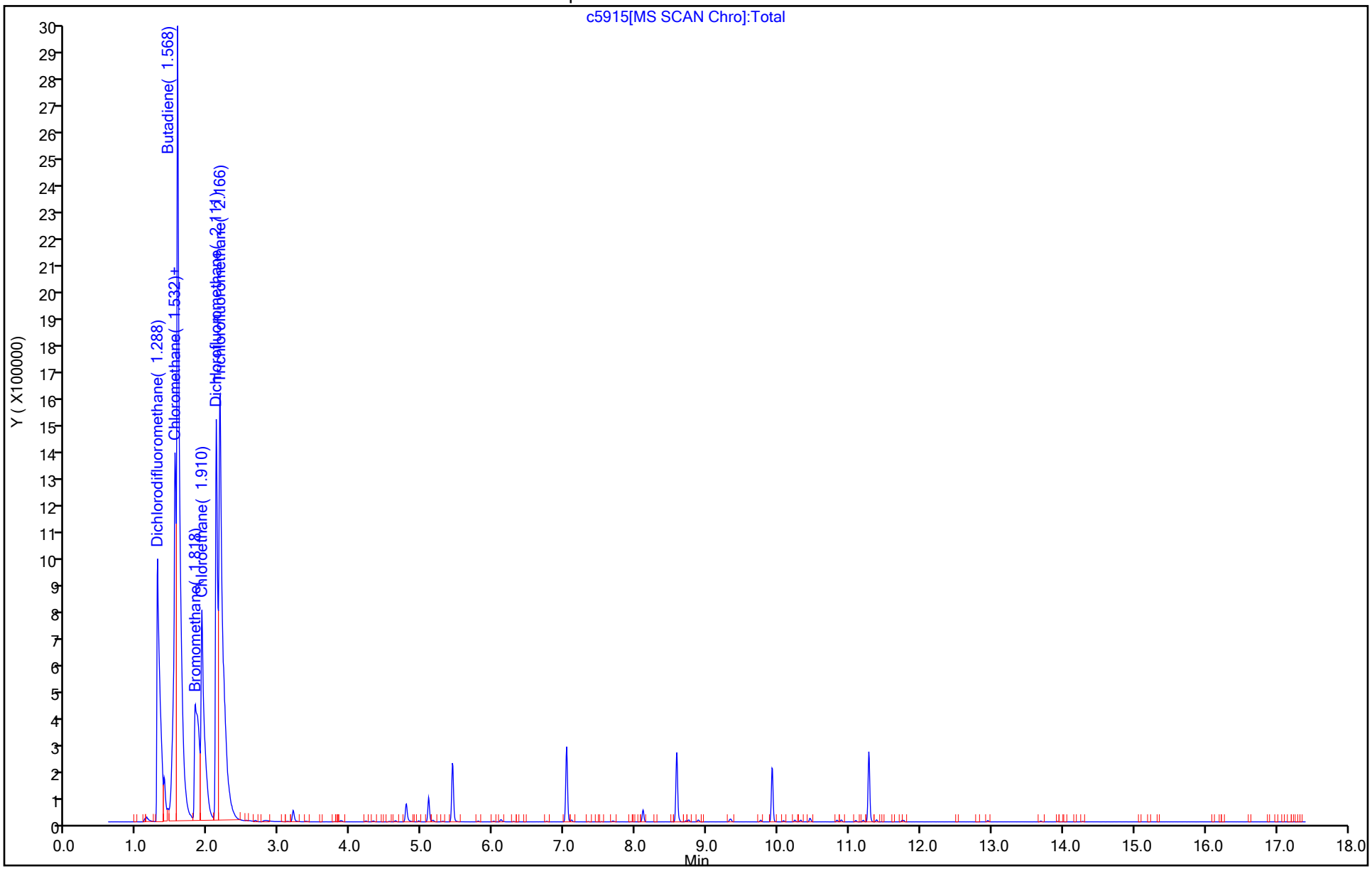
VV_I_GASES_00409 Amount Added: 500.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:37 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Injection Date:	14-Oct-2020 09:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	std12			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

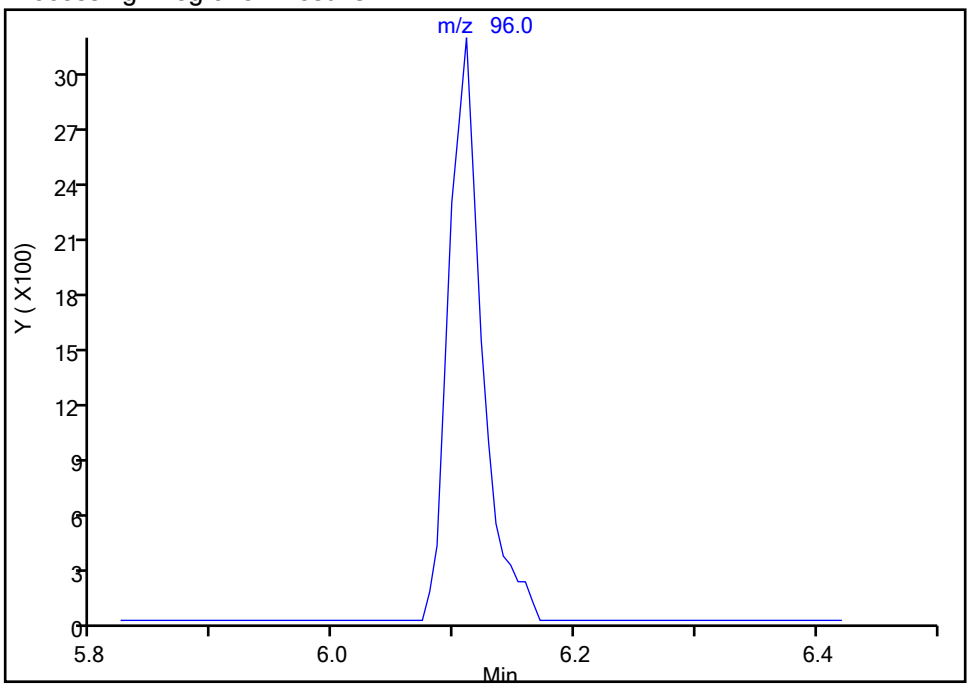
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D
Injection Date: 14-Oct-2020 09:44:30 Instrument ID: Calvin
Lims ID: std12
Client ID:
Operator ID: sjn ALS Bottle#: 55 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

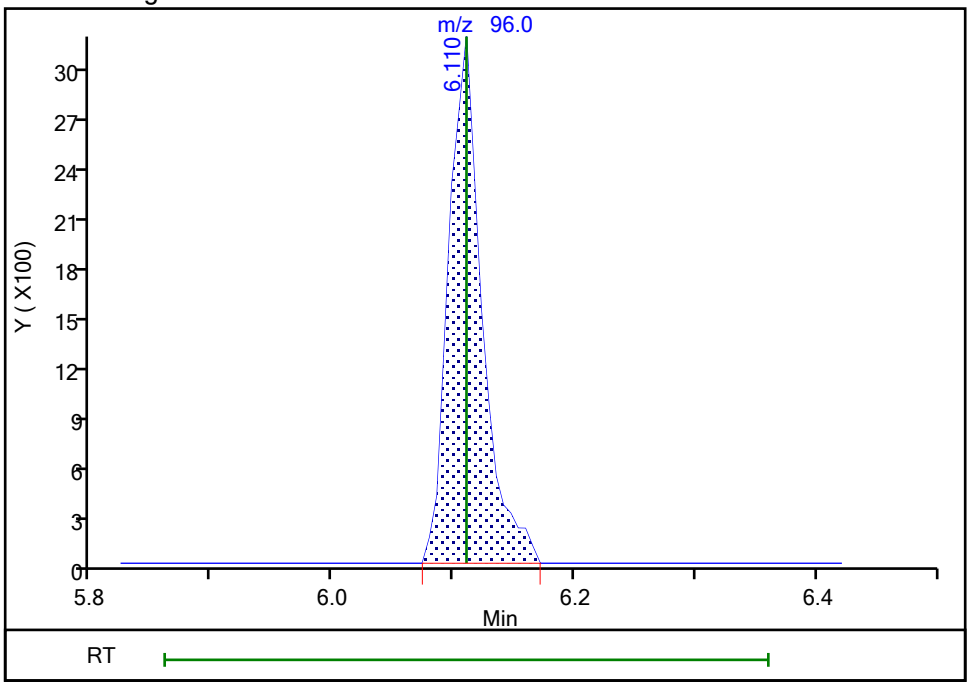
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6106
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 15-Oct-2020 01:14:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	1.678		100	1000	-11.1	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:20:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	180856	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	7388	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	138316	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	57	64862	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	42094	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	177363	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	52605	NC	NC	
17 Ethanol	45	2.373	2.373	0.000	100	30761	2000.0	1955.8	
18 Ethyl ether	59	2.452	2.452	0.000	94	78444	50.0	51.3	
19 Acrolein	56	2.556	2.550	0.006	99	83439	395.0	358.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	111728	50.0	60.1	
21 112TCTFE	101	2.666	2.666	0.000	95	102860	50.0	55.7	
22 Acetone	43	2.708	2.708	0.000	100	42869	100.0	90.2	
24 Carbon disulfide	76	2.836	2.836	0.000	100	333584	50.0	60.6	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	97	35898	500.0	421.2	
118 Acetonitrile	40	2.958	2.971	-0.013	98	72932	500.0	417.5	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	76	65393	50.0	54.4	
26 Methyl acetate	43	3.032	3.031	0.001	99	117486	100.0	92.0	
27 Methylene Chloride	84	3.111	3.105	0.006	94	108741	50.0	49.4	
23 Iodomethane	142	2.776	3.153	-0.377	99	88338	50.0	51.9	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	53576	500.0	444.2	
30 Acrylonitrile	53	3.342	3.342	0.000	99	319592	500.0	489.3	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	116812	50.0	55.0	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	250997	50.0	51.0	
31 Hexane	57	3.653	3.641	0.012	94	161370	50.0	56.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	207793	50.0	52.2	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	93	194320	50.0	50.5	
36 Isopropyl ether	87	3.867	3.867	0.000	95	94134	50.0	48.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	298509	50.0	48.0	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	84	129474	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	155372	50.0	49.5	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	61286	100.0	80.9	
41 Propionitrile	54	4.391	4.391	0.000	99	114657	500.0	441.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	23381	100.0	78.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	354918	500.0	460.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	97	46196	50.0	45.5	
44 Tetrahydrofuran	71	4.598	4.598	0.000	90	15794	100.0	87.6	
45 Chloroform	83	4.629	4.635	-0.006	96	189202	50.0	45.5	
46 1,1,1-Trichloroethane	97	4.800	4.793	0.007	98	175538	50.0	51.4	
47 Cyclohexane	56	4.848	4.848	0.000	93	213359	50.0	52.4	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	147091	50.0	49.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	160447	50.0	50.2	
108 Isobutyl alcohol	43	5.117	5.117	0.001	93	68307	1250.0	1060.3	
50 Benzene	78	5.153	5.153	0.000	96	482270	50.0	51.6	
51 1,2-Dichloroethane	62	5.165	5.171	-0.006	97	139283	50.0	47.1	
116 n-Butanol	56	5.263	5.257	0.006	47	111647	1250.0	1229.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	262380	50.0	46.8	
53 n-Heptane	43	5.446	5.446	0.000	93	140405	50.0	48.3	
54 Trichloroethene	95	5.787	5.793	-0.006	97	117933	50.0	49.4	
117 Ethyl acrylate	55	5.921	5.927	-0.006	98	106513	50.0	47.2	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	195325	50.0	49.8	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	94	113298	50.0	49.6	
56 Dibromomethane	93	6.116	6.122	-0.006	96	59033	50.0	48.7	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	122262	100.0	94.1	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	12397	1000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	135266	50.0	49.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	38859	100.0	97.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	59880	50.0	47.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	168561	50.0	51.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	152251	100.0	87.3	
62 Toluene	92	7.098	7.098	0.000	98	312316	50.0	49.1	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	141349	50.0	44.1	
64 Ethyl methacrylate	69	7.458	7.458	0.000	90	113409	50.0	45.7	
65 1,1,2-Trichloroethane	83	7.525	7.531	-0.006	92	74069	50.0	48.8	
66 Tetrachloroethene	166	7.677	7.677	0.000	96	129353	50.0	49.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	154183	50.0	47.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	100409	100.0	88.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	97988	50.0	48.4	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	129334	50.0	43.3	
70 Ethylene Dibromide	107	8.055	8.049	0.006	98	89776	50.0	48.0	
71 Chlorobenzene	112	8.610	8.610	0.000	92	324527	50.0	46.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	105465	50.0	47.0	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	226666	50.0	48.0	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	586644	50.0	48.3	
75 o-Xylene	106	9.323	9.317	0.006	97	212624	50.0	47.3	
76 Styrene	104	9.341	9.341	0.000	95	352638	50.0	47.3	
77 Bromoform	173	9.530	9.530	0.000	95	53274	50.0	44.1	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	568310	50.0	48.6	
79 Bromobenzene	156	10.079	10.085	-0.006	94	128521	50.0	45.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	95	97590	50.0	44.7	
81 1,2,3-Trichloropropane	110	10.134	10.146	-0.012	88	30734	50.0	42.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	88	25518	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	99	644961	50.0	47.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	366834	50.0	46.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	427019	50.0	46.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	98	436190	50.0	46.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	379455	50.0	46.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	436127	50.0	45.4	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	552438	50.0	48.0	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.007	98	228976	50.0	45.3	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	96	456338	50.0	47.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	423432	50.0	46.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	234689	50.0	45.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	33806	50.0	40.5	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	98	210465	50.0	43.4	
94 n-Butylbenzene	91	11.762	11.761	0.001	98	392581	50.0	46.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	85	13481	50.0	43.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	132431	50.0	44.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	98	110980	50.0	44.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	57579	50.0	47.8	
98 Naphthalene	128	13.975	13.974	0.001	97	231986	50.0	43.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	87228	50.0	44.2	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	108.4	
S 102 1,3-Dichloropropene, Total	1				0		100.0	95.2	
S 100 Xylenes, Total	1				0		100.0	95.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

VV_I_ICVSOL_00052	Amount Added: 50.00	Units: uL	
VV_I_ACRO ICV_00030	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 13-Oct-2020 18:29:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D

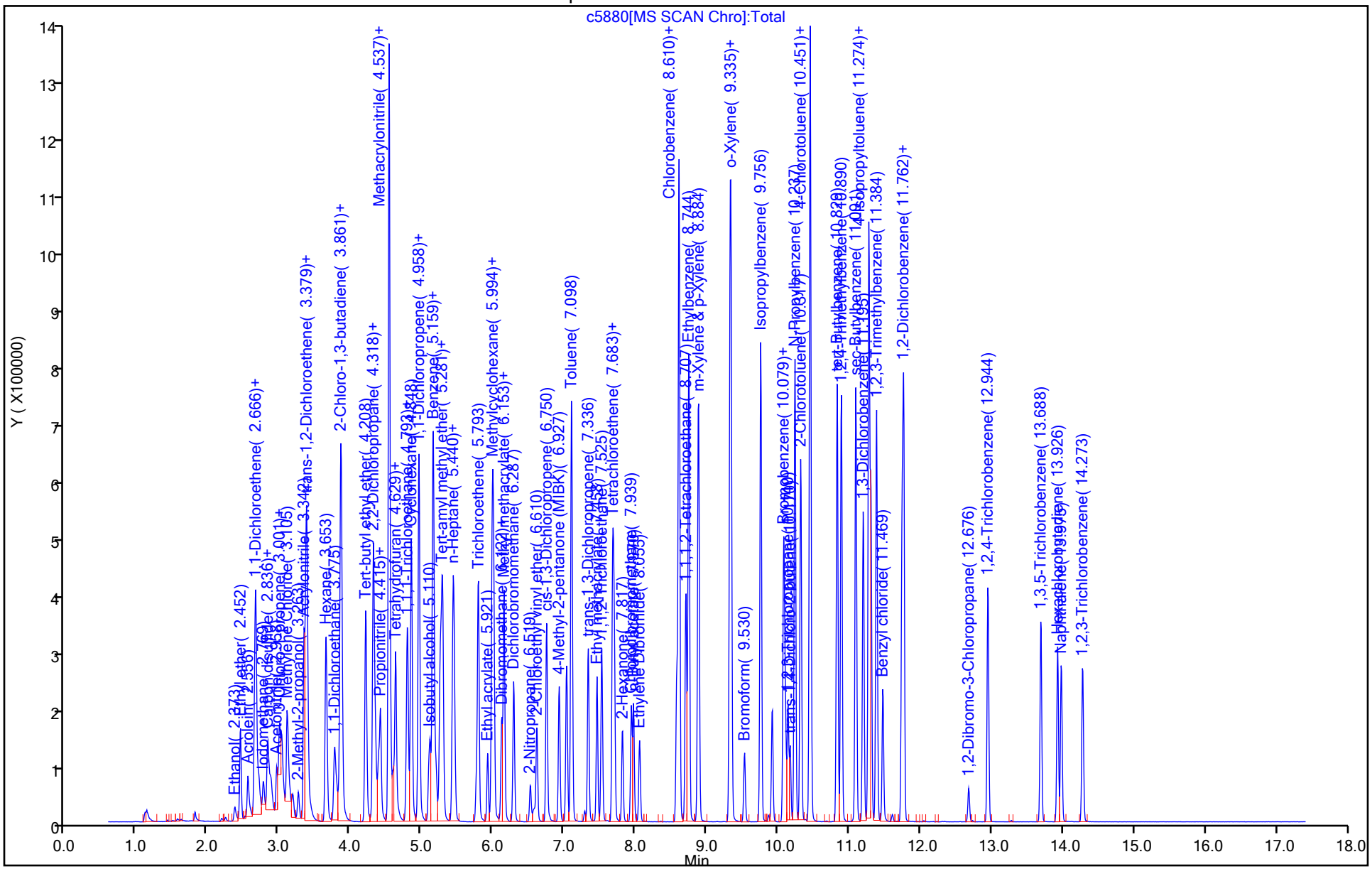
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: icv Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/02/2020 00:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2020 04:33

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2311	0.2327			50.0	0.7	30.0
Toluene-d8 (Surr)	Ave	1.235	1.282			50.0	3.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8116	0.8110			50.0	-0.0	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:20:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	180856	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	7388	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	138316	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	57	64862	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	42094	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	177363	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	52605	NC	NC	
17 Ethanol	45	2.373	2.373	0.000	100	30761	2000.0	1955.8	
18 Ethyl ether	59	2.452	2.452	0.000	94	78444	50.0	51.3	
19 Acrolein	56	2.556	2.550	0.006	99	83439	395.0	358.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	111728	50.0	60.1	
21 112TCTFE	101	2.666	2.666	0.000	95	102860	50.0	55.7	
22 Acetone	43	2.708	2.708	0.000	100	42869	100.0	90.2	
24 Carbon disulfide	76	2.836	2.836	0.000	100	333584	50.0	60.6	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	97	35898	500.0	421.2	
118 Acetonitrile	40	2.958	2.971	-0.013	98	72932	500.0	417.5	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	76	65393	50.0	54.4	
26 Methyl acetate	43	3.032	3.031	0.001	99	117486	100.0	92.0	
27 Methylene Chloride	84	3.111	3.105	0.006	94	108741	50.0	49.4	
23 Iodomethane	142	2.776	3.153	-0.377	99	88338	50.0	51.9	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	53576	500.0	444.2	
30 Acrylonitrile	53	3.342	3.342	0.000	99	319592	500.0	489.3	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	116812	50.0	55.0	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	250997	50.0	51.0	
31 Hexane	57	3.653	3.641	0.012	94	161370	50.0	56.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	207793	50.0	52.2	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	93	194320	50.0	50.5	
36 Isopropyl ether	87	3.867	3.867	0.000	95	94134	50.0	48.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	298509	50.0	48.0	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	84	129474	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	155372	50.0	49.5	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	61286	100.0	80.9	
41 Propionitrile	54	4.391	4.391	0.000	99	114657	500.0	441.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	23381	100.0	78.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	354918	500.0	460.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	97	46196	50.0	45.5	
44 Tetrahydrofuran	71	4.598	4.598	0.000	90	15794	100.0	87.6	
45 Chloroform	83	4.629	4.635	-0.006	96	189202	50.0	45.5	
46 1,1,1-Trichloroethane	97	4.800	4.793	0.007	98	175538	50.0	51.4	
47 Cyclohexane	56	4.848	4.848	0.000	93	213359	50.0	52.4	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	147091	50.0	49.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	160447	50.0	50.2	
108 Isobutyl alcohol	43	5.117	5.117	0.001	93	68307	1250.0	1060.3	
50 Benzene	78	5.153	5.153	0.000	96	482270	50.0	51.6	
51 1,2-Dichloroethane	62	5.165	5.171	-0.006	97	139283	50.0	47.1	
116 n-Butanol	56	5.263	5.257	0.006	47	111647	1250.0	1229.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	262380	50.0	46.8	
53 n-Heptane	43	5.446	5.446	0.000	93	140405	50.0	48.3	
54 Trichloroethene	95	5.787	5.793	-0.006	97	117933	50.0	49.4	
117 Ethyl acrylate	55	5.921	5.927	-0.006	98	106513	50.0	47.2	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	195325	50.0	49.8	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	94	113298	50.0	49.6	
56 Dibromomethane	93	6.116	6.122	-0.006	96	59033	50.0	48.7	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	122262	100.0	94.1	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	12397	1000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	135266	50.0	49.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	38859	100.0	97.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	59880	50.0	47.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	168561	50.0	51.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	152251	100.0	87.3	
62 Toluene	92	7.098	7.098	0.000	98	312316	50.0	49.1	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	141349	50.0	44.1	
64 Ethyl methacrylate	69	7.458	7.458	0.000	90	113409	50.0	45.7	
65 1,1,2-Trichloroethane	83	7.525	7.531	-0.006	92	74069	50.0	48.8	
66 Tetrachloroethene	166	7.677	7.677	0.000	96	129353	50.0	49.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	154183	50.0	47.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	100409	100.0	88.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	97988	50.0	48.4	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	129334	50.0	43.3	
70 Ethylene Dibromide	107	8.055	8.049	0.006	98	89776	50.0	48.0	
71 Chlorobenzene	112	8.610	8.610	0.000	92	324527	50.0	46.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	105465	50.0	47.0	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	226666	50.0	48.0	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	586644	50.0	48.3	
75 o-Xylene	106	9.323	9.317	0.006	97	212624	50.0	47.3	
76 Styrene	104	9.341	9.341	0.000	95	352638	50.0	47.3	
77 Bromoform	173	9.530	9.530	0.000	95	53274	50.0	44.1	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	568310	50.0	48.6	
79 Bromobenzene	156	10.079	10.085	-0.006	94	128521	50.0	45.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	95	97590	50.0	44.7	
81 1,2,3-Trichloropropane	110	10.134	10.146	-0.012	88	30734	50.0	42.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	88	25518	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	99	644961	50.0	47.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	366834	50.0	46.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	427019	50.0	46.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	98	436190	50.0	46.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	379455	50.0	46.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	436127	50.0	45.4	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	552438	50.0	48.0	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.007	98	228976	50.0	45.3	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	96	456338	50.0	47.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	423432	50.0	46.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	234689	50.0	45.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	33806	50.0	40.5	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	98	210465	50.0	43.4	
94 n-Butylbenzene	91	11.762	11.761	0.001	98	392581	50.0	46.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	85	13481	50.0	43.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	132431	50.0	44.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	98	110980	50.0	44.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	57579	50.0	47.8	
98 Naphthalene	128	13.975	13.974	0.001	97	231986	50.0	43.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	87228	50.0	44.2	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	108.4	
S 102 1,3-Dichloropropene, Total	1				0		100.0	95.2	
S 100 Xylenes, Total	1				0		100.0	95.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

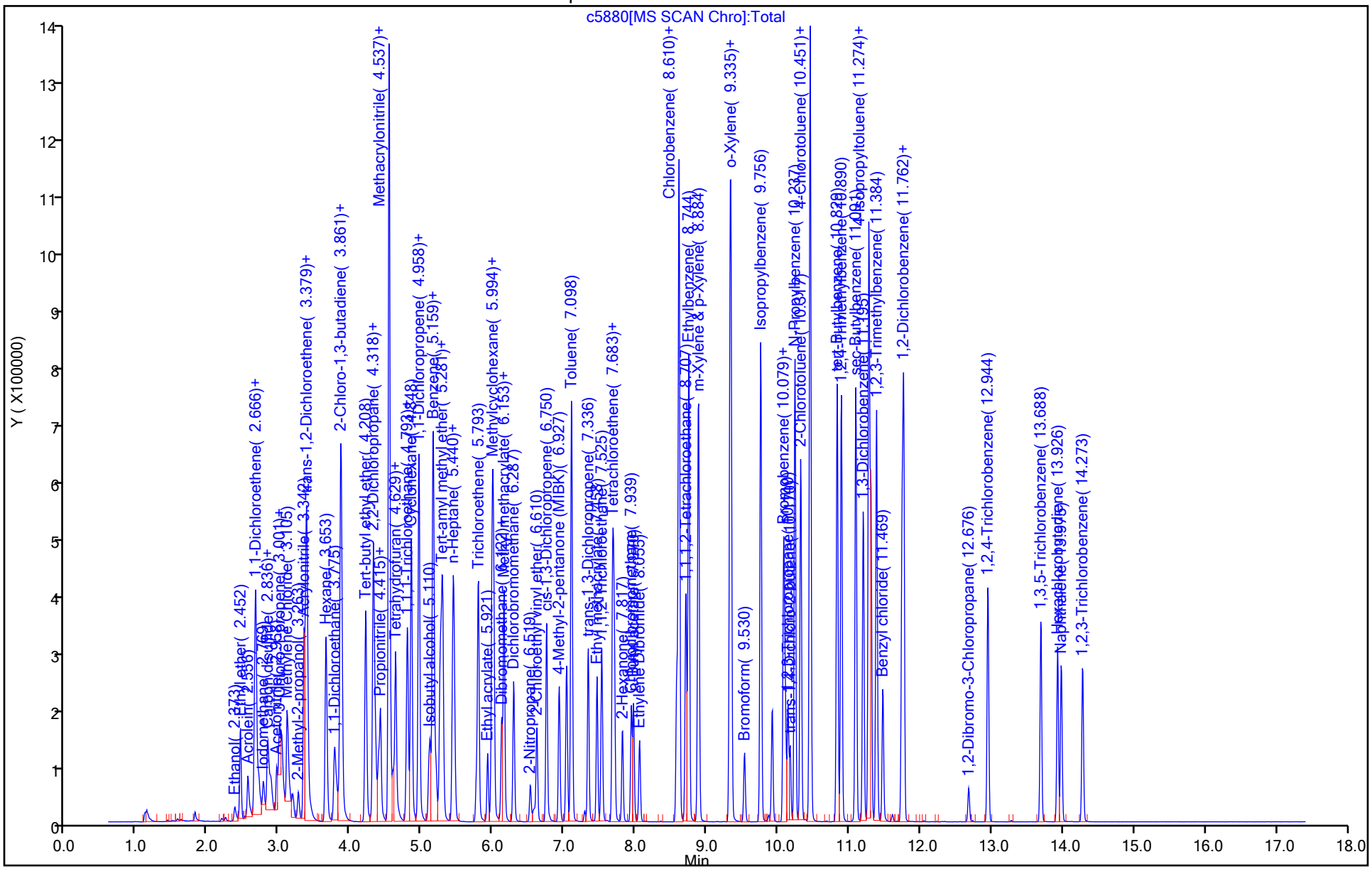
VV_I_ICVSOL_00052	Amount Added: 50.00	Units: uL	
VV_I_ACRO ICV_00030	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 13-Oct-2020 18:29:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D

Injection Date:	13-Oct-2020 14:20:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0043		1960	2000	-2.2	30.0
Diethyl ether	Ave	0.4227	0.4337		51.3	50.0	2.6	30.0
Acrolein	Ave	0.0643	0.0584		359	395	-9.2	30.0
1,1-Dichloroethene	Ave	0.5143	0.6178	0.1000	60.1	50.0	20.1	30.0
1,1,2-Trichlorotrifluoroethane	Ave	0.5105	0.5687	0.1000	55.7	50.0	11.4	30.0
Acetone	Lin1		0.1185	0.0500	90.2	100	-9.8	30.0
Iodomethane	Ave	0.4705	0.4884		51.9	50.0	3.8	30.0
Carbon disulfide	Ave	1.523	1.844	0.1000	60.6	50.0	21.1	30.0
Isopropyl alcohol	Ave	0.0236	0.0198		421	500	-15.8	30.0
Acetonitrile	Ave	0.0483	0.0403		417	500	-16.5	30.0
Allyl chloride	Ave	0.3323	0.3616		54.4	50.0	8.8	30.0
Methyl acetate	Ave	0.3531	0.3248	0.1000	92.0	100	-8.0	30.0
Methylene Chloride	Ave	0.6089	0.6013	0.1000	49.4	50.0	-1.3	30.0
tert-Butanol	Ave	0.0333	0.0296		444	500	-11.2	30.0
Acrylonitrile	Ave	0.1806	0.1767		489	500	-2.1	30.0
trans-1,2-Dichloroethene	Ave	0.5867	0.6459	0.1000	55.0	50.0	10.1	30.0
Methyl tert-butyl ether	Ave	1.361	1.388	0.1000	51.0	50.0	2.0	30.0
Hexane	Ave	0.7956	0.8923		56.1	50.0	12.2	30.0
1,1-Dichloroethane	Ave	1.100	1.149	0.2000	52.2	50.0	4.4	30.0
Chloroprene	Ave	1.064	1.074		50.5	50.0	1.0	30.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.5205		48.6	50.0	-2.9	30.0
tert-Butyl ethyl ether	Ave	1.720	1.651		48.0	50.0	-4.1	30.0
2,2-Dichloropropane	Ave	0.8681	0.8591		49.5	50.0	-1.0	30.0
cis-1,2-Dichloroethene	Ave	0.6713	0.7159	0.1000	53.3	50.0	6.6	30.0
2-Butanone (MEK)	Ave	0.2094	0.1694	0.0500	80.9	100	-19.1	30.0
Propionitrile	Ave	0.0718	0.0634		441	500	-11.7	30.0
Ethyl acetate	Ave	0.0822	0.0646		78.6	100	-21.4	30.0
Methacrylonitrile	Ave	0.2130	0.1962		461	500	-7.9	30.0
Bromochloromethane	Ave	0.2805	0.2554		45.5	50.0	-8.9	30.0
Tetrahydrofuran	Ave	0.0498	0.0437		87.6	100	-12.4	30.0
Chloroform	Ave	1.151	1.046	0.2000	45.5	50.0	-9.1	30.0
1,1,1-Trichloroethane	Ave	0.9433	0.9706	0.1000	51.4	50.0	2.9	30.0
Cyclohexane	Ave	1.125	1.180	0.1000	52.4	50.0	4.9	30.0
1,1-Dichloropropene	Ave	0.8831	0.8872		50.2	50.0	0.5	30.0
Carbon tetrachloride	Ave	0.8162	0.8133	0.1000	49.8	50.0	-0.4	30.0
Isobutyl alcohol	Ave	0.0178	0.0151		1060	1250	-15.2	30.0
Benzene	Ave	2.584	2.667	0.5000	51.6	50.0	3.2	30.0
1,2-Dichloroethane	Ave	0.8176	0.7701	0.1000	47.1	50.0	-5.8	30.0
n-Butanol	Ave	0.0251	0.0247		1230	1250	-1.7	30.0
tert-Amyl methyl ether	Ave	1.551	1.451		46.8	50.0	-6.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Ave	0.8031	0.7763		48.3	50.0	-3.3	30.0
Trichloroethene	Ave	0.6604	0.6521	0.2000	49.4	50.0	-1.3	30.0
Ethyl acrylate	Ave	0.6242	0.5889		47.2	50.0	-5.6	30.0
Methylcyclohexane	Ave	1.084	1.080	0.1000	49.8	50.0	-0.4	30.0
1,2-Dichloropropane	Ave	0.6310	0.6265	0.1000	49.6	50.0	-0.7	30.0
Dibromomethane	Ave	0.3352	0.3264		48.7	50.0	-2.6	30.0
Methyl methacrylate	Ave	0.3591	0.3380		94.1	100	-5.9	30.0
Dichlorobromomethane	Ave	0.7620	0.7479	0.2000	49.1	50.0	-1.8	30.0
2-Nitropropane	Ave	0.1107	0.1074		97.1	100	-2.9	30.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3311		47.3	50.0	-5.4	30.0
cis-1,3-Dichloropropene	Ave	0.9124	0.9320	0.2000	51.1	50.0	2.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.4209	0.1000	87.3	100	-12.7	30.0
Toluene	Ave	1.757	1.727	0.4000	49.1	50.0	-1.7	30.0
trans-1,3-Dichloropropene	Lin1		0.7816	0.1000	44.1	50.0	-11.8	30.0
Ethyl methacrylate	Ave	0.6863	0.6271		45.7	50.0	-8.6	30.0
1,1,2-Trichloroethane	Ave	0.4195	0.4095	0.1000	48.8	50.0	-2.4	30.0
Tetrachloroethene	Ave	0.7237	0.7152	0.2000	49.4	50.0	-1.2	30.0
1,3-Dichloropropane	Ave	0.8991	0.8525		47.4	50.0	-5.2	30.0
2-Hexanone	Ave	0.3151	0.2776	0.1000	88.1	100	-11.9	30.0
Chlorodibromomethane	Ave	0.5599	0.5418	0.1000	48.4	50.0	-3.2	30.0
n-Butyl acetate	Ave	0.8257	0.7151		43.3	50.0	-13.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.4964	0.1000	48.0	50.0	-4.0	30.0
Chlorobenzene	Ave	2.507	2.346	0.5000	46.8	50.0	-6.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7625		47.0	50.0	-5.9	30.0
Ethylbenzene	Ave	4.388	4.241	0.1000	48.3	50.0	-3.4	30.0
m,p-Xylene	Ave	1.708	1.639	0.1000	48.0	50.0	-4.1	30.0
o-Xylene	Ave	1.626	1.537	0.3000	47.3	50.0	-5.5	30.0
Styrene	Ave	2.693	2.550	0.3000	47.3	50.0	-5.3	30.0
Bromoform	Ave	0.4364	0.3852	0.1000	44.1	50.0	-11.7	30.0
Isopropylbenzene	Ave	4.230	4.109	0.1000	48.6	50.0	-2.9	30.0
Bromobenzene	Ave	1.026	0.9292		45.3	50.0	-9.4	30.0
1,1,2,2-Tetrachloroethane	Lin1		0.7056	0.2000	44.7	50.0	-10.6	30.0
1,2,3-Trichloropropane	Ave	0.2632	0.2222		42.2	50.0	-15.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.1845		42.1	50.0	-15.7	30.0
n-Propylbenzene	Ave	4.874	4.663		47.8	50.0	-4.3	30.0
2-Chlorotoluene	Ave	2.855	2.652		46.5	50.0	-7.1	30.0
1,3,5-Trimethylbenzene	Ave	3.375	3.154		46.7	50.0	-6.6	30.0
4-Chlorotoluene	Ave	3.359	3.087		46.0	50.0	-8.1	30.0
tert-Butylbenzene	Ave	2.925	2.743		46.9	50.0	-6.2	30.0
1,2,4-Trimethylbenzene	Ave	3.476	3.153		45.4	50.0	-9.3	30.0
sec-Butylbenzene	Ave	4.160	3.994		48.0	50.0	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/18 Calibration Date: 10/13/2020 14:20

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5880.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichlorobenzene	Ave	1.828	1.655	0.6000	45.3	50.0	-9.4	30.0
p-Isopropyltoluene	Ave	7.443	7.036		47.3	50.0	-5.5	30.0
1,4-Dichlorobenzene	Ave	3.970	3.618	0.5000	45.6	50.0	-8.9	30.0
1,2,3-Trimethylbenzene	Ave	7.081	6.528		46.1	50.0	-7.8	30.0
Benzyl chloride	Ave	0.6441	0.5212		40.5	50.0	-19.1	30.0
1,2-Dichlorobenzene	Ave	3.736	3.245	0.4000	43.4	50.0	-13.2	30.0
n-Butylbenzene	Ave	6.554	6.053		46.2	50.0	-7.6	30.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2078	0.0500	43.7	50.0	-12.6	30.0
1,2,4-Trichlorobenzene	Ave	2.282	2.042	0.2000	44.7	50.0	-10.5	30.0
1,3,5-Trichlorobenzene	Ave	1.906	1.711		44.9	50.0	-10.2	30.0
Hexachlorobutadiene	Ave	0.9282	0.8877		47.8	50.0	-4.4	30.0
Naphthalene	Ave	4.156	3.577		43.0	50.0	-13.9	30.0
1,2,3-Trichlorobenzene	Ave	1.521	1.345		44.2	50.0	-11.6	30.0
1-Chlorohexane	None				1.00	50.0	-100.0*	30.0
Isooctane	None				1.00	50.0	-100.0*	30.0
tert-Amyl alcohol	None				50.0	500	-100.0*	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:20:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	180856	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	97	7388	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	85	138316	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	57	64862	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	42094	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	177363	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	52605	NC	NC	
17 Ethanol	45	2.373	2.373	0.000	100	30761	2000.0	1955.8	
18 Ethyl ether	59	2.452	2.452	0.000	94	78444	50.0	51.3	
19 Acrolein	56	2.556	2.550	0.006	99	83439	395.0	358.7	
20 1,1-Dichloroethene	96	2.654	2.647	0.007	97	111728	50.0	60.1	
21 112TCTFE	101	2.666	2.666	0.000	95	102860	50.0	55.7	
22 Acetone	43	2.708	2.708	0.000	100	42869	100.0	90.2	
24 Carbon disulfide	76	2.836	2.836	0.000	100	333584	50.0	60.6	
105 Isopropyl alcohol	45	2.885	2.891	-0.006	97	35898	500.0	421.2	
118 Acetonitrile	40	2.958	2.971	-0.013	98	72932	500.0	417.5	M
25 3-Chloro-1-propene	76	3.001	3.001	0.000	76	65393	50.0	54.4	
26 Methyl acetate	43	3.032	3.031	0.001	99	117486	100.0	92.0	
27 Methylene Chloride	84	3.111	3.105	0.006	94	108741	50.0	49.4	
23 Iodomethane	142	2.776	3.153	-0.377	99	88338	50.0	51.9	
35 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	53576	500.0	444.2	
30 Acrylonitrile	53	3.342	3.342	0.000	99	319592	500.0	489.3	
28 trans-1,2-Dichloroethene	96	3.373	3.367	0.006	98	116812	50.0	55.0	
29 Methyl tert-butyl ether	73	3.385	3.391	-0.006	96	250997	50.0	51.0	
31 Hexane	57	3.653	3.641	0.012	94	161370	50.0	56.1	
32 1,1-Dichloroethane	63	3.775	3.775	0.000	97	207793	50.0	52.2	
34 2-Chloro-1,3-butadiene	53	3.855	3.854	0.001	93	194320	50.0	50.5	
36 Isopropyl ether	87	3.867	3.867	0.000	95	94134	50.0	48.6	
37 Tert-butyl ethyl ether	59	4.208	4.208	0.000	98	298509	50.0	48.0	
39 cis-1,2-Dichloroethene	96	4.324	4.312	0.012	84	129474	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.318	4.318	0.000	91	155372	50.0	49.5	
40 2-Butanone (MEK)	43	4.342	4.348	-0.006	100	61286	100.0	80.9	
41 Propionitrile	54	4.391	4.391	0.000	99	114657	500.0	441.5	
104 Ethyl acetate	61	4.415	4.415	0.000	100	23381	100.0	78.6	
43 Methacrylonitrile	67	4.537	4.543	-0.006	94	354918	500.0	460.6	
42 Chlorobromomethane	128	4.543	4.543	0.000	97	46196	50.0	45.5	
44 Tetrahydrofuran	71	4.598	4.598	0.000	90	15794	100.0	87.6	
45 Chloroform	83	4.629	4.635	-0.006	96	189202	50.0	45.5	
46 1,1,1-Trichloroethane	97	4.800	4.793	0.007	98	175538	50.0	51.4	
47 Cyclohexane	56	4.848	4.848	0.000	93	213359	50.0	52.4	
48 Carbon tetrachloride	117	4.958	4.958	0.000	86	147091	50.0	49.8	
49 1,1-Dichloropropene	75	4.958	4.958	0.000	93	160447	50.0	50.2	
108 Isobutyl alcohol	43	5.117	5.117	0.001	93	68307	1250.0	1060.3	
50 Benzene	78	5.153	5.153	0.000	96	482270	50.0	51.6	
51 1,2-Dichloroethane	62	5.165	5.171	-0.006	97	139283	50.0	47.1	
116 n-Butanol	56	5.263	5.257	0.006	47	111647	1250.0	1229.0	a
52 Tert-amyl methyl ether	73	5.287	5.287	0.000	98	262380	50.0	46.8	
53 n-Heptane	43	5.446	5.446	0.000	93	140405	50.0	48.3	
54 Trichloroethene	95	5.787	5.793	-0.006	97	117933	50.0	49.4	
117 Ethyl acrylate	55	5.921	5.927	-0.006	98	106513	50.0	47.2	
114 Methylcyclohexane	83	5.988	5.988	0.000	91	195325	50.0	49.8	
55 1,2-Dichloropropane	63	6.007	6.006	0.001	94	113298	50.0	49.6	
56 Dibromomethane	93	6.116	6.122	-0.006	96	59033	50.0	48.7	
57 Methyl methacrylate	69	6.153	6.153	0.000	92	122262	100.0	94.1	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	12397	1000.0	0	
58 Dichlorobromomethane	83	6.287	6.287	0.000	98	135266	50.0	49.1	
106 2-Nitropropane	43	6.525	6.519	0.006	99	38859	100.0	97.1	
59 2-Chloroethyl vinyl ether	63	6.610	6.610	0.000	93	59880	50.0	47.3	
60 cis-1,3-Dichloropropene	75	6.750	6.750	0.000	94	168561	50.0	51.1	
61 4-Methyl-2-pentanone (MIBK)	43	6.927	6.927	0.000	98	152251	100.0	87.3	
62 Toluene	92	7.098	7.098	0.000	98	312316	50.0	49.1	
63 trans-1,3-Dichloropropene	75	7.336	7.335	0.001	96	141349	50.0	44.1	
64 Ethyl methacrylate	69	7.458	7.458	0.000	90	113409	50.0	45.7	
65 1,1,2-Trichloroethane	83	7.525	7.531	-0.006	92	74069	50.0	48.8	
66 Tetrachloroethene	166	7.677	7.677	0.000	96	129353	50.0	49.4	
67 1,3-Dichloropropane	76	7.701	7.701	0.000	94	154183	50.0	47.4	
68 2-Hexanone	43	7.817	7.817	0.000	98	100409	100.0	88.1	
69 Chlorodibromomethane	129	7.939	7.939	0.000	90	97988	50.0	48.4	
109 n-Butyl acetate	43	7.970	7.970	0.000	98	129334	50.0	43.3	
70 Ethylene Dibromide	107	8.055	8.049	0.006	98	89776	50.0	48.0	
71 Chlorobenzene	112	8.610	8.610	0.000	92	324527	50.0	46.8	
72 1,1,1,2-Tetrachloroethane	131	8.707	8.707	0.000	95	105465	50.0	47.0	
74 m-Xylene & p-Xylene	106	8.884	8.878	0.006	99	226666	50.0	48.0	
73 Ethylbenzene	91	8.744	8.884	-0.140	98	586644	50.0	48.3	
75 o-Xylene	106	9.323	9.317	0.006	97	212624	50.0	47.3	
76 Styrene	104	9.341	9.341	0.000	95	352638	50.0	47.3	
77 Bromoform	173	9.530	9.530	0.000	95	53274	50.0	44.1	
78 Isopropylbenzene	105	9.756	9.762	-0.006	96	568310	50.0	48.6	
79 Bromobenzene	156	10.079	10.085	-0.006	94	128521	50.0	45.3	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.097	0.006	95	97590	50.0	44.7	
81 1,2,3-Trichloropropane	110	10.134	10.146	-0.012	88	30734	50.0	42.2	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.164	0.006	88	25518	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.237	10.237	0.000	99	644961	50.0	47.8	
84 2-Chlorotoluene	91	10.317	10.317	0.000	96	366834	50.0	46.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	427019	50.0	46.0	
86 1,3,5-Trimethylbenzene	105	10.451	10.457	-0.006	98	436190	50.0	46.7	
87 tert-Butylbenzene	119	10.829	10.829	0.000	94	379455	50.0	46.9	
88 1,2,4-Trimethylbenzene	105	10.890	10.884	0.006	97	436127	50.0	45.4	
89 sec-Butylbenzene	105	11.091	11.091	0.000	94	552438	50.0	48.0	
90 1,3-Dichlorobenzene	146	11.195	11.188	0.007	98	228976	50.0	45.3	
91 4-Isopropyltoluene	119	11.274	11.268	0.006	96	456338	50.0	47.3	
110 1,2,3-Trimethylbenzene	105	11.384	11.280	0.104	99	423432	50.0	46.1	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	95	234689	50.0	45.6	
113 Benzyl chloride	126	11.475	11.463	0.012	99	33806	50.0	40.5	
93 1,2-Dichlorobenzene	146	11.743	11.737	0.006	98	210465	50.0	43.4	
94 n-Butylbenzene	91	11.762	11.761	0.001	98	392581	50.0	46.2	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.682	-0.006	85	13481	50.0	43.7	
96 1,2,4-Trichlorobenzene	180	12.944	12.950	-0.006	94	132431	50.0	44.7	
112 1,3,5-Trichlorobenzene	180	13.694	13.688	0.006	98	110980	50.0	44.9	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	98	57579	50.0	47.8	
98 Naphthalene	128	13.975	13.974	0.001	97	231986	50.0	43.0	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	96	87228	50.0	44.2	
131 1-Chlorohexane	55		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		100.0	108.4	
S 102 1,3-Dichloropropene, Total	1				0		100.0	95.2	
S 100 Xylenes, Total	1				0		100.0	95.2	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

VV_I_ICVSOL_00052	Amount Added: 50.00	Units: uL	
VV_I_ACRO ICV_00030	Amount Added: 50.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 13-Oct-2020 18:29:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D

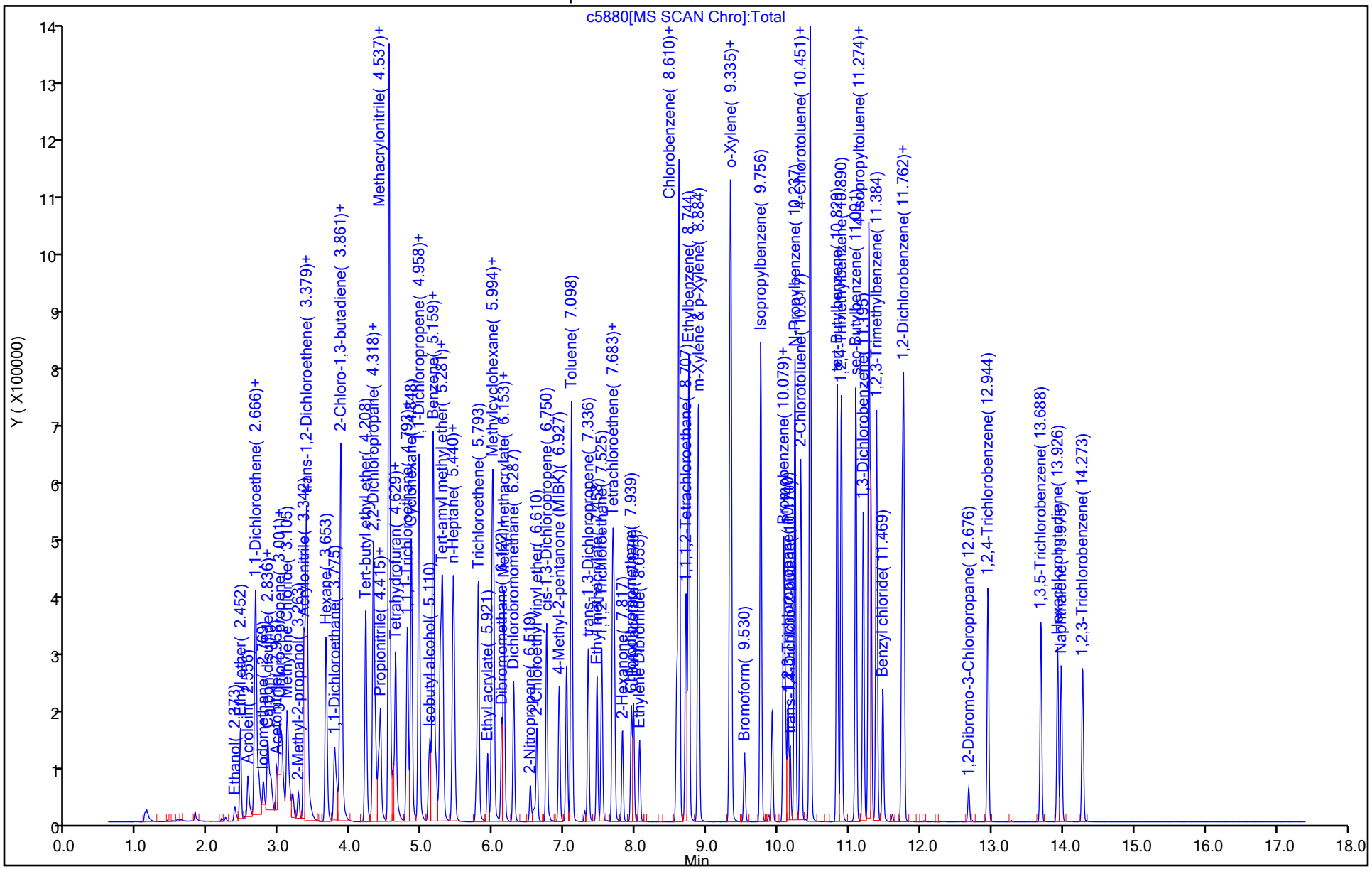
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin Operator ID: sjn

Lims ID: icv Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: CVOA8260NEW Limit Group: MSV 8260D ICAL



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

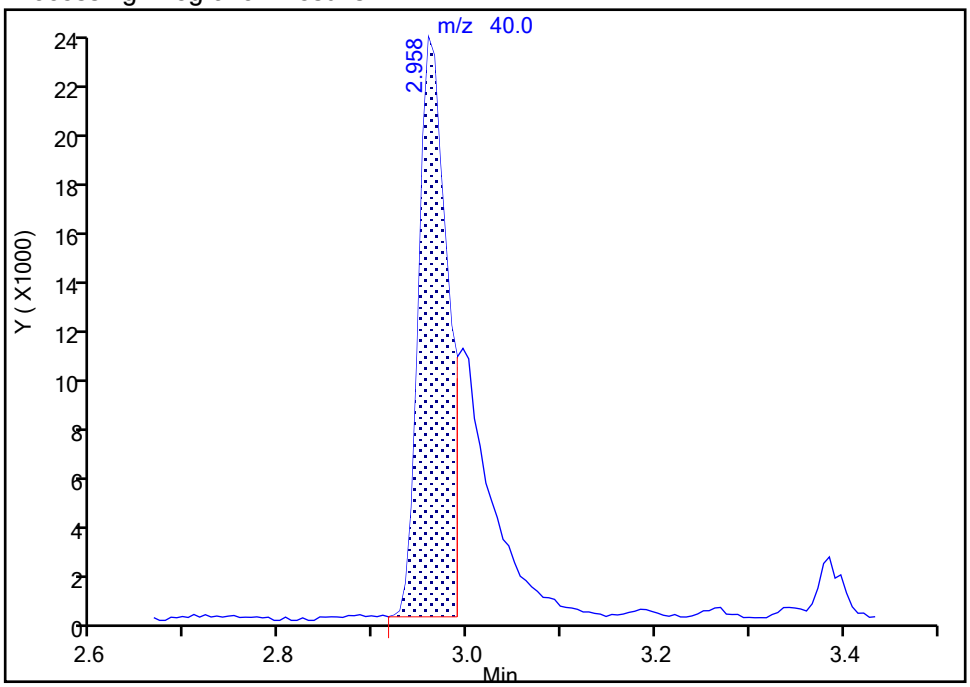
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

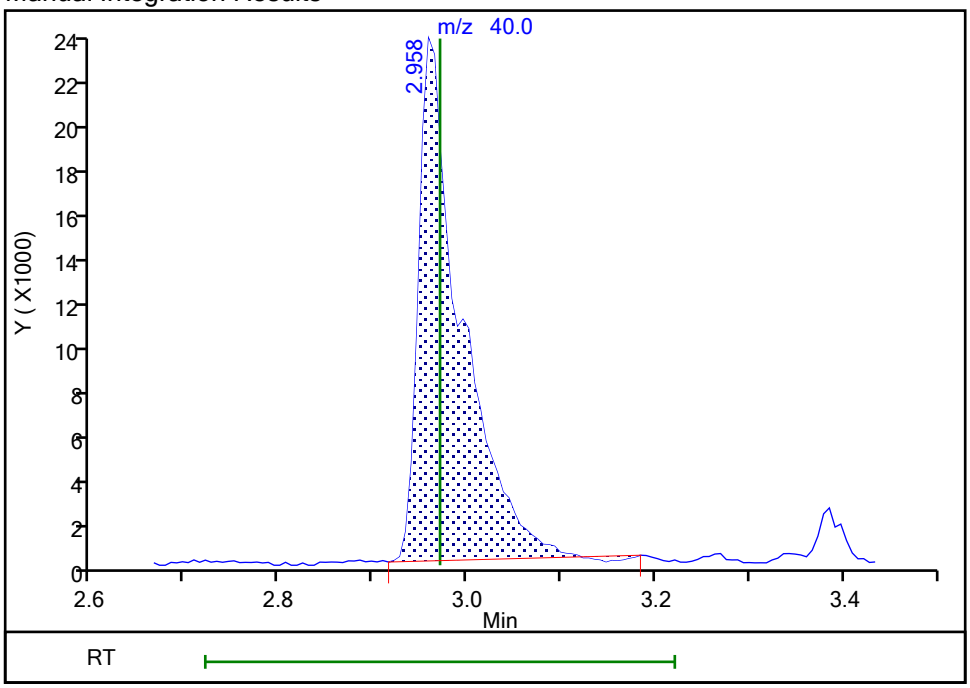
Processing Integration Results

RT: 2.96
Area: 50239
Amount: 287.5840
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 72932
Amount: 417.4859
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 18:09:27
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

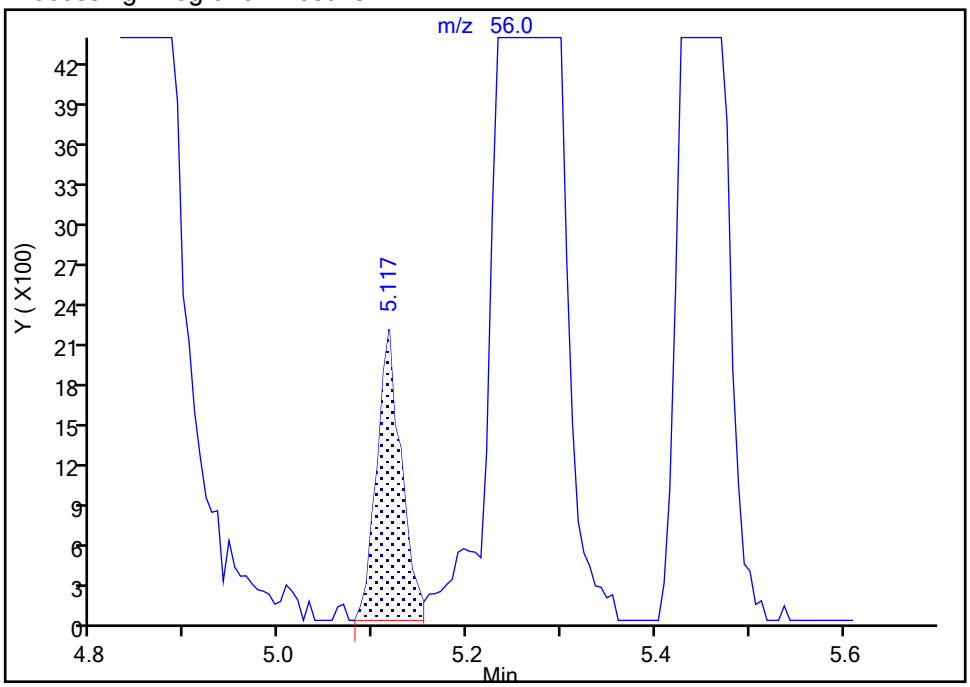
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5880.D
Injection Date: 13-Oct-2020 14:20:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

116 n-Butanol, CAS: 71-36-3

Signal: 1

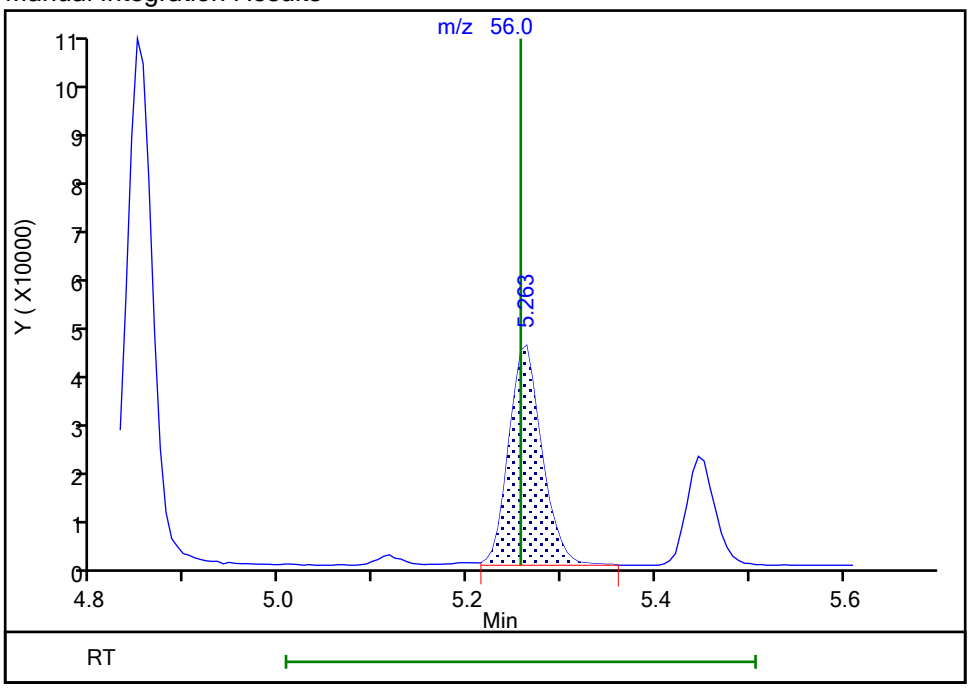
Processing Integration Results

RT: 5.12
Area: 3905
Amount: 42.986280
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 111647
Amount: 1229.0113
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 18:08:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/19 Calibration Date: 10/13/2020 14:44

Instrument ID: Calvin Calib Start Date: 10/02/2020 00:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2020 04:33

Lab File ID: c5881.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2311	0.2199			50.0	-4.9	30.0
Toluene-d8 (Surr)	Ave	1.235	1.266			50.0	2.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8116	0.7959			50.0	-1.9	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:44:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	163228	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	96	5747	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	122061	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	57175	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	93	35890	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	154474	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	88	45505	NC	NC	
33 Vinyl acetate	86	3.836	3.842	-0.006	97	32468	100.0	91.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

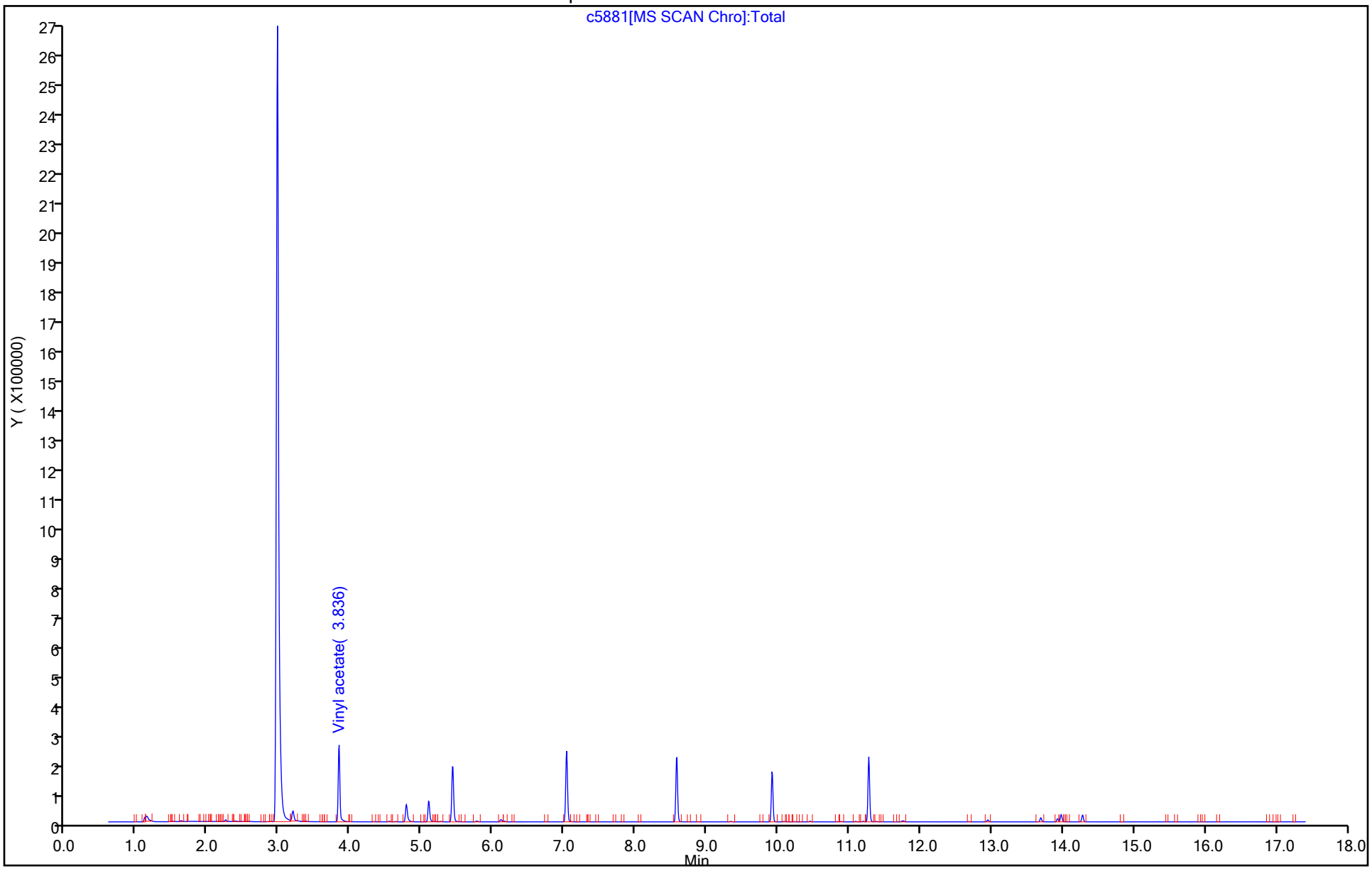
VV_I_VA ICV U_00013 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-Oct-2020 18:29:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D

Injection Date:	13-Oct-2020 14:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

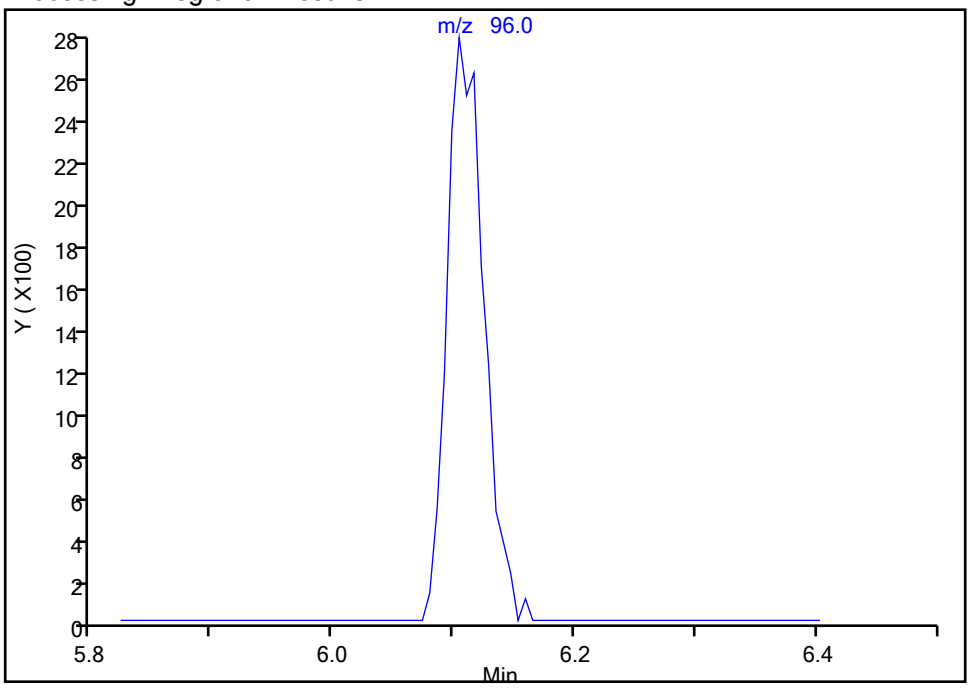
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Injection Date: 13-Oct-2020 14:44:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

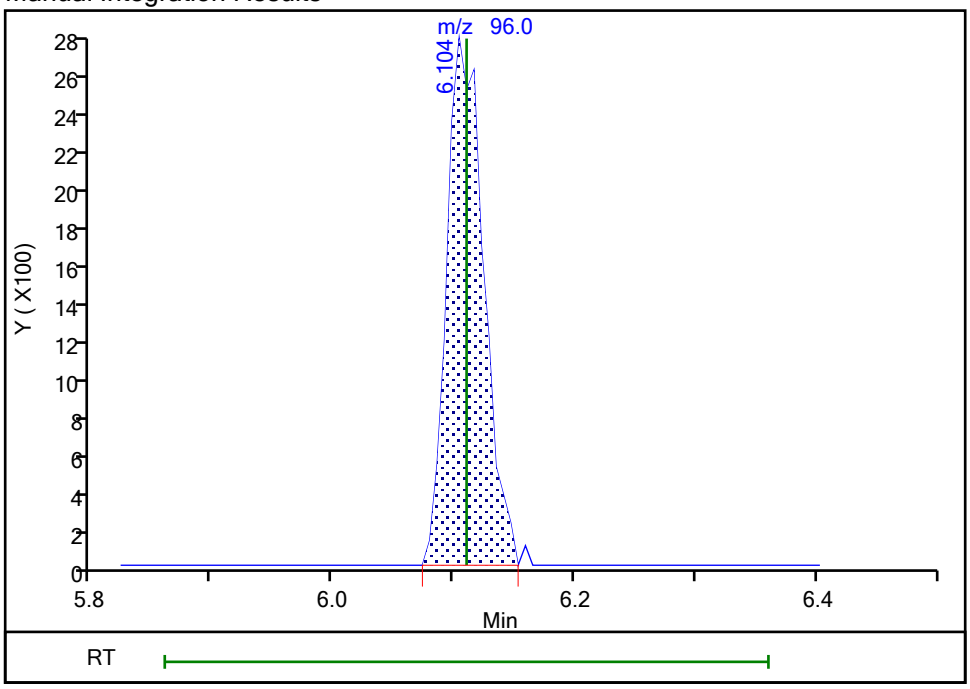
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5747
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 13-Oct-2020 18:10:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/19 Calibration Date: 10/13/2020 14:44

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5881.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl acetate	Ave	0.1090	0.0995		91.3	100	-8.7	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 13-Oct-2020 14:44:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:29:04 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 18:10:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.434	5.427	0.007	99	163228	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	96	5747	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	86	122061	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	57175	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	93	35890	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	154474	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	88	45505	NC	NC	
33 Vinyl acetate	86	3.836	3.842	-0.006	97	32468	100.0	91.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

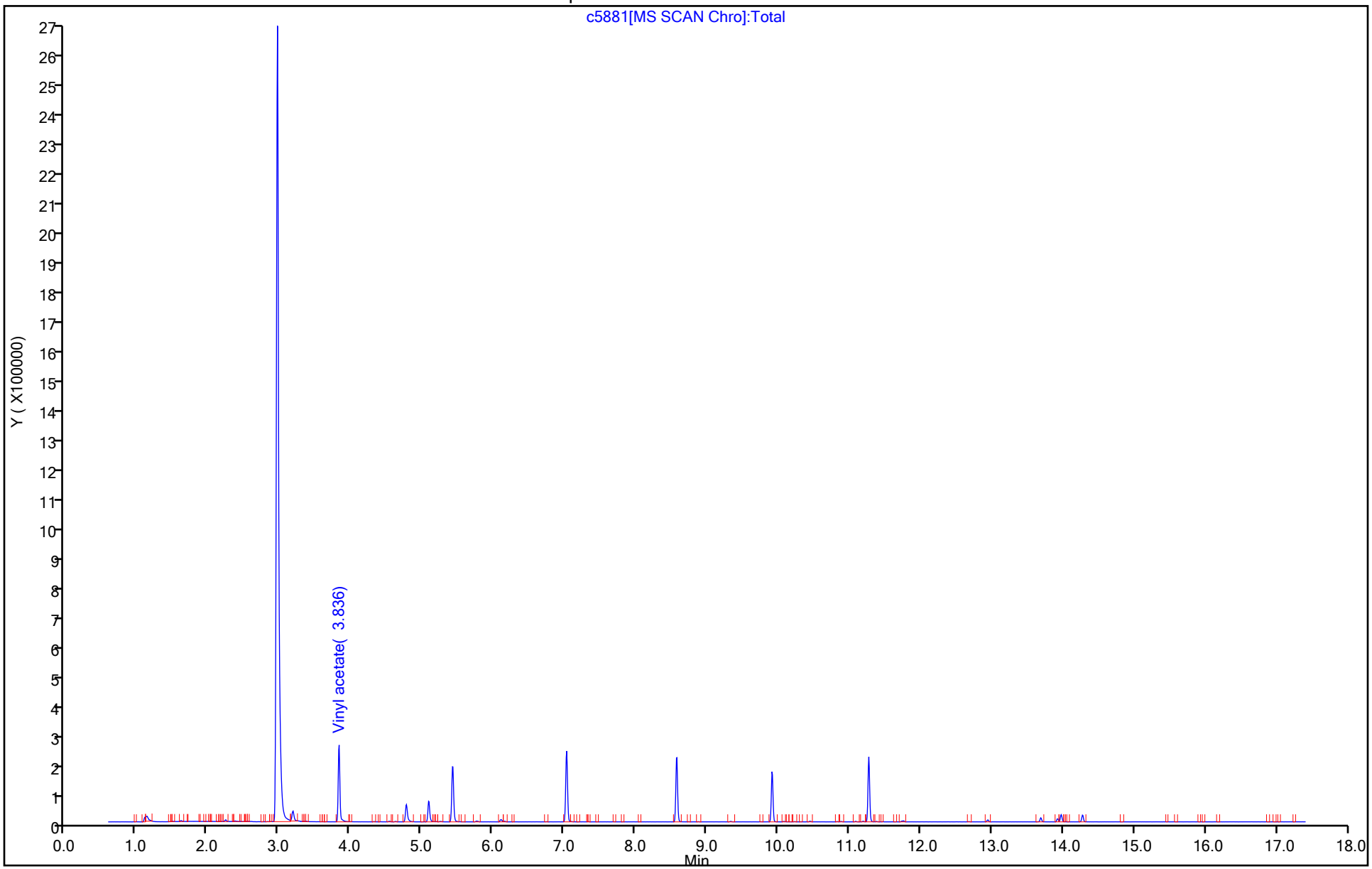
VV_I_VA ICV U_00013 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-Oct-2020 18:29:26 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D

Injection Date:	13-Oct-2020 14:44:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

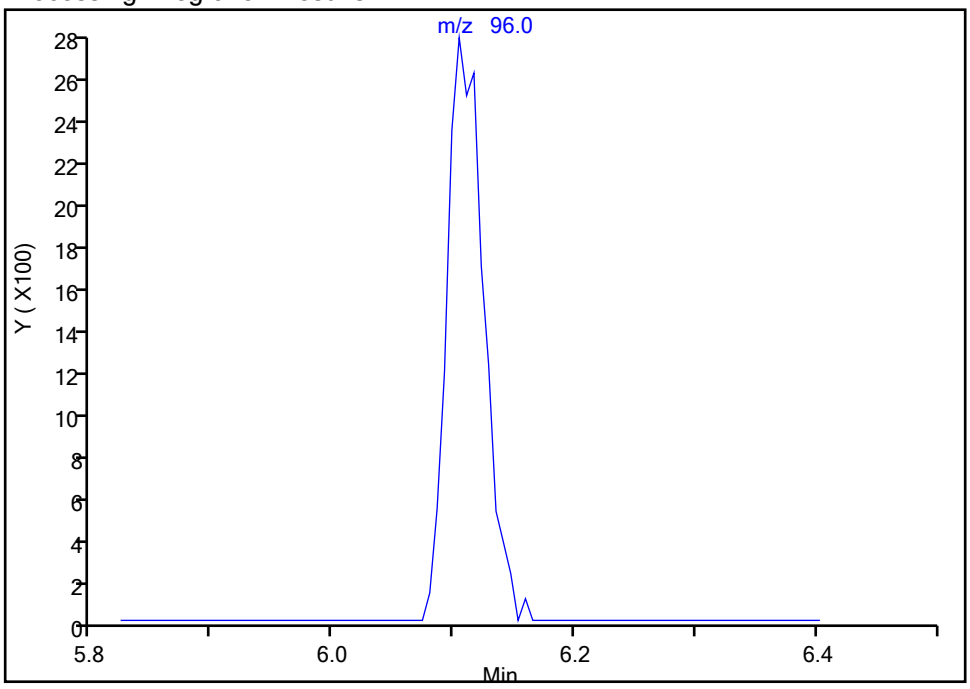
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5881.D
Injection Date: 13-Oct-2020 14:44:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

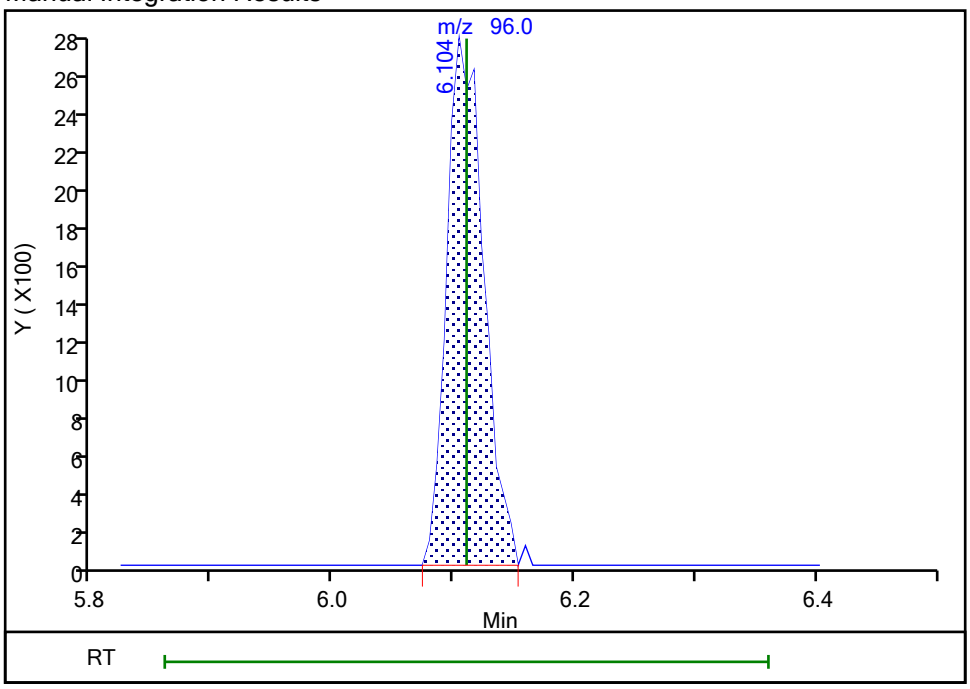
Not Detected
Expected RT: 6.11

Processing Integration Results



RT: 6.10
Area: 5747
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 13-Oct-2020 18:10:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/47 Calibration Date: 10/14/2020 07:09

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c5909.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acrolein	Ave	0.0643	0.0942		579	395	46.5*	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Lims ID: icv acrolien
Client ID:
Sample Type: ICV
Inject. Date: 14-Oct-2020 07:09:30 ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:43:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	180006	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6103	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	135882	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	63774	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	39967	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	174755	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	51696	50.0	49.5	
19 Acrolein	56	2.556	2.556	0.000	99	134035	395.1	579.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

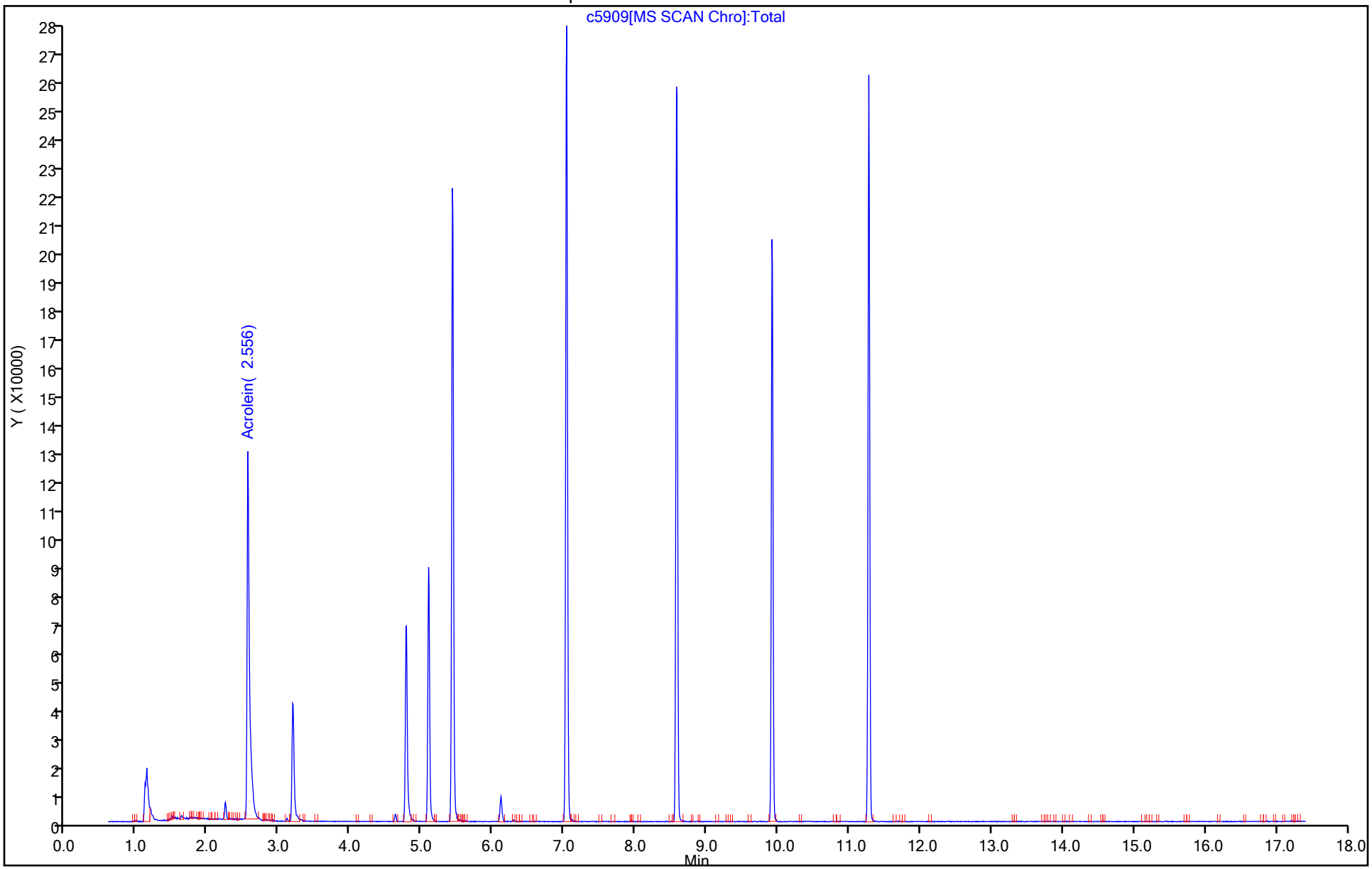
Reagents:

VV_I_ACRO ICV_00031 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D				
Injection Date:	14-Oct-2020 07:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv acrolien			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

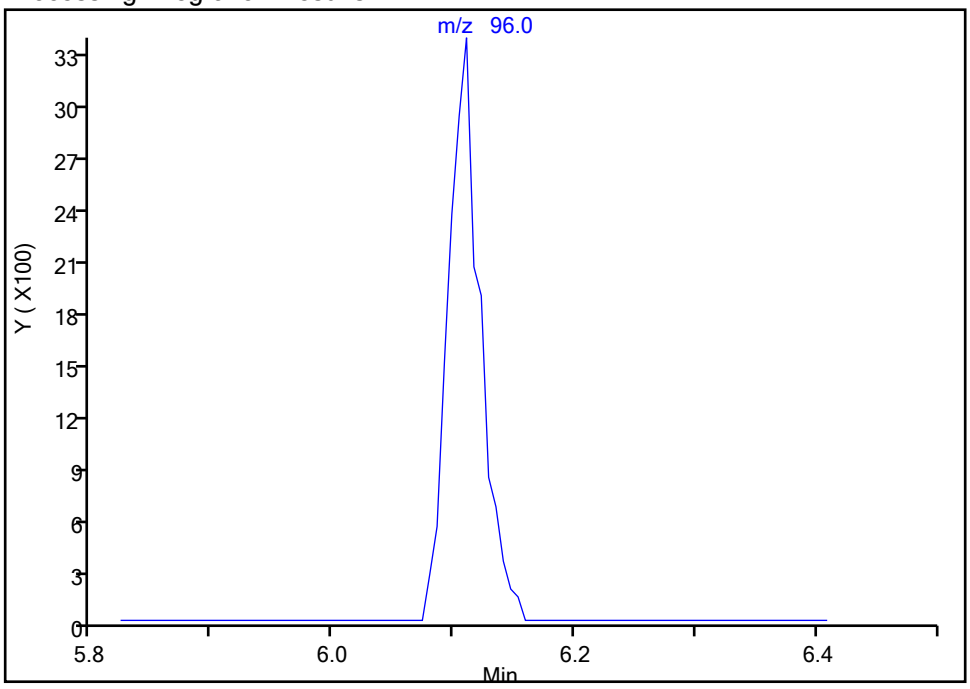
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Injection Date: 14-Oct-2020 07:09:30 Instrument ID: Calvin
Lims ID: icv acrolien
Client ID:
Operator ID: sjn ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

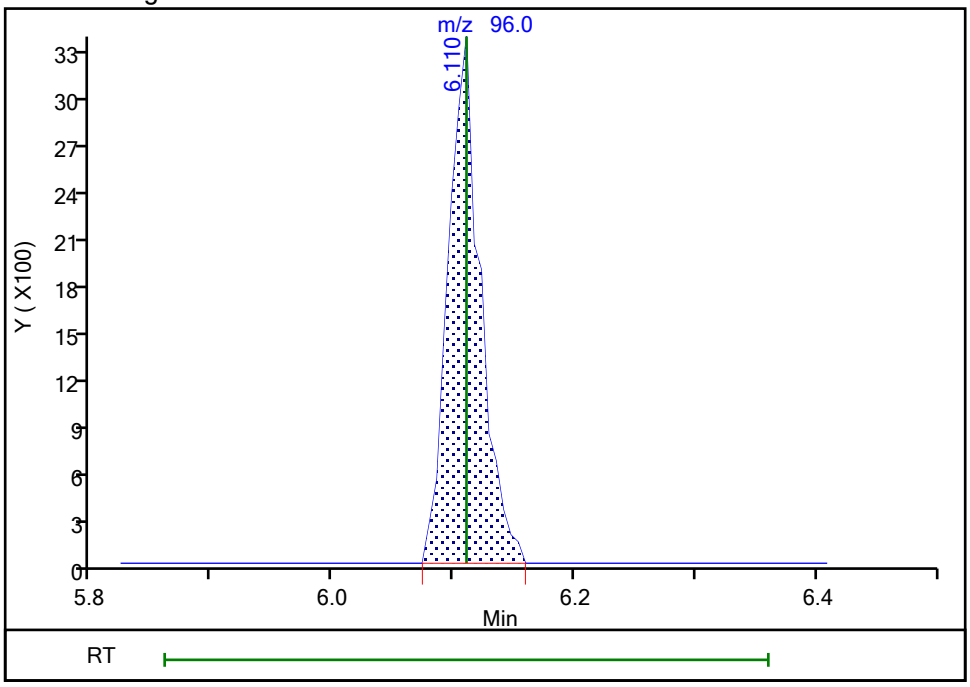
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6103
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:43:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/47 Calibration Date: 10/14/2020 07:09

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c5909.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2220		49.5	50.0	-0.9	30.0
Toluene-d8 (Surr)	Ave	1.282	1.286		50.2	50.0	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.8106		49.5	50.0	-0.9	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Lims ID: icv acrolien
Client ID:
Sample Type: ICV
Inject. Date: 14-Oct-2020 07:09:30 ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 14-Oct-2020 07:43:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	180006	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.110	0.000	96	6103	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	135882	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	97	63774	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	39967	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	174755	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	86	51696	50.0	49.5	
19 Acrolein	56	2.556	2.556	0.000	99	134035	395.1	579.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

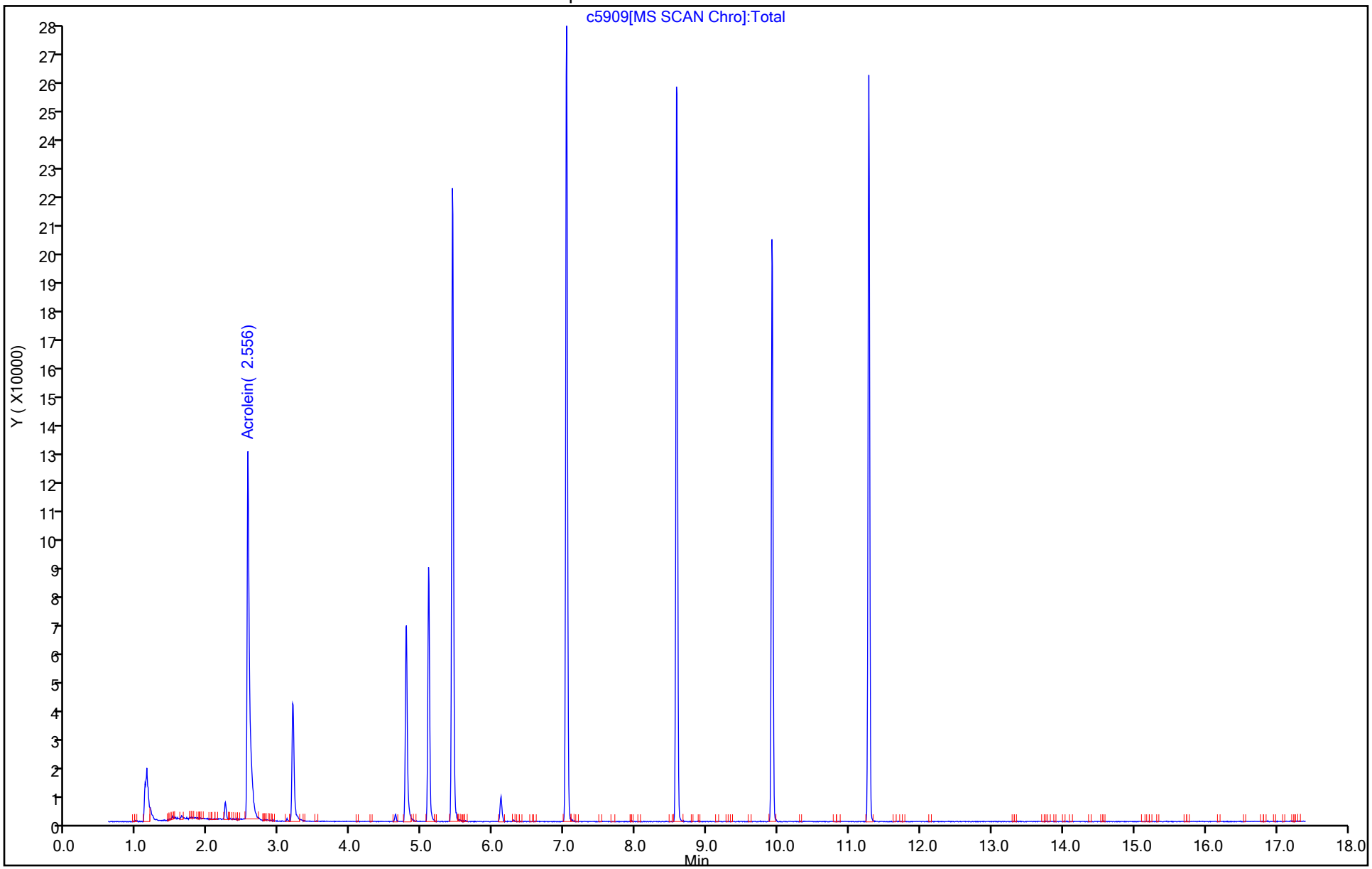
Reagents:

VV_I_ACRO ICV_00031 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D				
Injection Date:	14-Oct-2020 07:09:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv acrolien			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

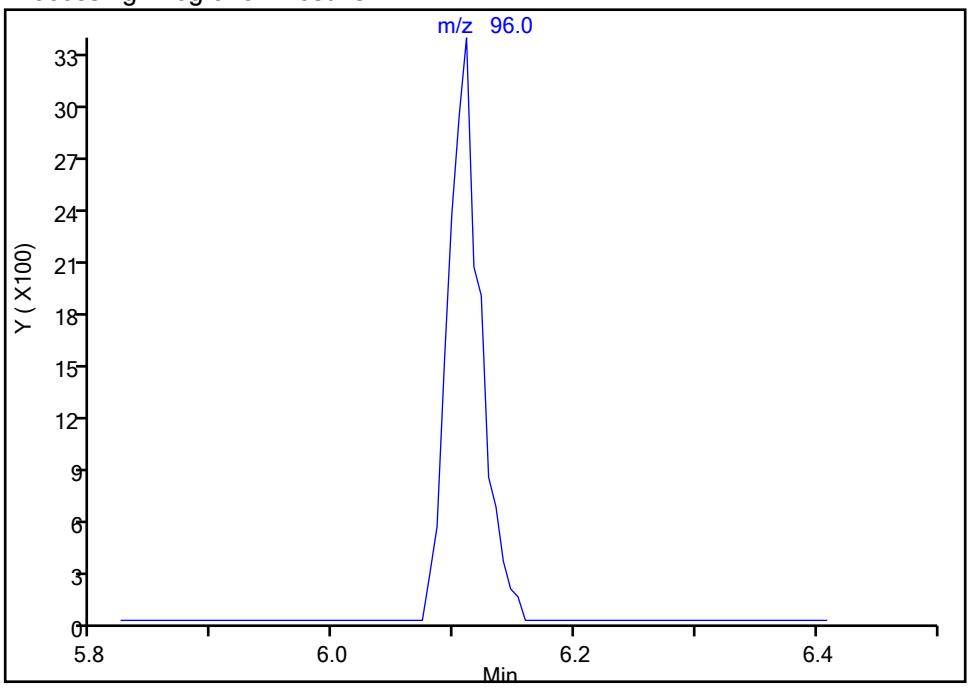
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5909.D
Injection Date: 14-Oct-2020 07:09:30 Instrument ID: Calvin
Lims ID: icv acrolien
Client ID:
Operator ID: sjn ALS Bottle#: 49 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

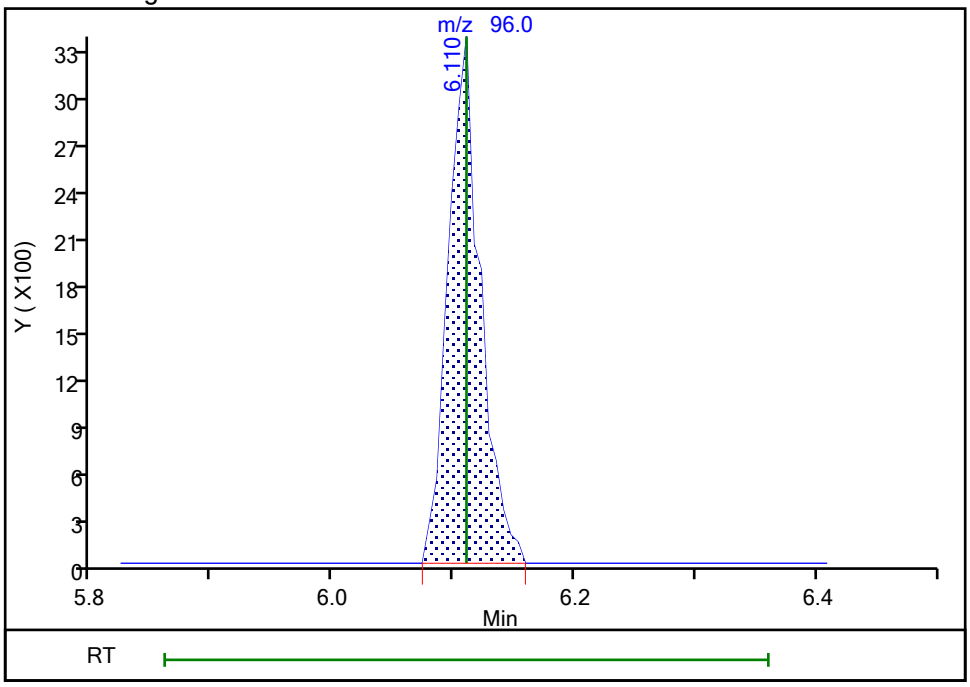
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 6103
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 14-Oct-2020 07:43:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: ICV 310-295162/38 Calibration Date: 10/14/2020 11:22

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c5919.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.023	0.9184	0.1000	44.9	50.0	-10.2	30.0
Chloromethane	Ave	0.7536	0.7799	0.1000	51.7	50.0	3.5	30.0
Vinyl chloride	Ave	0.9214	0.9944	0.1000	54.0	50.0	7.9	30.0
1,3-Butadiene	Ave	0.9321	0.9183		49.3	50.0	-1.5	30.0
Bromomethane	Lin2		0.4054	0.1000	77.3	50.0	54.7*	30.0
Chloroethane	Ave	0.5330	0.5696	0.1000	53.4	50.0	6.9	30.0
Dichlorofluoromethane	Ave	1.275	1.376		53.9	50.0	7.9	30.0
Trichlorofluoromethane	Ave	1.218	1.270	0.1000	52.1	50.0	4.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2241	0.2244		50.1	50.0	0.1	30.0
Toluene-d8 (Surr)	Ave	1.282	1.278		49.9	50.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.8109		49.6	50.0	-0.9	30.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5919.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 14-Oct-2020 11:22:30 ALS Bottle#: 59 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist:

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:36 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: nelsonsa Date: 15-Oct-2020 01:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.433	5.427	0.006	99	164096	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.110	-0.006	96	5353	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.579	8.579	0.000	89	124141	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	58588	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.775	0.006	92	36816	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	95	158698	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	89	47511	50.0	49.6	
9 Dichlorodifluoromethane	85	1.288	1.288	0.000	99	150703	50.0	44.9	
10 Chloromethane	50	1.526	1.526	0.000	98	127977	50.0	51.7	
11 Vinyl chloride	62	1.538	1.532	0.006	98	163172	50.0	54.0	
12 Butadiene	54	1.574	1.568	0.006	96	150688	50.0	49.3	
13 Bromomethane	94	1.830	1.837	-0.007	92	66531	50.0	77.3	E
14 Chloroethane	64	1.916	1.916	0.000	98	93474	50.0	53.4	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	225791	50.0	53.9	
16 Trichlorofluoromethane	101	2.172	2.166	0.006	98	208363	50.0	52.1	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
a - User Assigned ID

Reagents:

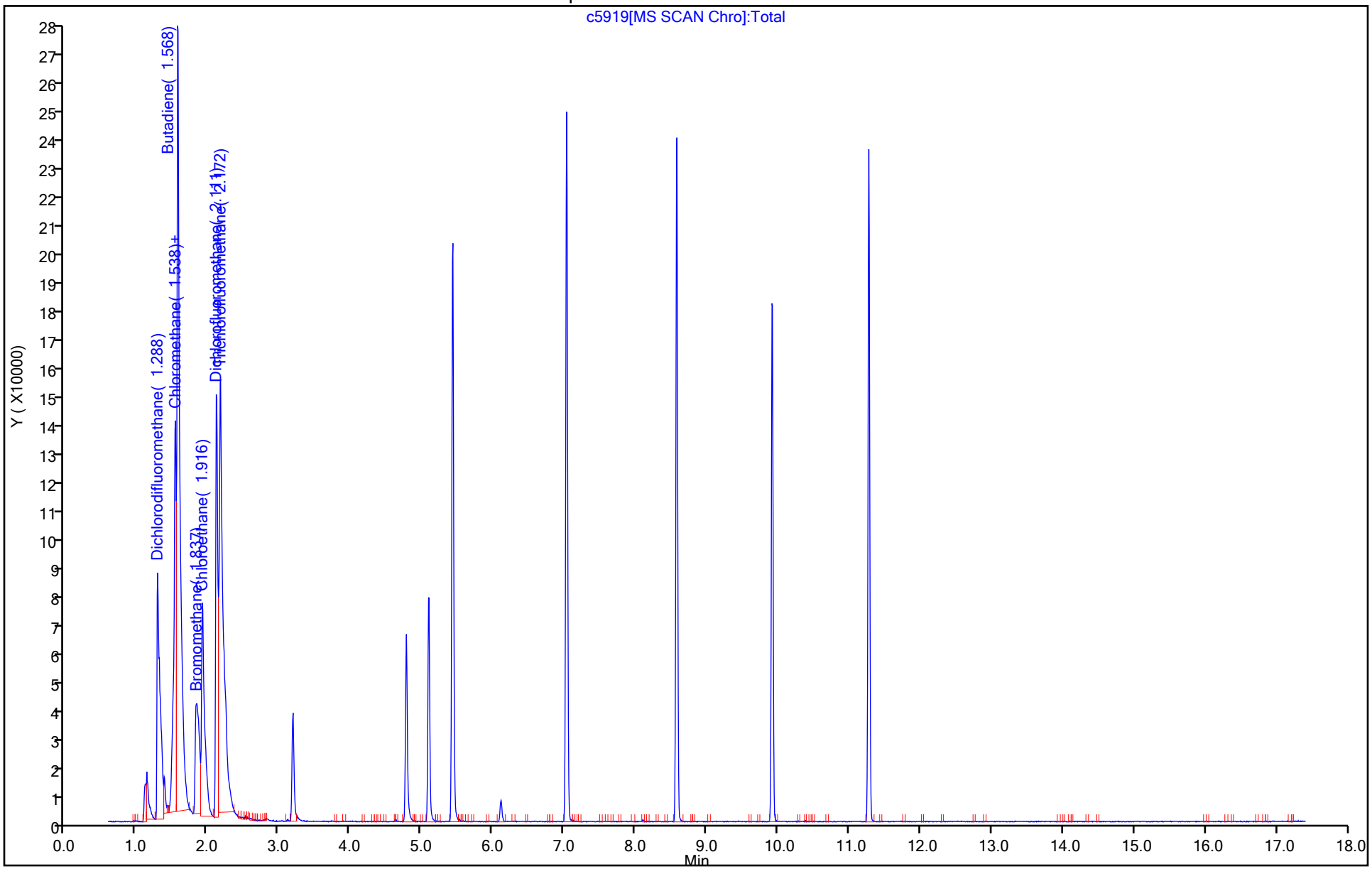
VV_I_ICVGAS_00275 Amount Added: 10.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2020 01:19:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5919.D

Injection Date:	14-Oct-2020 11:22:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	icv			Worklist Smp#:	38
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	59
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

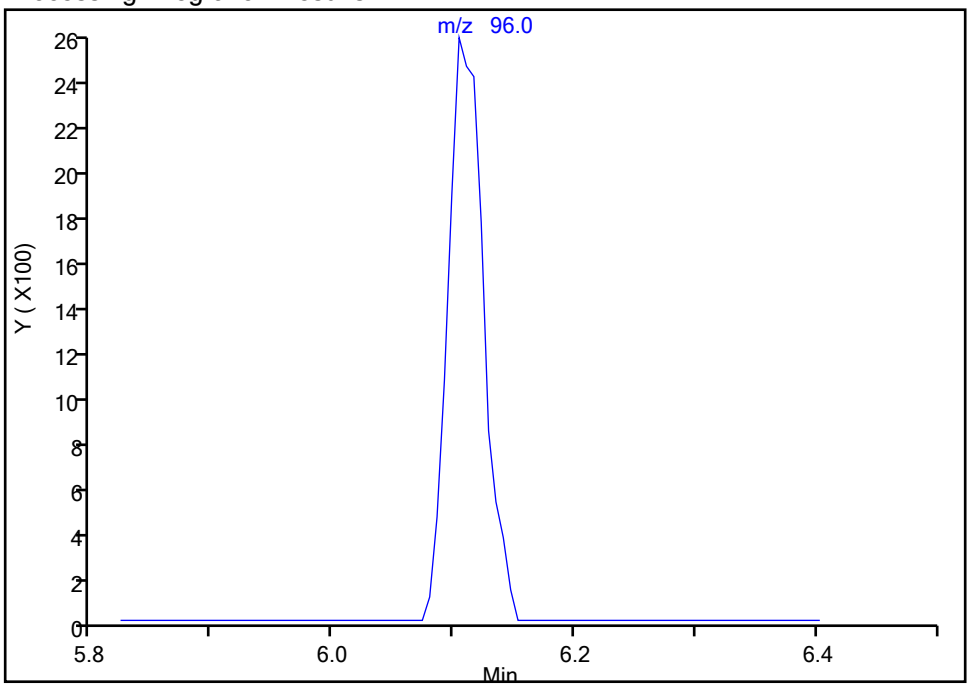
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5919.D
Injection Date: 14-Oct-2020 11:22:30 Instrument ID: Calvin
Lims ID: icv
Client ID:
Operator ID: sjn ALS Bottle#: 59 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

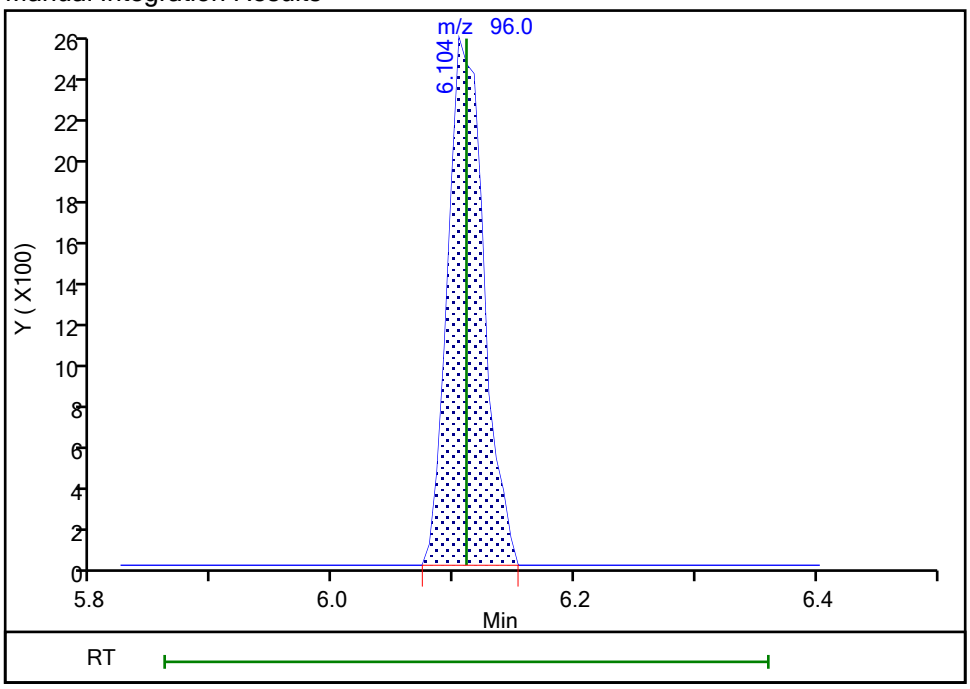
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.10
Area: 5353
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 15-Oct-2020 01:17:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: CCV 310-300750/4 Calibration Date: 12/01/2020 04:52

Instrument ID: Calvin Calib Start Date: 10/01/2020 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/01/2020 20:32

Lab File ID: c8877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.888	1.583		100	2000	-16.2	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Dec-2020 04:52:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:09 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:30:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.397	3.397	0.000	0	100	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	169982	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.122	6.122	0.000	29	6925	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	124767	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	50	57815	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	40771	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	166866	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	85	45908	50.0	48.5	
$ 8 BFB	95	9.920	9.920	0.000	81	61914	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	100	49976	4000.0	3380.8	
18 Ethyl ether	59	2.477	2.477	0.000	95	121106	100.0	84.3	
19 Acrolein	56	2.562	2.562	0.000	97	104544	476.4	478.2	
20 1,1-Dichloroethene	96	2.666	2.666	0.000	95	153378	100.0	87.7	
21 112TCTFE	101	2.696	2.696	0.000	97	192694	100.0	111.0	
22 Acetone	43	2.714	2.714	0.000	98	82312	200.0	187.8	
23 Iodomethane	142	2.775	2.775	0.000	98	157547	100.0	98.5	
24 Carbon disulfide	76	2.842	2.842	0.000	100	474012	100.0	91.6	
105 Isopropyl alcohol	45	2.885	2.885	0.000	96	63326	1000.0	790.6	M
118 Acetonitrile	40	2.964	2.964	0.000	99	128783	1000.0	784.4	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	81	98241	100.0	87.0	
26 Methyl acetate	43	3.037	3.037	0.000	99	194827	200.0	162.3	
27 Methylene Chloride	84	3.111	3.111	0.000	98	164241	100.0	79.3	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	94	98021	1000.0	864.7	M
30 Acrylonitrile	53	3.348	3.348	0.000	99	538947	1000.0	877.9	
28 trans-1,2-Dichloroethene	96	3.397	3.397	0.000	93	178221	100.0	89.4	
29 Methyl tert-butyl ether	73	3.409	3.409	0.000	99	412147	100.0	89.1	
31 Hexane	57	3.708	3.708	0.000	95	299979	100.0	110.9	
32 1,1-Dichloroethane	63	3.787	3.787	0.000	97	347284	100.0	92.8	
33 Vinyl acetate	86	3.854	3.854	0.000	97	64601	200.0	174.4	
34 2-Chloro-1,3-butadiene	53	3.885	3.885	0.000	96	387260	100.0	107.1	
36 Isopropyl ether	87	3.909	3.909	0.000	95	164780	100.0	90.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.245	4.245	0.000	98	528398	100.0	90.3	
39 cis-1,2-Dichloroethene	96	4.336	4.336	0.000	87	198844	100.0	87.1	
38 2,2-Dichloropropane	77	4.336	4.336	0.000	89	283443	100.0	96.0	
40 2-Butanone (MEK)	43	4.354	4.354	0.000	99	127333	200.0	178.8	
41 Propionitrile	54	4.397	4.397	0.000	99	210693	1000.0	863.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	44529	200.0	159.3	
43 Methacrylonitrile	67	4.549	4.549	0.000	94	662173	1000.0	914.4	
42 Chlorobromomethane	128	4.549	4.549	0.000	44	82690	100.0	86.7	
44 Tetrahydrofuran	71	4.604	4.604	0.000	91	28273	200.0	166.9	
45 Chloroform	83	4.647	4.647	0.000	98	350966	100.0	89.7	
46 1,1,1-Trichloroethane	97	4.811	4.811	0.000	97	325294	100.0	101.4	
47 Cyclohexane	56	4.872	4.872	0.000	95	398858	100.0	104.3	
48 Carbon tetrachloride	117	4.976	4.976	0.000	95	276984	100.0	99.8	
49 1,1-Dichloropropene	75	4.982	4.982	0.000	92	287979	100.0	95.9	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	119521	2500.0	1974.0	
50 Benzene	78	5.177	5.177	0.000	98	790498	100.0	90.0	
51 1,2-Dichloroethane	62	5.183	5.183	0.000	96	290799	100.0	104.6	
116 n-Butanol	56	5.299	5.299	0.000	59	231380	2500.0	2710.0	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	445459	100.0	84.5	
53 n-Heptane	43	5.476	5.476	0.000	94	293982	100.0	107.7	
54 Trichloroethene	95	5.805	5.811	-0.006	96	213907	100.0	95.3	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	211192	100.0	99.5	
114 Methylcyclohexane	83	6.012	6.012	0.000	96	350090	100.0	95.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	89	207424	100.0	96.7	
56 Dibromomethane	93	6.128	6.128	0.000	93	106951	100.0	93.8	
115 1,4-Dioxane	58	6.159	6.159	0.000	32	21920	2000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	229245	200.0	187.8	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	265143	100.0	102.4	
106 2-Nitropropane	43	6.525	6.525	0.000	100	87334	200.0	232.1	E
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	116741	100.0	98.1	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	90	312716	100.0	100.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.933	0.000	99	321248	200.0	196.0	
62 Toluene	92	7.116	7.116	0.000	97	527328	100.0	88.3	
63 trans-1,3-Dichloropropene	75	7.341	7.341	0.000	99	283081	100.0	93.5	
64 Ethyl methacrylate	69	7.463	7.463	0.000	90	218443	100.0	93.6	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	136182	100.0	95.5	
66 Tetrachloroethene	166	7.689	7.689	0.000	91	212214	100.0	86.3	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	96	288500	100.0	94.4	
68 2-Hexanone	43	7.817	7.817	0.000	99	211000	200.0	197.0	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	180354	100.0	94.8	
109 n-Butyl acetate	43	7.975	7.975	0.000	98	270034	100.0	96.2	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	157197	100.0	89.4	
71 Chlorobenzene	112	8.616	8.616	0.000	89	567128	100.0	90.7	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	93	193403	100.0	95.6	
73 Ethylbenzene	91	8.750	8.750	0.000	99	1061951	100.0	97.0	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	394960	100.0	92.6	
75 o-Xylene	106	9.329	9.329	0.000	98	378118	100.0	93.2	
76 Styrene	104	9.347	9.347	0.000	94	612894	100.0	91.2	
77 Bromoform	173	9.530	9.530	0.000	93	94850	100.0	87.1	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	1034086	100.0	98.0	
79 Bromobenzene	156	10.085	10.085	0.000	99	219866	100.0	85.9	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	185514	100.0	94.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	58319	100.0	88.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	84	58916	100.0	107.8	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	1219276	100.0	100.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	687708	100.0	96.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	817283	100.0	97.5	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	808267	100.0	96.0	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	689881	100.0	94.5	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	794095	100.0	91.6	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	1021618	100.0	98.4	
90 1,3-Dichlorobenzene	146	11.200	11.200	0.000	96	404475	100.0	88.7	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	840049	100.0	97.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	406911	100.0	88.6	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	100	767887	100.0	93.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	62974	100.0	84.6	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	382602	100.0	88.6	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	754559	100.0	99.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	74	27453	100.0	99.8	
96 1,2,4-Trichlorobenzene	180	12.944	12.944	0.000	93	211093	100.0	80.0	M
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	153593	100.0	69.7	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	93644	100.0	87.3	
98 Naphthalene	128	13.974	13.974	0.000	97	297710	100.0	61.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	107555	100.0	61.1	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		200.0	176.5	
S 100 Xylenes, Total	1				0		200.0	185.8	
S 102 1,3-Dichloropropene, Total	1				0		200.0	194.3	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated

Reagents:

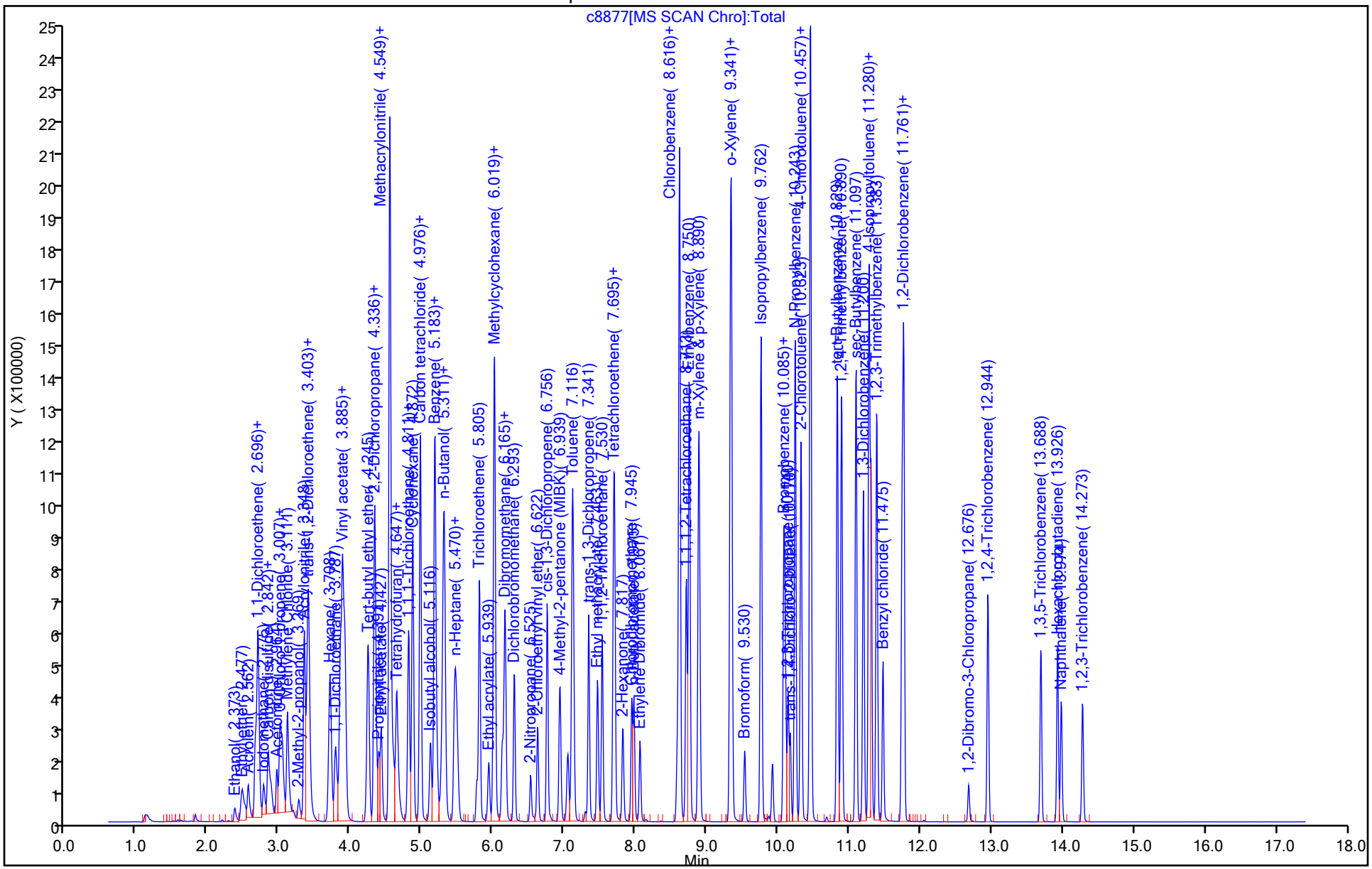
VV_M_TUN_00010	Amount Added: 1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added: 20.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 08:01:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D

Injection Date:	01-Dec-2020 04:52:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: CCV 310-300750/4 Calibration Date: 12/01/2020 04:52

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0043	0.0037		3380	4000	-15.5	50.0
Diethyl ether	Ave	0.4227	0.3562		84.3	100	-15.7	20.0
Acrolein	Ave	0.0643	0.0645		478	476	0.4	50.0
1,1-Dichloroethene	Ave	0.5143	0.4512	0.1000	87.7	100	-12.3	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.5105	0.5668	0.1000	111	100	11.0	20.0
Acetone	Lin1		0.1211	0.0500	188	200	-6.1	50.0
Iodomethane	Ave	0.4705	0.4634		98.5	100	-1.5	50.0
Carbon disulfide	Ave	1.523	1.394	0.1000	91.6	100	-8.4	20.0
Isopropyl alcohol	Ave	0.0236	0.0186		791	1000	-20.9*	20.0
Acetonitrile	Ave	0.0483	0.0379		784	1000	-21.6*	20.0
Allyl chloride	Ave	0.3323	0.2890		87.0	100	-13.0	50.0
Methyl acetate	Ave	0.3531	0.2865	0.1000	162	200	-18.9	20.0
Methylene Chloride	Ave	0.6089	0.4831	0.1000	79.3	100	-20.7	50.0
tert-Butanol	Ave	0.0333	0.0288		865	1000	-13.5	20.0
Acrylonitrile	Ave	0.1806	0.1585		878	1000	-12.2	50.0
trans-1,2-Dichloroethene	Ave	0.5867	0.5242	0.1000	89.4	100	-10.6	20.0
Methyl tert-butyl ether	Ave	1.361	1.212	0.1000	89.1	100	-10.9	20.0
Hexane	Ave	0.7956	0.8824		111	100	10.9	50.0
1,1-Dichloroethane	Ave	1.100	1.022	0.2000	92.8	100	-7.2	20.0
Vinyl acetate	Ave	0.1090	0.0950		174	200	-12.8	50.0
Chloroprene	Ave	1.064	1.139		107	100	7.1	20.0
Di-isopropyl ether (DIPE)	Ave	0.5358	0.4847		90.5	100	-9.5	20.0
tert-Butyl ethyl ether	Ave	1.720	1.554		90.3	100	-9.7	20.0
2,2-Dichloropropane	Ave	0.8681	0.8337		96.0	100	-4.0	50.0
cis-1,2-Dichloroethene	Ave	0.6713	0.5849	0.1000	87.1	100	-12.9	20.0
2-Butanone (MEK)	Ave	0.2094	0.1873	0.0500	179	200	-10.6	50.0
Propionitrile	Ave	0.0718	0.0620		863	1000	-13.7	20.0
Ethyl acetate	Ave	0.0822	0.0655		159	200	-20.3*	20.0
Bromochloromethane	Ave	0.2805	0.2432		86.7	100	-13.3	20.0
Methacrylonitrile	Ave	0.2130	0.1948		914	1000	-8.6	20.0
Tetrahydrofuran	Ave	0.0498	0.0416		167	200	-16.6	20.0
Chloroform	Ave	1.151	1.032	0.2000	89.7	100	-10.3	20.0
1,1,1-Trichloroethane	Ave	0.9433	0.9568	0.1000	101	100	1.4	20.0
Cyclohexane	Ave	1.125	1.173	0.1000	104	100	4.3	20.0
Carbon tetrachloride	Ave	0.8162	0.8147	0.1000	99.8	100	-0.2	20.0
1,1-Dichloropropene	Ave	0.8831	0.8471		95.9	100	-4.1	20.0
Isobutyl alcohol	Ave	0.0178	0.0141		1970	2500	-21.0*	20.0
Benzene	Ave	2.584	2.325	0.5000	90.0	100	-10.0	20.0
1,2-Dichloroethane	Ave	0.8176	0.8554	0.1000	105	100	4.6	20.0
n-Butanol	Ave	0.0251	0.0272		2710	2500	8.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: CCV 310-300750/4 Calibration Date: 12/01/2020 04:52

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
tert-Amyl methyl ether	Ave	1.551	1.310		84.5	100	-15.5	20.0
Heptane	Ave	0.8031	0.8647		108	100	7.7	20.0
Trichloroethene	Ave	0.6604	0.6292	0.2000	95.3	100	-4.7	20.0
Ethyl acrylate	Ave	0.6242	0.6212		99.5	100	-0.5	20.0
Methylcyclohexane	Ave	1.084	1.030	0.1000	95.0	100	-5.0	20.0
1,2-Dichloropropane	Ave	0.6310	0.6101	0.1000	96.7	100	-3.3	20.0
Dibromomethane	Ave	0.3352	0.3146		93.8	100	-6.2	20.0
Methyl methacrylate	Ave	0.3591	0.3372		188	200	-6.1	20.0
Dichlorobromomethane	Ave	0.7620	0.7799	0.2000	102	100	2.4	20.0
2-Nitropropane	Ave	0.1107	0.1284		232	200	16.0	20.0
2-Chloroethyl vinyl ether	Ave	0.3500	0.3434		98.1	100	-1.9	50.0
cis-1,3-Dichloropropene	Ave	0.9124	0.9199	0.2000	101	100	0.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4822	0.4725	0.1000	196	200	-2.0	20.0
Toluene	Ave	1.757	1.551	0.4000	88.3	100	-11.7	20.0
trans-1,3-Dichloropropene	Lin1		0.8327	0.1000	93.5	100	-6.5	20.0
Ethyl methacrylate	Ave	0.6863	0.6425		93.6	100	-6.4	20.0
1,1,2-Trichloroethane	Ave	0.4195	0.4006	0.1000	95.5	100	-4.5	20.0
Tetrachloroethene	Ave	0.7237	0.6242	0.2000	86.3	100	-13.7	20.0
1,3-Dichloropropane	Ave	0.8991	0.8486		94.4	100	-5.6	20.0
2-Hexanone	Ave	0.3151	0.3103	0.1000	197	200	-1.5	20.0
Chlorodibromomethane	Ave	0.5599	0.5305	0.1000	94.8	100	-5.2	20.0
n-Butyl acetate	Ave	0.8257	0.7943		96.2	100	-3.8	20.0
1,2-Dibromoethane (EDB)	Ave	0.5172	0.4624	0.1000	89.4	100	-10.6	20.0
Chlorobenzene	Ave	2.507	2.273	0.5000	90.7	100	-9.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8107	0.7751		95.6	100	-4.4	20.0
Ethylbenzene	Ave	4.388	4.256	0.1000	97.0	100	-3.0	20.0
m,p-Xylene	Ave	1.708	1.583	0.1000	92.6	100	-7.4	20.0
o-Xylene	Ave	1.626	1.515	0.3000	93.2	100	-6.8	20.0
Styrene	Ave	2.693	2.456	0.3000	91.2	100	-8.8	20.0
Bromoform	Ave	0.4364	0.3801	0.1000	87.1	100	-12.9	20.0
Isopropylbenzene	Ave	4.230	4.144	0.1000	98.0	100	-2.0	20.0
Bromobenzene	Ave	1.026	0.8811		85.9	100	-14.1	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.7434	0.2000	94.1	100	-5.9	20.0
1,2,3-Trichloropropane	Ave	0.2632	0.2337		88.8	100	-11.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2190	0.2361		108	100	7.8	50.0
n-Propylbenzene	Ave	4.874	4.886		100	100	0.3	20.0
2-Chlorotoluene	Ave	2.855	2.756		96.5	100	-3.5	20.0
4-Chlorotoluene	Ave	3.359	3.275		97.5	100	-2.5	20.0
1,3,5-Trimethylbenzene	Ave	3.375	3.239		96.0	100	-4.0	20.0
tert-Butylbenzene	Ave	2.925	2.765		94.5	100	-5.5	20.0
1,2,4-Trimethylbenzene	Ave	3.476	3.182		91.6	100	-8.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: CCV 310-300750/4 Calibration Date: 12/01/2020 04:52

Instrument ID: Calvin Calib Start Date: 10/13/2020 08:16

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/13/2020 12:43

Lab File ID: c8877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
sec-Butylbenzene	Ave	4.160	4.094		98.4	100	-1.6	20.0
1,3-Dichlorobenzene	Ave	1.828	1.621	0.6000	88.7	100	-11.3	20.0
p-Isopropyltoluene	Ave	7.443	7.265		97.6	100	-2.4	20.0
1,4-Dichlorobenzene	Ave	3.970	3.519	0.5000	88.6	100	-11.4	20.0
1,2,3-Trimethylbenzene	Ave	7.081	6.641		93.8	100	-6.2	20.0
Benzyl chloride	Ave	0.6441	0.5446		84.6	100	-15.4	20.0
1,2-Dichlorobenzene	Ave	3.736	3.309	0.4000	88.6	100	-11.4	20.0
n-Butylbenzene	Ave	6.554	6.526		99.6	100	-0.4	20.0
1,2-Dibromo-3-chloropropane	Ave	0.2379	0.2374	0.0500	99.8	100	-0.2	50.0
1,2,4-Trichlorobenzene	Ave	2.282	1.826	0.2000	80.0	100	-20.0	20.0
1,3,5-Trichlorobenzene	Ave	1.906	1.328		69.7	100	-30.3*	20.0
Hexachlorobutadiene	Ave	0.9282	0.8099		87.3	100	-12.7	50.0
Naphthalene	Ave	4.156	2.575		61.9	100	-38.1	50.0
1,2,3-Trichlorobenzene	Ave	1.521	0.9302		61.1	100	-38.9	50.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Dec-2020 04:52:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:09 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:30:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.397	3.397	0.000	0	100	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	169982	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.122	6.122	0.000	29	6925	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	124767	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	50	57815	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	40771	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	166866	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	85	45908	50.0	48.5	
$ 8 BFB	95	9.920	9.920	0.000	81	61914	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	100	49976	4000.0	3380.8	
18 Ethyl ether	59	2.477	2.477	0.000	95	121106	100.0	84.3	
19 Acrolein	56	2.562	2.562	0.000	97	104544	476.4	478.2	
20 1,1-Dichloroethene	96	2.666	2.666	0.000	95	153378	100.0	87.7	
21 112TCTFE	101	2.696	2.696	0.000	97	192694	100.0	111.0	
22 Acetone	43	2.714	2.714	0.000	98	82312	200.0	187.8	
23 Iodomethane	142	2.775	2.775	0.000	98	157547	100.0	98.5	
24 Carbon disulfide	76	2.842	2.842	0.000	100	474012	100.0	91.6	
105 Isopropyl alcohol	45	2.885	2.885	0.000	96	63326	1000.0	790.6	M
118 Acetonitrile	40	2.964	2.964	0.000	99	128783	1000.0	784.4	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	81	98241	100.0	87.0	
26 Methyl acetate	43	3.037	3.037	0.000	99	194827	200.0	162.3	
27 Methylene Chloride	84	3.111	3.111	0.000	98	164241	100.0	79.3	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	94	98021	1000.0	864.7	M
30 Acrylonitrile	53	3.348	3.348	0.000	99	538947	1000.0	877.9	
28 trans-1,2-Dichloroethene	96	3.397	3.397	0.000	93	178221	100.0	89.4	
29 Methyl tert-butyl ether	73	3.409	3.409	0.000	99	412147	100.0	89.1	
31 Hexane	57	3.708	3.708	0.000	95	299979	100.0	110.9	
32 1,1-Dichloroethane	63	3.787	3.787	0.000	97	347284	100.0	92.8	
33 Vinyl acetate	86	3.854	3.854	0.000	97	64601	200.0	174.4	
34 2-Chloro-1,3-butadiene	53	3.885	3.885	0.000	96	387260	100.0	107.1	
36 Isopropyl ether	87	3.909	3.909	0.000	95	164780	100.0	90.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.245	4.245	0.000	98	528398	100.0	90.3	
39 cis-1,2-Dichloroethene	96	4.336	4.336	0.000	87	198844	100.0	87.1	
38 2,2-Dichloropropane	77	4.336	4.336	0.000	89	283443	100.0	96.0	
40 2-Butanone (MEK)	43	4.354	4.354	0.000	99	127333	200.0	178.8	
41 Propionitrile	54	4.397	4.397	0.000	99	210693	1000.0	863.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	44529	200.0	159.3	
43 Methacrylonitrile	67	4.549	4.549	0.000	94	662173	1000.0	914.4	
42 Chlorobromomethane	128	4.549	4.549	0.000	44	82690	100.0	86.7	
44 Tetrahydrofuran	71	4.604	4.604	0.000	91	28273	200.0	166.9	
45 Chloroform	83	4.647	4.647	0.000	98	350966	100.0	89.7	
46 1,1,1-Trichloroethane	97	4.811	4.811	0.000	97	325294	100.0	101.4	
47 Cyclohexane	56	4.872	4.872	0.000	95	398858	100.0	104.3	
48 Carbon tetrachloride	117	4.976	4.976	0.000	95	276984	100.0	99.8	
49 1,1-Dichloropropene	75	4.982	4.982	0.000	92	287979	100.0	95.9	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	119521	2500.0	1974.0	
50 Benzene	78	5.177	5.177	0.000	98	790498	100.0	90.0	
51 1,2-Dichloroethane	62	5.183	5.183	0.000	96	290799	100.0	104.6	
116 n-Butanol	56	5.299	5.299	0.000	59	231380	2500.0	2710.0	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	445459	100.0	84.5	
53 n-Heptane	43	5.476	5.476	0.000	94	293982	100.0	107.7	
54 Trichloroethene	95	5.805	5.811	-0.006	96	213907	100.0	95.3	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	211192	100.0	99.5	
114 Methylcyclohexane	83	6.012	6.012	0.000	96	350090	100.0	95.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	89	207424	100.0	96.7	
56 Dibromomethane	93	6.128	6.128	0.000	93	106951	100.0	93.8	
115 1,4-Dioxane	58	6.159	6.159	0.000	32	21920	2000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	229245	200.0	187.8	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	265143	100.0	102.4	
106 2-Nitropropane	43	6.525	6.525	0.000	100	87334	200.0	232.1	E
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	116741	100.0	98.1	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	90	312716	100.0	100.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.933	0.000	99	321248	200.0	196.0	
62 Toluene	92	7.116	7.116	0.000	97	527328	100.0	88.3	
63 trans-1,3-Dichloropropene	75	7.341	7.341	0.000	99	283081	100.0	93.5	
64 Ethyl methacrylate	69	7.463	7.463	0.000	90	218443	100.0	93.6	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	136182	100.0	95.5	
66 Tetrachloroethene	166	7.689	7.689	0.000	91	212214	100.0	86.3	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	96	288500	100.0	94.4	
68 2-Hexanone	43	7.817	7.817	0.000	99	211000	200.0	197.0	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	180354	100.0	94.8	
109 n-Butyl acetate	43	7.975	7.975	0.000	98	270034	100.0	96.2	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	157197	100.0	89.4	
71 Chlorobenzene	112	8.616	8.616	0.000	89	567128	100.0	90.7	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	93	193403	100.0	95.6	
73 Ethylbenzene	91	8.750	8.750	0.000	99	1061951	100.0	97.0	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	394960	100.0	92.6	
75 o-Xylene	106	9.329	9.329	0.000	98	378118	100.0	93.2	
76 Styrene	104	9.347	9.347	0.000	94	612894	100.0	91.2	
77 Bromoform	173	9.530	9.530	0.000	93	94850	100.0	87.1	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	1034086	100.0	98.0	
79 Bromobenzene	156	10.085	10.085	0.000	99	219866	100.0	85.9	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	185514	100.0	94.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	58319	100.0	88.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	84	58916	100.0	107.8	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	1219276	100.0	100.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	687708	100.0	96.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	817283	100.0	97.5	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	808267	100.0	96.0	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	689881	100.0	94.5	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	794095	100.0	91.6	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	1021618	100.0	98.4	
90 1,3-Dichlorobenzene	146	11.200	11.200	0.000	96	404475	100.0	88.7	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	840049	100.0	97.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	406911	100.0	88.6	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	100	767887	100.0	93.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	62974	100.0	84.6	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	382602	100.0	88.6	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	754559	100.0	99.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	74	27453	100.0	99.8	
96 1,2,4-Trichlorobenzene	180	12.944	12.944	0.000	93	211093	100.0	80.0	M
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	153593	100.0	69.7	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	93644	100.0	87.3	
98 Naphthalene	128	13.974	13.974	0.000	97	297710	100.0	61.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	107555	100.0	61.1	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		200.0	176.5	
S 100 Xylenes, Total	1				0		200.0	185.8	
S 102 1,3-Dichloropropene, Total	1				0		200.0	194.3	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated

Reagents:

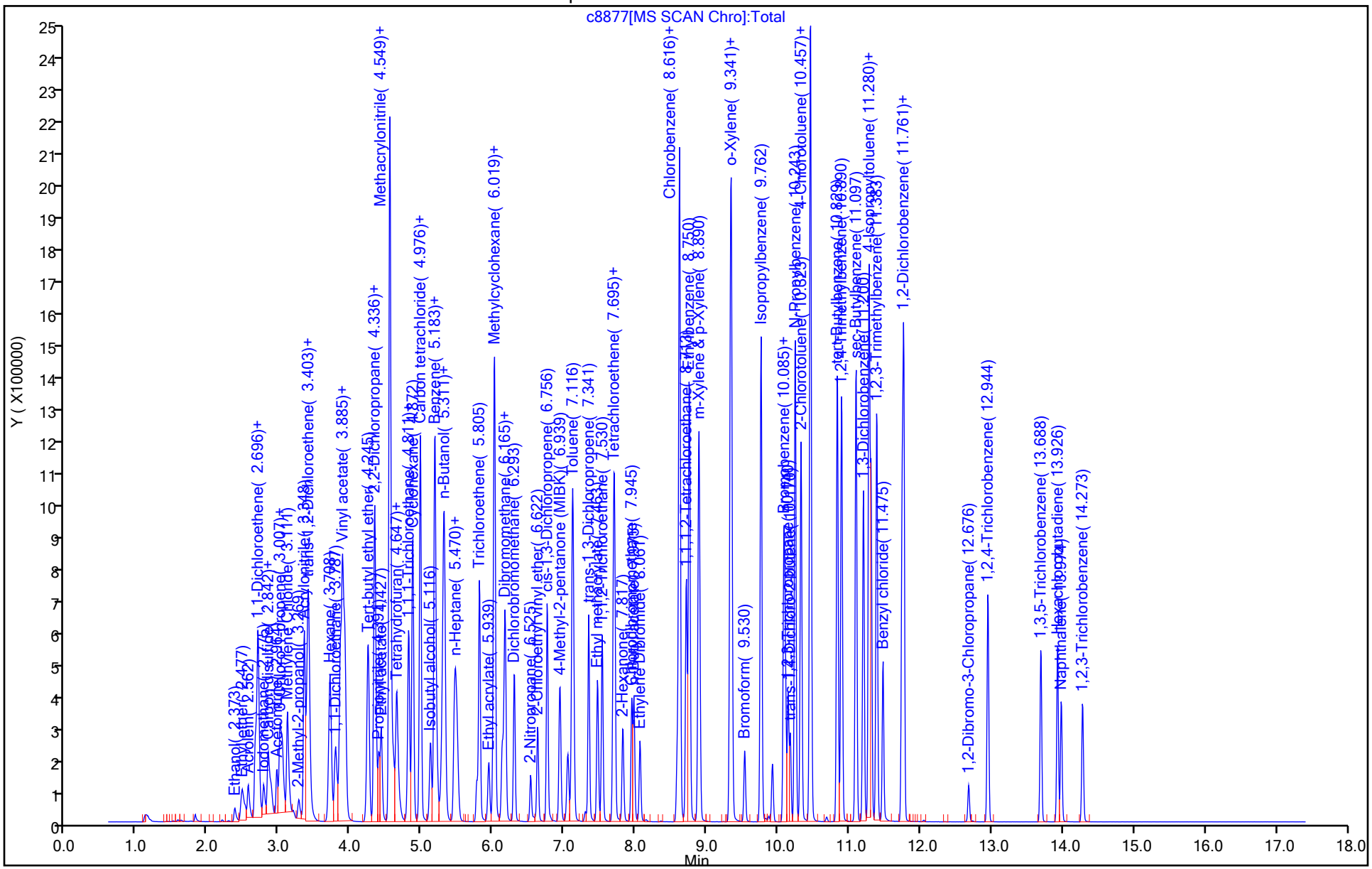
VV_M_TUN_00010	Amount Added: 1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added: 20.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 08:01:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D

Injection Date:	01-Dec-2020 04:52:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

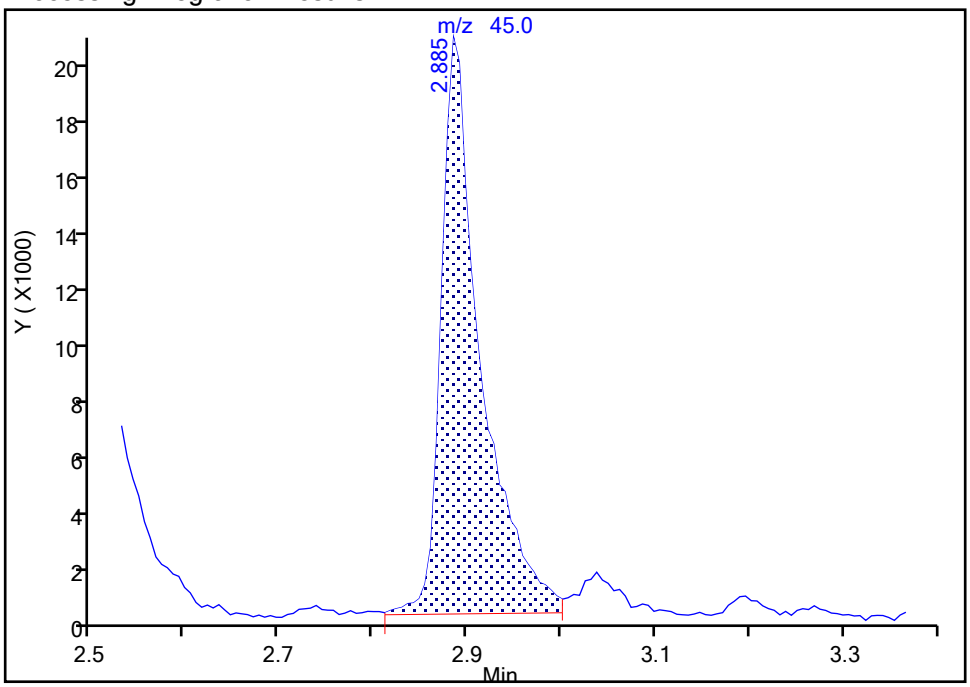
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Injection Date: 01-Dec-2020 04:52:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

105 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

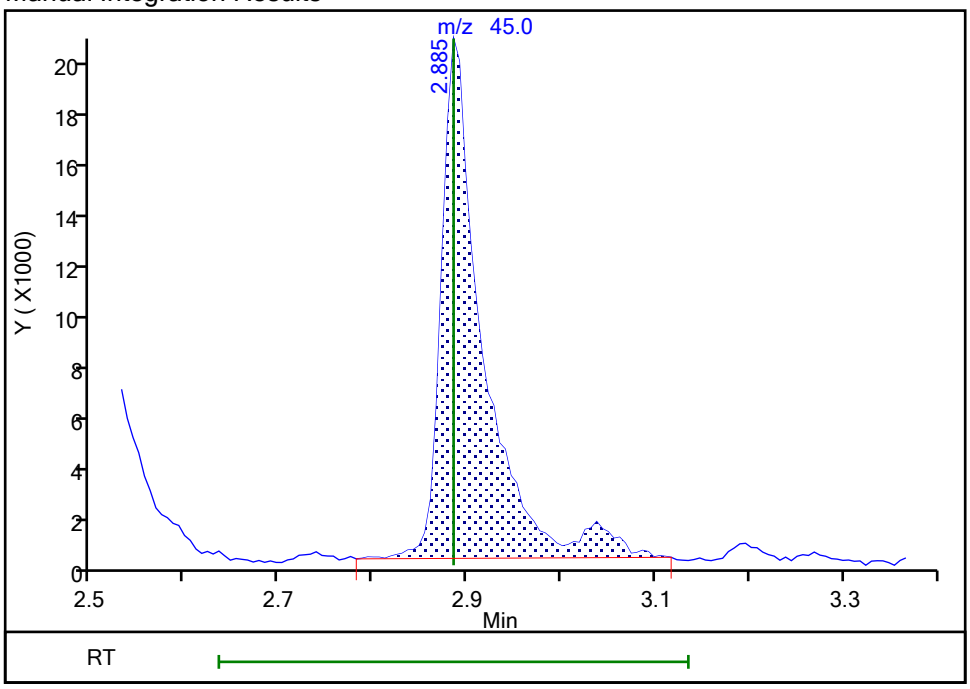
Processing Integration Results

RT: 2.89
Area: 59816
Amount: 746.7955
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 63326
Amount: 790.6174
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 05:21:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

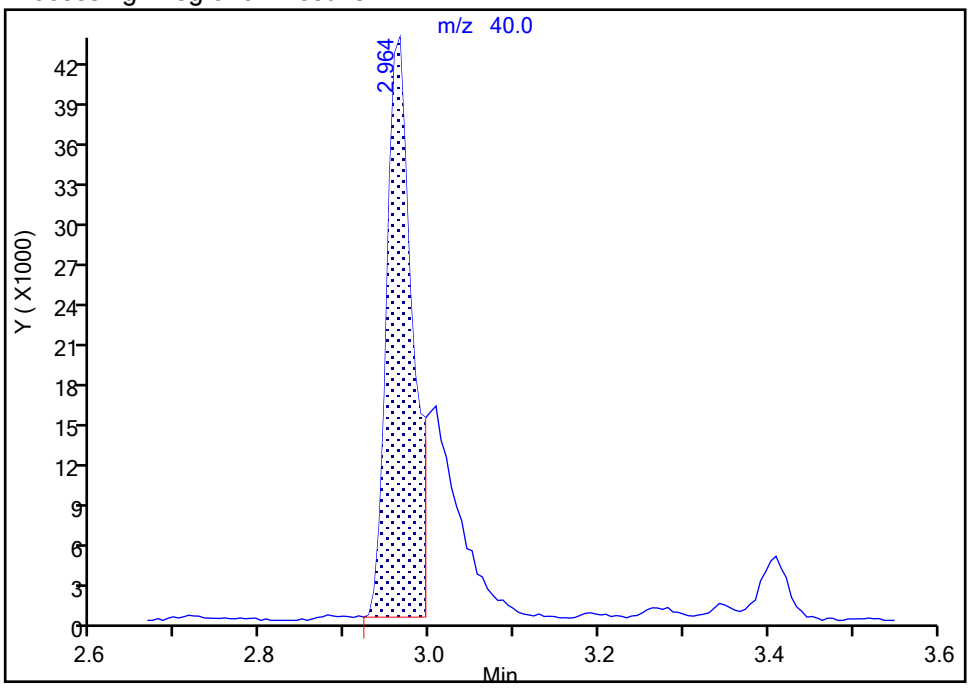
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Injection Date: 01-Dec-2020 04:52:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

118 Acetonitrile, CAS: 75-05-8

Signal: 1

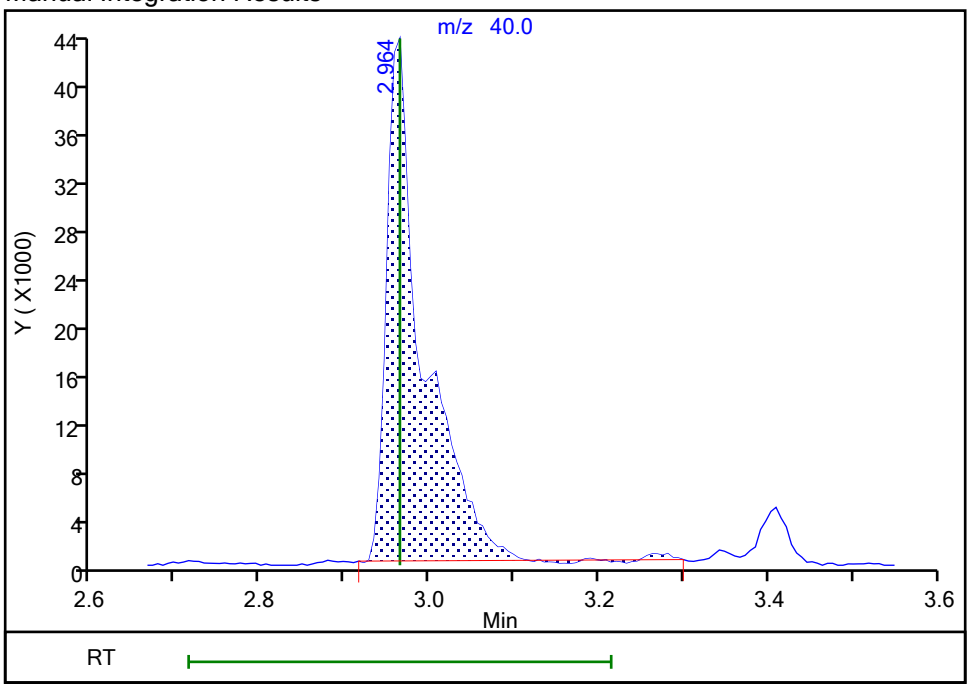
Processing Integration Results

RT: 2.96
Area: 91494
Amount: 557.2452
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 128783
Amount: 784.3543
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 05:21:38
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

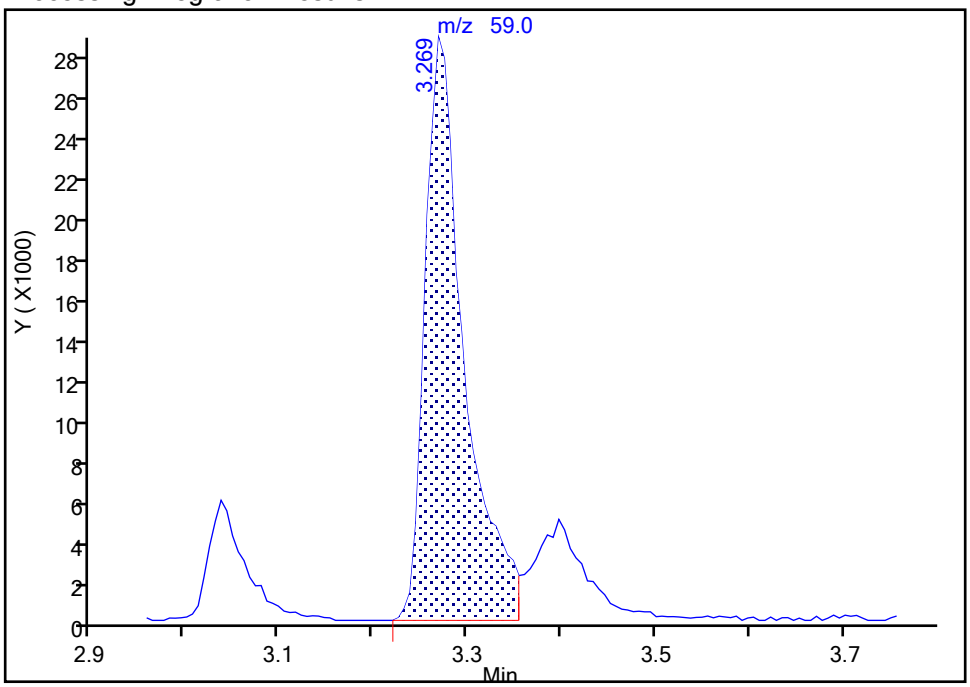
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Injection Date: 01-Dec-2020 04:52:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

35 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

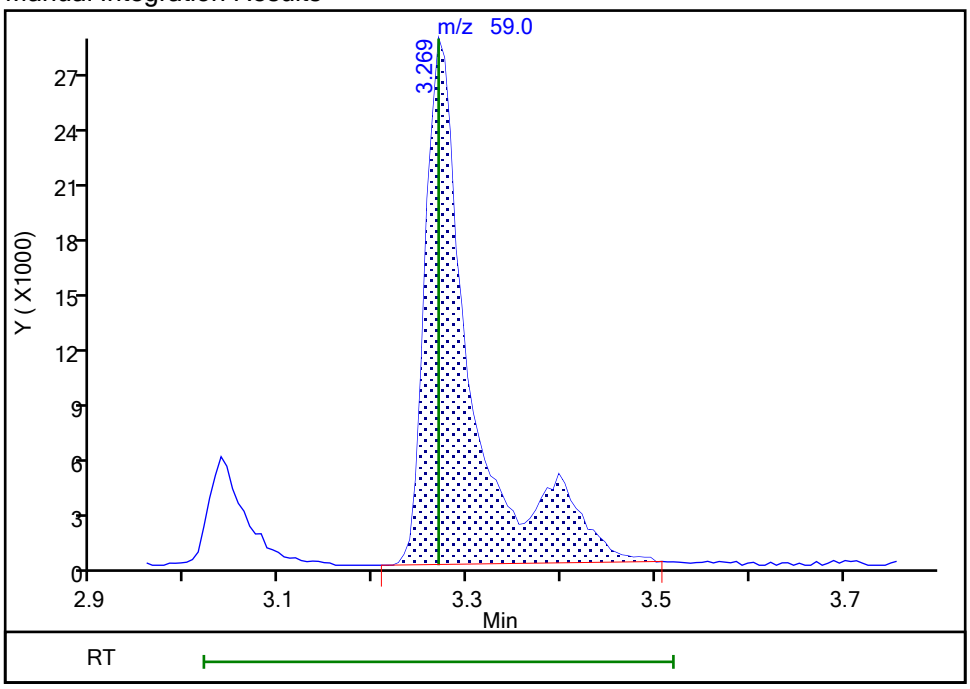
Processing Integration Results

RT: 3.27
Area: 81857
Amount: 722.1012
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 98021
Amount: 864.6919
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 05:21:50
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

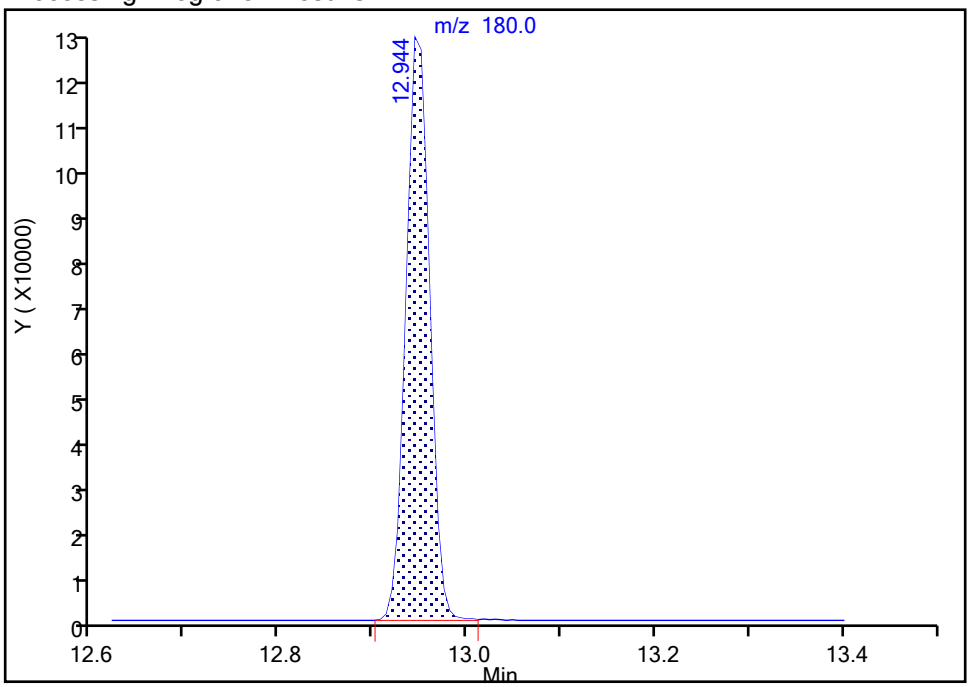
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Injection Date: 01-Dec-2020 04:52:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

96 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

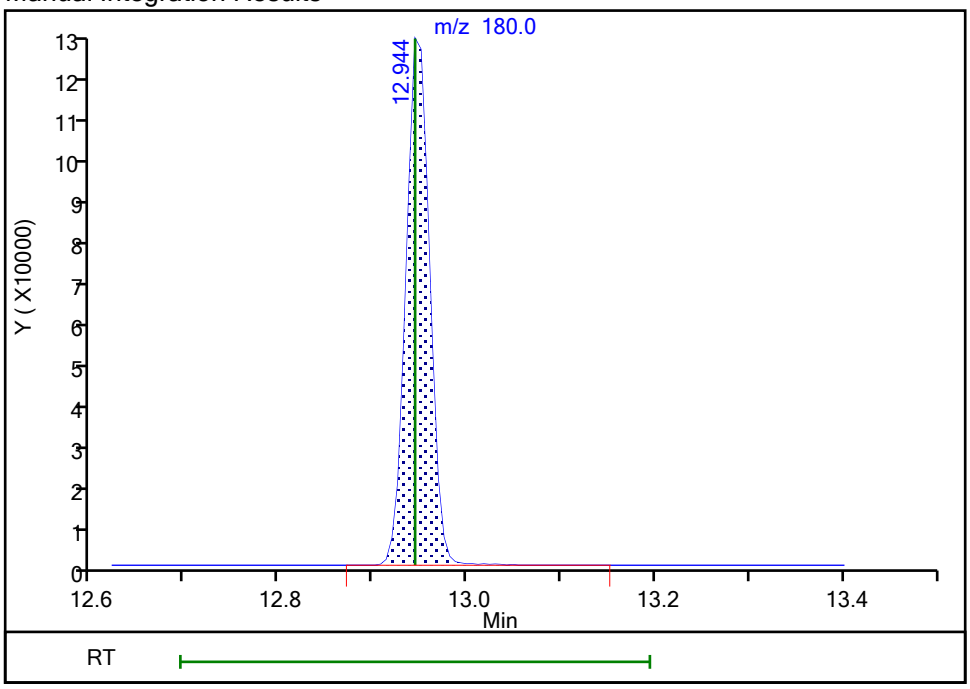
Processing Integration Results

RT: 12.94
Area: 210744
Amount: 79.881368
Amount Units: ug/l



Manual Integration Results

RT: 12.94
Area: 211093
Amount: 80.013654
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 05:22:12
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: CCV 310-300750/4 Calibration Date: 12/01/2020 04:52

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2241	0.2399		53.5	50.0	7.0	20.0
Toluene-d8 (Surr)	Ave	1.282	1.337		52.2	50.0	4.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7940		48.5	50.0	-2.9	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Dec-2020 04:52:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub44

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:09 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:30:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.397	3.397	0.000	0	100	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	169982	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.122	6.122	0.000	29	6925	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	89	124767	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	50	57815	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	40771	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	166866	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	85	45908	50.0	48.5	
$ 8 BFB	95	9.920	9.920	0.000	81	61914	NR	NR	
17 Ethanol	45	2.373	2.373	0.000	100	49976	4000.0	3380.8	
18 Ethyl ether	59	2.477	2.477	0.000	95	121106	100.0	84.3	
19 Acrolein	56	2.562	2.562	0.000	97	104544	476.4	478.2	
20 1,1-Dichloroethene	96	2.666	2.666	0.000	95	153378	100.0	87.7	
21 112TCTFE	101	2.696	2.696	0.000	97	192694	100.0	111.0	
22 Acetone	43	2.714	2.714	0.000	98	82312	200.0	187.8	
23 Iodomethane	142	2.775	2.775	0.000	98	157547	100.0	98.5	
24 Carbon disulfide	76	2.842	2.842	0.000	100	474012	100.0	91.6	
105 Isopropyl alcohol	45	2.885	2.885	0.000	96	63326	1000.0	790.6	M
118 Acetonitrile	40	2.964	2.964	0.000	99	128783	1000.0	784.4	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	81	98241	100.0	87.0	
26 Methyl acetate	43	3.037	3.037	0.000	99	194827	200.0	162.3	
27 Methylene Chloride	84	3.111	3.111	0.000	98	164241	100.0	79.3	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	94	98021	1000.0	864.7	M
30 Acrylonitrile	53	3.348	3.348	0.000	99	538947	1000.0	877.9	
28 trans-1,2-Dichloroethene	96	3.397	3.397	0.000	93	178221	100.0	89.4	
29 Methyl tert-butyl ether	73	3.409	3.409	0.000	99	412147	100.0	89.1	
31 Hexane	57	3.708	3.708	0.000	95	299979	100.0	110.9	
32 1,1-Dichloroethane	63	3.787	3.787	0.000	97	347284	100.0	92.8	
33 Vinyl acetate	86	3.854	3.854	0.000	97	64601	200.0	174.4	
34 2-Chloro-1,3-butadiene	53	3.885	3.885	0.000	96	387260	100.0	107.1	
36 Isopropyl ether	87	3.909	3.909	0.000	95	164780	100.0	90.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	4.245	4.245	0.000	98	528398	100.0	90.3	
39 cis-1,2-Dichloroethene	96	4.336	4.336	0.000	87	198844	100.0	87.1	
38 2,2-Dichloropropane	77	4.336	4.336	0.000	89	283443	100.0	96.0	
40 2-Butanone (MEK)	43	4.354	4.354	0.000	99	127333	200.0	178.8	
41 Propionitrile	54	4.397	4.397	0.000	99	210693	1000.0	863.1	
104 Ethyl acetate	61	4.427	4.427	0.000	99	44529	200.0	159.3	
43 Methacrylonitrile	67	4.549	4.549	0.000	94	662173	1000.0	914.4	
42 Chlorobromomethane	128	4.549	4.549	0.000	44	82690	100.0	86.7	
44 Tetrahydrofuran	71	4.604	4.604	0.000	91	28273	200.0	166.9	
45 Chloroform	83	4.647	4.647	0.000	98	350966	100.0	89.7	
46 1,1,1-Trichloroethane	97	4.811	4.811	0.000	97	325294	100.0	101.4	
47 Cyclohexane	56	4.872	4.872	0.000	95	398858	100.0	104.3	
48 Carbon tetrachloride	117	4.976	4.976	0.000	95	276984	100.0	99.8	
49 1,1-Dichloropropene	75	4.982	4.982	0.000	92	287979	100.0	95.9	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	119521	2500.0	1974.0	
50 Benzene	78	5.177	5.177	0.000	98	790498	100.0	90.0	
51 1,2-Dichloroethane	62	5.183	5.183	0.000	96	290799	100.0	104.6	
116 n-Butanol	56	5.299	5.299	0.000	59	231380	2500.0	2710.0	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	445459	100.0	84.5	
53 n-Heptane	43	5.476	5.476	0.000	94	293982	100.0	107.7	
54 Trichloroethene	95	5.805	5.811	-0.006	96	213907	100.0	95.3	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	211192	100.0	99.5	
114 Methylcyclohexane	83	6.012	6.012	0.000	96	350090	100.0	95.0	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	89	207424	100.0	96.7	
56 Dibromomethane	93	6.128	6.128	0.000	93	106951	100.0	93.8	
115 1,4-Dioxane	58	6.159	6.159	0.000	32	21920	2000.0	0	
57 Methyl methacrylate	69	6.165	6.165	0.000	92	229245	200.0	187.8	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	265143	100.0	102.4	
106 2-Nitropropane	43	6.525	6.525	0.000	100	87334	200.0	232.1	E
59 2-Chloroethyl vinyl ether	63	6.622	6.622	0.000	94	116741	100.0	98.1	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	90	312716	100.0	100.8	
61 4-Methyl-2-pentanone (MIBK)	43	6.933	6.933	0.000	99	321248	200.0	196.0	
62 Toluene	92	7.116	7.116	0.000	97	527328	100.0	88.3	
63 trans-1,3-Dichloropropene	75	7.341	7.341	0.000	99	283081	100.0	93.5	
64 Ethyl methacrylate	69	7.463	7.463	0.000	90	218443	100.0	93.6	
65 1,1,2-Trichloroethane	83	7.530	7.530	0.000	95	136182	100.0	95.5	
66 Tetrachloroethene	166	7.689	7.689	0.000	91	212214	100.0	86.3	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	96	288500	100.0	94.4	
68 2-Hexanone	43	7.817	7.817	0.000	99	211000	200.0	197.0	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	180354	100.0	94.8	
109 n-Butyl acetate	43	7.975	7.975	0.000	98	270034	100.0	96.2	
70 Ethylene Dibromide	107	8.061	8.061	0.000	98	157197	100.0	89.4	
71 Chlorobenzene	112	8.616	8.616	0.000	89	567128	100.0	90.7	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	93	193403	100.0	95.6	
73 Ethylbenzene	91	8.750	8.750	0.000	99	1061951	100.0	97.0	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	394960	100.0	92.6	
75 o-Xylene	106	9.329	9.329	0.000	98	378118	100.0	93.2	
76 Styrene	104	9.347	9.347	0.000	94	612894	100.0	91.2	
77 Bromoform	173	9.530	9.530	0.000	93	94850	100.0	87.1	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	1034086	100.0	98.0	
79 Bromobenzene	156	10.085	10.085	0.000	99	219866	100.0	85.9	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	97	185514	100.0	94.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	88	58319	100.0	88.8	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	84	58916	100.0	107.8	
83 N-Propylbenzene	91	10.243	10.243	0.000	99	1219276	100.0	100.3	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	687708	100.0	96.5	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	817283	100.0	97.5	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	94	808267	100.0	96.0	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	689881	100.0	94.5	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	794095	100.0	91.6	
89 sec-Butylbenzene	105	11.097	11.097	0.000	95	1021618	100.0	98.4	
90 1,3-Dichlorobenzene	146	11.200	11.200	0.000	96	404475	100.0	88.7	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	96	840049	100.0	97.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	406911	100.0	88.6	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	100	767887	100.0	93.8	
113 Benzyl chloride	126	11.475	11.475	0.000	99	62974	100.0	84.6	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	382602	100.0	88.6	
94 n-Butylbenzene	91	11.767	11.767	0.000	98	754559	100.0	99.6	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	74	27453	100.0	99.8	
96 1,2,4-Trichlorobenzene	180	12.944	12.944	0.000	93	211093	100.0	80.0	M
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	95	153593	100.0	69.7	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	93644	100.0	87.3	
98 Naphthalene	128	13.974	13.974	0.000	97	297710	100.0	61.9	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	95	107555	100.0	61.1	
131 1-Chlorohexane	55		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
132 t-Amyl alcohol	1		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		200.0	176.5	
S 100 Xylenes, Total	1				0		200.0	185.8	
S 102 1,3-Dichloropropene, Total	1				0		200.0	194.3	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated

Reagents:

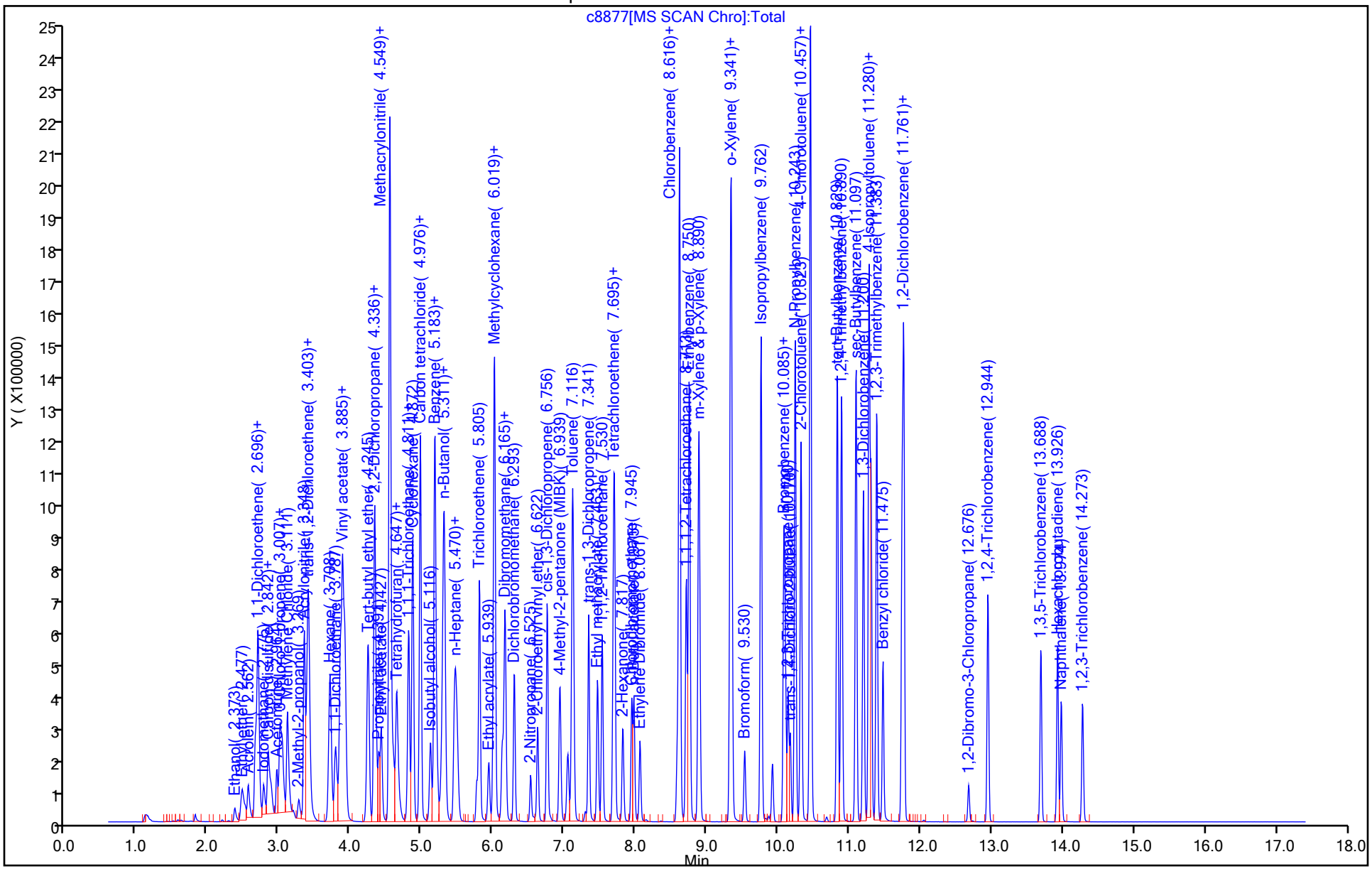
VV_M_TUN_00010	Amount Added: 1.00	Units: uL	
VV_I_MOSOL_00220	Amount Added: 20.00	Units: uL	
VV_M_ISSTD_00331	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 08:01:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8877.D

Injection Date:	01-Dec-2020 04:52:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Lab Sample ID: CCV 310-300750/5 Calibration Date: 12/01/2020 05:16

Instrument ID: Calvin Calib Start Date: 10/14/2020 04:42

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/14/2020 09:44

Lab File ID: c8878.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.023	1.111	0.1000	21.7	20.0	8.6	50.0
Chloromethane	Ave	0.7536	0.7878	0.1000	20.9	20.0	4.5	50.0
Vinyl chloride	Ave	0.9214	0.9154	0.1000	19.9	20.0	-0.6	20.0
1,3-Butadiene	Ave	0.9321	0.8876		19.0	20.0	-4.8	20.0
Bromomethane	Lin2		0.2563	0.1000	19.9	20.0	-0.5	50.0
Chloroethane	Ave	0.5330	0.5096	0.1000	19.1	20.0	-4.4	20.0
Dichlorofluoromethane	Ave	1.275	1.209		19.0	20.0	-5.2	20.0
Trichlorofluoromethane	Ave	1.218	1.184	0.1000	19.4	20.0	-2.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2241	0.2389		53.3	50.0	6.6	20.0
Toluene-d8 (Surr)	Ave	1.282	1.347		52.5	50.0	5.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8180	0.7760		47.4	50.0	-5.1	20.0

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8878.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Dec-2020 05:16:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin
Sublist: chrom-CVOA8260NEW*sub24

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:30:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.385	3.397	-0.012	0	226	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	154033	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.122	-0.012	96	4793	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	107841	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	98	49704	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	91	36799	50.0	53.3	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	96	145221	50.0	52.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	83	38571	50.0	47.4	
$ 8 BFB	95	9.920	9.920	0.000	82	52218	NR	NR	
9 Dichlorodifluoromethane	85	1.294	1.288	0.006	99	68439	20.0	21.7	
10 Chloromethane	50	1.520	1.526	-0.006	98	48540	20.0	20.9	
11 Vinyl chloride	62	1.538	1.532	0.006	98	56403	20.0	19.9	
12 Butadiene	54	1.575	1.568	0.007	96	54687	20.0	19.0	
13 Bromomethane	94	1.837	1.837	0.000	93	15792	20.0	19.9	M
14 Chloroethane	64	1.922	1.916	0.006	97	31396	20.0	19.1	
15 Dichlorofluoromethane	67	2.117	2.117	0.000	98	74519	20.0	19.0	
16 Trichlorofluoromethane	101	2.178	2.166	0.012	97	72980	20.0	19.4	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

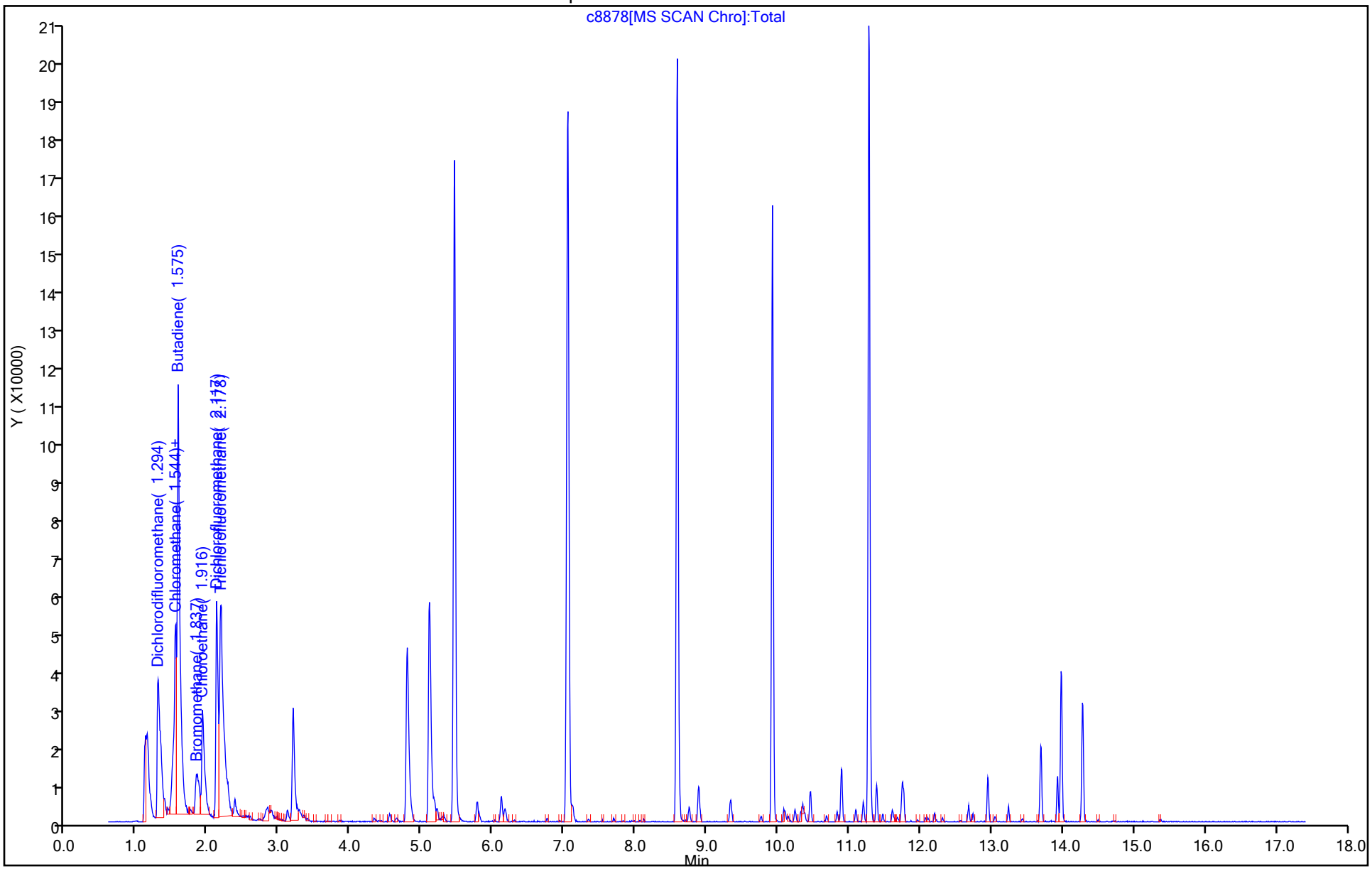
VV_M_TUN_00010	Amount Added:	1.00	Units: uL	
VV_I_GASES_00416	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 08:01:23 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8878.D

Injection Date:	01-Dec-2020 05:16:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

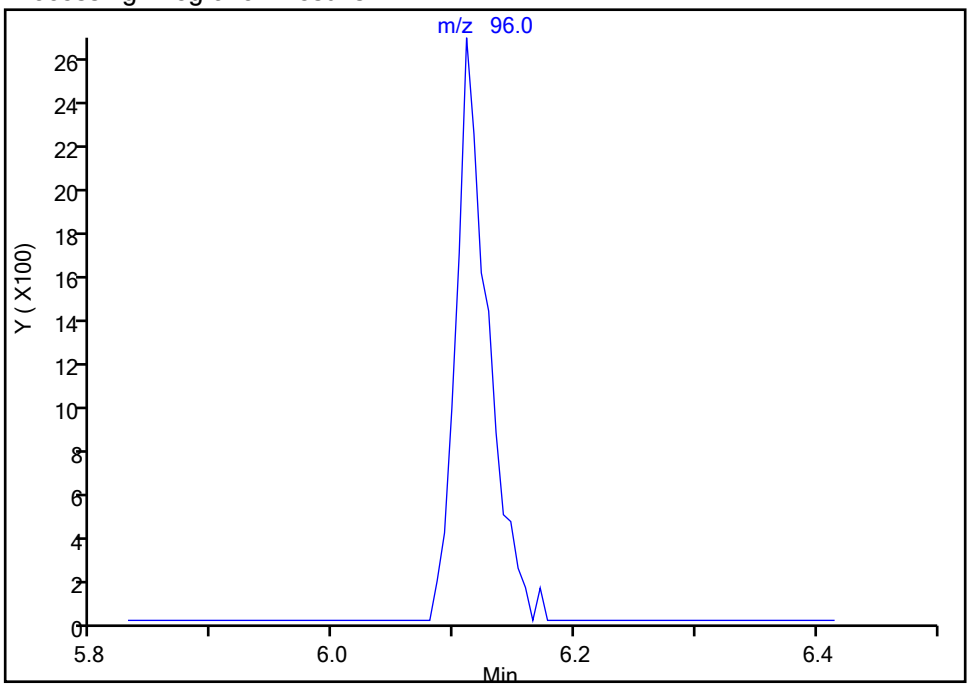
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8878.D
Injection Date: 01-Dec-2020 05:16:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

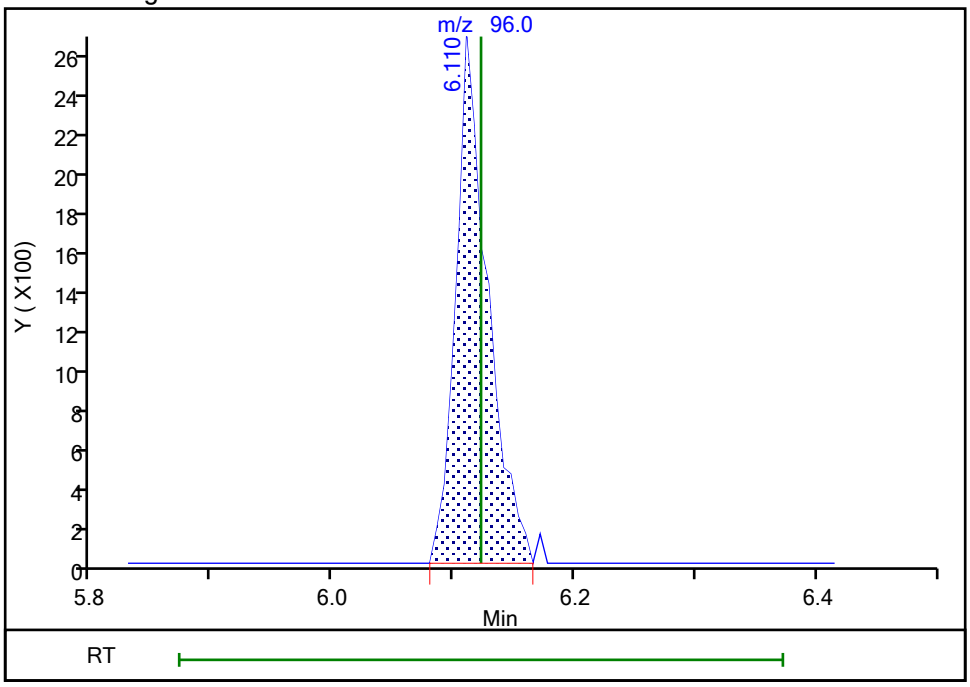
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 4793
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 06:48:49
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

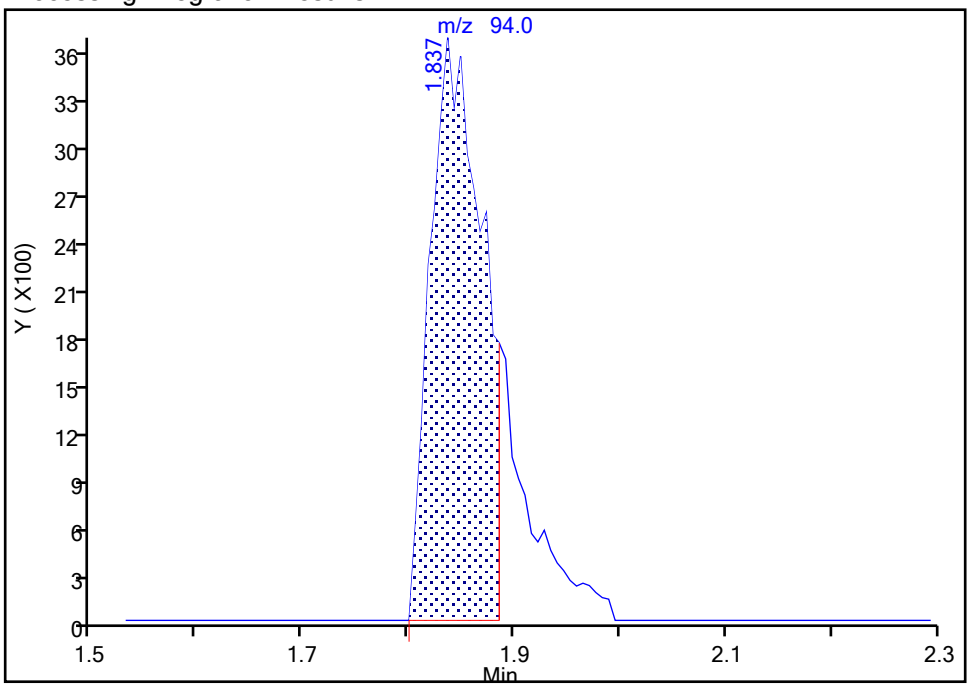
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8878.D
Injection Date: 01-Dec-2020 05:16:30 Instrument ID: Calvin
Lims ID: CCV
Client ID:
Operator ID: sjn ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

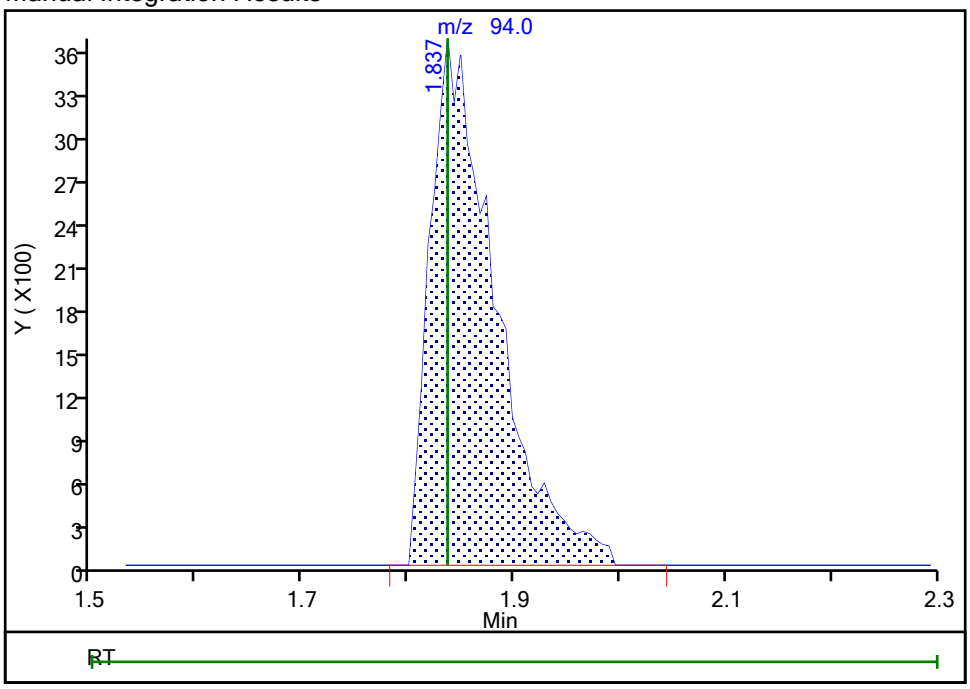
Processing Integration Results

RT: 1.84
Area: 12686
Amount: 16.070569
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 15792
Amount: 19.893977
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 06:48:33
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 01-Oct-2020 23:45:30 ALS Bottle#: 33 Worklist Smp#: 23
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 02-Oct-2020 08:11:14 Calib Date: 02-Oct-2020 04:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5293.D

Column 1 : Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: nelsonsa Date: 02-Oct-2020 07:51:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	201068	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.104	6.104	0.000	98	7944	1000.0	1000.0	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	161388	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	95	79656	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	93	47052	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	93	200903	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	94	63574	50.0	49.2	
$ 8 BFB	95	9.914	9.914	0.000	88	75126	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

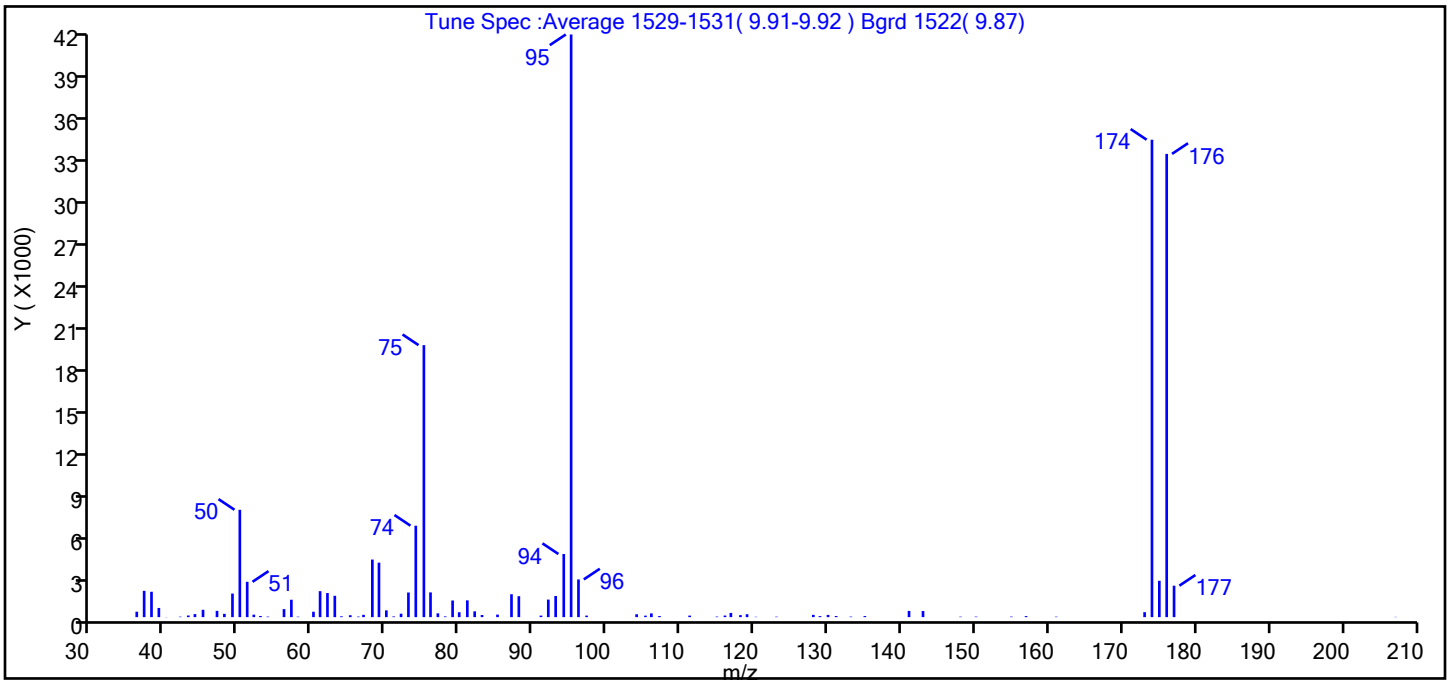
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D
Injection Date: 01-Oct-2020 23:45:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 33 Worklist Smp#: 23
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.4
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	81.9
175	5 to 9% of m/z 174	6.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	79.5 (97.0)
177	5 to 9% of m/z 176	5.4 (6.8)

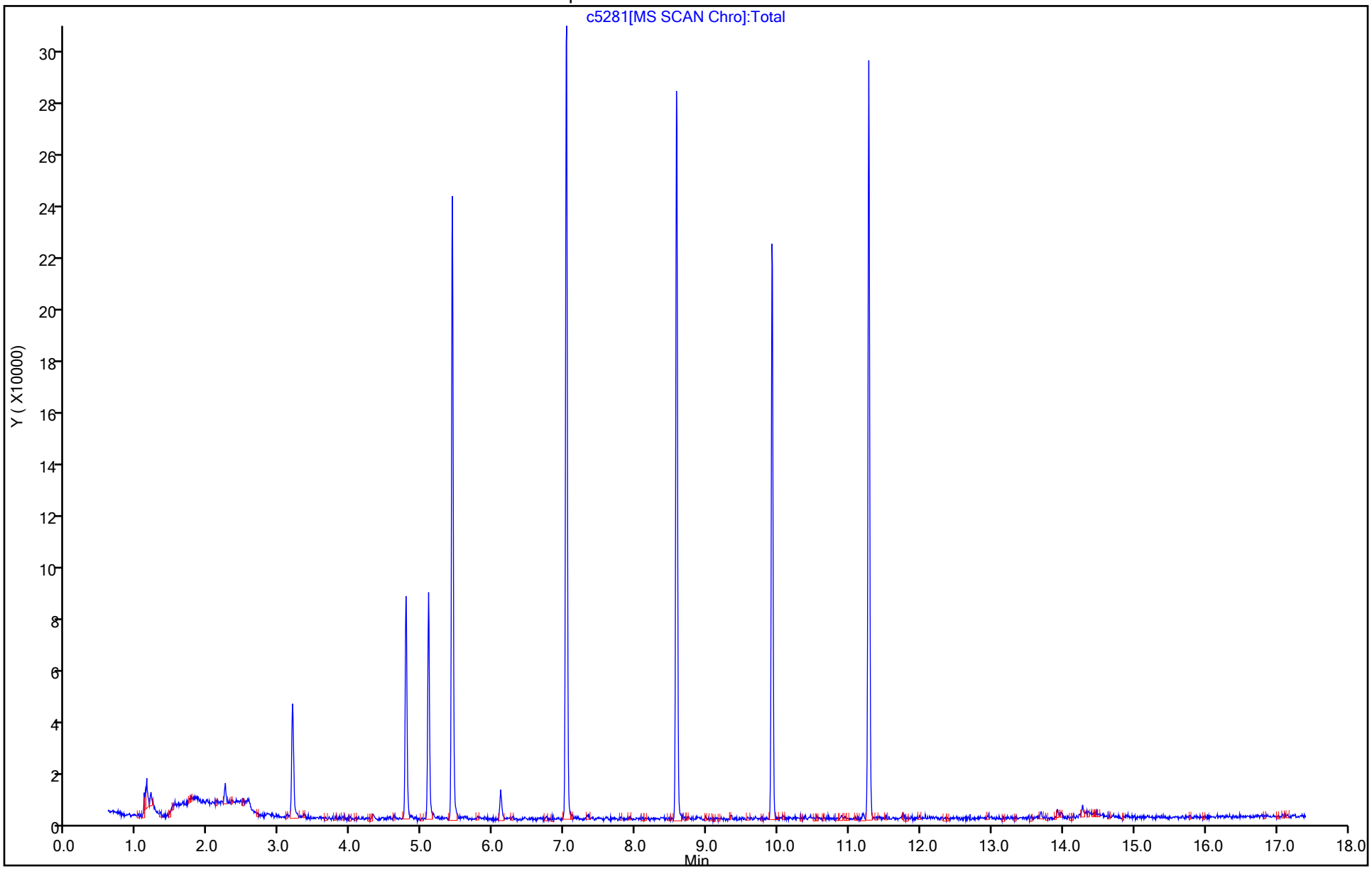
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 01-Oct-2020 23:45:30
Spectrum: Tune Spec :Average 1529-1531(9.91-9.92) Bgrd 1522(9.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	384	62.00	1702	85.00	181	128.00	163
37.00	1858	63.00	1507	87.00	1617	129.00	73
38.00	1792	64.00	60	88.00	1479	130.00	158
39.00	649	65.00	135	91.00	109	131.00	79
40.00	11	66.00	39	92.00	1240	133.00	39
42.00	34	67.00	164	93.00	1493	135.00	77
43.00	116	68.00	4067	94.00	4457	141.00	441
44.00	216	69.00	3847	95.00	41144	143.00	431
45.00	519	70.00	477	96.00	2664	148.00	33
47.00	443	71.00	50	97.00	110	150.00	37
48.00	233	72.00	244	104.00	206	155.00	38
49.00	1664	73.00	1740	105.00	106	157.00	74
50.00	7581	74.00	6458	106.00	265	161.00	33
51.00	2496	75.00	19208	107.00	77	173.00	351
52.00	176	76.00	1747	111.00	109	174.00	33712
53.00	82	77.00	268	115.00	40	175.00	2567
54.00	38	78.00	51	116.00	113	176.00	32712
56.00	569	79.00	1176	117.00	298	177.00	2221
57.00	1229	80.00	346	118.00	143	207.00	18
58.00	33	81.00	1186	119.00	207		
60.00	382	82.00	410	120.00	25		
61.00	1835	83.00	149	123.00	33		

Report Date: 02-Oct-2020 08:11:14 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201001-61653.b\c5281.D				
Injection Date:	01-Oct-2020 23:45:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	23
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Oct-2020 07:51:30 ALS Bottle#: 4 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 13-Oct-2020 18:25:39 Calib Date: 13-Oct-2020 12:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5876.D

Column 1 : Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: nelsonsa Date: 13-Oct-2020 14:47:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	99	134932	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	86	106914	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	96	50650	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.781	4.781	0.000	92	29558	NC	NC	
$ 6 Toluene-d8 (Surr)	98	7.031	7.031	0.000	94	134436	NC	NC	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	89	40070	NC	NC	
$ 8 BFB	95	9.914	9.914	0.000	88	48432	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
NC - Not Calibrated

Reagents:

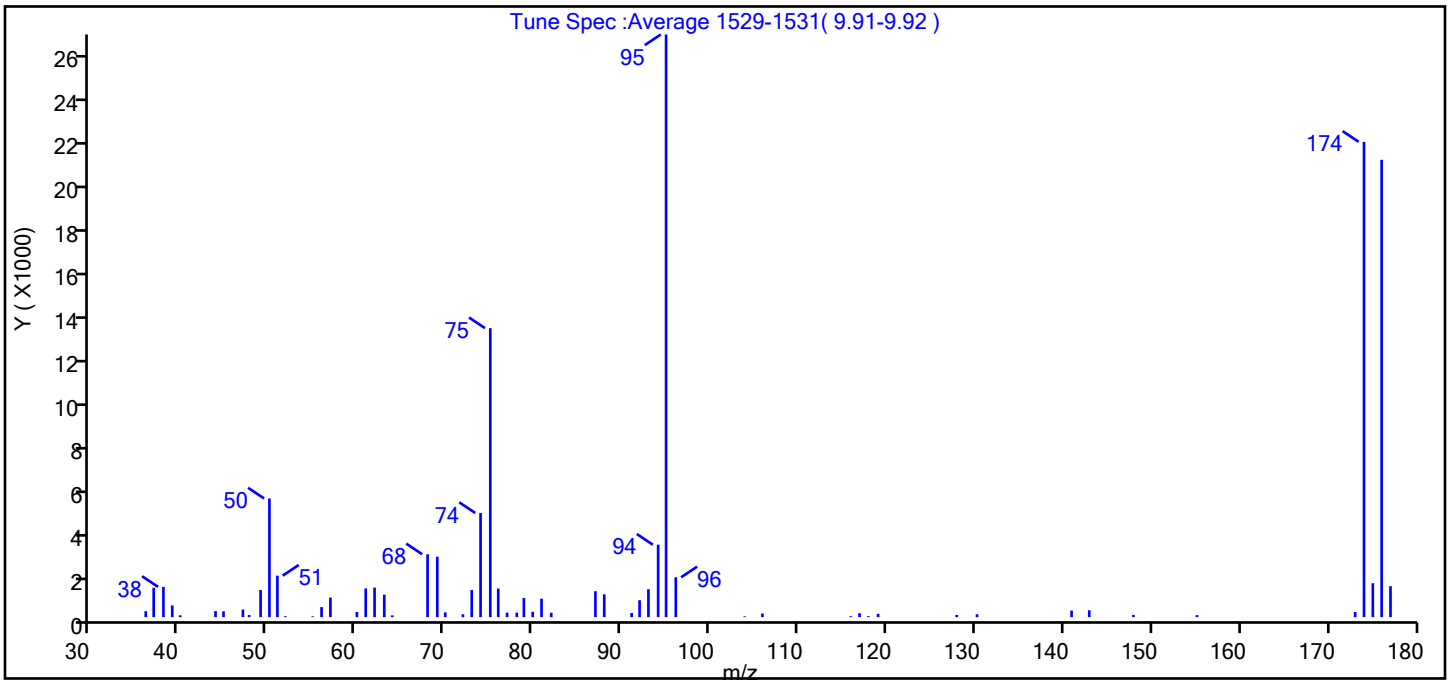
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D
Injection Date: 13-Oct-2020 07:51:30 Instrument ID: Calvin
Lims ID: BFB
Client ID:
Operator ID: sjn ALS Bottle#: 4 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.4
75	30 to 60% of m/z 95	49.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	81.6
175	5 to 9% of m/z 174	5.8 (7.1)
176	Greater than 95% but less than 101% of m/z 174	78.5 (96.2)
177	5 to 9% of m/z 176	5.3 (6.8)

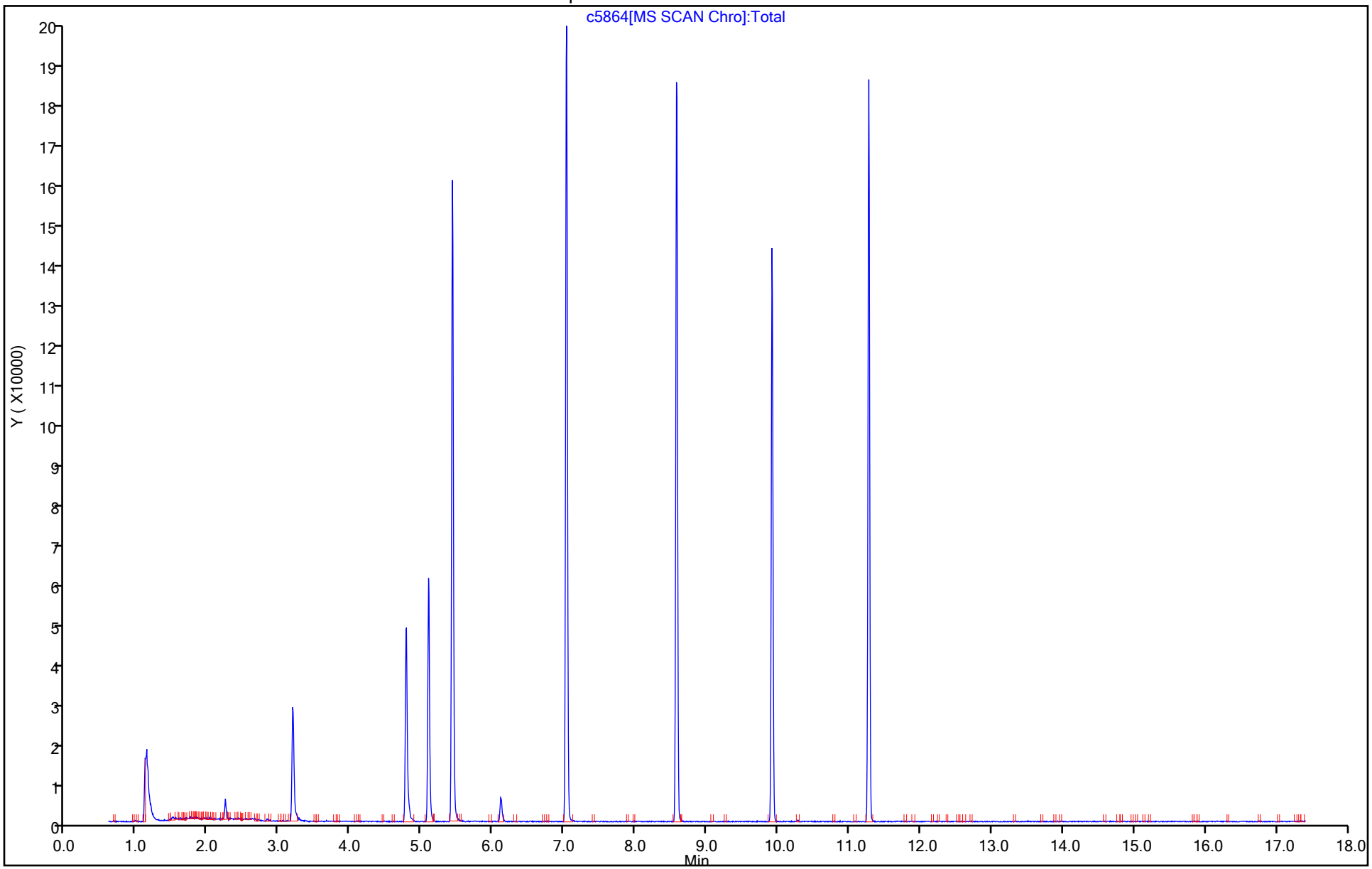
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 13-Oct-2020 07:51:30
Spectrum: Tune Spec :Average 1529-1531(9.91-9.92)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	267	57.00	879	78.00	203	116.00	42
37.00	1318	60.00	232	79.00	861	117.00	178
38.00	1357	61.00	1290	80.00	241	118.00	43
39.00	527	62.00	1325	81.00	827	119.00	150
40.00	82	63.00	1010	82.00	199	128.00	99
44.00	272	64.00	80	87.00	1165	130.00	128
45.00	263	68.00	2821	88.00	1023	141.00	296
47.00	341	69.00	2714	91.00	184	143.00	308
48.00	95	70.00	212	92.00	760	148.00	98
49.00	1217	72.00	128	93.00	1253	155.00	91
50.00	5325	73.00	1215	94.00	3251	173.00	231
51.00	1862	74.00	4674	95.00	26144	174.00	21328
52.00	42	75.00	12968	96.00	1789	175.00	1522
55.00	34	76.00	1283	104.00	34	176.00	20520
56.00	451	77.00	204	106.00	161	177.00	1391

Report Date: 13-Oct-2020 18:25:40 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5864.D				
Injection Date:	13-Oct-2020 07:51:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Oct-2020 04:17:30 ALS Bottle#: 42 Worklist Smp#: 22
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 15-Oct-2020 01:19:02 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1611

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.550				1000.0	ND	
* 122 Fluorobenzene	96	5.427	5.427	0.000	98	173072	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.110				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.573	8.573	0.000	89	128645	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	60039	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.775	4.775	0.000	91	39061	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.024	7.024	0.000	95	168088	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.914	9.914	0.000	85	49733	50.0	50.6	
$ 8 BFB	95	9.914	9.914	0.000	84	63180	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

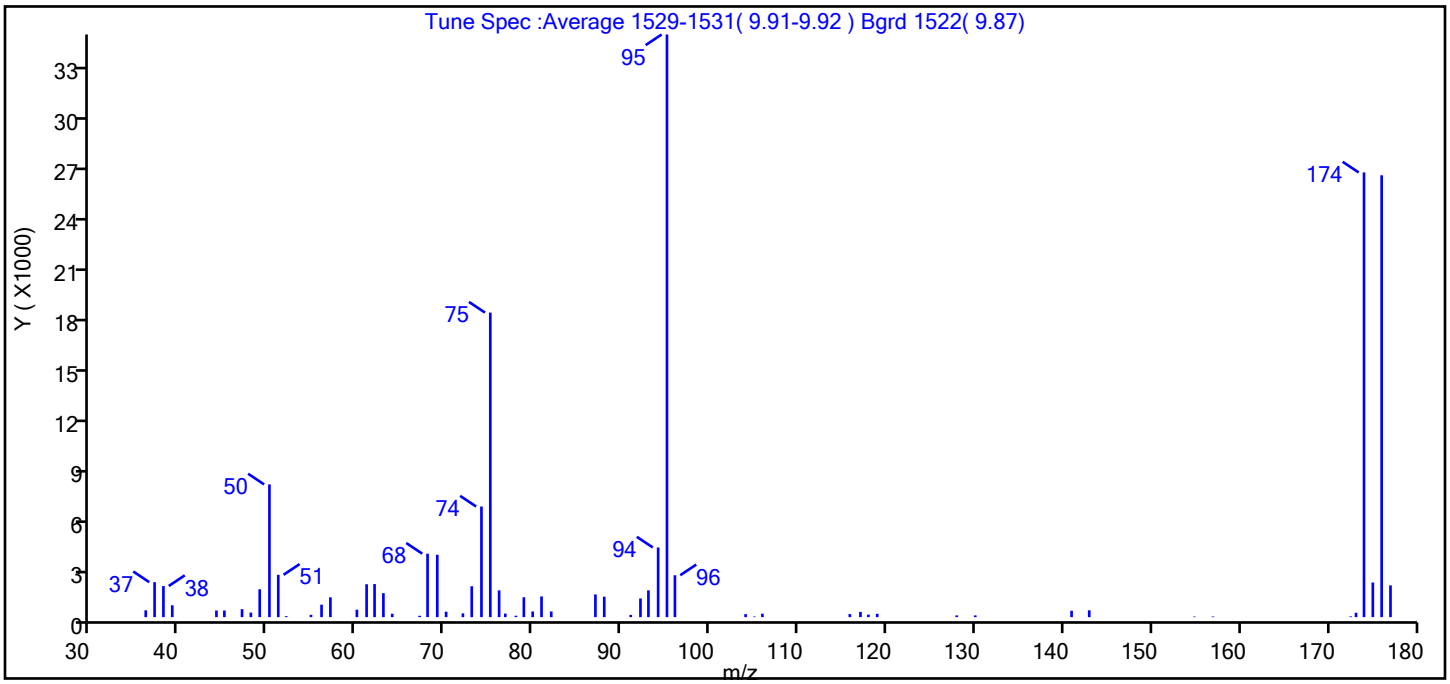
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D
Injection Date: 14-Oct-2020 04:17:30 Instrument ID: Calvin
Lims ID: BFB
Client ID:
Operator ID: sjn ALS Bottle#: 42 Worklist Smp#: 22
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.8
75	30 to 60% of m/z 95	52.3
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.9 (1.2)
174	50 to 120% of m/z 95	76.3
175	5 to 9% of m/z 174	5.9 (7.8)
176	Greater than 95% but less than 101% of m/z 174	75.8 (99.4)
177	5 to 9% of m/z 176	5.5 (7.2)

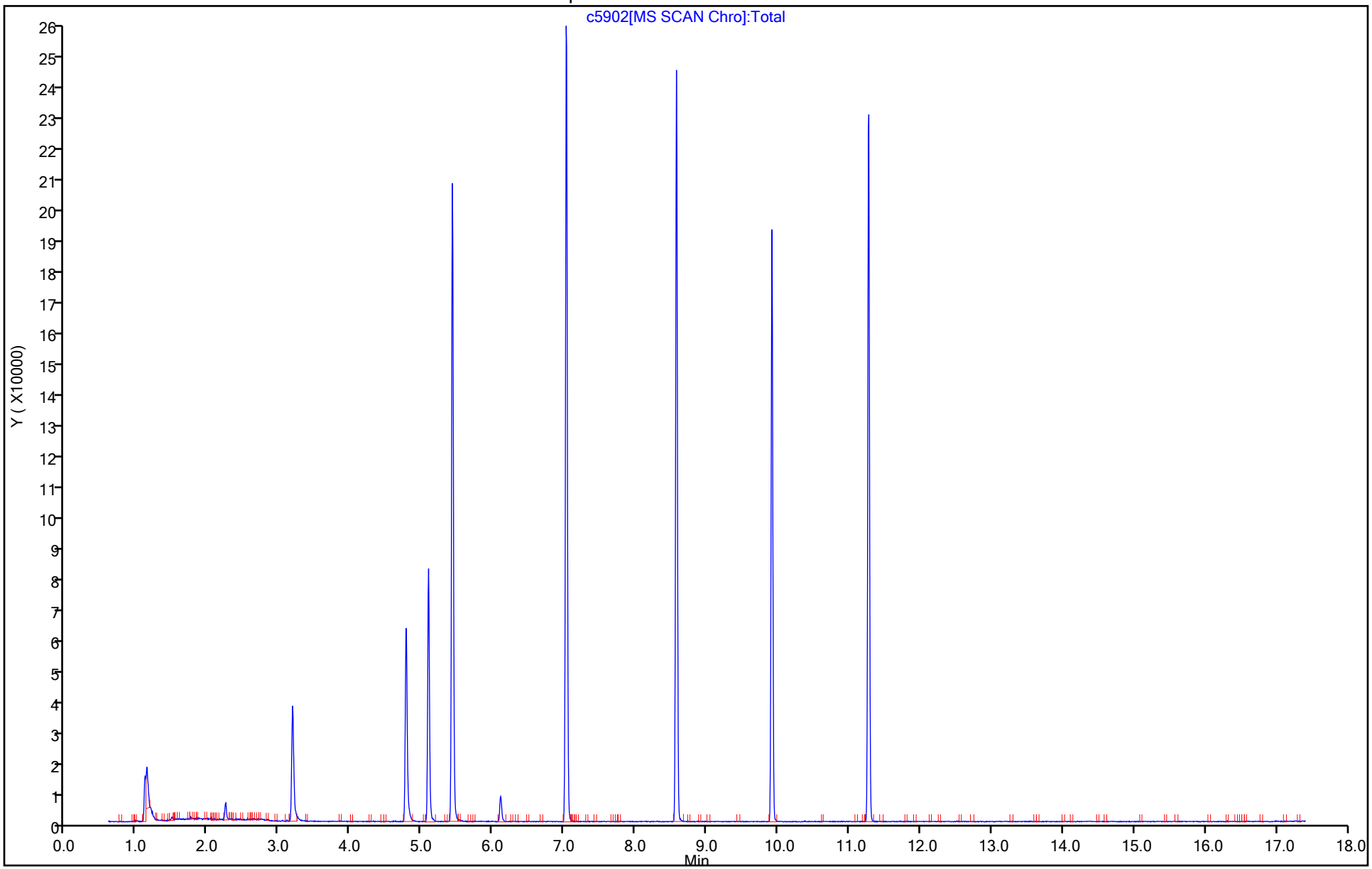
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 14-Oct-2020 04:17:30
Spectrum: Tune Spec :Average 1529-1531(9.91-9.92) Bgrd 1522(9.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	404	61.00	1950	80.00	335	118.00	151
37.00	2073	62.00	1960	81.00	1227	119.00	199
38.00	1845	63.00	1421	82.00	335	128.00	103
39.00	702	64.00	203	87.00	1346	130.00	104
44.00	393	67.00	81	88.00	1212	141.00	378
45.00	393	68.00	3761	91.00	132	143.00	405
47.00	474	69.00	3696	92.00	1107	155.00	35
48.00	270	70.00	322	93.00	1587	157.00	39
49.00	1651	72.00	225	94.00	4128	172.00	44
50.00	7866	73.00	1831	95.00	34528	173.00	260
51.00	2511	74.00	6555	96.00	2483	174.00	26352
52.00	59	75.00	18048	104.00	177	175.00	2051
55.00	139	76.00	1588	105.00	36	176.00	26184
56.00	738	77.00	212	106.00	203	177.00	1883
57.00	1175	78.00	85	116.00	182		
60.00	442	79.00	1179	117.00	312		

Report Date: 15-Oct-2020 01:19:03 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5902.D				
Injection Date:	14-Oct-2020 04:17:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	BFB			Worklist Smp#:	22
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8876.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 01-Dec-2020 04:28:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:05 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 05:20:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.379	3.379	0.000	0	292	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	146181	50.0	50.0	
* 121 1,4-Dioxane-d8	96		6.122				1000.0	ND	
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	105422	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.274	11.274	0.000	98	47095	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	92	34403	50.0	52.5	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	95	137930	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.920	0.000	83	36664	50.0	47.6	
$ 8 BFB	95	9.920	9.920	0.000	82	49198	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

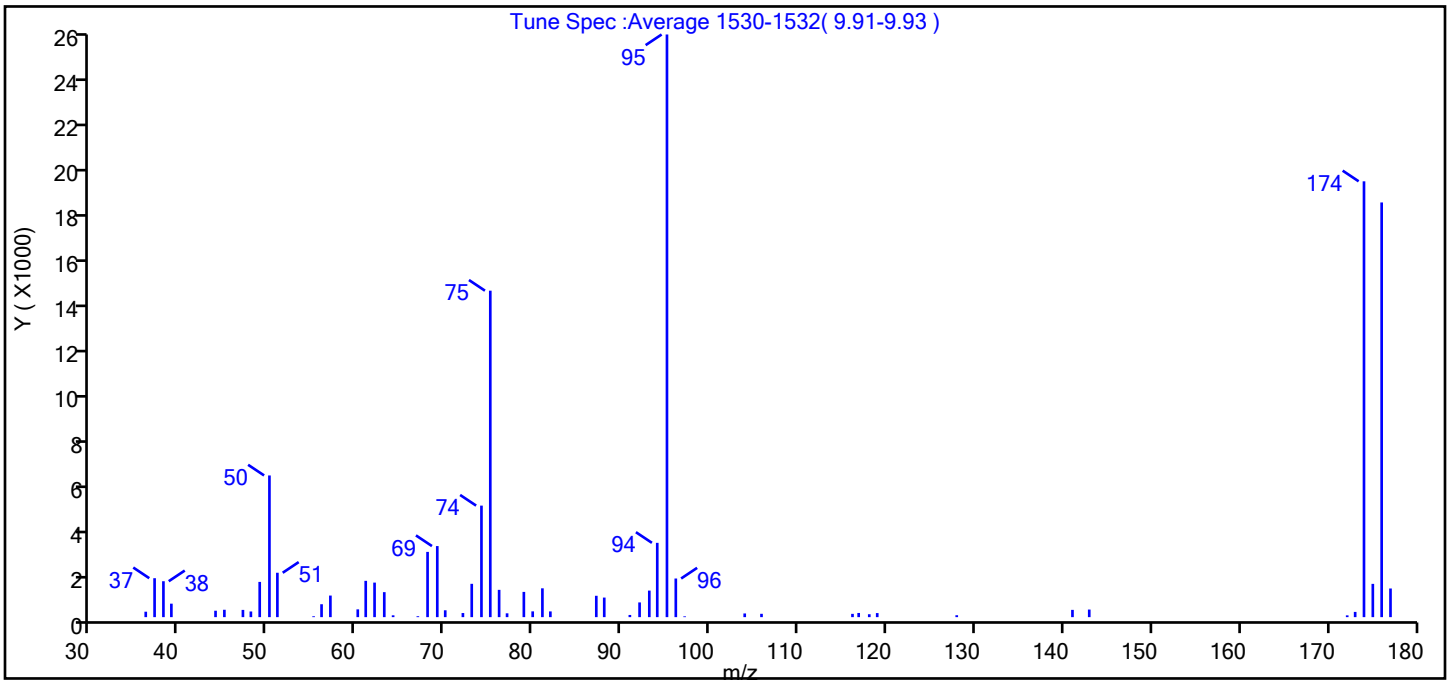
VV_M_TUN_00010 Amount Added: 1.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

MS Tune Report

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8876.D
Injection Date: 01-Dec-2020 04:28:30 Instrument ID: Calvin
Lims ID: bfb
Client ID:
Operator ID: sjn ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.3
75	30 to 60% of m/z 95	56.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.9 (1.2)
174	50 to 120% of m/z 95	74.8
175	5 to 9% of m/z 174	5.7 (7.6)
176	Greater than 95% but less than 101% of m/z 174	71.2 (95.2)
177	5 to 9% of m/z 176	4.9 (6.9)

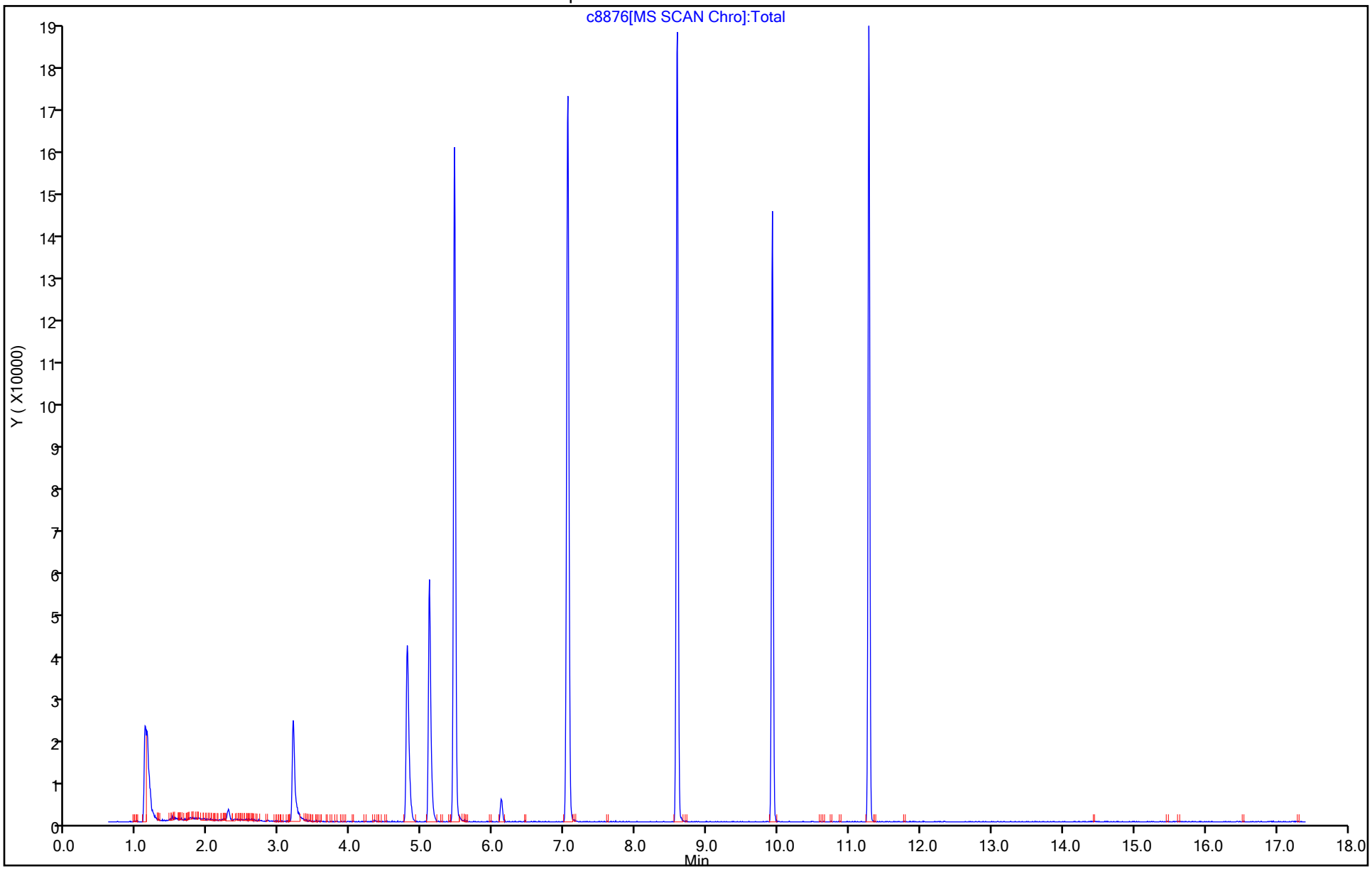
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8876.D\CVOA8260NEW.rslt\spectra.d
Injection Date: 01-Dec-2020 04:28:30
Spectrum: Tune Spec :Average 1530-1532(9.91-9.93)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	241	61.00	1608	80.00	256	117.00	185
37.00	1725	62.00	1530	81.00	1277	118.00	129
38.00	1591	63.00	1107	82.00	254	119.00	180
39.00	597	64.00	81	87.00	946	128.00	85
44.00	284	67.00	40	88.00	867	141.00	322
45.00	327	68.00	2890	91.00	97	143.00	336
47.00	321	69.00	3148	92.00	652	172.00	79
48.00	251	70.00	304	93.00	1176	173.00	232
49.00	1561	72.00	182	94.00	3291	174.00	19304
50.00	6276	73.00	1476	95.00	25808	175.00	1474
51.00	1966	74.00	4940	96.00	1711	176.00	18368
55.00	38	75.00	14460	97.00	34	177.00	1269
56.00	572	76.00	1209	104.00	163		
57.00	956	77.00	169	106.00	148		
60.00	345	79.00	1118	116.00	146		

Report Date: 01-Dec-2020 08:01:06 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8876.D				
Injection Date:	01-Dec-2020 04:28:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	bfb			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-300750/8

Matrix: Water Lab File ID: c8881.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 06:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.22
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.39
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.27
591-78-6	2-Hexanone	10	U	10	2.0
67-64-1	Acetone	10	U	10	3.1
71-43-2	Benzene	1.0	U	1.0	0.22
75-25-2	Bromoform	1.0	U	1.0	0.78
74-83-9	Bromomethane	1.0	U	1.0	0.82
75-15-0	Carbon disulfide	1.0	U	1.0	0.45
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.65
108-90-7	Chlorobenzene	1.0	U	1.0	0.40
75-00-3	Chloroethane	1.0	U	1.0	0.79
67-66-3	Chloroform	1.0	U	1.0	1.3
74-87-3	Chloromethane	1.0	U	1.0	0.61
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.20
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.39
100-41-4	Ethylbenzene	1.0	U	1.0	0.31
78-93-3	2-Butanone (MEK)	10	U	10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	2.1
75-09-2	Methylene Chloride	5.0	U	5.0	0.78
100-42-5	Styrene	1.0	U	1.0	0.37
127-18-4	Tetrachloroethene	1.0	U	1.0	0.48
108-88-3	Toluene	1.0	U	1.0	0.43
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.43
75-01-4	Vinyl chloride	1.0	U	1.0	0.18
1330-20-7	Xylenes, Total	2.0	U	2.0	0.40
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 310-300750/8

Matrix: Water Lab File ID: c8881.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 06:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8881.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 01-Dec-2020 06:29:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 07:27:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 134 1,2-Dichloroethane-d4 ISTD	65		2.111					ND	
* 135 TBA-d9 (IS)	65	3.354	3.397	-0.043	0	440	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	145439	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.122	-0.012	95	4818	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	91	103835	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	98	46576	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.799	4.793	0.006	92	34358	50.0	52.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	138691	50.0	52.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	84	36678	50.0	48.1	
$ 8 BFB	95	9.920	9.920	0.000	82	48887		NR	
9 Dichlorodifluoromethane	85		1.288					ND	U
10 Chloromethane	50		1.526					ND	
11 Vinyl chloride	62		1.532					ND	
12 Butadiene	54		1.568					ND	
13 Bromomethane	94		1.837					ND	
14 Chloroethane	64		1.916					ND	
15 Dichlorofluoromethane	67		2.117					ND	
16 Trichlorofluoromethane	101		2.166					ND	
17 Ethanol	45		2.373					ND	
18 Ethyl ether	59		2.477					ND	
19 Acrolein	56		2.562					ND	
20 1,1-Dichloroethene	96		2.666					ND	
21 112TCTFE	101		2.696					ND	
22 Acetone	43		2.714					ND	
23 Iodomethane	142		2.775					ND	
24 Carbon disulfide	76	2.842	2.842	0.000	57	383		0.0865	M
105 Isopropyl alcohol	45		2.885					ND	
118 Acetonitrile	40		2.964					ND	
25 3-Chloro-1-propene	76		3.007					ND	
26 Methyl acetate	43		3.037					ND	
27 Methylene Chloride	84		3.111					ND	
35 2-Methyl-2-propanol	59		3.269					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Acrylonitrile	53		3.348					ND	
28 trans-1,2-Dichloroethene	96		3.397					ND	
29 Methyl tert-butyl ether	73		3.409					ND	
31 Hexane	57		3.708					ND	
32 1,1-Dichloroethane	63		3.787					ND	
33 Vinyl acetate	86		3.854					ND	
34 2-Chloro-1,3-butadiene	53		3.885					ND	
36 Isopropyl ether	87		3.909					ND	
37 Tert-butyl ethyl ether	59		4.245					ND	
39 cis-1,2-Dichloroethene	96		4.336					ND	
38 2,2-Dichloropropane	77		4.336					ND	
40 2-Butanone (MEK)	43		4.354					ND	
41 Propionitrile	54		4.397					ND	
104 Ethyl acetate	61		4.427					ND	
43 Methacrylonitrile	67		4.549					ND	
42 Chlorobromomethane	128		4.549					ND	
44 Tetrahydrofuran	71		4.604					ND	
45 Chloroform	83		4.647					ND	
46 1,1,1-Trichloroethane	97		4.811					ND	
47 Cyclohexane	56		4.872					ND	
48 Carbon tetrachloride	117		4.976					ND	
49 1,1-Dichloropropene	75		4.982					ND	
108 Isobutyl alcohol	43		5.122					ND	
50 Benzene	78		5.177					ND	
51 1,2-Dichloroethane	62		5.183					ND	
116 n-Butanol	56		5.299					ND	
52 Tert-amyl methyl ether	73		5.311					ND	
53 n-Heptane	43		5.476					ND	
54 Trichloroethene	95		5.811					ND	
117 Ethyl acrylate	55		5.939					ND	
114 Methylcyclohexane	83		6.012					ND	
55 1,2-Dichloropropane	63		6.019					ND	
56 Dibromomethane	93		6.128					ND	
115 1,4-Dioxane	58		6.159					ND	
57 Methyl methacrylate	69		6.165					ND	
58 Dichlorobromomethane	83		6.293					ND	
106 2-Nitropropane	43		6.525					ND	
59 2-Chloroethyl vinyl ether	63		6.622					ND	
60 cis-1,3-Dichloropropene	75		6.756					ND	
61 4-Methyl-2-pentanone (MIBK)	43		6.933					ND	
62 Toluene	92		7.116					ND	
63 trans-1,3-Dichloropropene	75		7.341					ND	
64 Ethyl methacrylate	69		7.463					ND	
65 1,1,2-Trichloroethane	83		7.530					ND	
66 Tetrachloroethene	166		7.689					ND	
67 1,3-Dichloropropane	76		7.707					ND	
68 2-Hexanone	43		7.817					ND	
69 Chlorodibromomethane	129		7.945					ND	
109 n-Butyl acetate	43		7.975					ND	
70 Ethylene Dibromide	107		8.061					ND	
71 Chlorobenzene	112		8.616					ND	
72 1,1,1,2-Tetrachloroethane	131		8.713					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
73 Ethylbenzene	91		8.750					ND	
74 m-Xylene & p-Xylene	106		8.890					ND	
75 o-Xylene	106		9.329					ND	
76 Styrene	104		9.347					ND	
77 Bromoform	173		9.530					ND	
78 Isopropylbenzene	105		9.762					ND	
79 Bromobenzene	156		10.085					ND	
80 1,1,2,2-Tetrachloroethane	83		10.103					ND	
81 1,2,3-Trichloropropane	110		10.140					ND	
82 trans-1,4-Dichloro-2-butene	53		10.170					ND	
83 N-Propylbenzene	91		10.243					ND	
84 2-Chlorotoluene	91		10.323					ND	
85 4-Chlorotoluene	91		10.451					ND	
86 1,3,5-Trimethylbenzene	105		10.457					ND	
87 tert-Butylbenzene	119		10.835					ND	
88 1,2,4-Trimethylbenzene	105		10.890					ND	
89 sec-Butylbenzene	105		11.097					ND	
90 1,3-Dichlorobenzene	146		11.200					ND	
91 4-Isopropyltoluene	119		11.280					ND	
92 1,4-Dichlorobenzene	146		11.304					ND	
110 1,2,3-Trimethylbenzene	105		11.383					ND	
113 Benzyl chloride	126		11.475					ND	
93 1,2-Dichlorobenzene	146		11.743					ND	
94 n-Butylbenzene	91		11.767					ND	
95 1,2-Dibromo-3-Chloropropane	75		12.676					ND	
96 1,2,4-Trichlorobenzene	180		12.944					ND	
112 1,3,5-Trichlorobenzene	180		13.694					ND	
97 Hexachlorobutadiene	225		13.926					ND	
98 Naphthalene	128		13.974					ND	
99 1,2,3-Trichlorobenzene	180		14.279					ND	
137 C6-C10	1		0.000					ND	
132 t-Amyl alcohol	1		0.000					ND	
136 n-Decane	57		0.000					ND	
133 Isooctane	57		0.000					ND	
123 Cyclohexanone	55		0.000					ND	
129 Pentachloroethane	167		0.000					ND	
127 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Dodecane	57		0.000					ND	
130 Dichloroacetonitrile TIC	1		0.000					ND	
139 C6-C12	1		0.000					ND	
124 Acetaldehyde TIC	1		0.000					ND	
131 1-Chlorohexane	55		0.000					ND	
128 1,1-Dichloroacetone TIC	43		4.690					ND	
S 101 1,2-Dichloroethene, Total	1		0.000					ND	
S 100 Xylenes, Total	1		0.000					ND	
S 102 1,3-Dichloropropene, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

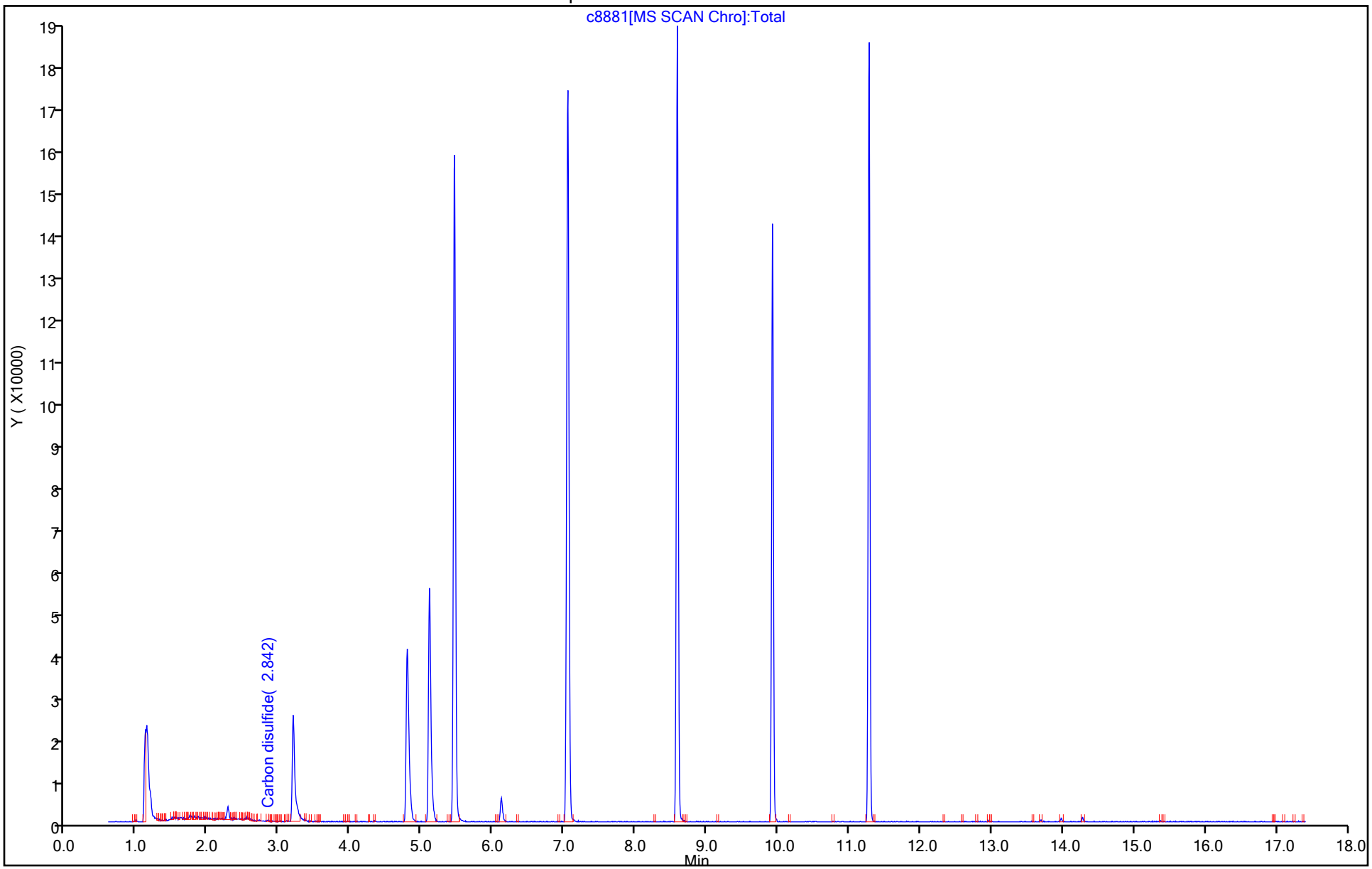
Reagents:

VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Dec-2020 08:01:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8881.D				
Injection Date:	01-Dec-2020 06:29:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	mb			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8881.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 01-Dec-2020 06:29:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-008
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 07:27:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.7	105.42
$ 6 Toluene-d8 (Surr)	50.0	52.1	104.19
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.1	96.27

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

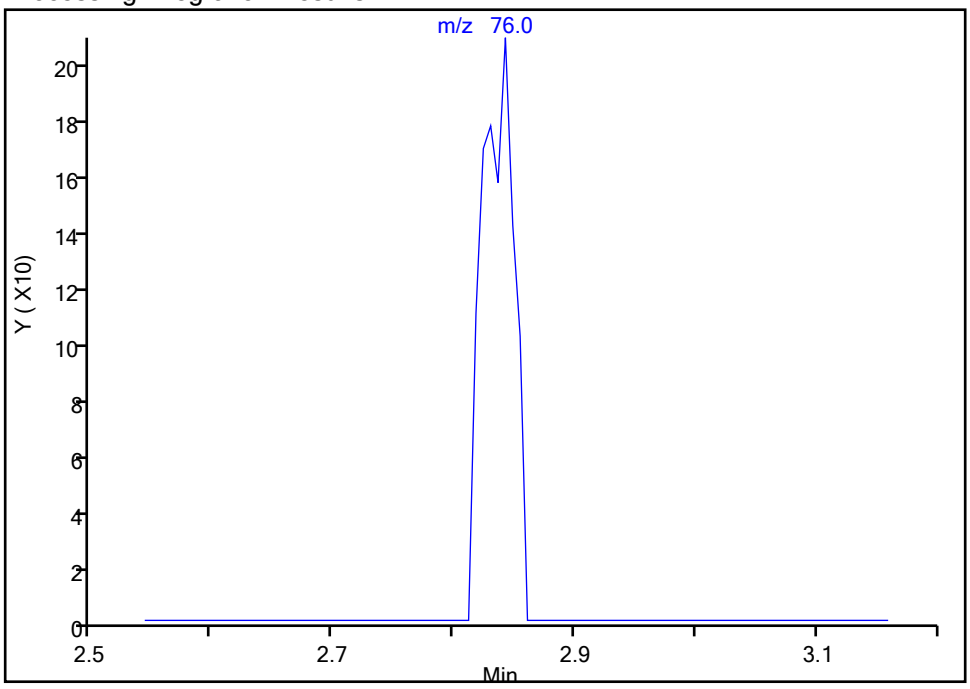
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8881.D
Injection Date: 01-Dec-2020 06:29:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

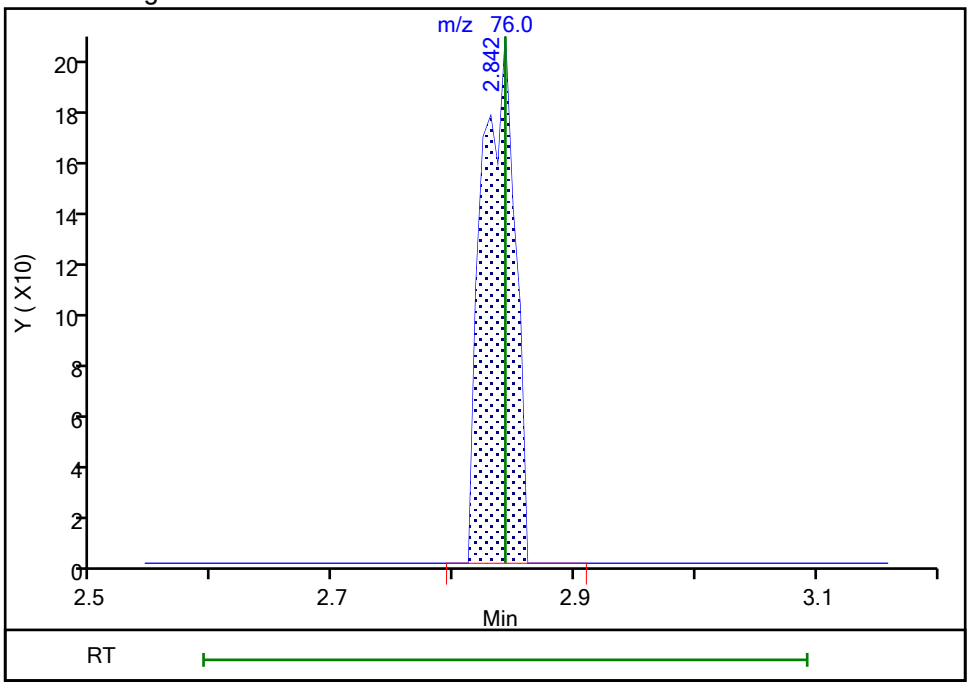
Not Detected
Expected RT: 2.84

Processing Integration Results



Manual Integration Results

RT: 2.84
Area: 383
Amount: 0.086472
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 07:27:05
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

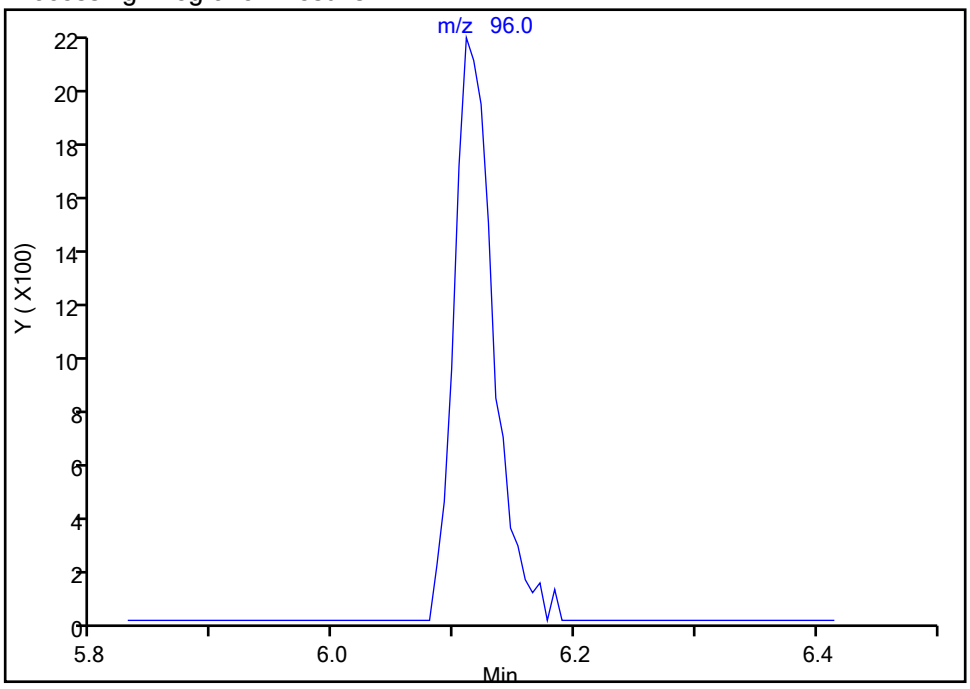
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8881.D
Injection Date: 01-Dec-2020 06:29:30 Instrument ID: Calvin
Lims ID: mb
Client ID:
Operator ID: sjn ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

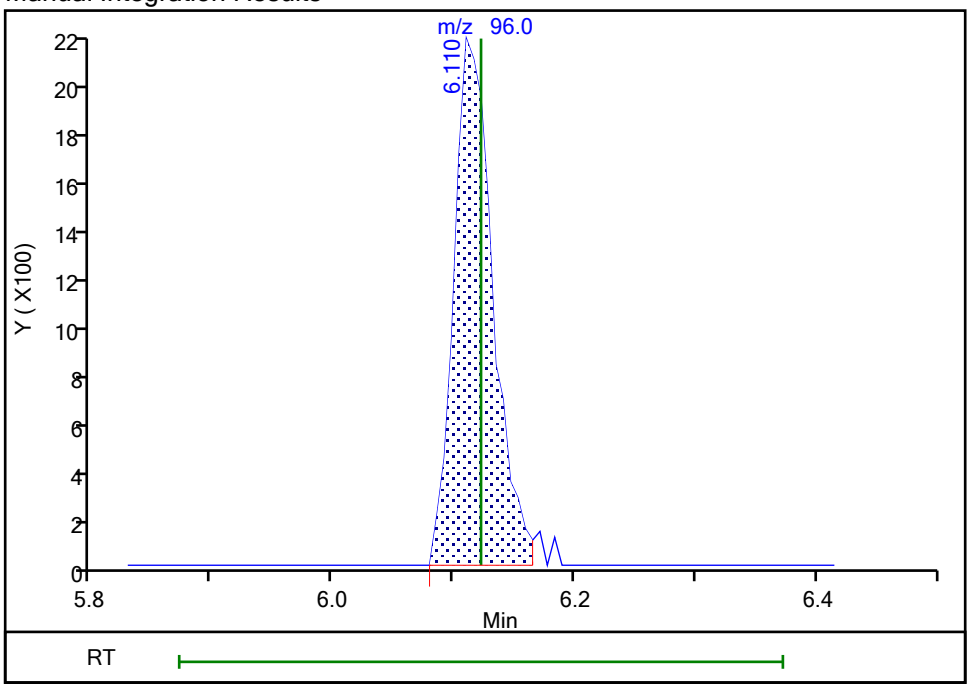
Not Detected
Expected RT: 6.12

Processing Integration Results



RT: 6.11
Area: 4818
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: nelsonsa, 01-Dec-2020 07:26:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-300750/6

Matrix: Water Lab File ID: c8879.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 05:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.8		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.0	0.13
79-00-5	1,1,2-Trichloroethane	20.3		1.0	0.22
75-34-3	1,1-Dichloroethane	19.5		1.0	0.22
75-35-4	1,1-Dichloroethene	18.4		1.0	0.56
107-06-2	1,2-Dichloroethane	22.2		1.0	0.39
78-87-5	1,2-Dichloropropane	19.6		1.0	0.27
591-78-6	2-Hexanone	39.9		10	2.0
67-64-1	Acetone	37.3		10	3.1
71-43-2	Benzene	18.9		1.0	0.22
75-25-2	Bromoform	15.8		1.0	0.78
75-15-0	Carbon disulfide	18.4		1.0	0.45
56-23-5	Carbon tetrachloride	19.0		1.0	0.65
108-90-7	Chlorobenzene	19.5		1.0	0.40
67-66-3	Chloroform	19.1		1.0	1.3
156-59-2	cis-1,2-Dichloroethene	18.6		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	19.6		1.0	0.20
75-27-4	Dichlorobromomethane	20.1		1.0	0.39
100-41-4	Ethylbenzene	20.8		1.0	0.31
78-93-3	2-Butanone (MEK)	39.6		10	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	41.4		10	2.1
75-09-2	Methylene Chloride	16.9		5.0	0.78
100-42-5	Styrene	19.0		1.0	0.37
127-18-4	Tetrachloroethene	17.5		1.0	0.48
108-88-3	Toluene	18.6		1.0	0.43
156-60-5	trans-1,2-Dichloroethene	19.1		1.0	0.27
10061-02-6	trans-1,3-Dichloropropene	17.0		1.0	0.22
79-01-6	Trichloroethene	19.4		1.0	0.43
1330-20-7	Xylenes, Total	40.5		2.0	0.40
124-48-1	Chlorodibromomethane	18.0		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-300750/6

Matrix: Water Lab File ID: c8879.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 05:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	104		79-120
1868-53-7	Dibromofluoromethane (Surr)	107		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8879.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 01-Dec-2020 05:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:31:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65	3.336	3.397	-0.061	0	124	1000.0	1000.0	
* 122 Fluorobenzene	96	5.458	5.458	0.000	97	154989	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.110	6.122	-0.012	96	5300	1000.0	1000.0	a
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	88	110846	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	75	52201	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.799	4.793	0.006	92	37179	50.0	53.5	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	148018	50.0	52.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.926	9.926	0.000	85	41575	50.0	48.7	
17 Ethanol	45	2.367	2.373	-0.006	100	11392	800.0	845.2	a
18 Ethyl ether	59	2.483	2.477	0.006	94	23181	20.0	17.7	M
19 Acrolein	56	2.556	2.562	-0.006	97	19976	95.3	100.2	
20 1,1-Dichloroethene	96	2.653	2.666	-0.013	94	29312	20.0	18.4	
21 112TCTFE	101	2.690	2.696	-0.006	94	35093	20.0	22.2	
22 Acetone	43	2.708	2.714	-0.006	88	15960	40.0	37.3	
23 Iodomethane	142	2.775	2.775	0.000	98	21581	20.0	14.8	M
24 Carbon disulfide	76	2.836	2.842	-0.006	100	87070	20.0	18.4	
105 Isopropyl alcohol	45	2.885	2.885	0.000	94	15228	200.0	208.5	M
118 Acetonitrile	40	2.964	2.964	0.000	98	24979	200.0	166.9	M
25 3-Chloro-1-propene	76	3.007	3.007	0.000	85	18743	20.0	18.2	
26 Methyl acetate	43	3.038	3.037	0.001	99	38944	40.0	35.6	
27 Methylene Chloride	84	3.111	3.111	0.000	98	31858	20.0	16.9	
35 2-Methyl-2-propanol	59	3.269	3.269	0.000	93	16986	200.0	164.3	
30 Acrylonitrile	53	3.342	3.348	-0.006	99	105726	200.0	188.9	
28 trans-1,2-Dichloroethene	96	3.391	3.397	-0.006	87	34780	20.0	19.1	
29 Methyl tert-butyl ether	73	3.403	3.409	-0.006	99	77264	20.0	18.3	
31 Hexane	57	3.708	3.708	0.000	96	53424	20.0	21.7	
32 1,1-Dichloroethane	63	3.781	3.787	-0.006	98	66466	20.0	19.5	
33 Vinyl acetate	86	3.848	3.854	-0.006	97	11969	40.0	35.4	
34 2-Chloro-1,3-butadiene	53	3.879	3.885	-0.006	96	70440	20.0	21.4	
36 Isopropyl ether	87	3.915	3.909	0.006	95	32289	20.0	19.4	
37 Tert-butyl ethyl ether	59	4.239	4.245	-0.006	97	99182	20.0	18.6	
39 cis-1,2-Dichloroethene	96	4.330	4.336	-0.006	88	38692	20.0	18.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	4.330	4.336	-0.006	75	48029	20.0	17.8	
40 2-Butanone (MEK)	43	4.348	4.354	-0.006	99	25682	40.0	39.6	
41 Propionitrile	54	4.391	4.397	-0.006	99	42123	200.0	189.3	
104 Ethyl acetate	61	4.434	4.427	0.007	99	8453	40.0	33.2	
43 Methacrylonitrile	67	4.543	4.549	-0.006	94	128854	200.0	195.2	
42 Chlorobromomethane	128	4.549	4.549	0.000	43	15764	20.0	18.1	
44 Tetrahydrofuran	71	4.610	4.604	0.006	82	5288	40.0	34.2	
45 Chloroform	83	4.647	4.647	0.000	96	68229	20.0	19.1	
46 1,1,1-Trichloroethane	97	4.812	4.811	0.001	97	57842	20.0	19.8	
47 Cyclohexane	56	4.866	4.872	-0.006	95	72134	20.0	20.7	
48 Carbon tetrachloride	117	4.970	4.976	-0.006	95	47969	20.0	19.0	
49 1,1-Dichloropropene	75	4.976	4.982	-0.006	90	54337	20.0	19.8	
108 Isobutyl alcohol	43	5.122	5.122	0.000	92	23361	500.0	423.2	
50 Benzene	78	5.177	5.177	0.000	98	151587	20.0	18.9	
51 1,2-Dichloroethane	62	5.177	5.183	-0.006	56	56251	20.0	22.2	
116 n-Butanol	56	5.305	5.299	0.006	58	42200	500.0	542.1	
52 Tert-amyl methyl ether	73	5.311	5.311	0.000	94	82511	20.0	17.2	
53 n-Heptane	43	5.476	5.476	0.000	92	53259	20.0	21.4	
54 Trichloroethene	95	5.805	5.811	-0.006	95	39700	20.0	19.4	
117 Ethyl acrylate	55	5.939	5.939	0.000	99	36752	20.0	19.0	
114 Methylcyclohexane	83	6.013	6.012	0.001	87	64073	20.0	19.1	
55 1,2-Dichloropropane	63	6.019	6.019	0.000	83	38343	20.0	19.6	
56 Dibromomethane	93	6.122	6.128	-0.006	93	20462	20.0	19.7	
115 1,4-Dioxane	58	6.159	6.159	0.000	33	4823	400.0	0	
57 Methyl methacrylate	69	6.171	6.165	0.006	92	43167	40.0	38.8	
58 Dichlorobromomethane	83	6.293	6.293	0.000	97	47422	20.0	20.1	
106 2-Nitropropane	43	6.525	6.525	0.000	100	13031	40.0	38.0	
59 2-Chloroethyl vinyl ether	63	6.628	6.622	0.006	95	21766	20.0	20.1	
60 cis-1,3-Dichloropropene	75	6.756	6.756	0.000	90	55401	20.0	19.6	
61 4-Methyl-2-pentanone (MIBK)	43	6.939	6.933	0.006	99	61847	40.0	41.4	
62 Toluene	92	7.116	7.116	0.000	97	101332	20.0	18.6	
63 trans-1,3-Dichloropropene	75	7.342	7.341	0.001	98	45971	20.0	17.0	
64 Ethyl methacrylate	69	7.463	7.463	0.000	90	38499	20.0	18.1	
65 1,1,2-Trichloroethane	83	7.531	7.530	0.001	95	26438	20.0	20.3	
66 Tetrachloroethene	166	7.689	7.689	0.000	92	39277	20.0	17.5	
67 1,3-Dichloropropane	76	7.707	7.707	0.000	95	56219	20.0	20.2	
68 2-Hexanone	43	7.823	7.817	0.006	98	38977	40.0	39.9	
69 Chlorodibromomethane	129	7.945	7.945	0.000	90	31197	20.0	18.0	
109 n-Butyl acetate	43	7.976	7.975	0.001	98	49730	20.0	19.4	
70 Ethylene Dibromide	107	8.061	8.061	0.000	97	30012	20.0	18.7	
71 Chlorobenzene	112	8.616	8.616	0.000	89	108150	20.0	19.5	
72 1,1,1,2-Tetrachloroethane	131	8.713	8.713	0.000	91	35108	20.0	19.5	
73 Ethylbenzene	91	8.756	8.750	0.006	99	201923	20.0	20.8	
74 m-Xylene & p-Xylene	106	8.890	8.890	0.000	98	78287	20.0	20.7	
75 o-Xylene	106	9.329	9.329	0.000	96	71423	20.0	19.8	
76 Styrene	104	9.347	9.347	0.000	94	113429	20.0	19.0	
77 Bromoform	173	9.530	9.530	0.000	91	15260	20.0	15.8	
78 Isopropylbenzene	105	9.762	9.762	0.000	97	186529	20.0	19.9	
79 Bromobenzene	156	10.085	10.085	0.000	98	41419	20.0	18.2	
80 1,1,2,2-Tetrachloroethane	83	10.103	10.103	0.000	95	36462	20.0	20.9	
81 1,2,3-Trichloropropane	110	10.140	10.140	0.000	89	11349	20.0	19.4	
82 trans-1,4-Dichloro-2-butene	53	10.170	10.170	0.000	67	9718	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 N-Propylbenzene	91	10.243	10.243	0.000	99	225796	20.0	20.9	
84 2-Chlorotoluene	91	10.323	10.323	0.000	95	130439	20.0	20.6	
85 4-Chlorotoluene	91	10.451	10.451	0.000	99	154008	20.0	20.7	
86 1,3,5-Trimethylbenzene	105	10.457	10.457	0.000	96	151688	20.0	20.3	
87 tert-Butylbenzene	119	10.835	10.835	0.000	93	125945	20.0	19.4	
88 1,2,4-Trimethylbenzene	105	10.890	10.890	0.000	98	155590	20.0	20.2	
89 sec-Butylbenzene	105	11.091	11.097	-0.006	95	188571	20.0	20.4	
90 1,3-Dichlorobenzene	146	11.201	11.200	0.001	96	78091	20.0	19.3	
91 4-Isopropyltoluene	119	11.280	11.280	0.000	94	151949	20.0	19.6	
92 1,4-Dichlorobenzene	146	11.304	11.304	0.000	92	80563	20.0	19.4	
110 1,2,3-Trimethylbenzene	105	11.383	11.383	0.000	99	147067	20.0	19.9	
113 Benzyl chloride	126	11.475	11.475	0.000	99	7702	20.0	11.5	
93 1,2-Dichlorobenzene	146	11.743	11.743	0.000	95	72128	20.0	18.5	
94 n-Butylbenzene	91	11.768	11.767	0.001	98	139547	20.0	20.4	
95 1,2-Dibromo-3-Chloropropane	75	12.676	12.676	0.000	69	4898	20.0	19.7	
96 1,2,4-Trichlorobenzene	180	12.950	12.944	0.006	93	39585	20.0	16.6	
112 1,3,5-Trichlorobenzene	180	13.694	13.694	0.000	94	30908	20.0	15.5	
97 Hexachlorobutadiene	225	13.926	13.926	0.000	95	18031	20.0	18.6	
98 Naphthalene	128	13.981	13.974	0.006	98	63820	20.0	14.7	
99 1,2,3-Trichlorobenzene	180	14.279	14.279	0.000	93	22739	20.0	14.3	
132 t-Amyl alcohol	1		0.000				ND	ND	
133 Isooctane	57		0.000				ND	ND	
131 1-Chlorohexane	55		0.000				ND	ND	
S 101 1,2-Dichloroethene, Total	1				0		40.0	37.7	
S 100 Xylenes, Total	1				0		40.0	40.5	
S 102 1,3-Dichloropropene, Total	1				0		40.0	36.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

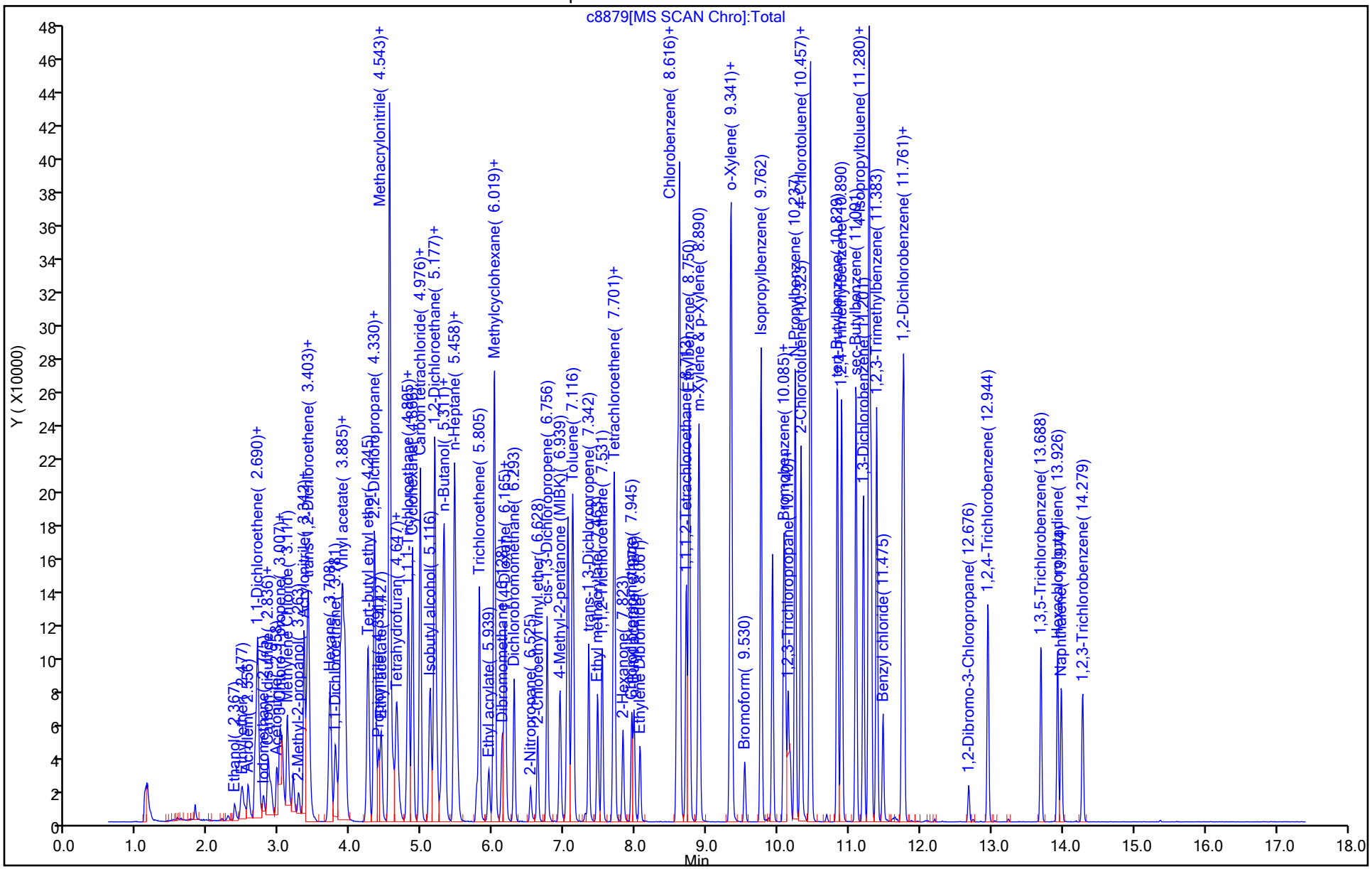
Reagents:

VV_I_MOSOL_00220	Amount Added:	8.00	Units: uL	
VV_M_ISSTD_00331	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Dec-2020 08:01:29 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File:	\\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8879.D				
Injection Date:	01-Dec-2020 05:40:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8879.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 01-Dec-2020 05:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-006
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:31:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	53.5	107.05
$ 6 Toluene-d8 (Surr)	50.0	52.1	104.17
$ 7 4-Bromofluorobenzene (Surr)	50.0	48.7	97.36

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

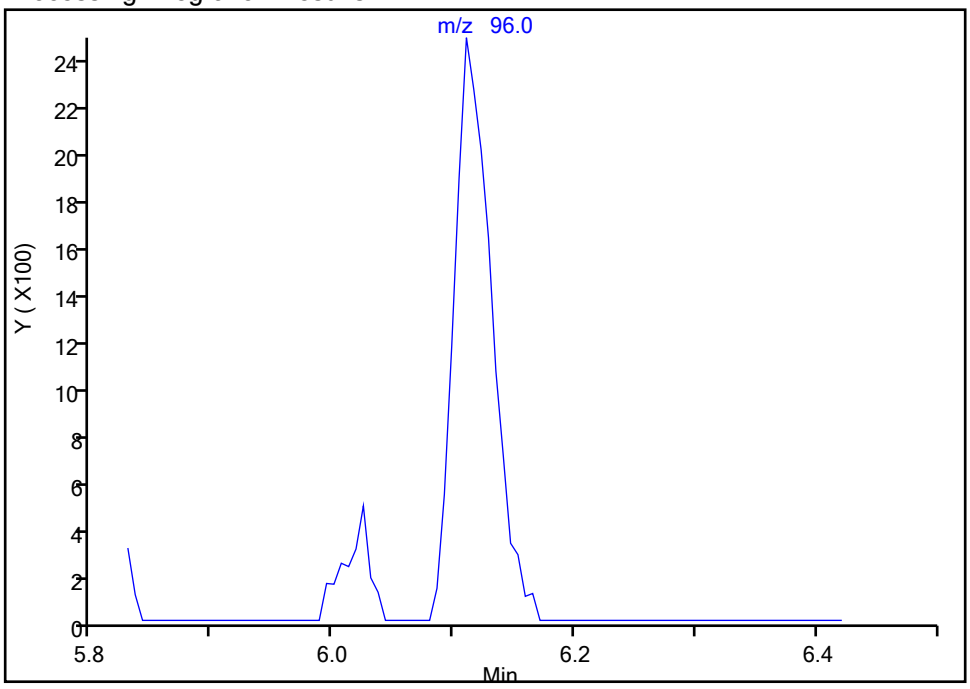
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8879.D
Injection Date: 01-Dec-2020 05:40:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

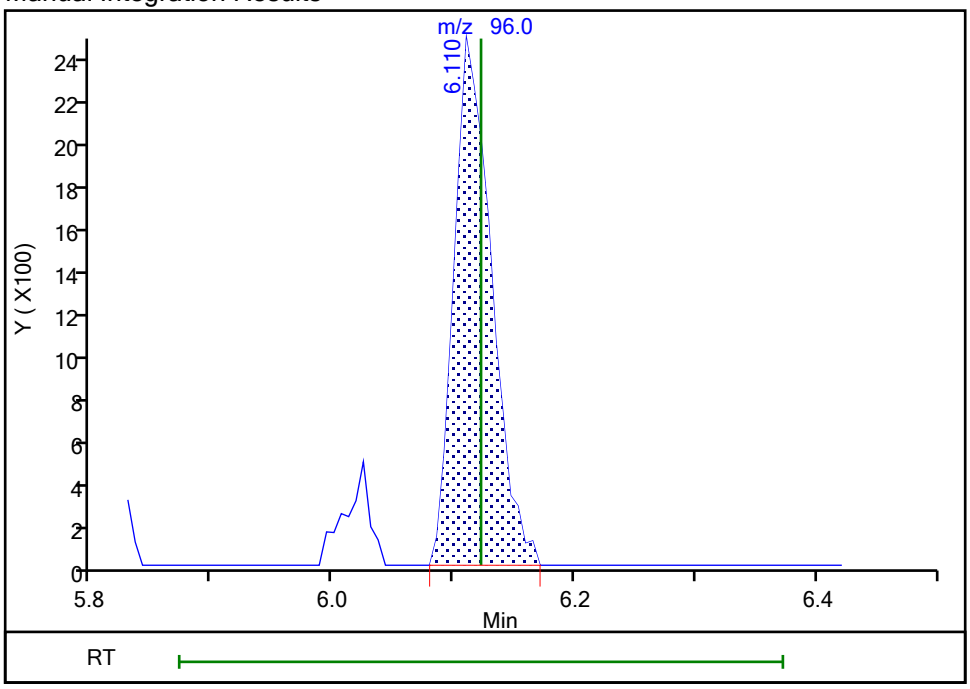
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 5300
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 06:49:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 310-300750/7

Matrix: Water Lab File ID: c8880.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2020 06:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 300750 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	9.10		1.0	0.82
75-00-3	Chloroethane	10.6		1.0	0.79
74-87-3	Chloromethane	11.4		1.0	0.61
75-01-4	Vinyl chloride	10.5		1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	102		79-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120

Eurofins TestAmerica, Cedar Falls
Target Compound Quantitation Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 01-Dec-2020 06:04:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:45:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 135 TBA-d9 (IS)	65		3.397				1000.0	ND	
* 122 Fluorobenzene	96	5.458	5.458	0.000	98	149261	50.0	50.0	
* 121 1,4-Dioxane-d8	96	6.116	6.122	-0.006	74	4743	1000.0	1000.0	M
* 3 Chlorobenzene-d5	117	8.585	8.585	0.000	90	108692	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	11.280	11.274	0.006	98	48869	50.0	50.0	
$ 5 Dibromofluoromethane (Surr)	113	4.793	4.793	0.000	91	35176	50.0	52.6	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	95	142167	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.920	9.926	-0.006	84	37597	50.0	47.0	
9 Dichlorodifluoromethane	85	1.300	1.288	0.012	98	34784	10.0	11.4	M
10 Chloromethane	50	1.532	1.526	0.006	34	25705	10.0	11.4	M
11 Vinyl chloride	62	1.544	1.532	0.012	97	28936	10.0	10.5	M
12 Butadiene	54	1.580	1.568	0.012	95	27892	10.0	10.0	M
13 Bromomethane	94	1.830	1.837	-0.007	93	6809	10.0	9.10	M
14 Chloroethane	64	1.922	1.916	0.006	99	16884	10.0	10.6	M
15 Dichlorofluoromethane	67	2.117	2.117	0.000	97	40840	10.0	10.7	M
16 Trichlorofluoromethane	101	2.178	2.166	0.012	98	39014	10.0	10.7	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

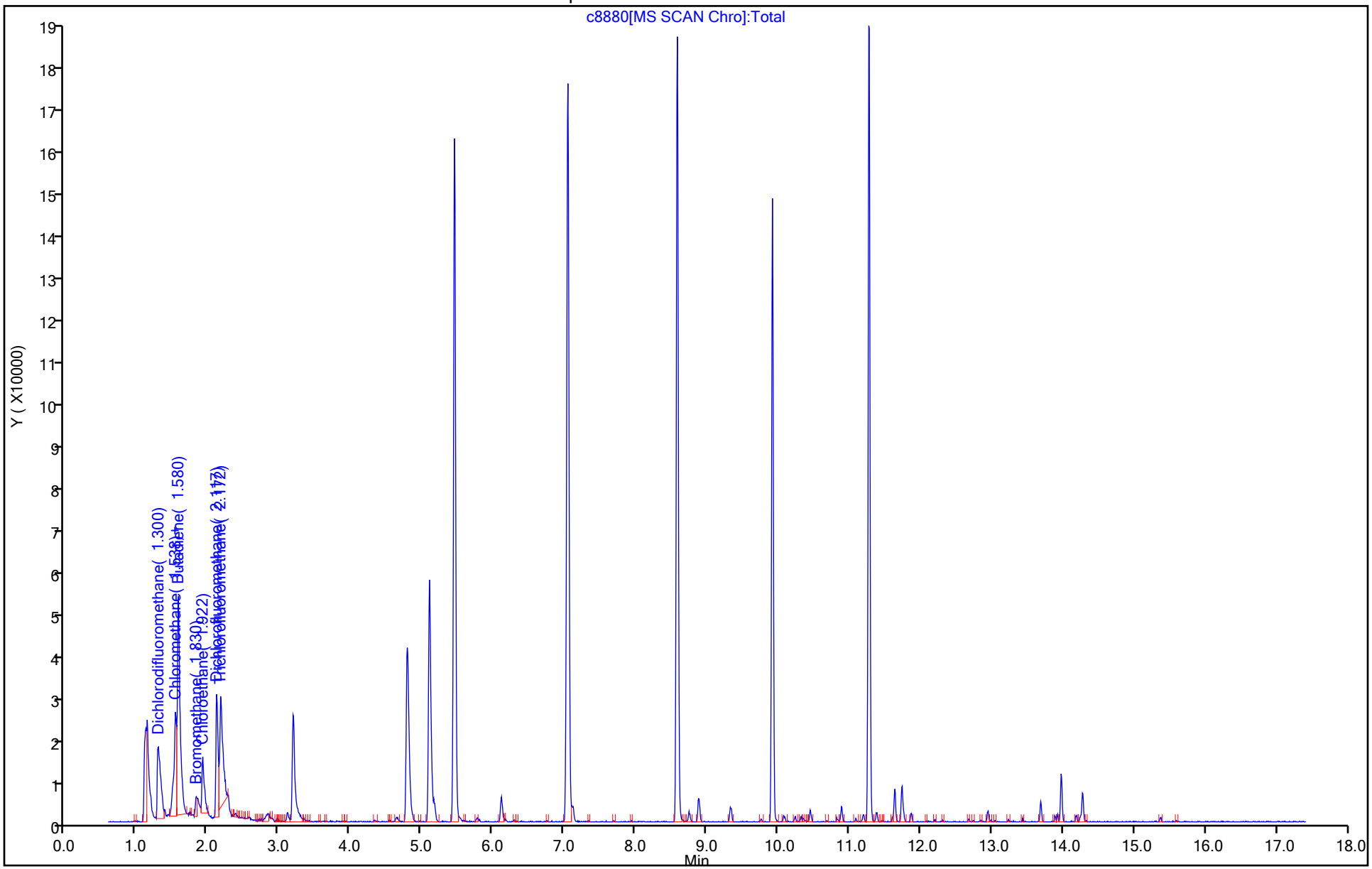
VV_I_GASES_00416 Amount Added: 4.00 Units: uL
VV_M_ISSTD_00331 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Dec-2020 08:01:39 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Cedar Falls

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D

Injection Date:	01-Dec-2020 06:04:30	Instrument ID:	Calvin	Operator ID:	sjn
Lims ID:	lcs			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	CVOA8260NEW	Limit Group:	MSV 8260D ICAL		



Eurofins TestAmerica, Cedar Falls
Recovery Report

Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 01-Dec-2020 06:04:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 310-0062915-007
Operator ID: sjn Instrument ID: Calvin

Method: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\CVOA8260NEW.m
Limit Group: MSV 8260D ICAL
Last Update: 01-Dec-2020 08:01:22 Calib Date: 14-Oct-2020 09:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\CedarFalls\ChromData\Calvin\20201013-61899.b\c5915.D

Column 1 : Det: MS SCAN
Process Host: CTX1641

First Level Reviewer: nelsonsa Date: 01-Dec-2020 06:45:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 Dibromofluoromethane (Surr)	50.0	52.6	105.17
$ 6 Toluene-d8 (Surr)	50.0	51.0	102.03
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.0	94.05

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

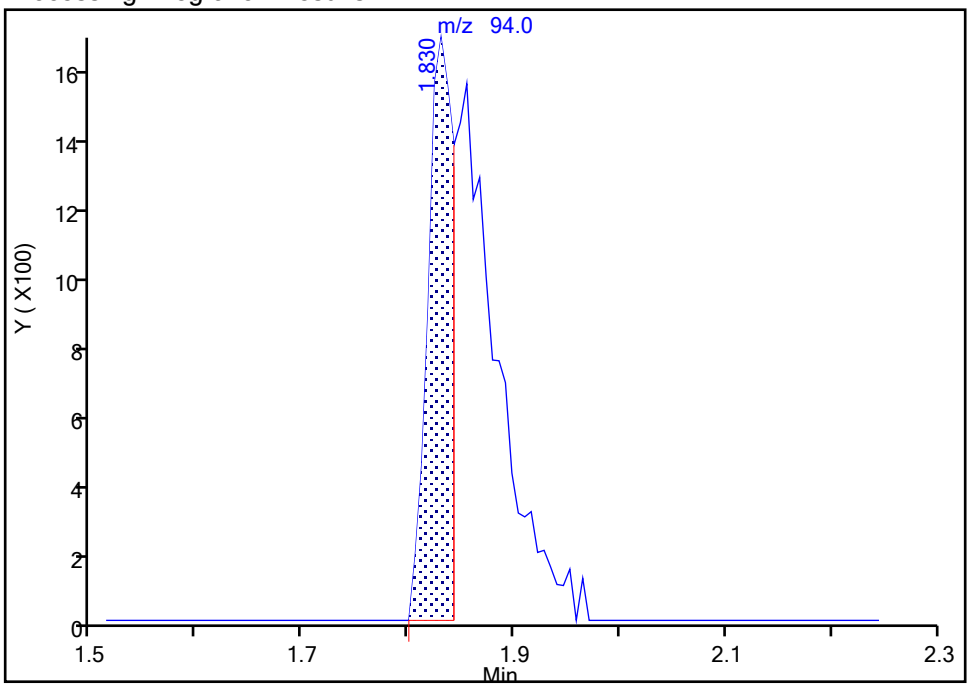
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Injection Date: 01-Dec-2020 06:04:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Signal: 1

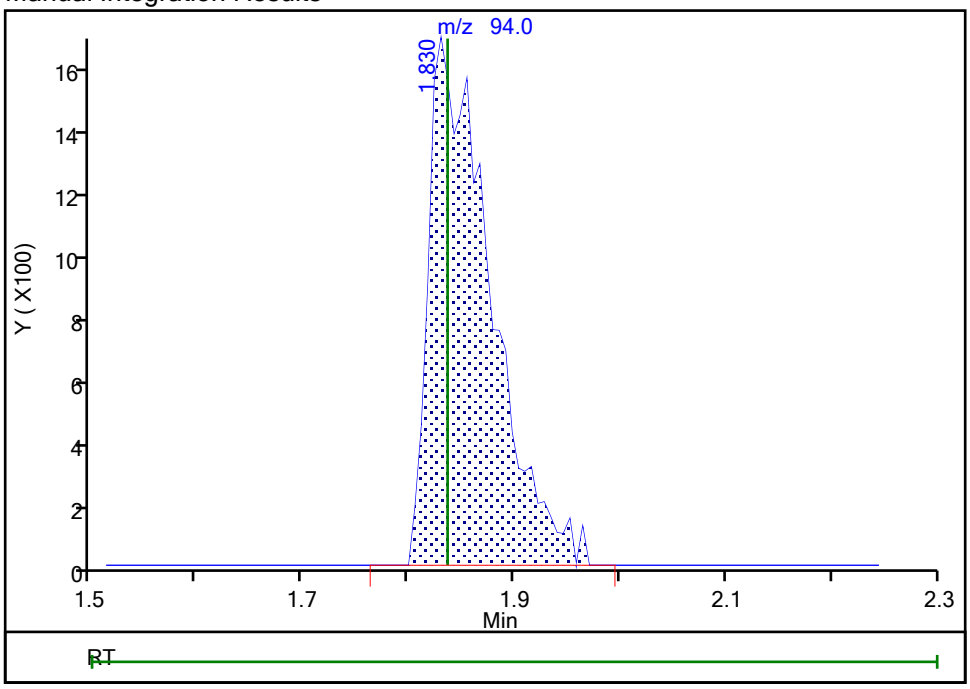
Processing Integration Results

RT: 1.83
Area: 2796
Amount: 4.006265
Amount Units: ug/l



Manual Integration Results

RT: 1.83
Area: 6809
Amount: 9.104100
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 06:31:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

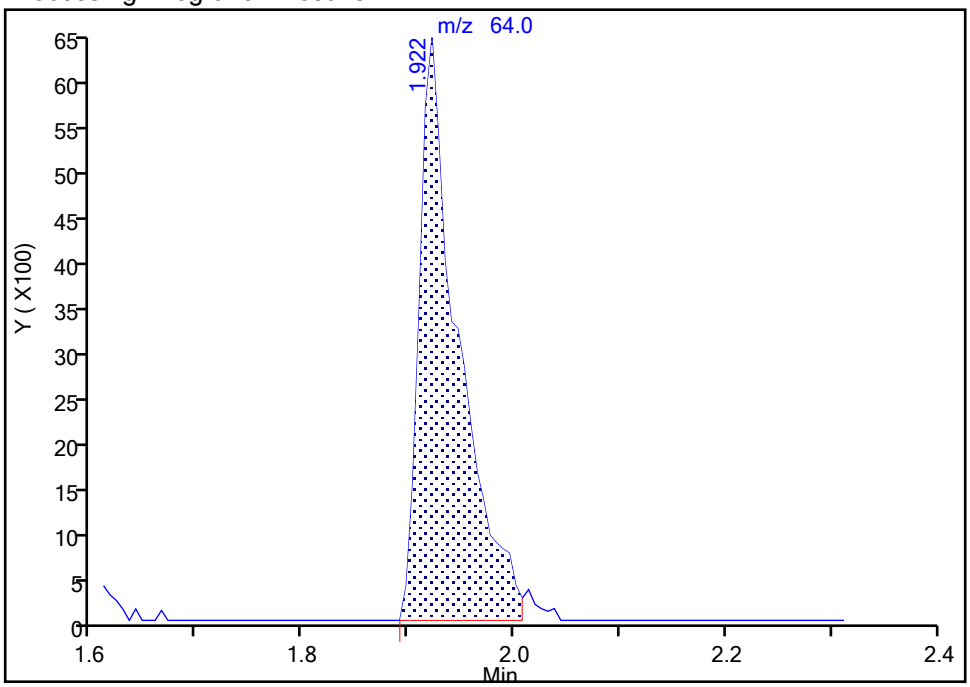
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Injection Date: 01-Dec-2020 06:04:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

14 Chloroethane, CAS: 75-00-3

Signal: 1

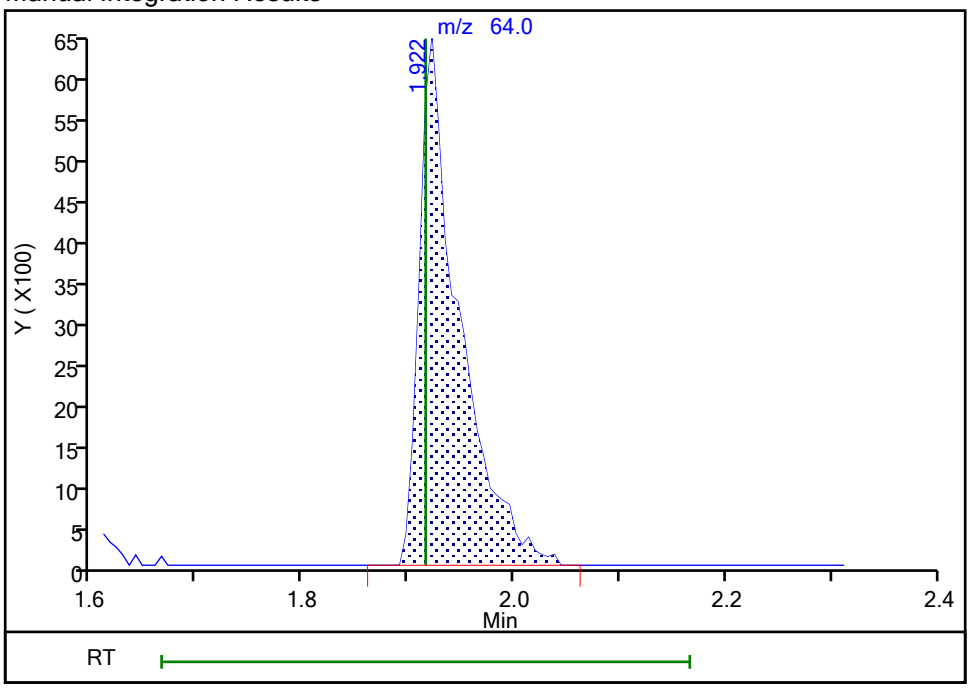
Processing Integration Results

RT: 1.92
Area: 16560
Amount: 10.407257
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 16884
Amount: 10.610877
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 07:25:34
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

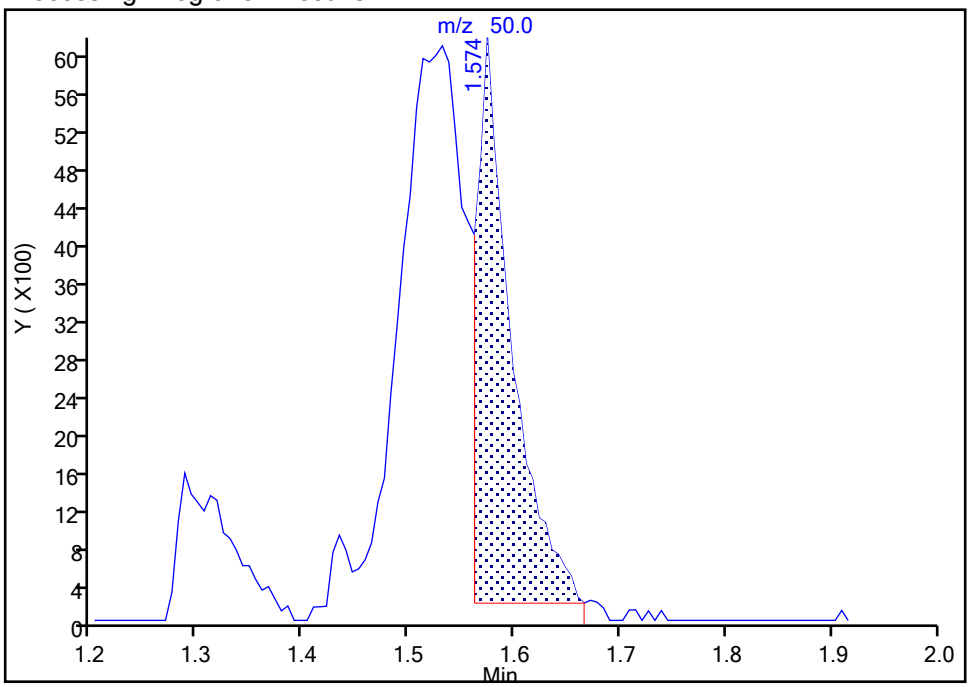
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Injection Date: 01-Dec-2020 06:04:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

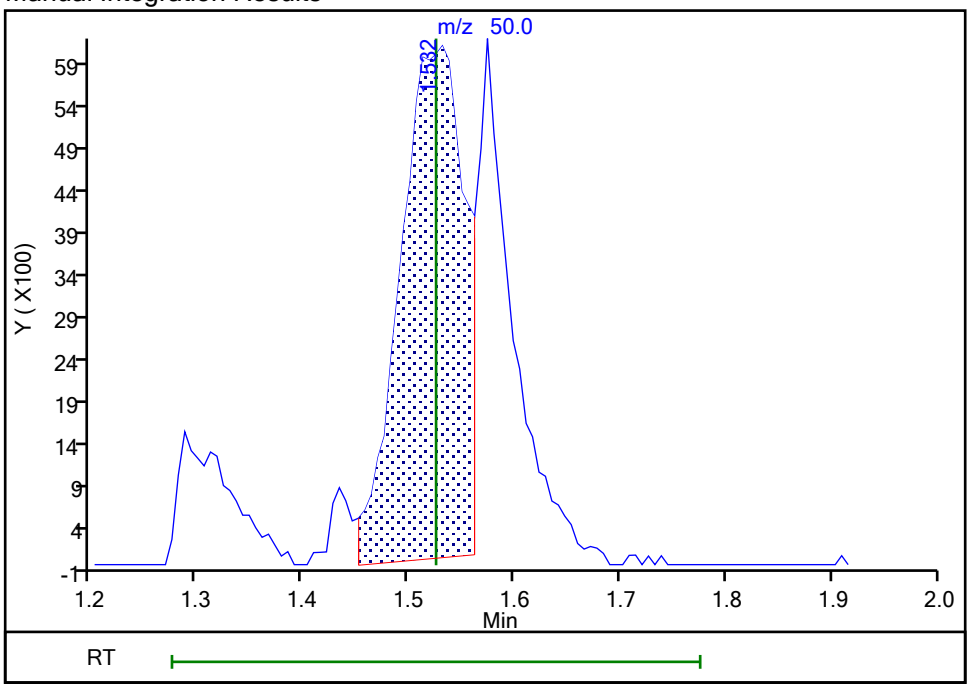
Processing Integration Results

RT: 1.57
Area: 13681
Amount: 6.080986
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 25705
Amount: 11.425462
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 06:31:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

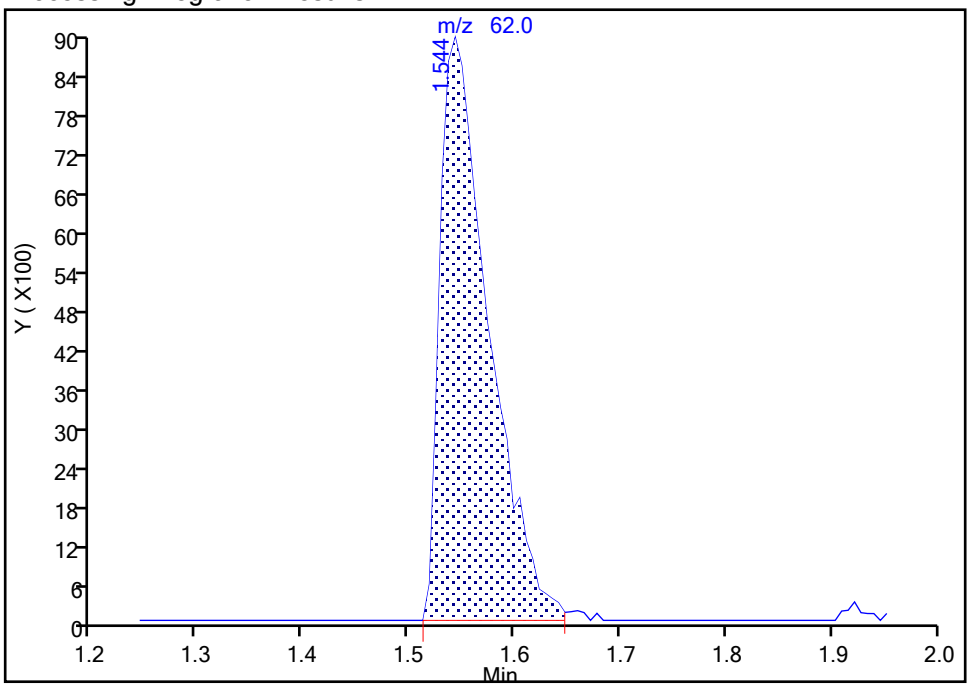
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Injection Date: 01-Dec-2020 06:04:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

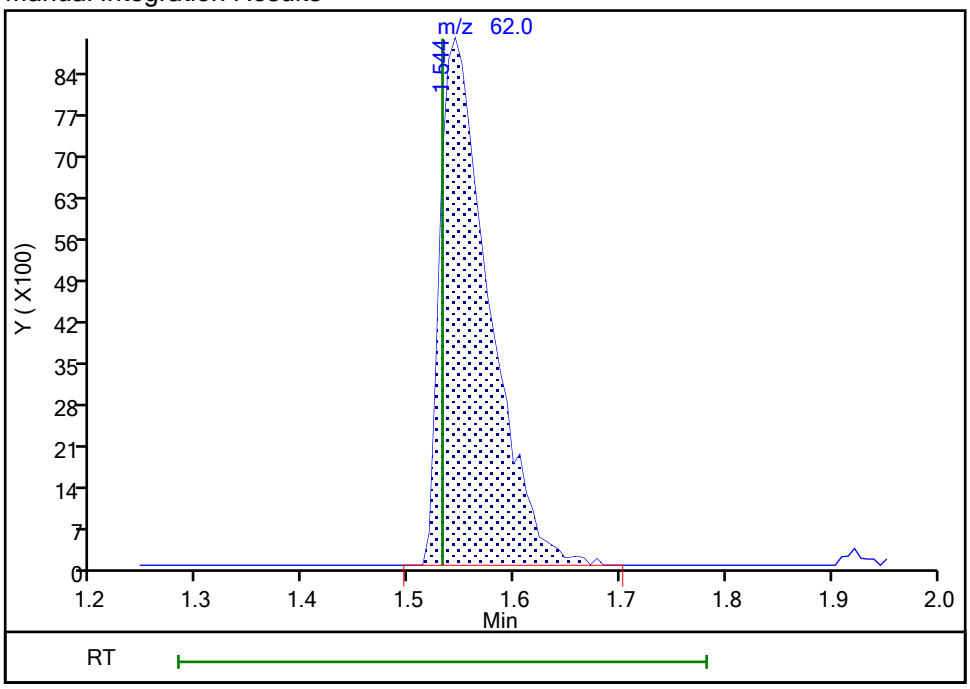
Processing Integration Results

RT: 1.54
Area: 28749
Amount: 10.452298
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 28936
Amount: 10.520286
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 07:25:46
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Cedar Falls

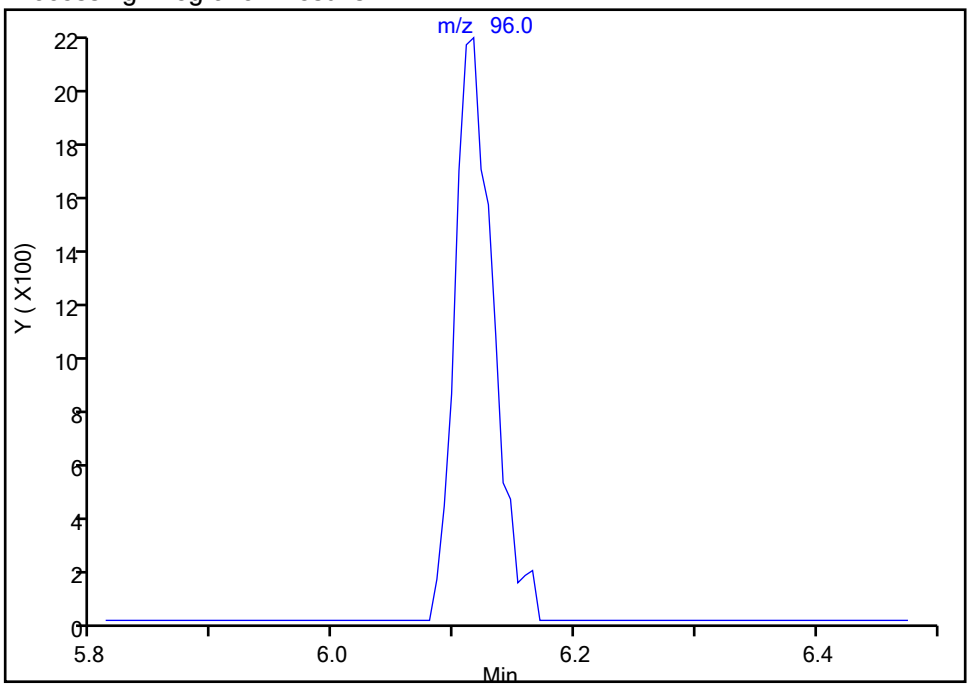
Data File: \\chromfs\CedarFalls\ChromData\Calvin\20201130-62915.b\c8880.D
Injection Date: 01-Dec-2020 06:04:30 Instrument ID: Calvin
Lims ID: lcs
Client ID:
Operator ID: sjn ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: CVOA8260NEW Limit Group: MSV 8260D ICAL
Column: Detector MS SCAN

* 121 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

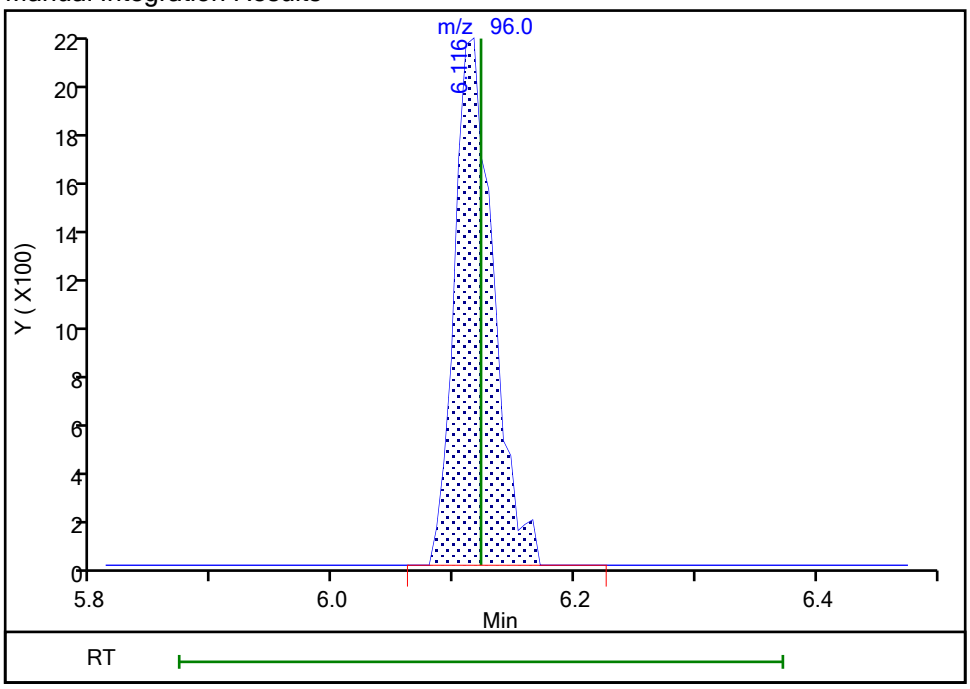
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 4743
Amount: 1000.0000
Amount Units: ug/l



Reviewer: nelsonsa, 01-Dec-2020 07:26:02
Audit Action: Manually Integrated Audit Reason: Split Peak

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Start Date: 10/01/2020 15:15

Analysis Batch Number: 293913 End Date: 10/02/2020 06:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 310-293913/1		10/01/2020 15:15	1		DB-624 0.18(mm)
BFB 310-293913/2		10/01/2020 15:39	1		DB-624 0.18(mm)
STD1 310-293913/3 IC		10/01/2020 16:04	1		DB-624 0.18(mm)
STD2 310-293913/4 IC		10/01/2020 16:28	1		DB-624 0.18(mm)
STD3 310-293913/5 IC		10/01/2020 16:52	1		DB-624 0.18(mm)
STD4 310-293913/6 IC		10/01/2020 17:17	1		DB-624 0.18(mm)
STD5 310-293913/7 IC		10/01/2020 17:41	1		DB-624 0.18(mm)
STD6 310-293913/8 IC		10/01/2020 18:05	1		DB-624 0.18(mm)
STD7 310-293913/9 IC		10/01/2020 18:30	1		DB-624 0.18(mm)
ICIS 310-293913/10		10/01/2020 18:54	1		DB-624 0.18(mm)
STD9 310-293913/11 IC		10/01/2020 19:19	1		DB-624 0.18(mm)
STD10 310-293913/12 IC		10/01/2020 19:43	1		DB-624 0.18(mm)
STD11 310-293913/13 IC		10/01/2020 20:07	1		DB-624 0.18(mm)
STD12 310-293913/14 IC		10/01/2020 20:32	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 20:56	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 21:20	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 21:44	1		DB-624 0.18(mm)
ICV 310-293913/18		10/01/2020 22:08	1		DB-624 0.18(mm)
ICV 310-293913/19		10/01/2020 22:33	1		DB-624 0.18(mm)
ZZZZZ		10/01/2020 22:57	1		DB-624 0.18(mm)
BFB 310-293913/22		10/01/2020 23:21	1		DB-624 0.18(mm)
BFB 310-293913/23		10/01/2020 23:45	1	c5281.D	DB-624 0.18(mm)
STD1 310-293913/24 IC		10/02/2020 00:09	1	c5282.D	DB-624 0.18(mm)
STD2 310-293913/25 IC		10/02/2020 00:33	1	c5283.D	DB-624 0.18(mm)
STD3 310-293913/26 IC		10/02/2020 00:57	1	c5284.D	DB-624 0.18(mm)
STD4 310-293913/27 IC		10/02/2020 01:21	1	c5285.D	DB-624 0.18(mm)
STD5 310-293913/28 IC		10/02/2020 01:45	1	c5286.D	DB-624 0.18(mm)
STD6 310-293913/29 IC		10/02/2020 02:09	1	c5287.D	DB-624 0.18(mm)
STD7 310-293913/30 IC		10/02/2020 02:33	1	c5288.D	DB-624 0.18(mm)
STD8 310-293913/31 IC		10/02/2020 02:57	1	c5289.D	DB-624 0.18(mm)
STD9 310-293913/32 IC		10/02/2020 03:21	1	c5290.D	DB-624 0.18(mm)
STD10 310-293913/33 IC		10/02/2020 03:45	1	c5291.D	DB-624 0.18(mm)
STD11 310-293913/34 IC		10/02/2020 04:09	1	c5292.D	DB-624 0.18(mm)
STD12 310-293913/35 IC		10/02/2020 04:33	1	c5293.D	DB-624 0.18(mm)
ZZZZZ		10/02/2020 04:57	1		DB-624 0.18(mm)
ZZZZZ		10/02/2020 05:21	1		DB-624 0.18(mm)
ZZZZZ		10/02/2020 05:45	1		DB-624 0.18(mm)
ICV 310-293913/39		10/02/2020 06:09	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Start Date: 10/13/2020 07:27

Analysis Batch Number: 295162 End Date: 10/14/2020 11:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 310-295162/1		10/13/2020 07:27	1		DB-624 0.18(mm)
BFB 310-295162/2		10/13/2020 07:51	1	c5864.D	DB-624 0.18(mm)
STD1 310-295162/3 IC		10/13/2020 08:16	1	c5865.D	DB-624 0.18(mm)
STD2 310-295162/4 IC		10/13/2020 08:40	1	c5866.D	DB-624 0.18(mm)
STD3 310-295162/5 IC		10/13/2020 09:05	1	c5867.D	DB-624 0.18(mm)
STD4 310-295162/6 IC		10/13/2020 09:29	1	c5868.D	DB-624 0.18(mm)
STD5 310-295162/7 IC		10/13/2020 09:53	1	c5869.D	DB-624 0.18(mm)
STD6 310-295162/8 IC		10/13/2020 10:17	1	c5870.D	DB-624 0.18(mm)
STD7 310-295162/9 IC		10/13/2020 10:42	1	c5871.D	DB-624 0.18(mm)
ICIS 310-295162/10		10/13/2020 11:06	1	c5872.D	DB-624 0.18(mm)
STD9 310-295162/11 IC		10/13/2020 11:30	1	c5873.D	DB-624 0.18(mm)
STD10 310-295162/12 IC		10/13/2020 11:55	1	c5874.D	DB-624 0.18(mm)
STD11 310-295162/13 IC		10/13/2020 12:19	1	c5875.D	DB-624 0.18(mm)
STD12 310-295162/14 IC		10/13/2020 12:43	1	c5876.D	DB-624 0.18(mm)
ZZZZZ		10/13/2020 13:07	1		DB-624 0.18(mm)
ZZZZZ		10/13/2020 13:32	1		DB-624 0.18(mm)
ZZZZZ		10/13/2020 13:56	1		DB-624 0.18(mm)
ICV 310-295162/18		10/13/2020 14:20	1	c5880.D	DB-624 0.18(mm)
ICV 310-295162/19		10/13/2020 14:44	1	c5881.D	DB-624 0.18(mm)
ZZZZZ		10/13/2020 15:08	1		DB-624 0.18(mm)
BFB 310-295162/21		10/14/2020 03:53	1		DB-624 0.18(mm)
BFB 310-295162/22		10/14/2020 04:17	1	c5902.D	DB-624 0.18(mm)
STD1 310-295162/23 IC		10/14/2020 04:42	1	c5903.D	DB-624 0.18(mm)
STD2 310-295162/24 IC		10/14/2020 05:06	1	c5904.D	DB-624 0.18(mm)
STD3 310-295162/25 IC		10/14/2020 05:31	1	c5905.D	DB-624 0.18(mm)
STD4 310-295162/26 IC		10/14/2020 05:55	1	c5906.D	DB-624 0.18(mm)
STD5 310-295162/27 IC		10/14/2020 06:19	1	c5907.D	DB-624 0.18(mm)
STD6 310-295162/28 IC		10/14/2020 06:44	1	c5908.D	DB-624 0.18(mm)
ICV 310-295162/47		10/14/2020 07:09	1	c5909.D	DB-624 0.18(mm)
STD7 310-295162/29 IC		10/14/2020 07:41	1	c5910.D	DB-624 0.18(mm)
STD8 310-295162/30 IC		10/14/2020 08:05	1	c5911.D	DB-624 0.18(mm)
STD9 310-295162/31 IC		10/14/2020 08:30	1	c5912.D	DB-624 0.18(mm)
STD10 310-295162/32 IC		10/14/2020 08:54	1	c5913.D	DB-624 0.18(mm)
STD11 310-295162/33 IC		10/14/2020 09:19	1	c5914.D	DB-624 0.18(mm)
STD12 310-295162/34 IC		10/14/2020 09:44	1	c5915.D	DB-624 0.18(mm)
ZZZZZ		10/14/2020 10:08	1		DB-624 0.18(mm)
ZZZZZ		10/14/2020 10:33	1		DB-624 0.18(mm)
ZZZZZ		10/14/2020 10:57	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Start Date: 10/13/2020 07:27

Analysis Batch Number: 295162 End Date: 10/14/2020 11:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 310-295162/38		10/14/2020 11:22	1	c5919.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Cedar Falls Job No.: 240-140882-1

SDG No.:

Instrument ID: Calvin Start Date: 12/01/2020 03:41

Analysis Batch Number: 300750 End Date: 12/01/2020 15:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/01/2020 03:41	1		DB-624 0.18(mm)
BFB 310-300750/2		12/01/2020 04:04	1		DB-624 0.18(mm)
BFB 310-300750/3		12/01/2020 04:28	1	c8876.D	DB-624 0.18(mm)
CCV 310-300750/4		12/01/2020 04:52	1	c8877.D	DB-624 0.18(mm)
CCV 310-300750/5		12/01/2020 05:16	1	c8878.D	DB-624 0.18(mm)
LCS 310-300750/6		12/01/2020 05:40	1	c8879.D	DB-624 0.18(mm)
LCS 310-300750/7		12/01/2020 06:04	1	c8880.D	DB-624 0.18(mm)
MB 310-300750/8		12/01/2020 06:29	1	c8881.D	DB-624 0.18(mm)
ZZZZZ		12/01/2020 07:17	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 07:41	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 08:06	1		DB-624 0.18(mm)
240-140882-2	TB-112320-BE-005	12/01/2020 08:30	1	c8886.D	DB-624 0.18(mm)
ZZZZZ		12/01/2020 08:54	1		DB-624 0.18(mm)
240-140882-1	GW-112320-BE-044	12/01/2020 09:18	1	c8888.D	DB-624 0.18(mm)
ZZZZZ		12/01/2020 09:42	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 10:07	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 10:31	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 10:55	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 11:19	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 11:44	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 12:08	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 12:32	1		DB-624 0.18(mm)
ZZZZZ		12/01/2020 12:56	10		DB-624 0.18(mm)
ZZZZZ		12/01/2020 13:21	100		DB-624 0.18(mm)
ZZZZZ		12/01/2020 13:45	100		DB-624 0.18(mm)
ZZZZZ		12/01/2020 14:09	100		DB-624 0.18(mm)
ZZZZZ		12/01/2020 14:33	10		DB-624 0.18(mm)
ZZZZZ		12/01/2020 14:57	100		DB-624 0.18(mm)
ZZZZZ		12/01/2020 15:22	100		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140882-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_ACRO ICV 00030	VV_I_ACRO ICV 00031	VV_I_GASES 00409	VV_I_ICVGAS 00275
BFB 310-295162/2		8260D		5 mL	5 mL				
STD1 310-295162/3 IC		8260D		5 mL	5 mL				
STD2 310-295162/4 IC		8260D		5 mL	5 mL				
STD3 310-295162/5 IC		8260D		5 mL	5 mL				
STD4 310-295162/6 IC		8260D		5 mL	5 mL				
STD5 310-295162/7 IC		8260D		5 mL	5 mL				
STD6 310-295162/8 IC		8260D		5 mL	5 mL				
STD7 310-295162/9 IC		8260D		5 mL	5 mL				
ICIS 310-295162/10		8260D		5 mL	5 mL				
STD9 310-295162/11 IC		8260D		5 mL	5 mL				
STD10 310-295162/12 IC		8260D		5 mL	5 mL				
STD11 310-295162/13 IC		8260D		5 mL	5 mL				
STD12 310-295162/14 IC		8260D		5 mL	5 mL				
ICV 310-295162/18		8260D		5 mL	5 mL	50 uL			
ICV 310-295162/19		8260D		5 mL	5 mL				
BFB 310-295162/22		8260D		5 mL	5 mL				
STD1 310-295162/23 IC		8260D		5 mL	5 mL			0.5 uL	
STD2 310-295162/24 IC		8260D		5 mL	5 mL			1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140882-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VV_I_ACRO ICV 00030	VV_I_ACRO ICV 00031	VV_I_GASES 00409	VV_I_ICVGAS 00275
STD3 310-295162/25 IC		8260D		5 mL	5 mL			2 uL	
STD4 310-295162/26 IC		8260D		5 mL	5 mL			4 uL	
STD5 310-295162/27 IC		8260D		5 mL	5 mL			10 uL	
STD6 310-295162/28 IC		8260D		5 mL	5 mL			20 uL	
STD7 310-295162/29 IC		8260D		5 mL	5 mL			50 uL	
STD8 310-295162/30 IC		8260D		5 mL	5 mL			100 uL	
STD9 310-295162/31 IC		8260D		5 mL	5 mL			150 uL	
STD10 310-295162/32 IC		8260D		5 mL	5 mL			200 uL	
STD11 310-295162/33 IC		8260D		5 mL	5 mL			250 uL	
STD12 310-295162/34 IC		8260D		5 mL	5 mL			500 uL	
ICV 310-295162/38		8260D		5 mL	5 mL				10 uL
ICV 310-295162/47		8260D		5 mL	5 mL		10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_ICVSOL 00052	VV_I_MOSOL 00217	VV_I_VA ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010
BFB 310-295162/2		8260D						1 uL	1 uL
STD1 310-295162/3 IC		8260D			0.5 uL		1 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140882-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_ICVSOL 00052	VV_I_MOSOL 00217	VV_I_VA_ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010
STD2 310-295162/4 IC		8260D			1 uL		1 uL		
STD3 310-295162/5 IC		8260D			2 uL		1 uL		
STD4 310-295162/6 IC		8260D			5 uL		1 uL		
STD5 310-295162/7 IC		8260D			10 uL		1 uL		
STD6 310-295162/8 IC		8260D			20 uL		1 uL		
STD7 310-295162/9 IC		8260D			50 uL		1 uL		
ICIS 310-295162/10		8260D			100 uL		1 uL		
STD9 310-295162/11 IC		8260D			150 uL		1 uL		
STD10 310-295162/12 IC		8260D			200 uL		1 uL		
STD11 310-295162/13 IC		8260D			250 uL		1 uL		
STD12 310-295162/14 IC		8260D			500 uL		1 uL		
ICV 310-295162/18		8260D		50 uL				1 uL	
ICV 310-295162/19		8260D				10 uL		1 uL	
BFB 310-295162/22		8260D						1 uL	1 uL
STD1 310-295162/23 IC		8260D						1 uL	
STD2 310-295162/24 IC		8260D						1 uL	
STD3 310-295162/25 IC		8260D						1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140882-1

SDG No.:

Batch Number: 295162 Batch Start Date: 10/13/20 07:27 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_I_ICVSOL 00052	VV_I_MOSOL 00217	VV_I_VA_ICV U 00013	VV_M_ISSTD 00250	VV_M_ISSTD 00331	VV_M_TUN 00010
STD4 310-295162/26 IC		8260D						1 uL	
STD5 310-295162/27 IC		8260D						1 uL	
STD6 310-295162/28 IC		8260D						1 uL	
STD7 310-295162/29 IC		8260D						1 uL	
STD8 310-295162/30 IC		8260D						1 uL	
STD9 310-295162/31 IC		8260D						1 uL	
STD10 310-295162/32 IC		8260D						1 uL	
STD11 310-295162/33 IC		8260D						1 uL	
STD12 310-295162/34 IC		8260D						1 uL	
ICV 310-295162/38		8260D						1 uL	
ICV 310-295162/47		8260D						1 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Cedar Fa Job No.: 240-140882-1

SDG No.:

Batch Number: 300750 Batch Start Date: 12/01/20 03:41 Batch Analyst: Nelson, Sarah J

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VV_I_GASES 00416	VV_I_MOSOL 00220	VV_M_ISSTD 00331
BFB 310-300750/3		8260D		5 mL	5 mL				1 uL
CCV 310-300750/4		8260D		5 mL	5 mL			20 uL	1 uL
CCV 310-300750/5		8260D		5 mL	5 mL		8 uL		1 uL
LCS 310-300750/6		8260D		5 mL	5 mL			8 uL	1 uL
LCS 310-300750/7		8260D		5 mL	5 mL		4 uL		1 uL
MB 310-300750/8		8260D		5 mL	5 mL				1 uL
240-140882-A-2	TB-112320-BE-005	8260D	T	5 mL	5 mL	<2 SU			1 uL
240-140882-A-1	GW-112320-BE-044	8260D	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VV_M_TUN 00010					
BFB 310-300750/3		8260D		1 uL					
CCV 310-300750/4		8260D		1 uL					
CCV 310-300750/5		8260D		1 uL					
LCS 310-300750/6		8260D							
LCS 310-300750/7		8260D							
MB 310-300750/8		8260D							
240-140882-A-2	TB-112320-BE-005	8260D	T						
240-140882-A-1	GW-112320-BE-044	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

2.1/3.0

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Client Information	Sampler: Brynn Eiselen	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-76065-30482.4
Client Contact: Ms. Ruth Mickle	Phone:	E-Mail: Denise.Heckler@Eurofinset.com		Page: ~~Page 1 of 6~~ 1 of 1
Company: GHD Services Inc.		Analysis Requested		Job #:
Address: 26850 Haggerty Rd.	Due Date Requested:			Preservation Codes:
City: Farmington Hills	TAT Requested (days): 14 days / standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MI, 48331				
Phone:	PO #: Purchase Order Requested			Other:
Email: ruth.mickle@ghd.com	WO #: 11209506			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
GW-112320-BE-044	11/23/20	1224	G	Water			X	3	
TB-112320-BE-005	11/23/20	1330	G	Water			X	1	
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

240-140882 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brynn Eiselen	11/23/20 1530	GHD		11-24-20 1030	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 140882**
Canton Facility

Client GHD Site Name _____ Cooler unpacked by: Matt Smyer

Cooler Received on 11-24-20 Opened on 11-24-20

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF +0.9 °C) Observed Cooler Temp. 2.1 °C Corrected Cooler Temp. 3.0 °C
   IR GUN #IR-12 (CF +0.5°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were the seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
   -Were tamper/custody seals intact and uncompromised? (Yes) No NA
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Yes) No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? (Y)
10. Were correct bottle(s) used for the test(s) indicated? (Yes) No
11. Sufficient quantity received to perform indicated analyses? (Yes) No
12. Are these work share samples and all listed on the COC? Yes (No)
    If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC907861**
14. Were VOAs on the COC? (Yes) No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes (No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 59072 (Yes) No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

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240-140882 Chain of Custody

Cooler/Sample Receipt and Temperature Log

Client Information

Client: ETA Canton

City/State: CITY N. Canton STATE OH Project: MLK

Receipt Information

Date/Time Received: DATE 11.28.20 TIME 905 Received By: BM

Delivery Type: ☐ UPS ☑ FedEx Sat ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☑ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☑ Yes	☐ No	*If yes:* Which VOA samples are in cooler? ↓

all

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: N Correction Factor (°C): +0.0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.4 Corrected Temp (°C): 3.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-128884.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@Eurofinset.com	State of Origin: Indiana	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 240-140882-1
Address: 3019 Venture Way, ,	Due Date Requested: 12/8/2020			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: 11209506, MLK - Anderson, IN	Project #: 24007143			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL/5030B (MOD) 8260B, VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GW-112320-BE-044 (240-140882-1)	11/23/20	12:24 Eastern		Water			X	3	
TB-112320-BE-005 (240-140882-2)	11/23/20	13:30 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11-27-20 1030	DHL	[signature]	11/28/20 905	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-140882-1

Login Number: 140882
List Number: 2
Creator: Marzen, Brita K

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 11/28/20 11:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B
Data Quality Assessment and Validation Reports

Memorandum

December 11, 2020

To:	Rob Catallo	Ref. No.:	11209506-T07
From:	Ruth Mickle/lg/1	Tel:	612-524-6802

Subject: **Analytical Results and Reduced Validation**
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

1. Introduction

This document details a reduced validation of analytical results for surface water and groundwater samples collected in support of the Surface Water and Site-Wide Groundwater Monitoring at the MLK Boulevard Facility in Anderson, Indiana during November 2020. Samples were submitted to Eurofins TestAmerica, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the documents entitled:

i). "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997

ii). "National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-2016-002, September 2016

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criterion for the analysis is summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

With one exception, the method blank results were non-detect. Table 4 presents the cis-1,2-dichloroethene detection in one blank and the associated results that were qualified non-detect.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the method employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest. Several LCS recoveries were reported outside the control limits. In most cases, no data qualification was required since the recoveries were high biased and the associated sample data were non-detect. A low biased recovery was reported for carbon disulfide in one

LCS sample. The associated sample results were all non-detect and were qualified estimated, as noted in Table 5.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The MS/MSD samples were spiked with all compounds of interest.

Most percent recoveries and RPD values were within the laboratory control limits criteria, demonstrating acceptable analytical accuracy and precision. Table 6 presents the outlying spike recoveries for 1,1-dichloroethene in sample GW-110920-BE-028. The associated sample detection was qualified estimated, as noted in the table.

7. Field QA/QC Samples

The field QA/QC consisted of 4 trip blank samples, 1 equipment rinse blank sample, and 5 field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, trip blanks were submitted to the laboratory for VOC analysis. With one exception, the trip blank results were non-detect or yielded low level concentrations that did not result in qualification of data. Table 7 lists the cis-1,2-dichloroethene trip blank detection that resulted in qualification. The associated sample results were qualified non-detect, as noted in the table.

Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, an equipment rinse blank was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of low concentration of carbon disulfide. All associated results were non-detect and were not impacted by the potential contamination.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, field duplicate samples sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value for water.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters VOCs	Comments
Eurofins TA SDG: 240-139669-1						
GW-110320-SS-001	MW-2	water	11/03/2020	11:18	X	
GW-110320-BE-002	MW-7	water	11/03/2020	11:25	X	
GW-110320-SS-003	MW97R-16	water	11/03/2020	12:28	X	
GW-110320-BE-004	MW 57	water	11/03/2020	12:59	X	
GW-110320-SS-005	MW 56	water	11/03/2020	13:58	X	
GW-110320-BE-006	MW 58	water	11/03/2020	14:12	X	
GW-110320-SS-007	MW-4	water	11/03/2020	15:23	X	
GW-110320-BE-008	MW 58	water	11/03/2020	14:20	X	FD (GW-110320-BE-006)
GW-110320-BE-009	MW 85	water	11/03/2020	16:04	X	
GW-110420-BE-010	MW 12	water	11/04/2020	10:29	X	
GW-110420-BE-011	MW 37	water	11/04/2020	11:33	X	
GW-110420-BE-012	MW 88	water	11/04/2020	13:38	X	
GW-110420-BE-013	MW 86	water	11/04/2020	15:21	X	
GW-110520-BE-014	MW 46	water	11/05/2020	10:00	X	
GW-110520-BE-015	MW 49	water	11/05/2020	11:11	X	MS/MSD
GW-110520-BE-016	MW89-11	water	11/05/2020	12:33	X	
GW-110520-BE-017	MW92-13	water	11/05/2020	14:09	X	
EB-110520-BE-001	Equipment Blank	water	11/05/2020	14:27	X	Equipment Blank
GW-110520-BE-018	MW 28	water	11/05/2020	16:05	X	
TB-110520-BE-002	Trip Blank	water	11/05/2020	--	X	Trip Blank

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters VOCs	Comments
Eurofins TA SDG: 240-139671-1						
SW-110320-BE-001	Pond Culvert 1	water	11/03/2020	16:08	X	
SW-110320-BE-002	Pond Culvert 1	water	11/03/2020	16:12	X	FD (SW-110320-BE-001), MS/MSD
SW-110320-BE-003	Pond Intake	water	11/03/2020	16:20	X	
TB-110320-BE-001	Trip Blank	water	11/03/2020	--	X	Trip Blank
Eurofins TA SDG: 240-140187-1						
GW-110620-BE-019	MW 66	water	11/06/2020	09:28	X	
GW-110620-BE-020	MW 64	water	11/06/2020	11:06	X	
GW-110620-BE-021	MW 64	water	11/06/2020	11:10	X	FD (GW-110620-BE-020)
GW-110620-BE-022	MW 80	water	11/06/2020	12:45	X	
GW-110620-BE-023	MW 65	water	11/06/2020	13:48	X	
GW-110620-BE-024	MW 81	water	11/06/2020	14:53	X	
GW-110920-BE-025	MW 79	water	11/09/2020	09:16	X	
GW-110920-BE-026	MW 14	water	11/09/2020	10:07	X	
GW-110920-BE-027	MW 84	water	11/09/2020	11:59	X	
GW-110920-BE-028	MW 41	water	11/09/2020	13:03	X	MS/MSD
GW-110920-BE-029	MW 42	water	11/09/2020	14:28	X	
GW-110920-BE-030	MW 61	water	11/09/2020	15:36	X	
GW-110920-BE-031	MW 61	water	11/09/2020	15:44	X	FD (GW-110920-BE-030)
GW-111020-BE-032	MW 82	water	11/10/2020	09:12	X	
GW-111020-BE-033	MW 16	water	11/10/2020	09:53	X	
GW-111120-BE-034	MW 83	water	11/11/2020	09:19	X	

Table 1

Sample Collection and Analysis Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters VOCs	Comments
GW-111120-BE-035	MW 21	water	11/11/2020	10:28	X	
GW-111120-BE-036	MW 8	water	11/11/2020	12:25	X	MS/MSD
GW-111120-BE-037	MW 76R-17	water	11/11/2020	14:57	X	
TB-111220-BE-003	Trip Blank	water	11/12/2020	09:00	X	Trip Blank
GW-111220-BE-038	MW 15	water	11/12/2020	09:50	X	
GW-111220-BE-039	MW 31R	water	11/12/2020	10:38	X	
GW-111220-BE-040	MW 3	water	11/12/2020	11:36	X	
GW-111220-BE-041	MW 68	water	11/12/2020	13:08	X	
GW-111220-BE-042	MW 68	water	11/12/2020	13:15	X	FD (GW-111220-BE-041)
GW-111220-BE-043	MW 40	water	11/12/2020	14:02	X	
Eurofins TA SDG: 240-140882-1						
GW-112320-BE-044	MW 75	water	11/23/2020	12:24	X	
TB-112320-BE-005	Trip Blank	water	11/23/2020	13:30	X	Trip Blank

Notes:
Eurofins TA - Eurofins TestAmerica
FD - Field Duplicate sample of sample in parenthesis
MS/MSD - Matrix Spike/Matrix Spike Duplicate
SDG - Sample Delivery Group
VOCs - Volatile Organic Compounds
"--" - Not applicable

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Location ID:		MW 3	MW 8	MW 12	MW 14	MW 15	MW 16	MW 21	MW 28	MW 31R
Sample Name:		GW-111220-BE-040	GW-111120-BE-036	GW-110420-BE-010	GW-110920-BE-026	GW-111220-BE-038	GW-111020-BE-033	GW-111120-BE-035	GW-110520-BE-018	GW-111220-BE-039
Sample Date:		11/12/2020	11/11/2020	11/04/2020	11/09/2020	11/12/2020	11/10/2020	11/11/2020	11/05/2020	11/12/2020
Parameters	**Unit**									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	280	6.7	2.5 U	14	430	0.46 J	1.0 U	67 U	62
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	67 U	0.79
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	2.5 U	0.50 U	0.30 J	0.50 U	0.50 U	67 U	0.49 J
1,1-Dichloroethane	µg/L	62	46	0.74 J	28	91	22	1.0 U	67 U	460
1,1-Dichloroethene	µg/L	15	14	2.5 U	31	29	47	2.0 U	67 U	48
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	2.5 U	1.0 U	1.1	1.0 U	1.0 U	67 U	2.6
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	25 U	10 U	10 U	10 U	10 U	670 U	10 U
2-Hexanone	µg/L	10 U	10 U	25 U	10 U	10 U	10 U	10 U	670 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	25 U	10 U	10 U	10 U	10 U	670 U	3.0 J
Acetone	µg/L	10 U	10 U	25 U	10 U	10 U	10 U	10 U	670 U	10 U
Benzene	µg/L	0.50 U	0.50 U	2.5 U	0.94	0.28 J	0.31 J	0.50 U	67 U	3.4
Bromodichloromethane	µg/L	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	1.0 U
Bromoform	µg/L	5.0 U	5.0 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	67 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	67 U	2.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	1.0 U
Carbon tetrachloride	µg/L	0.76 J	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	67 U	2.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	1.0 U
Chloroethane	µg/L	40 U	4.0 U	2.5 U	4.0 U	80 U	4.0 U	4.0 U	67 U	74 J
Chloroform (Trichloromethane)	µg/L	1.8 J	3.0 U	2.5 U	3.0 U	6.5	1.8 J	3.0 U	67 U	3.0 U
Chloromethane (Methyl chloride)	µg/L	3.0 U	3.0 U	2.5 U	3.0 U	3.0 U	3.0 U	3.0 U	67 U	34
cis-1,2-Dichloroethene	µg/L	630	2200	72	3000	1900	5600	1.0 U	1300	16000
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	67 U	0.50 U
Dibromochloromethane	µg/L	2.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	67 U	2.0 U
Ethylbenzene	µg/L	10 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	570
Methylene chloride	µg/L	1.0 U	1.0 U	13 U	1.0 U	1.0 U	1.0 U	1.0 U	330 U	5.6
Styrene	µg/L	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	1.0 U
Tetrachloroethene	µg/L	2.7	1.0 U	2.5 U	1.0 U	2.7	1.0 U	1.0 U	67 U	1.1
Toluene	µg/L	10 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	67 U	2400
trans-1,2-Dichloroethene	µg/L	12	18	0.89 J	24	27	81	1.0 U	25 J	53
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	67 U	0.50 U
Trichloroethene	µg/L	2100	160	0.28 J	1.0 U	2500	1.0 U	1.0 U	67 U	38 J
Vinyl chloride	µg/L	26	710	0.50 J	130	41	19	1.0 U	180	3500
Xylenes (total)	µg/L	30 U	3.0 U	5.0 U	3.0 U	3.0 U	3.0 U	3.0 U	130 U	2100

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Location ID:		MW 37	MW 40	MW 41	MW 42	MW 46	MW 49	MW 56	MW 57	MW 58
Sample Name:		GW-110420-BE-011	GW-111220-BE-043	GW-110920-BE-028	GW-110920-BE-029	GW-110520-BE-014	GW-110520-BE-015	GW-110320-SS-005	GW-110320-BE-004	GW-110320-BE-006
Sample Date:		11/04/2020	11/12/2020	11/09/2020	11/09/2020	11/05/2020	11/05/2020	11/03/2020	11/03/2020	11/03/2020
Parameters	**Unit**									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	1.0 U	33 U	1.0 U	50 U	140 U
1,1,2-Trichloroethane	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	1.0 U	33 U	1.0 U	50 U	140 U
1,1-Dichloroethane	µg/L	1.0 U	110	4.6	15	1.0 U	33 U	1.0 U	50 U	110 J
1,1-Dichloroethene	µg/L	1.0 U	23	20 J	23	1.0 U	33 U	1.0 U	50 U	140 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	330 U	10 U	500 U	1400 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	330 U	10 U	500 U	1400 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	330 U	10 U	500 U	1400 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	330 U	10 U	500 U	1400 U
Benzene	µg/L	1.0 U	4.9	0.67	0.61	1.0 U	33 U	1.0 U	50 U	140 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Bromoform	µg/L	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 UJ	50 U	140 UJ
Carbon tetrachloride	µg/L	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Chloroethane	µg/L	1.0 U	200 U	4.0 U	4.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Chloroform (Trichloromethane)	µg/L	1.0 U	3.0 U	3.0 U	3.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	3.0 U	3.0 U	3.0 U	1.0 U	33 U	1.0 U	50 U	140 U
cis-1,2-Dichloroethene	µg/L	1.0 U	3100	4200	2900	1.0 U	600	1.0 U	180	2900
cis-1,3-Dichloropropene	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	1.0 U	33 U	1.0 U	50 U	140 U
Dibromochloromethane	µg/L	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Methylene chloride	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	170 U	5.0 U	250 U	710 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	33 U	1.0 U	50 U	140 U
trans-1,2-Dichloroethene	µg/L	1.0 U	79	64	130	1.0 U	23 J	1.0 U	50 U	140
trans-1,3-Dichloropropene	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	1.0 U	33 U	1.0 U	50 U	140 U
Trichloroethene	µg/L	1.0 U	180	1.0 U	7.2	1.0 U	21 J	1.0 U	50 U	140 U
Vinyl chloride	µg/L	1.0 U	220	240	220	1.0 U	33 U	0.66 J	980	130 J
Xylenes (total)	µg/L	2.0 U	3.0 U	3.0 U	3.0 U	2.0 U	67 U	2.0 U	100 U	290 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Location ID: Sample Name: Sample Date:		MW 58 GW-110320-BE-008 11/03/2020 Duplicate	MW 61 GW-110920-BE-030 11/09/2020	MW 61 GW-110920-BE-031 11/09/2020 Duplicate	MW 64 GW-110620-BE-020 11/06/2020	MW 64 GW-110620-BE-021 11/06/2020 Duplicate	MW 65 GW-110620-BE-023 11/06/2020	MW 66 GW-110620-BE-019 11/06/2020	MW 68 GW-111220-BE-041 11/12/2020	MW 68 GW-111220-BE-042 11/12/2020 Duplicate
Parameters	**Unit**									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.96 J	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	140 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	140 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	110 J	1.0 U	1.0 U	13	13	0.54 J	75	130	140
1,1-Dichloroethene	µg/L	140 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.97 J	19	20
1,2-Dichloroethane	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1400 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	1400 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1400 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	1400 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	140 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	3.8	4.3
Bromodichloromethane	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	140 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	140 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	140 UJ	1.0 U	0.47 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	140 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	140 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	200 U	200 U
Chloroform (Trichloromethane)	µg/L	140 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Chloromethane (Methyl chloride)	µg/L	140 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
cis-1,2-Dichloroethene	µg/L	2900	1.0 U	1.0 U	310	320	8.2	2300	3000	3000
cis-1,3-Dichloropropene	µg/L	140 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	140 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	710 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	140	1.0 U	1.0 U	28	28	0.28 J	140	150	170
trans-1,3-Dichloropropene	µg/L	140 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	140 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1100	1200
Vinyl chloride	µg/L	120 J	0.77 J	1.1	42	42	0.49 J	18	220	230
Xylenes (total)	µg/L	290 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Location ID:		MW 75	MW 76R-17	MW 79	MW 80	MW 81	MW 82	MW 83
Sample Name:		GW-112320-BE-044	GW-111120-BE-037	GW-110920-BE-025	GW-110620-BE-022	GW-110620-BE-024	GW-111020-BE-032	GW-111120-BE-034
Sample Date:		11/23/2020	11/11/2020	11/09/2020	11/06/2020	11/06/2020	11/10/2020	11/11/2020
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	3.3	1.0 U	1.3	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	2.0 U	4.7	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	3.0 J	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	13	10 U
Benzene	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U
Carbon tetrachloride	µg/L	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	3.0 U	4.1	3.0 U	3.0 U	3.0 U	3.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	3.2	1500	13	57	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	µg/L	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	0.28 J	65	0.64 J	0.31 J	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.6	440	63	37	1.0 U	15
Xylenes (total)	µg/L	2.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ- Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
VOCs	SW-846 8260B	Water	-	14

Notes:

VOCs - Volatile Organic Compounds

Method Reference:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

"-" - Not applicable

Table 4

Qualified Sample Data Due to Analyte Concentrations in a Method Blank
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	cis-1,2-Dichloroethene	11/19/2020	0.350 J	GW-110920-BE-027	0.68 J	1.0 U	µg/L
				GW-110920-BE-030	0.32 J	1.0 U	µg/L
				GW-110920-BE-031	0.30 J	1.0 U	µg/L
				GW-111020-BE-032	0.87 J	1.0 U	µg/L

Notes:

* - Blank result adjusted for sample factors where applicable
VOCs - Volatile Organic Compounds
U - Not detected at the associated reporting limit
J - Estimated concentration

Table 5

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	Carbon disulfide	11/15/2020	65	67-127	GW-110320-BE-002	1.0 UJ	µg/L
					GW-110320-BE-006	140 UJ	µg/L
					GW-110320-BE-008	140 UJ	µg/L
					GW-110320-SS-001	1.0 UJ	µg/L
					GW-110320-SS-003	1.0 UJ	µg/L
					GW-110320-SS-005	1.0 UJ	µg/L
					GW-110320-SS-007	330 UJ	µg/L
					SW-110320-BE-001	10 UJ	µg/L
					SW-110320-BE-002	10 UJ	µg/L

Notes:

LCS - Laboratory Control Sample
VOCs - Volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated

Table 6

Qualified Sample Results Due to Outlying Matrix Spike/Matrix Spike Duplicate Results
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits % Recovery	Control Limits RPD	Assoc Sample	Qualified Result	Qualified	Units
VOCs	GW-110920-BE-028	1,1-Dichloroethene	29	24	2	57-137	23	GW-110920-BE-028	20	J	µg/L

Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate
RPD - Relative Percent Difference
VOCs - Volatile Organic Compounds
J - Estimated Concentration

Table 7

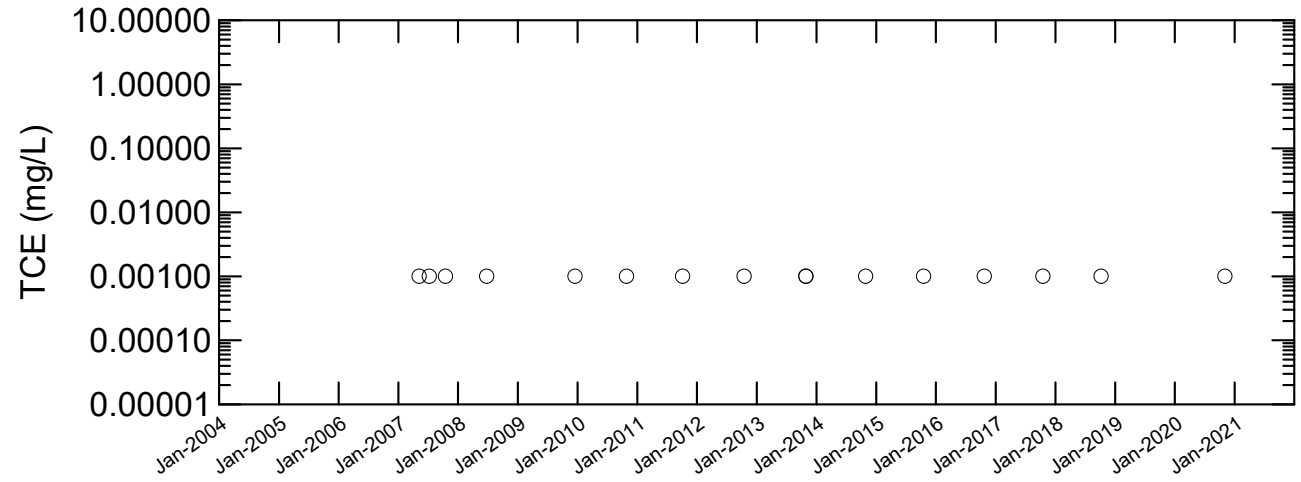
Qualified Sample Data Due to Analyte Concentrations in a Trip Blank
Surface Water and Site-Wide Groundwater Monitoring
RACER Trust - MLK Boulevard Facility
Anderson, Indiana
November 2020

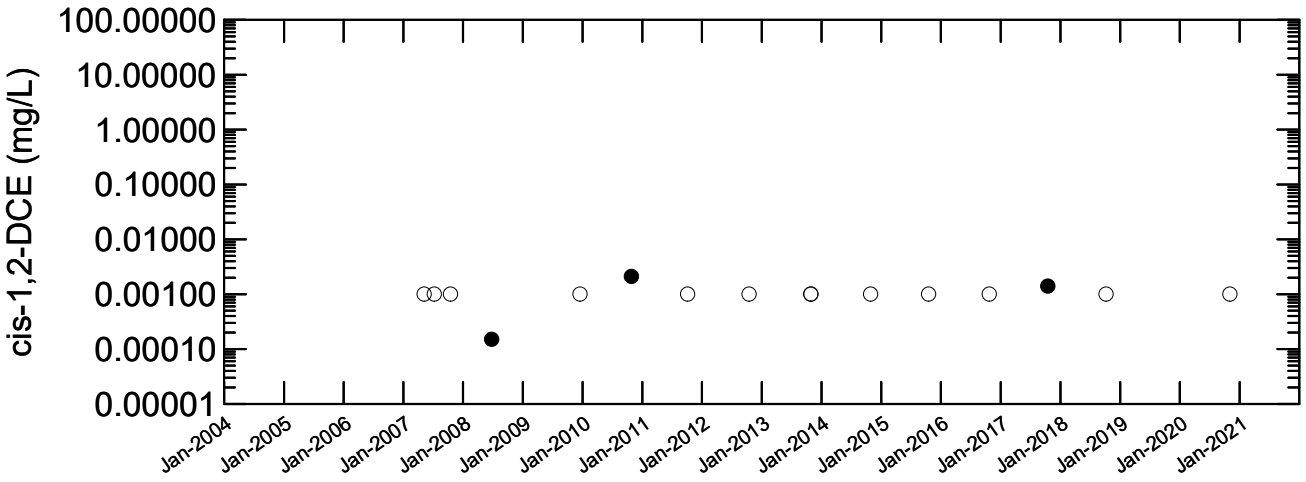
Parameter	Blank ID (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	TB-110520-BE-002	cis-1,2-Dichloroethene	0.17 J	GW-110420-BE-011	0.45 J	1.0 U	µg/L
				GW-110420-BE-012	0.25 J	1.0 U	µg/L
				GW-110420-BE-013	0.21 J	1.0 U	µg/L
				GW-110520-BE-016	0.38 J	1.0 U	µg/L
				GW-110520-BE-017	0.92 J	1.0 U	µg/L

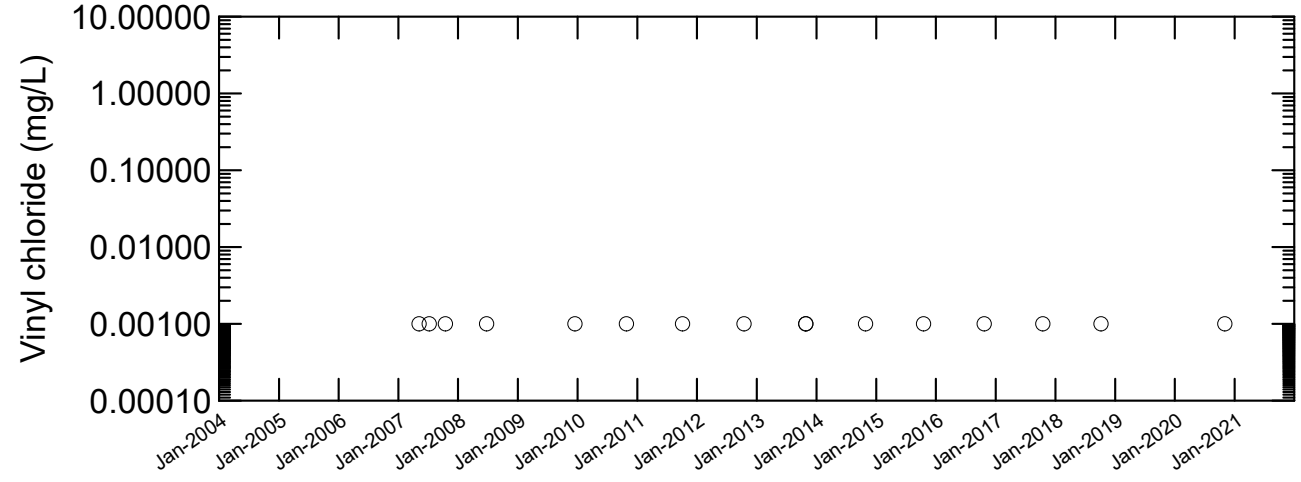
Notes:

VOCs - Volatile Organic Compounds
U - Not detected at the associated reporting limit
J - Estimated concentration

Appendix C
Groundwater Data Analysis Tables and Concentration vs. Time Graphs





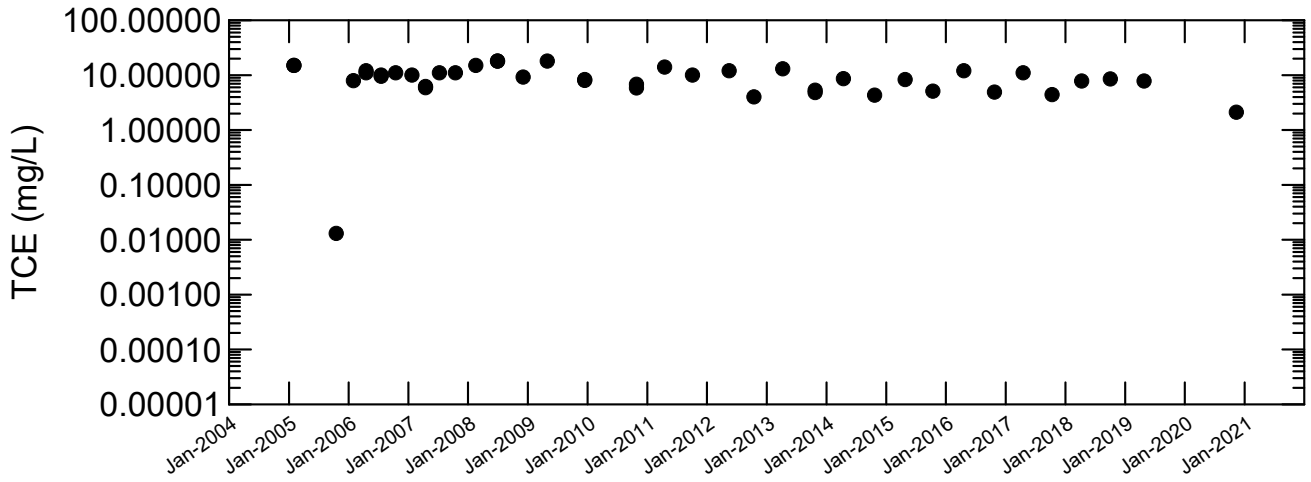


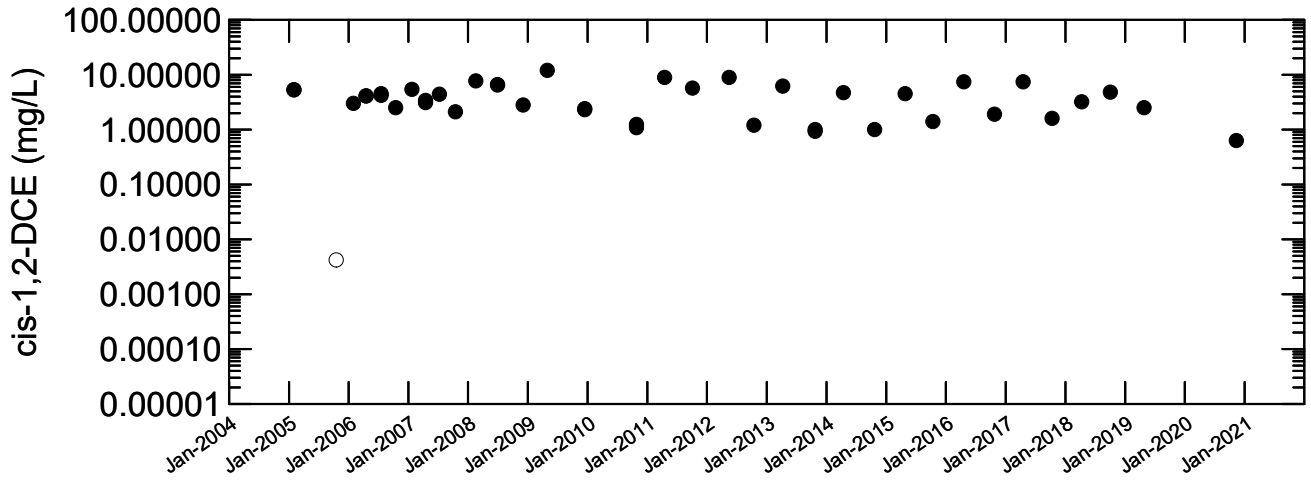
Legend:

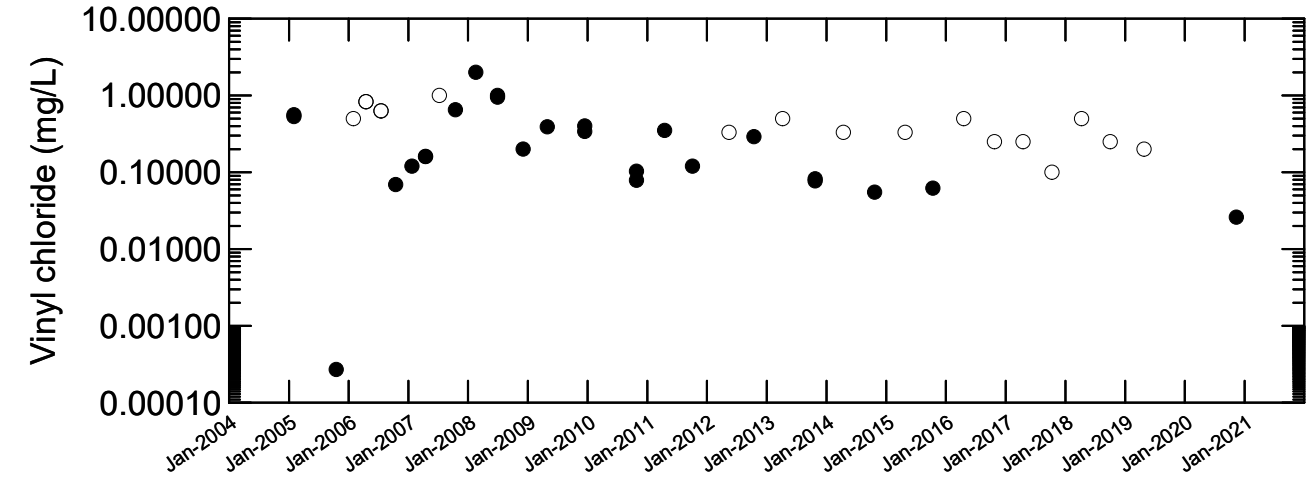
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW-2

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





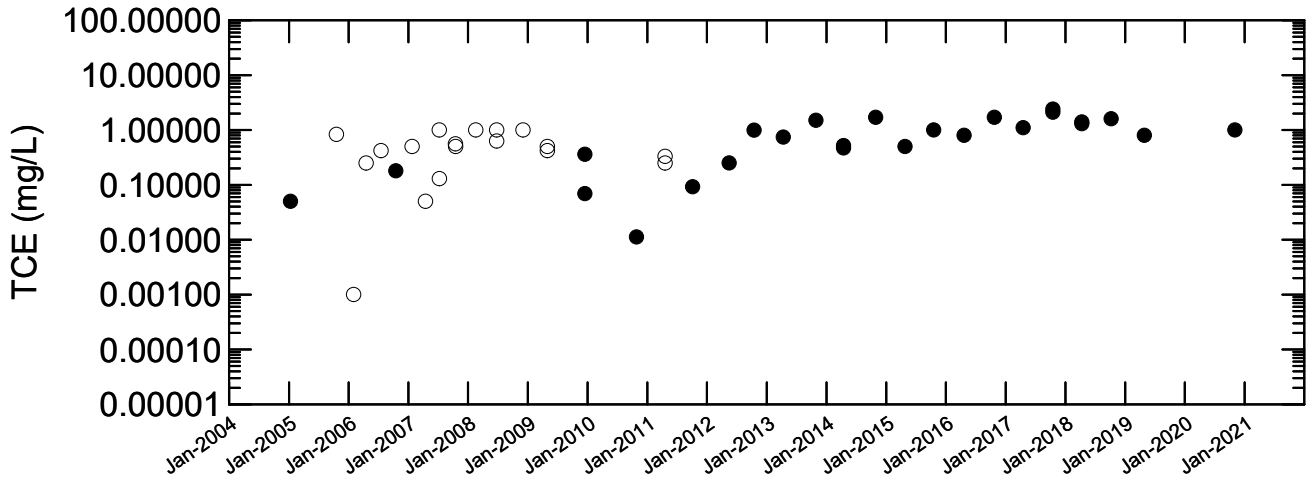


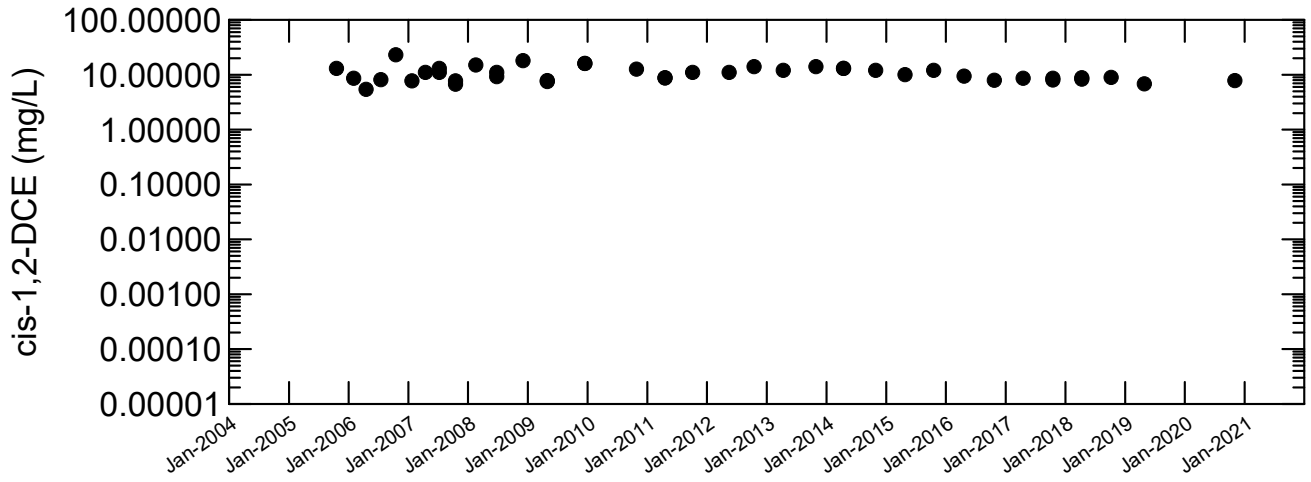
Legend:

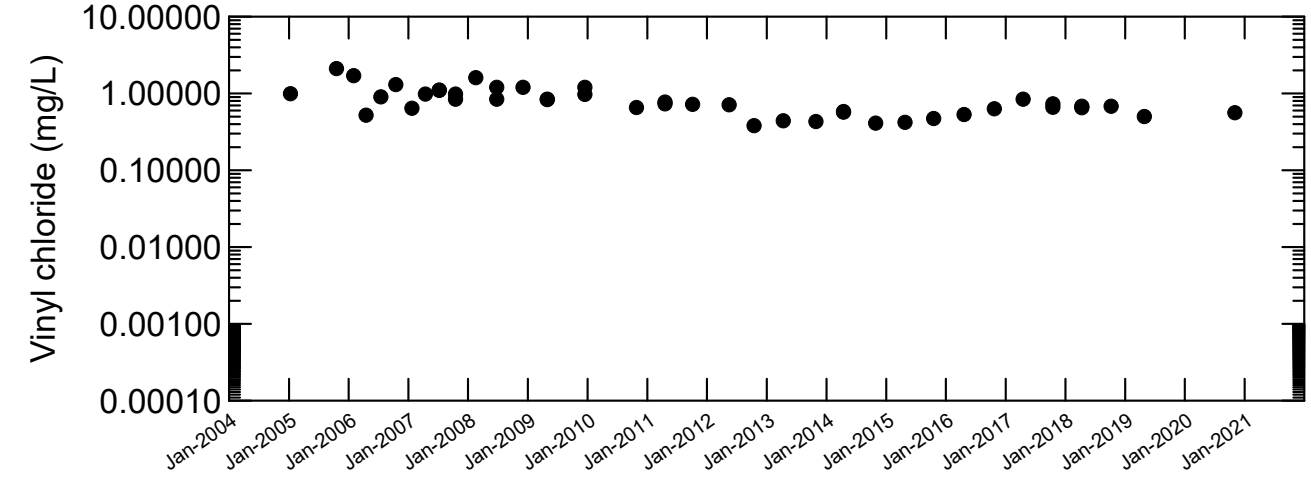
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 3

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





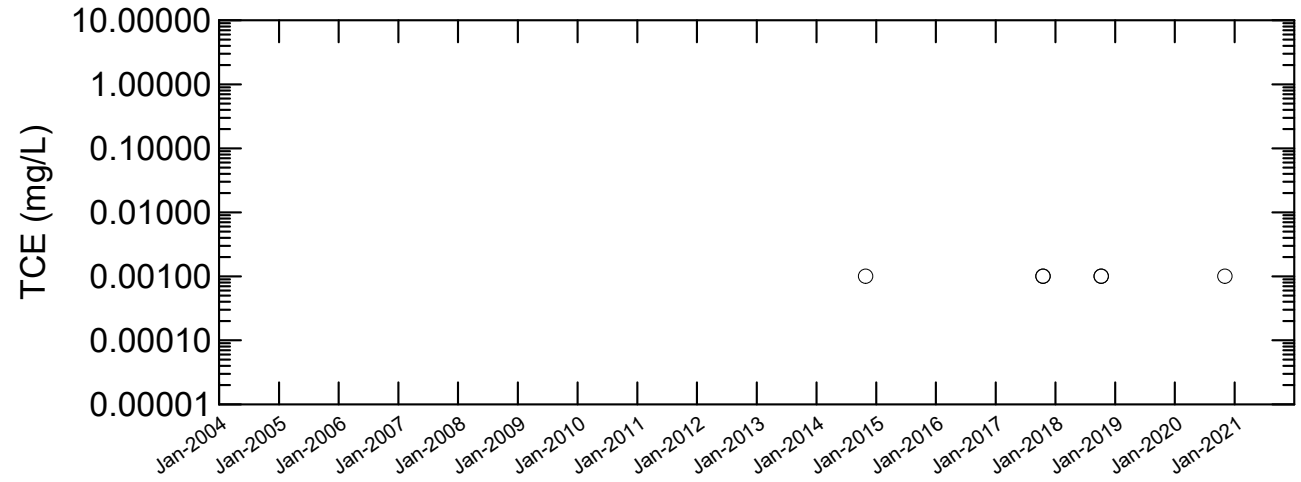


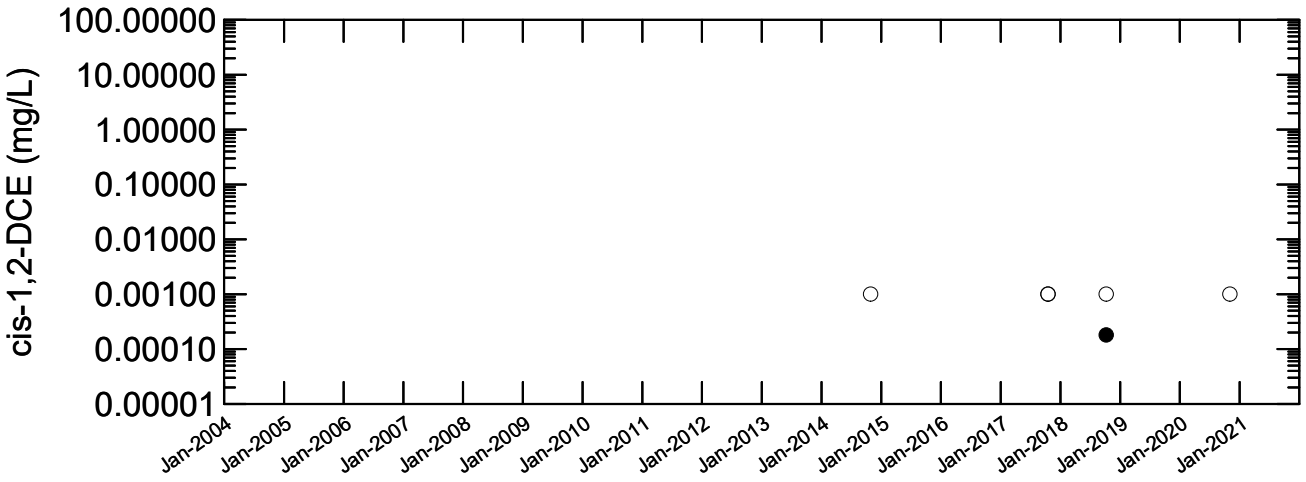
Legend:

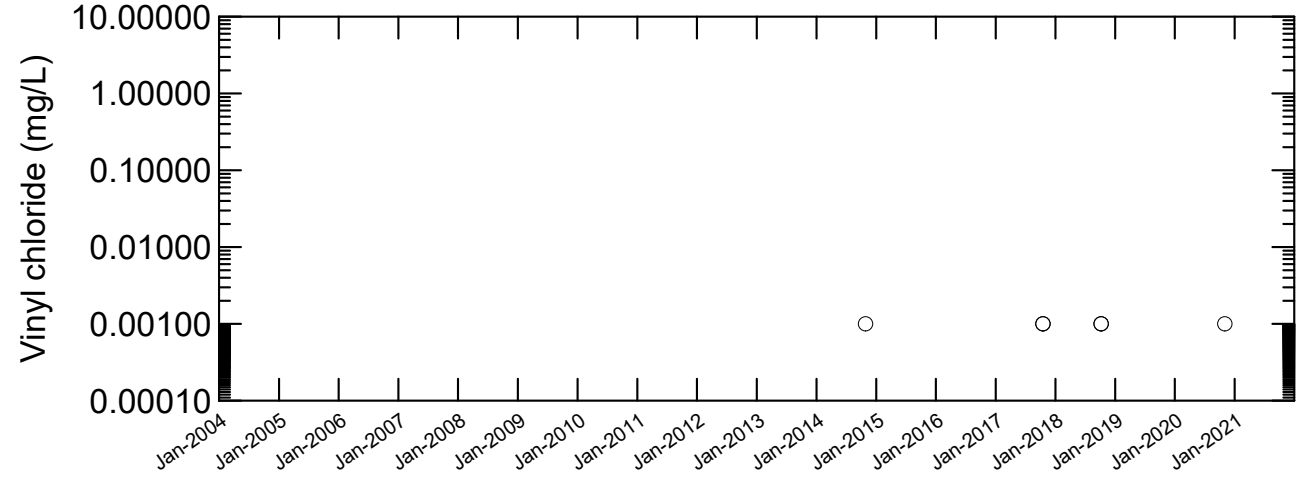
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW-4

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





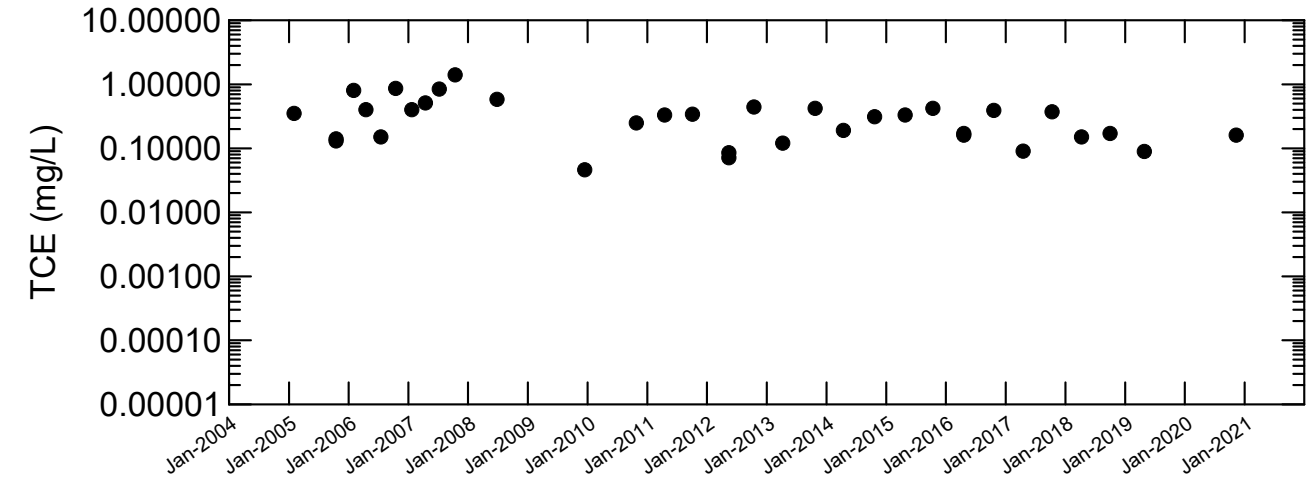


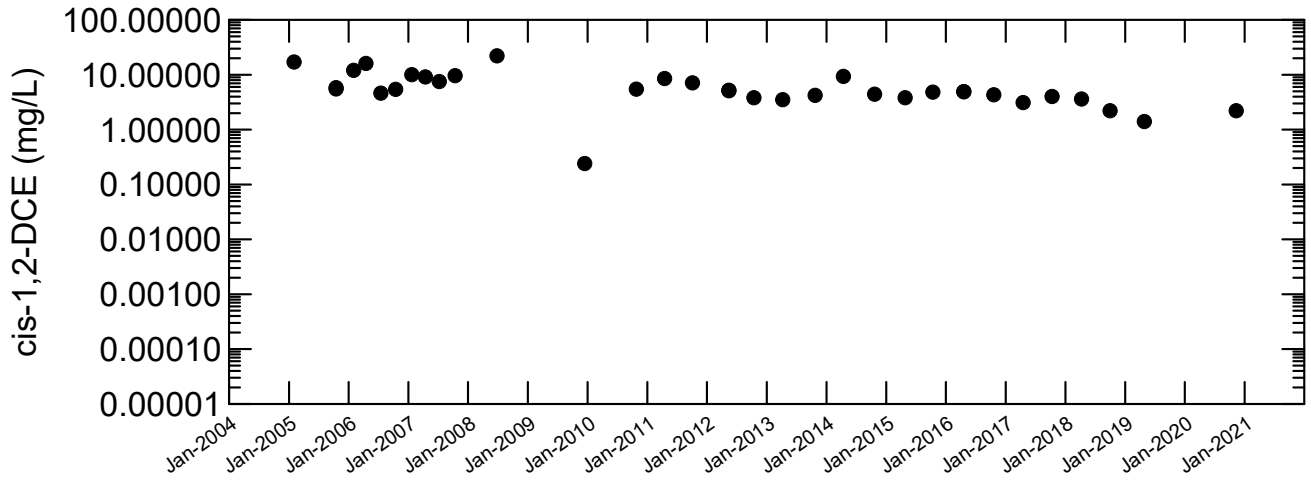
Legend:

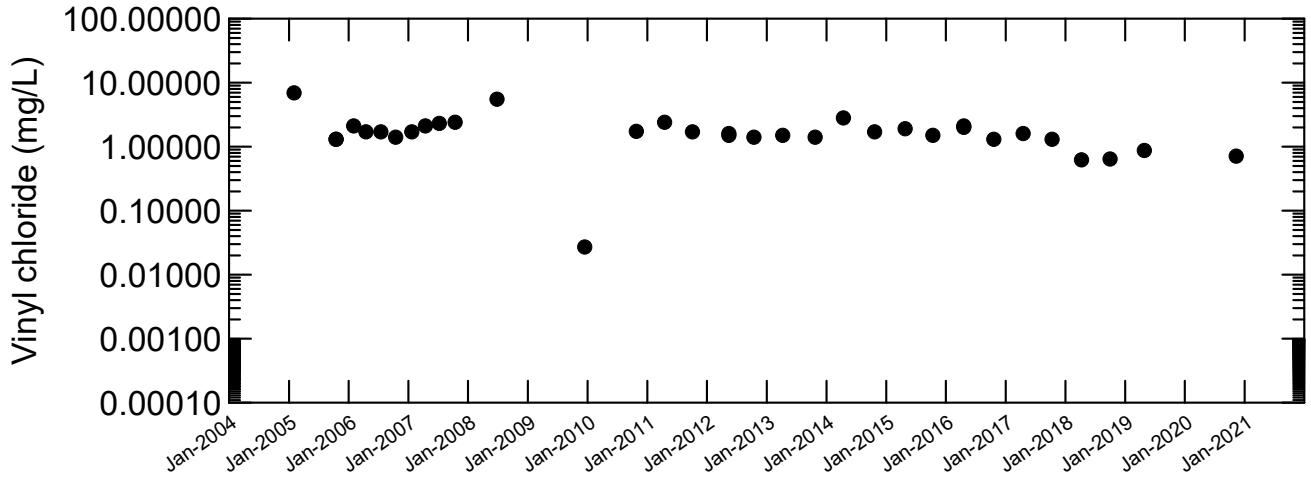
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW-7

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





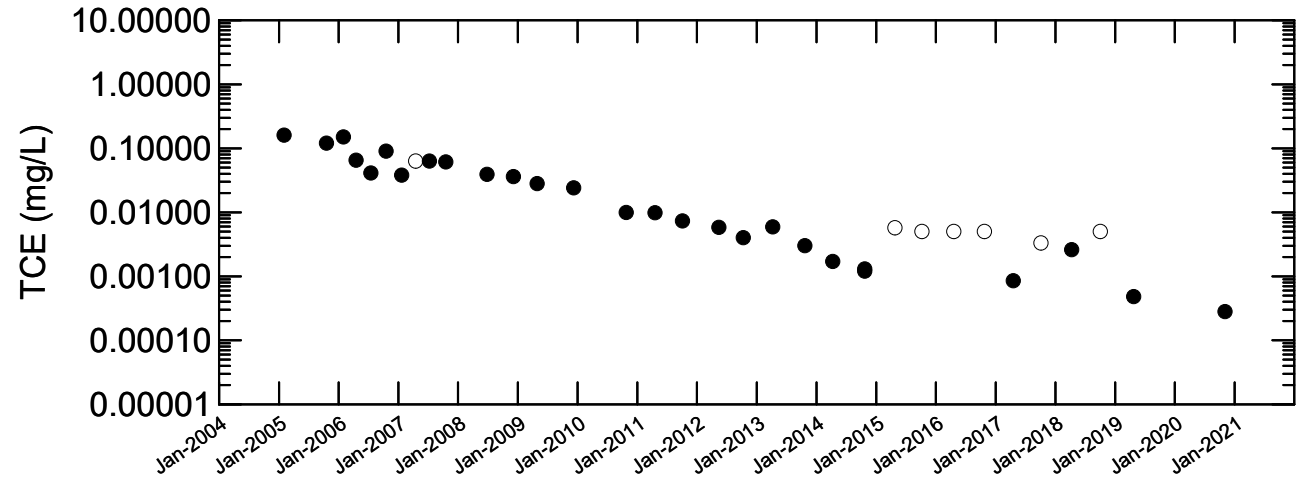


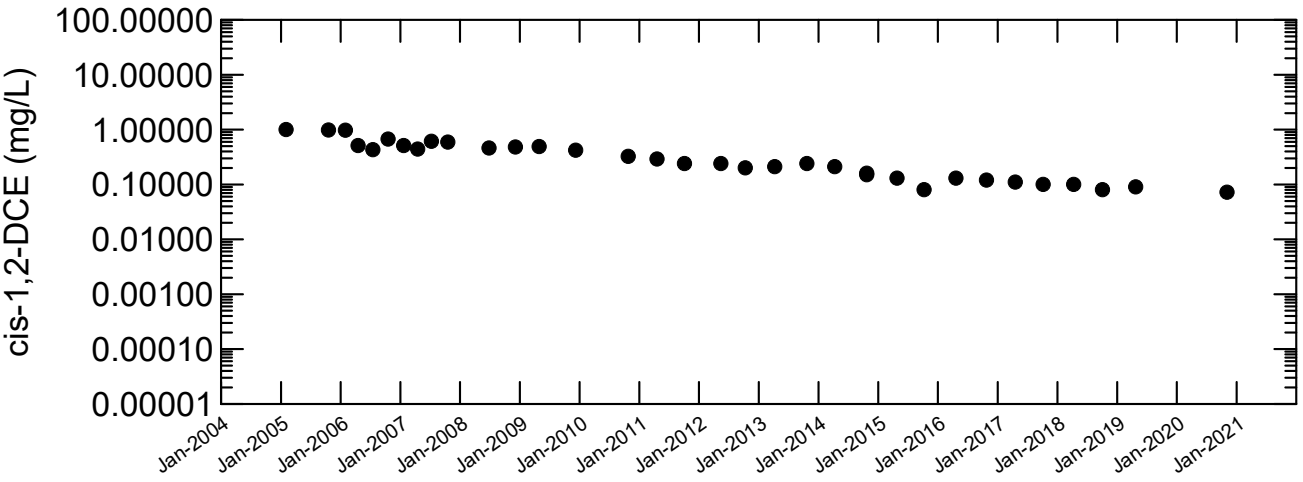
Legend:

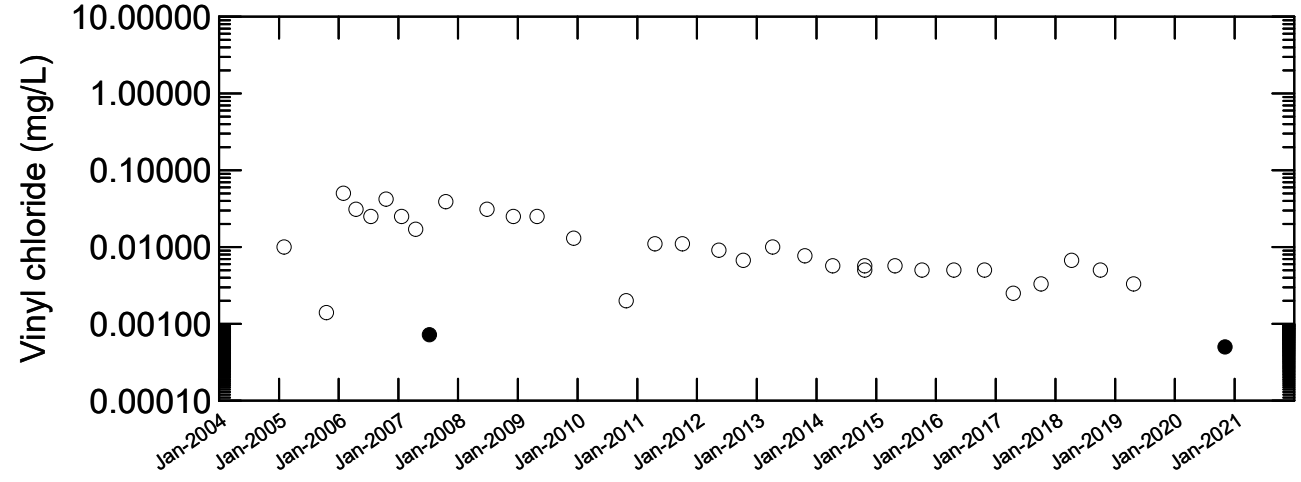
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 8

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





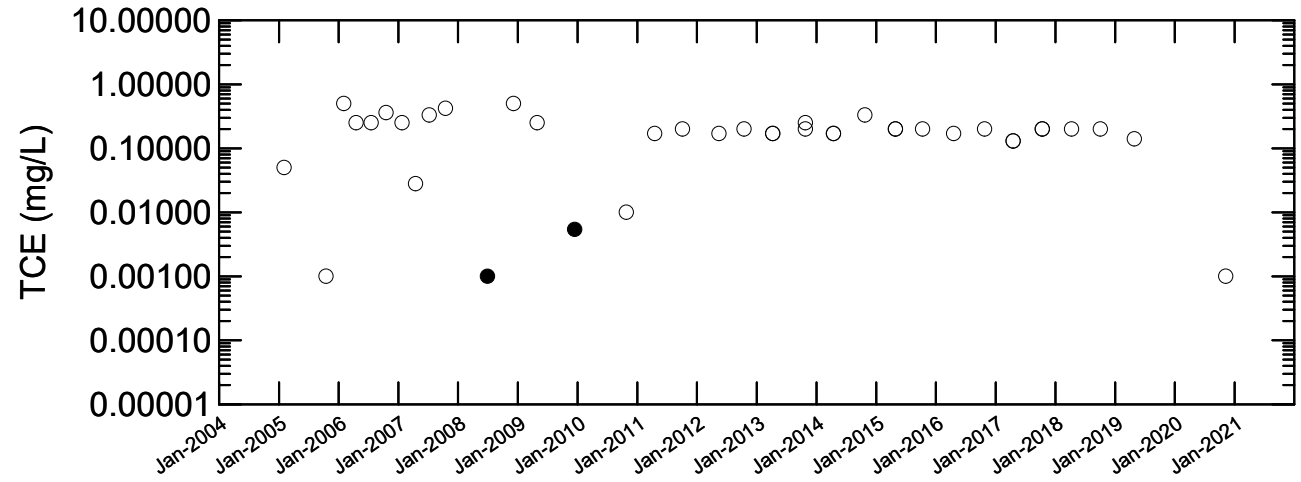


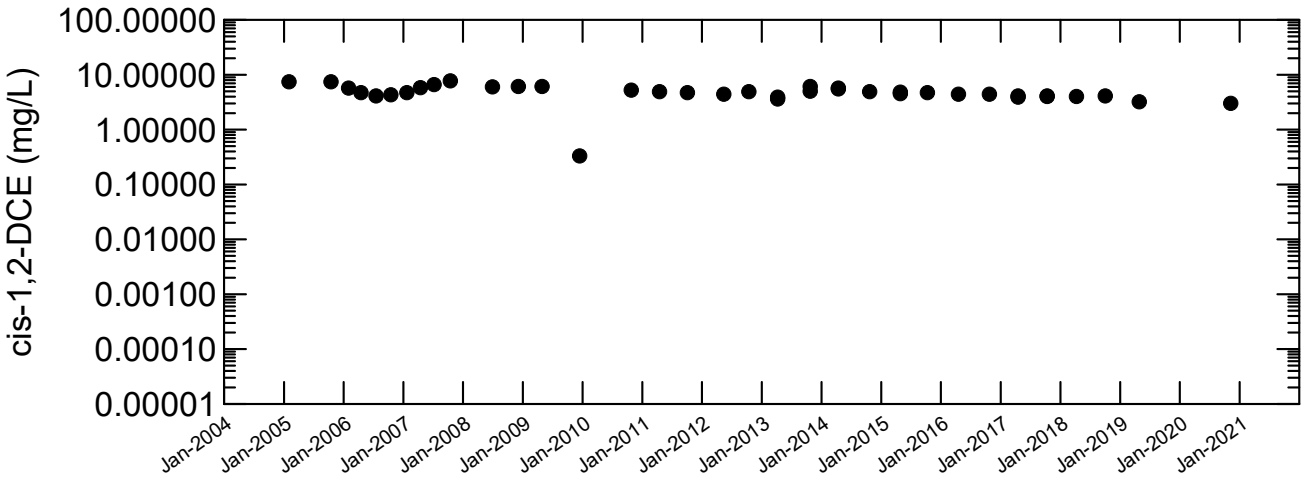
Legend:

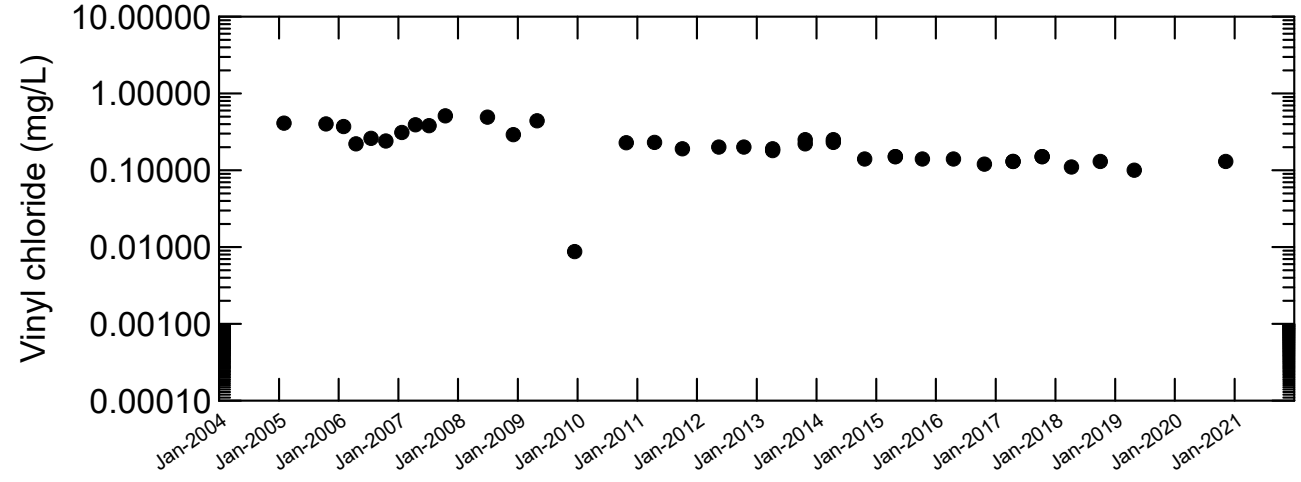
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 12

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





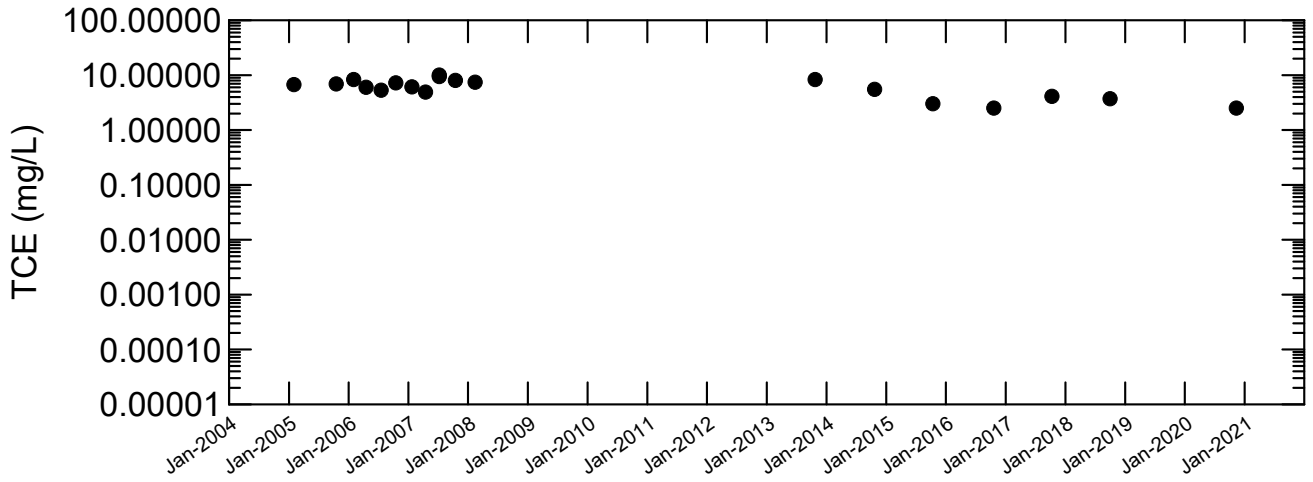


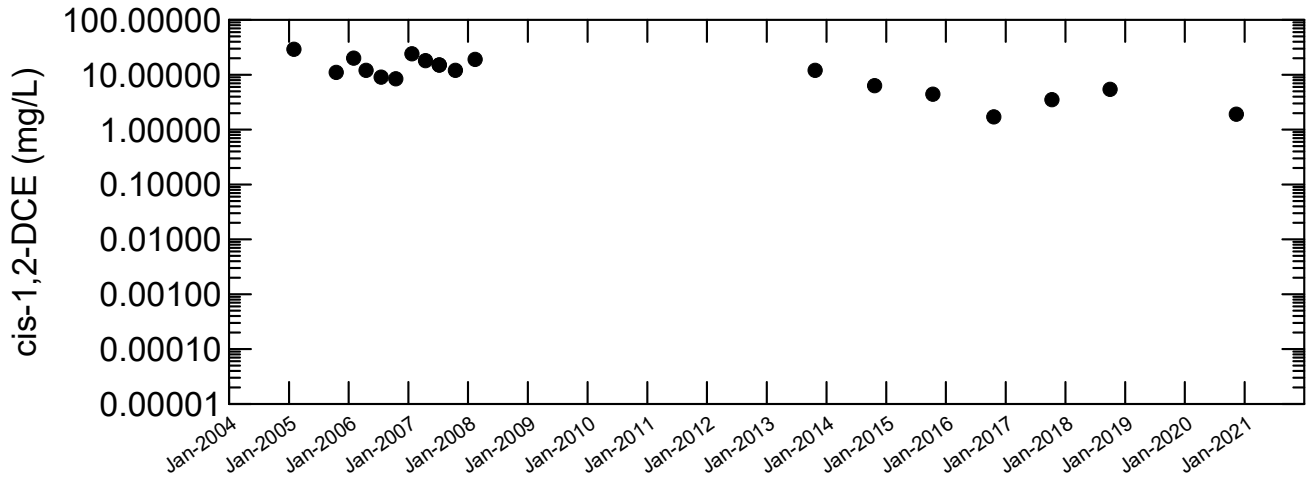
Legend:

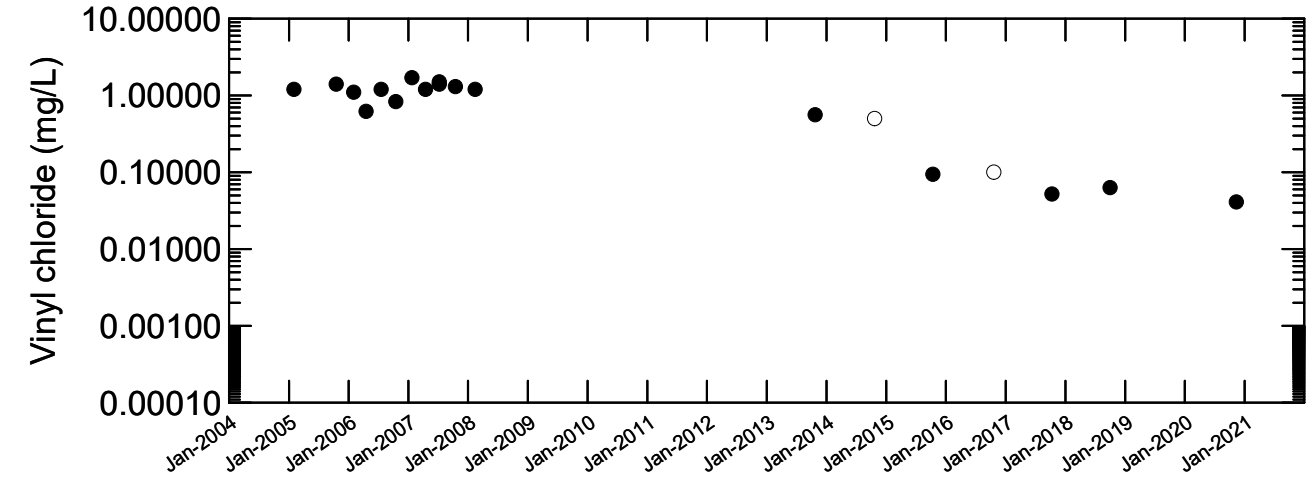
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 14

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





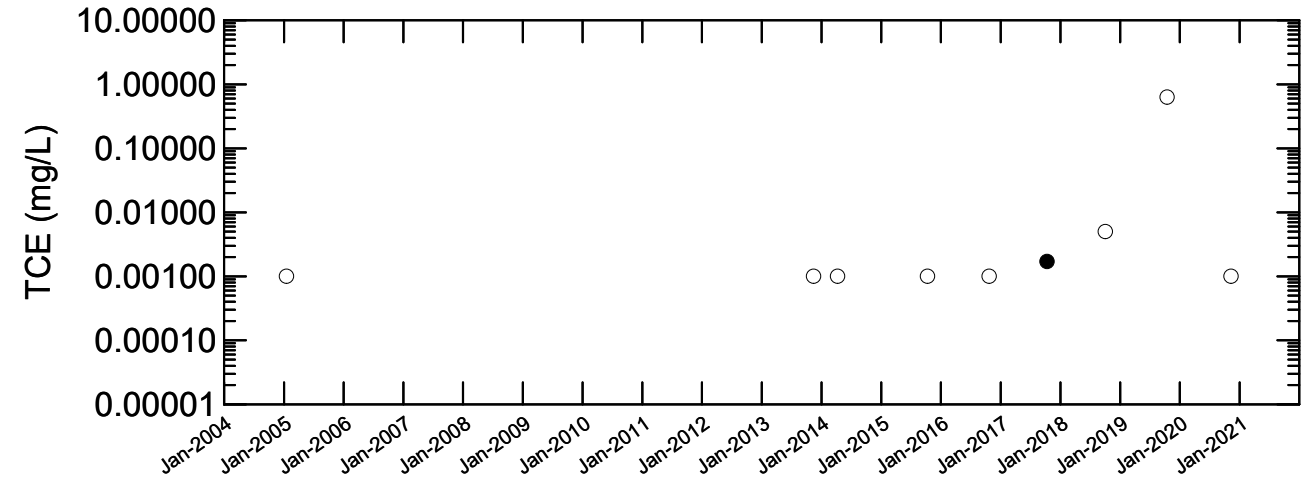


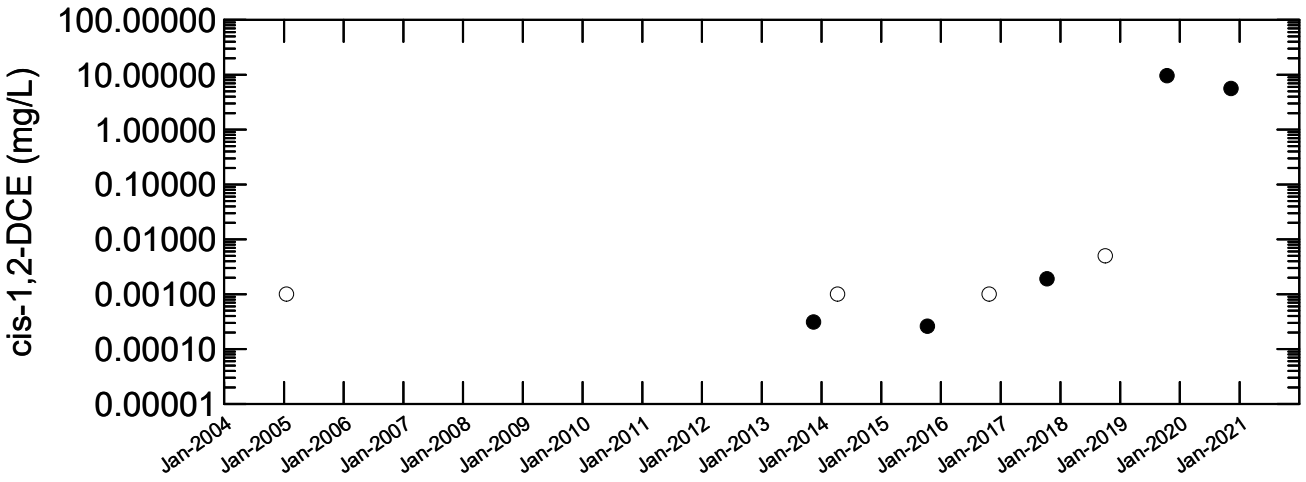
Legend:

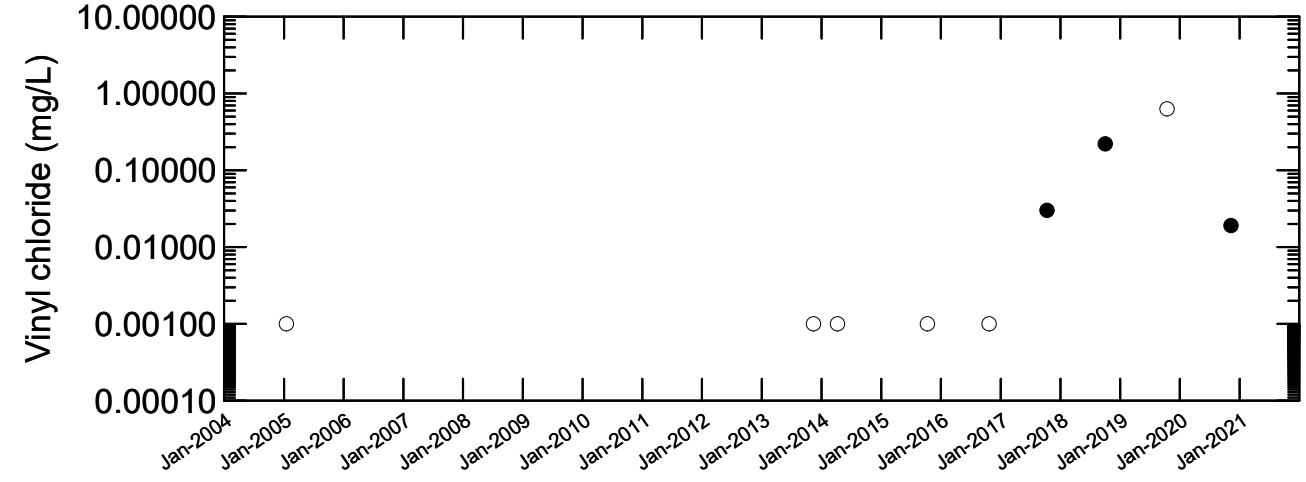
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 15

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





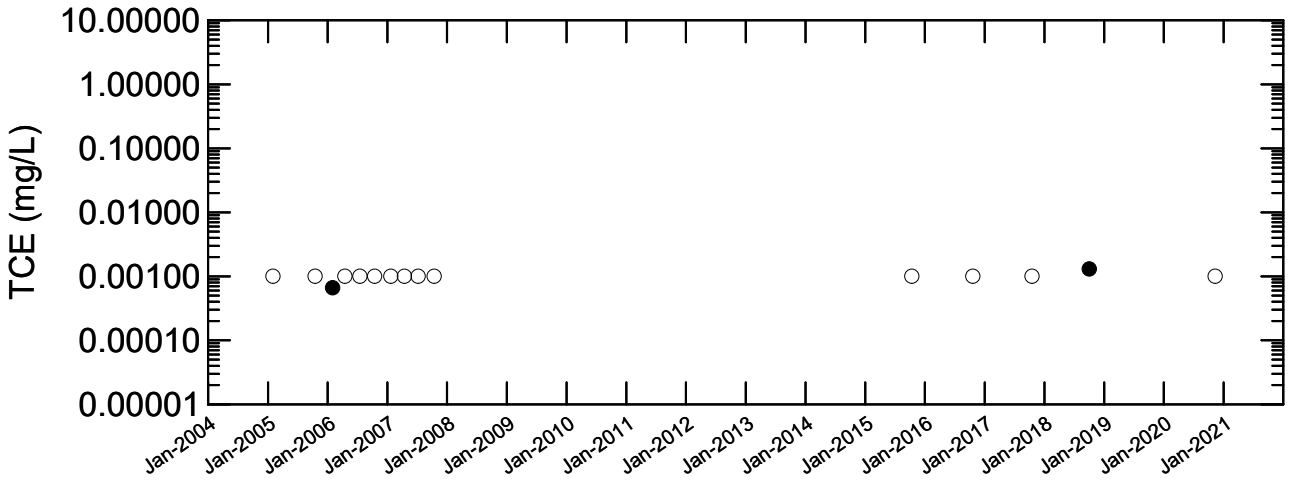


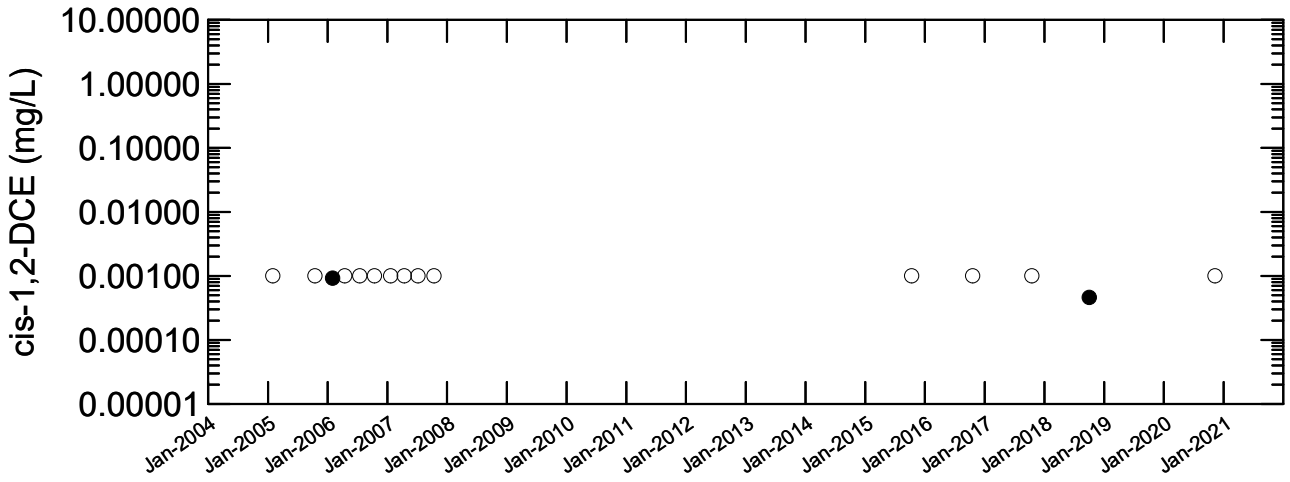
Legend:

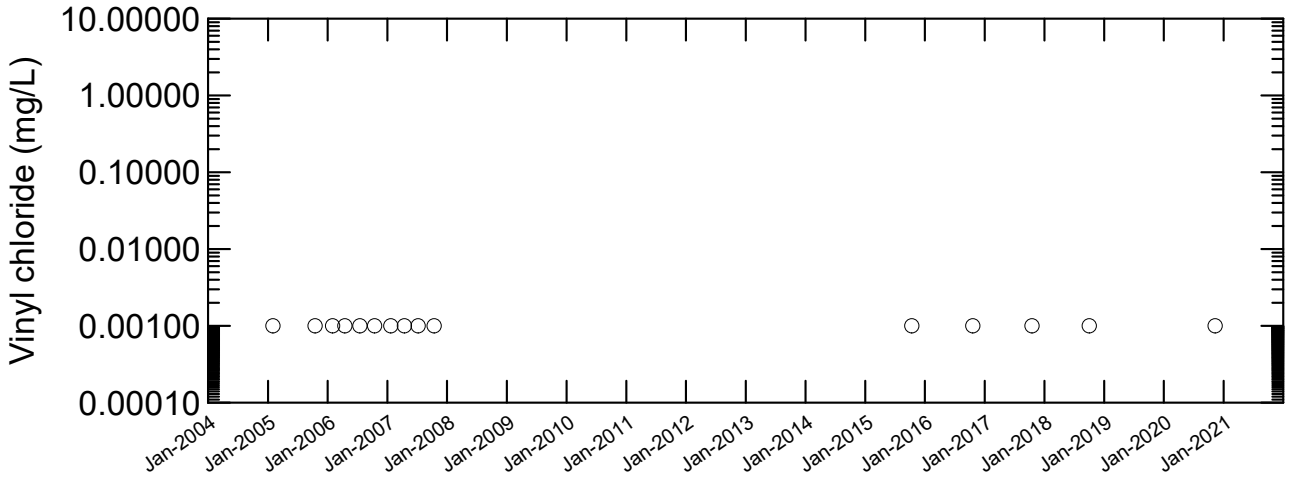
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 16

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





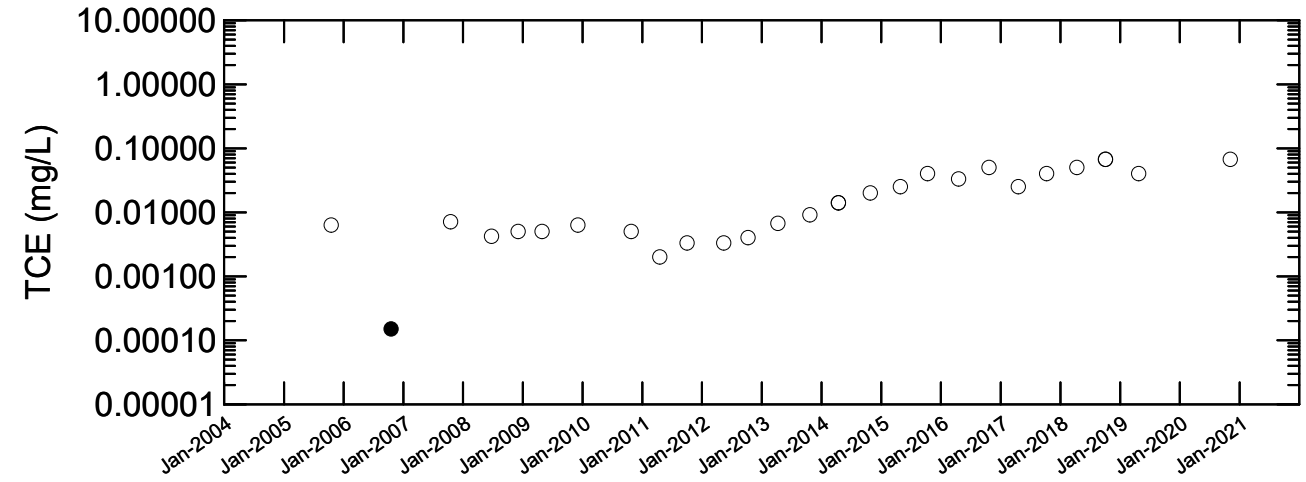


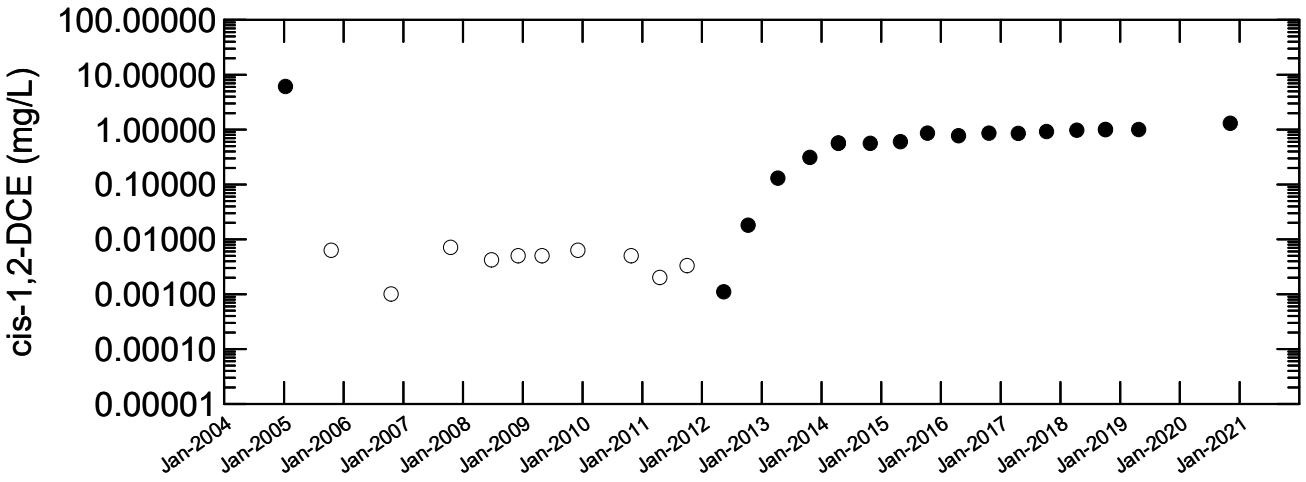
Legend:

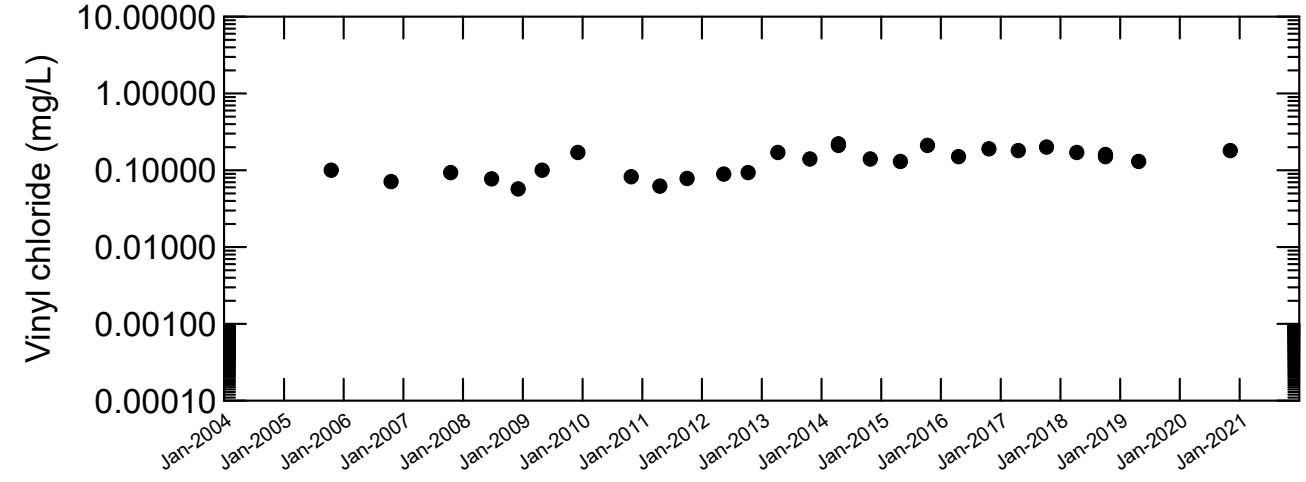
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 21

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





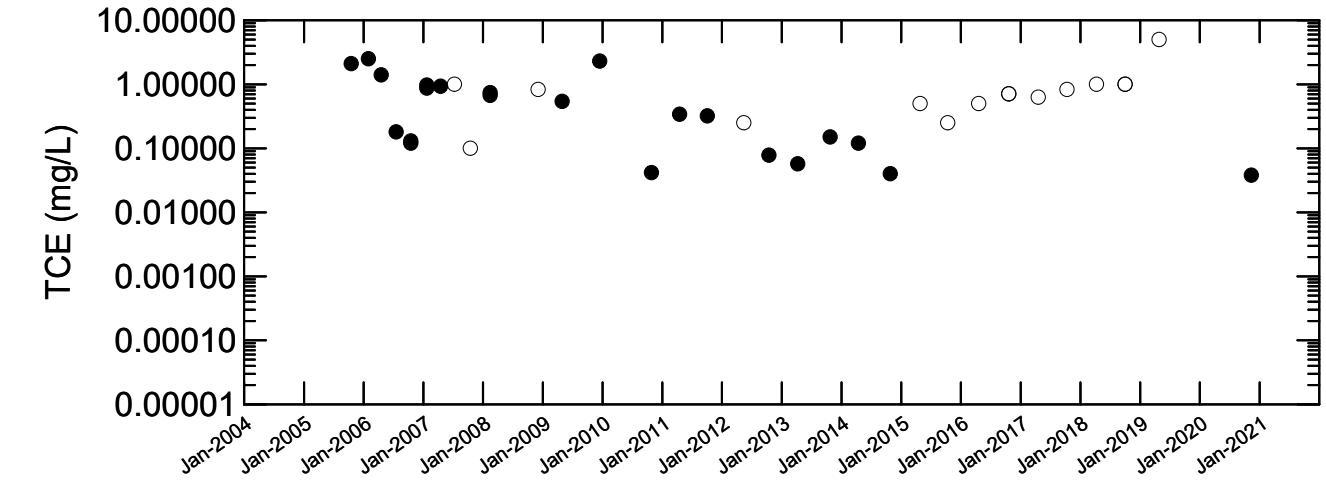


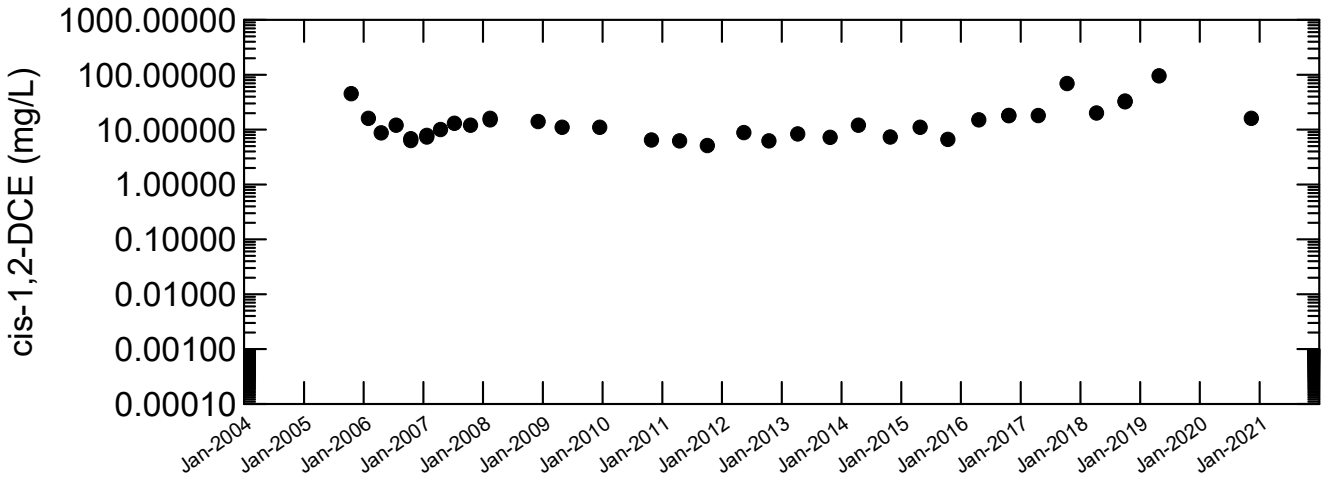
Legend:

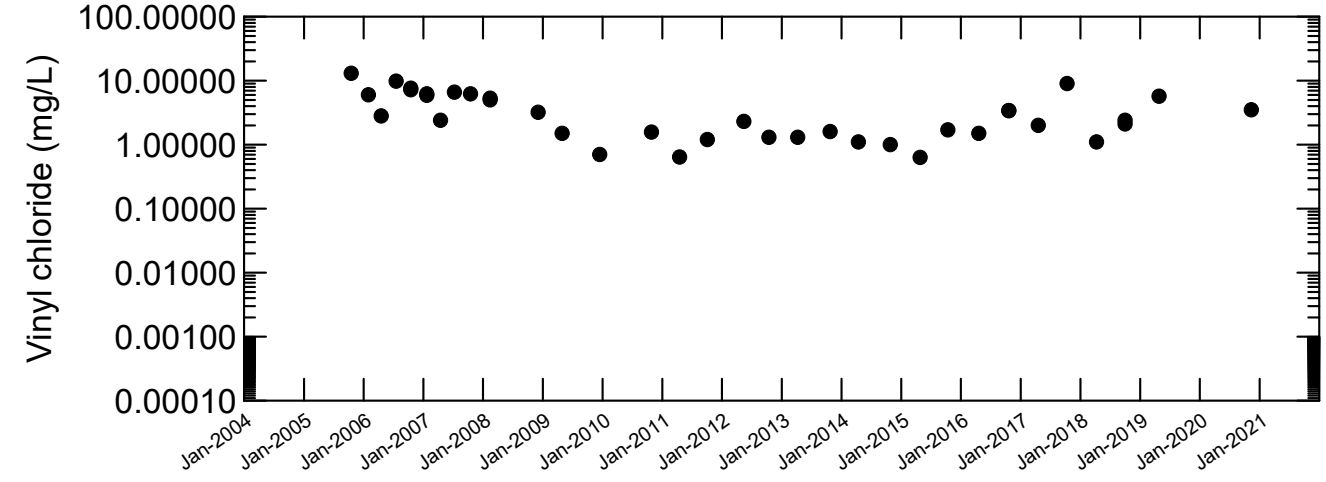
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 28

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





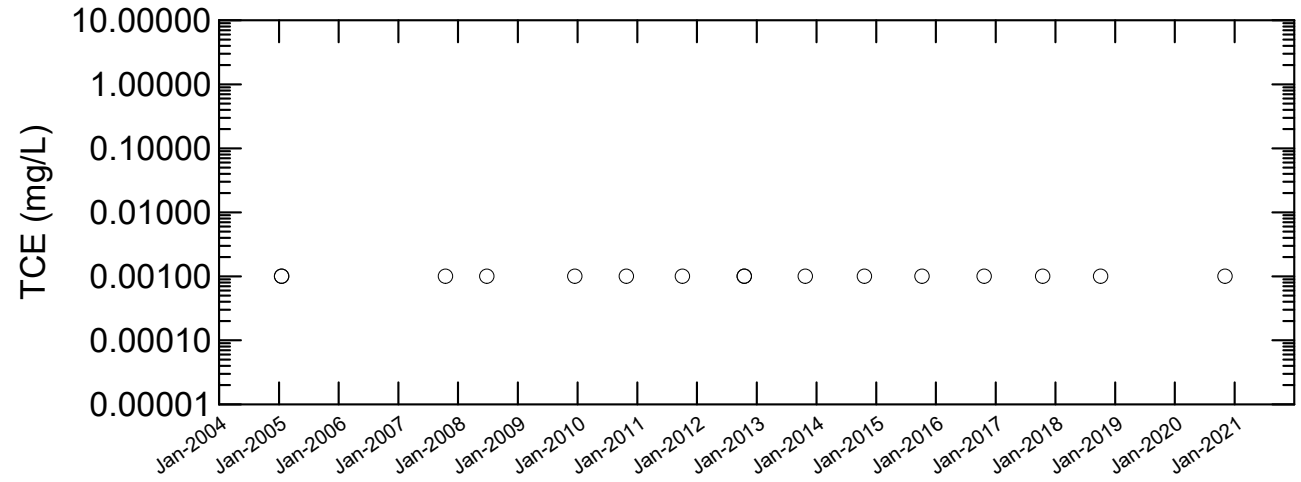


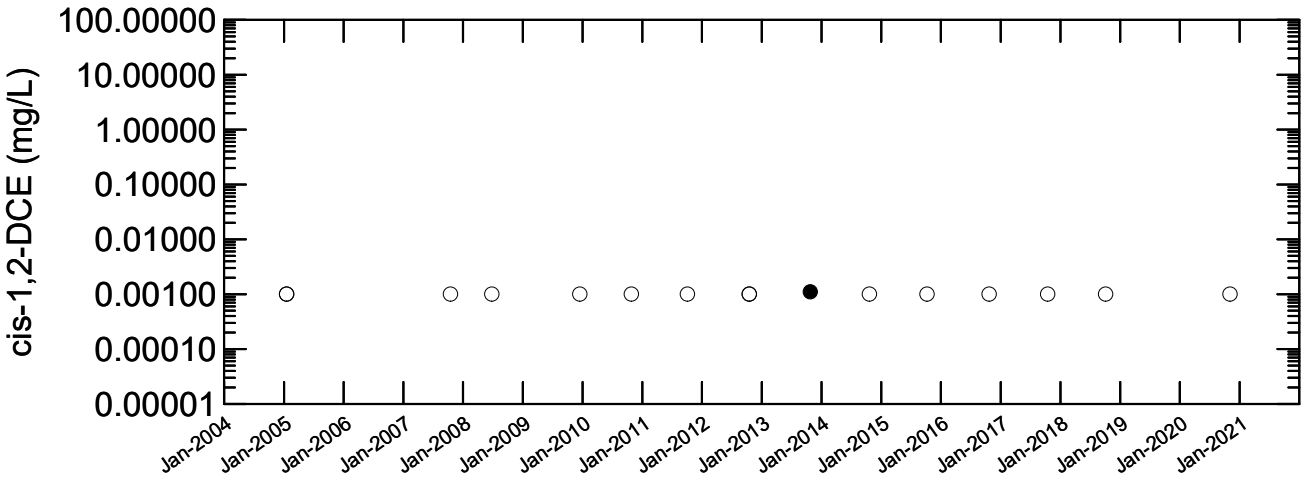
Legend:

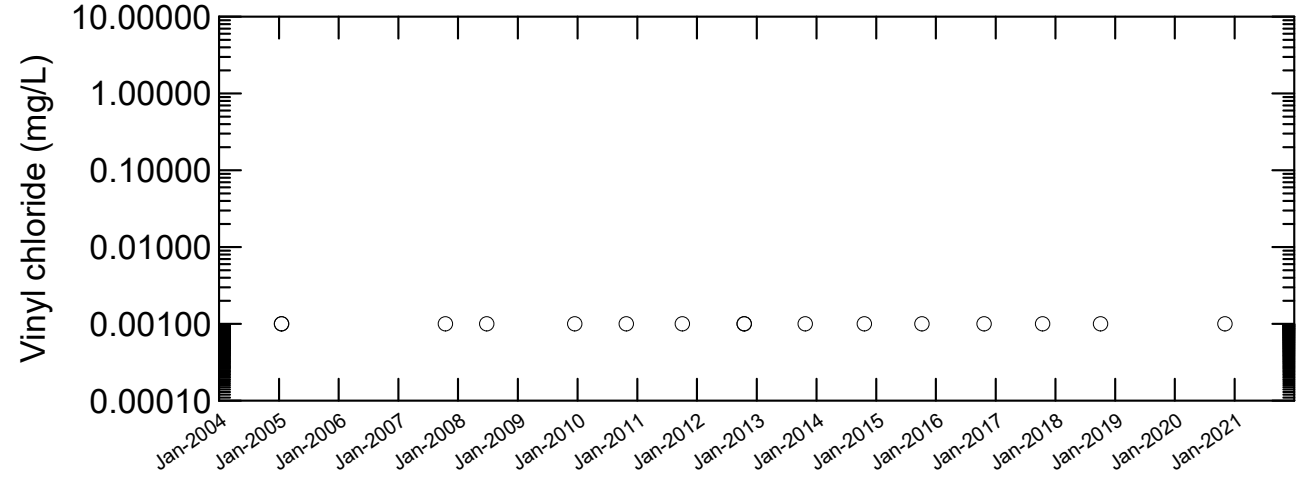
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 31R

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





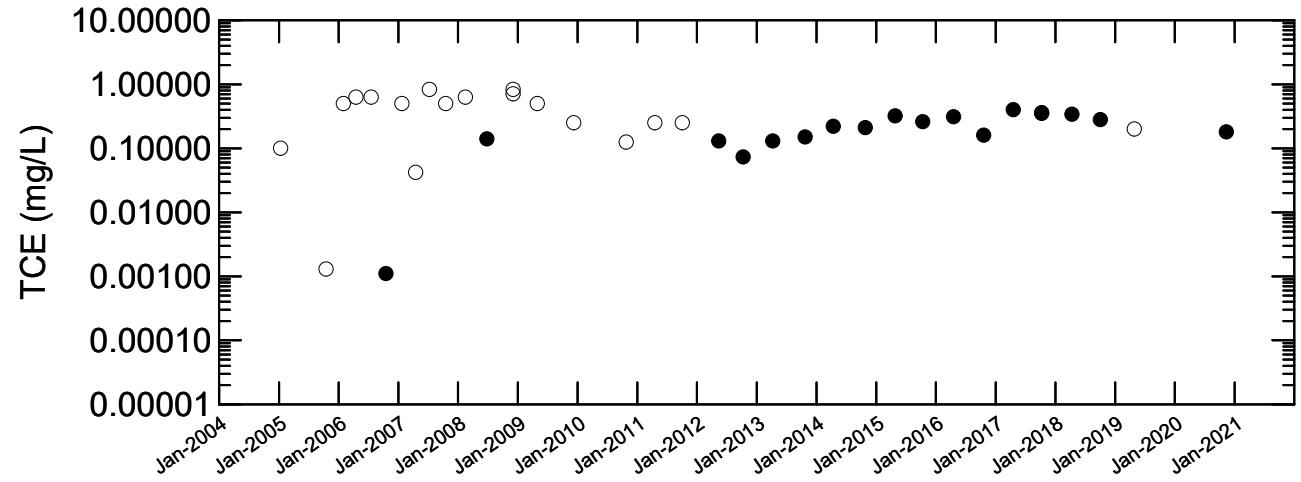


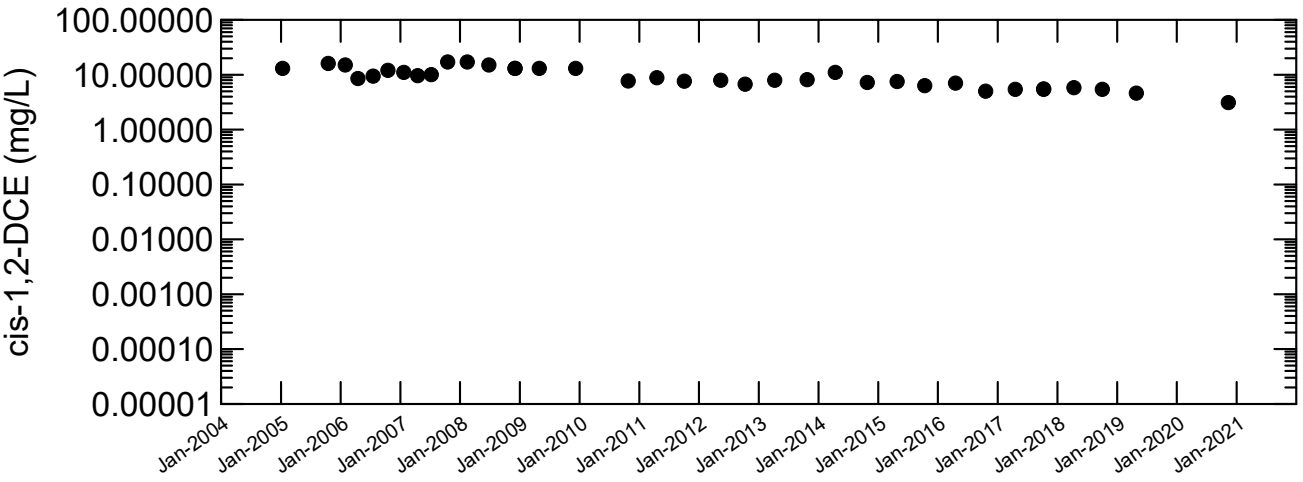
Legend:

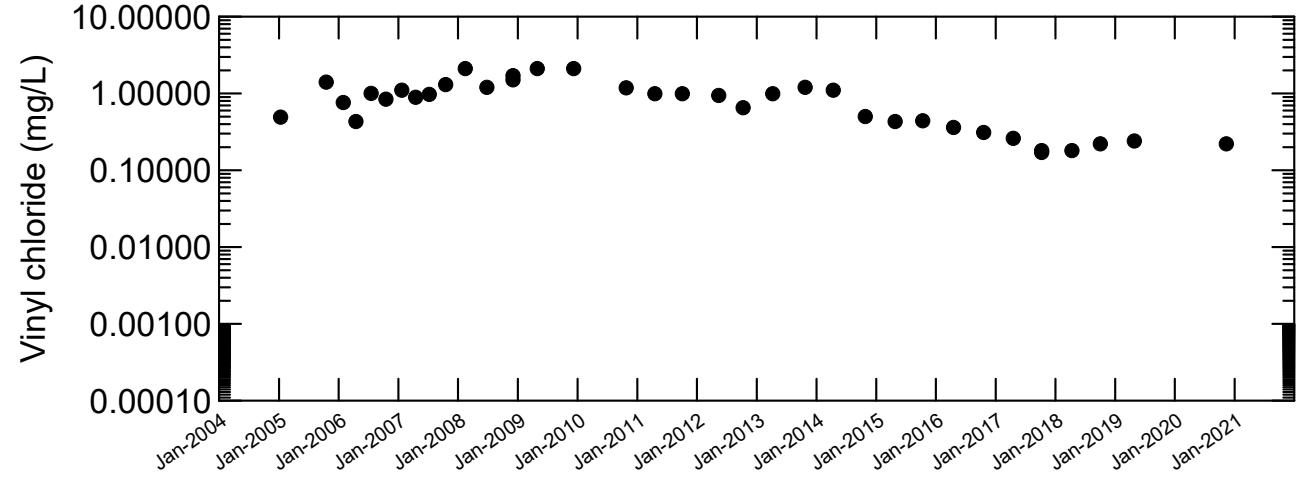
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 37

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





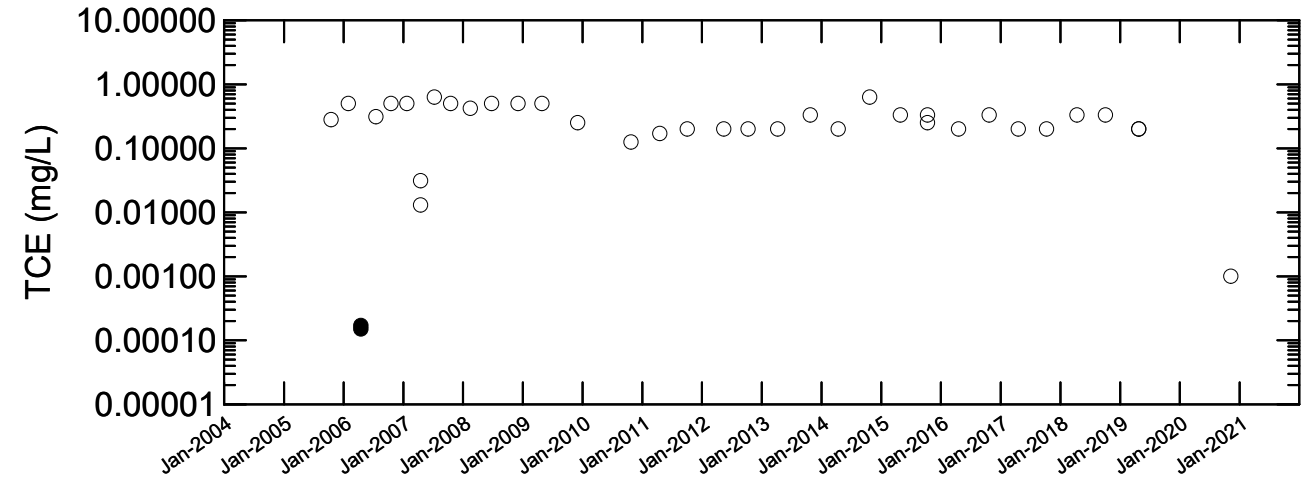


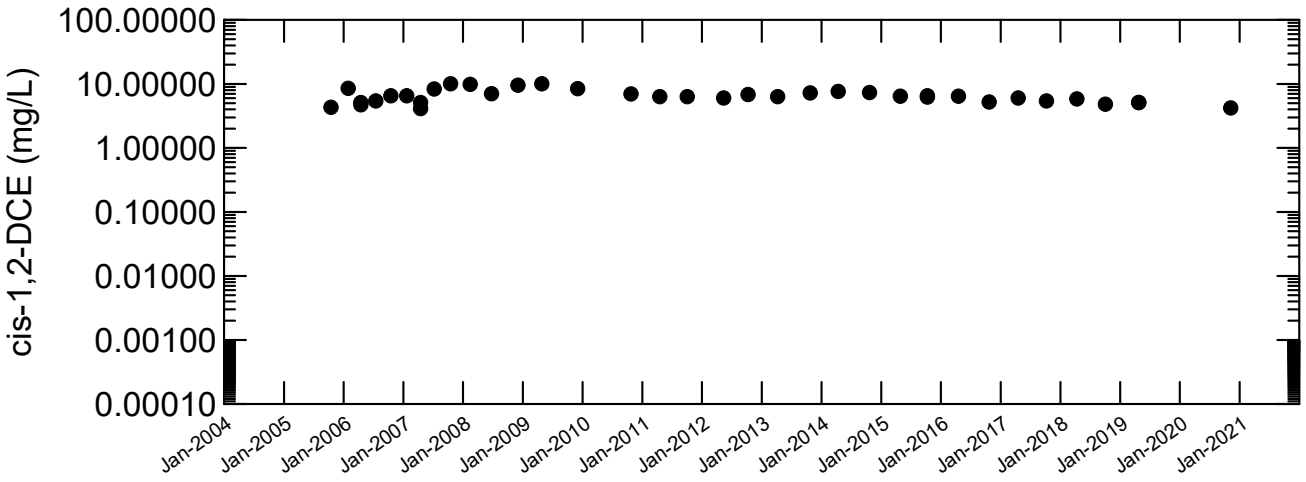
Legend:

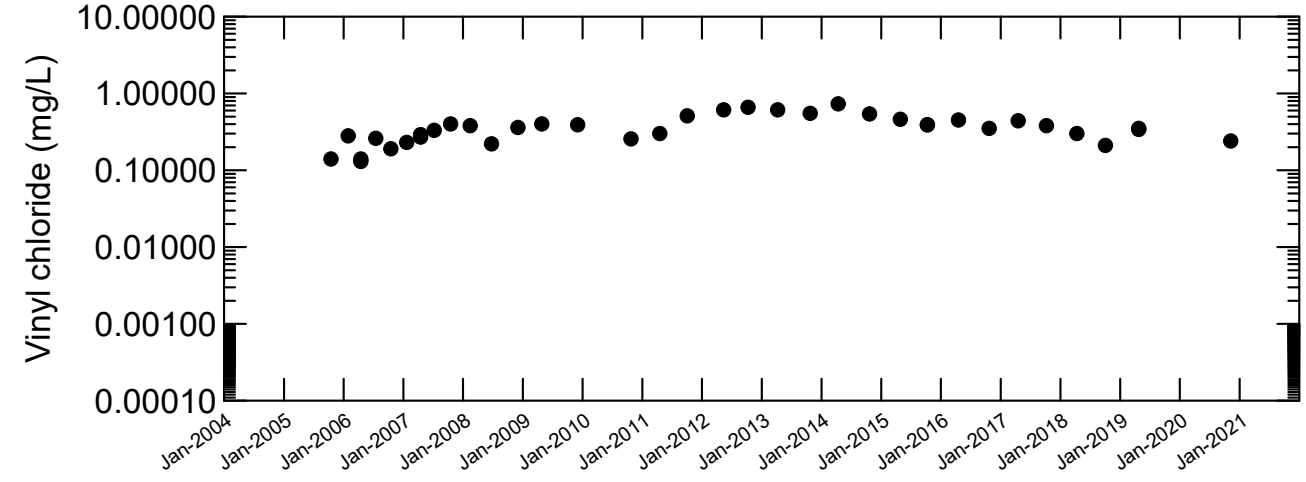
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 40

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





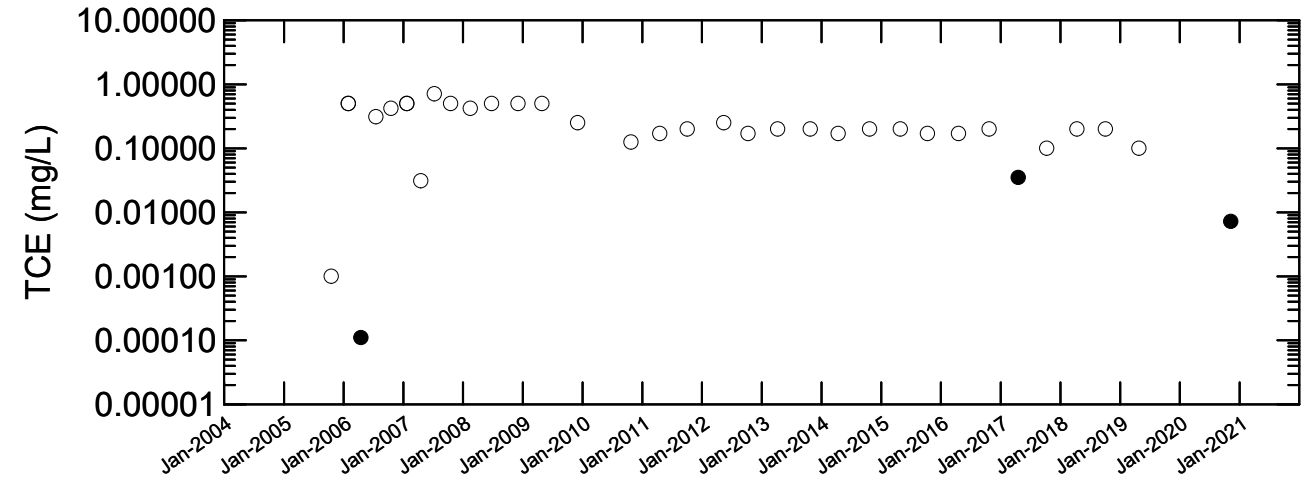


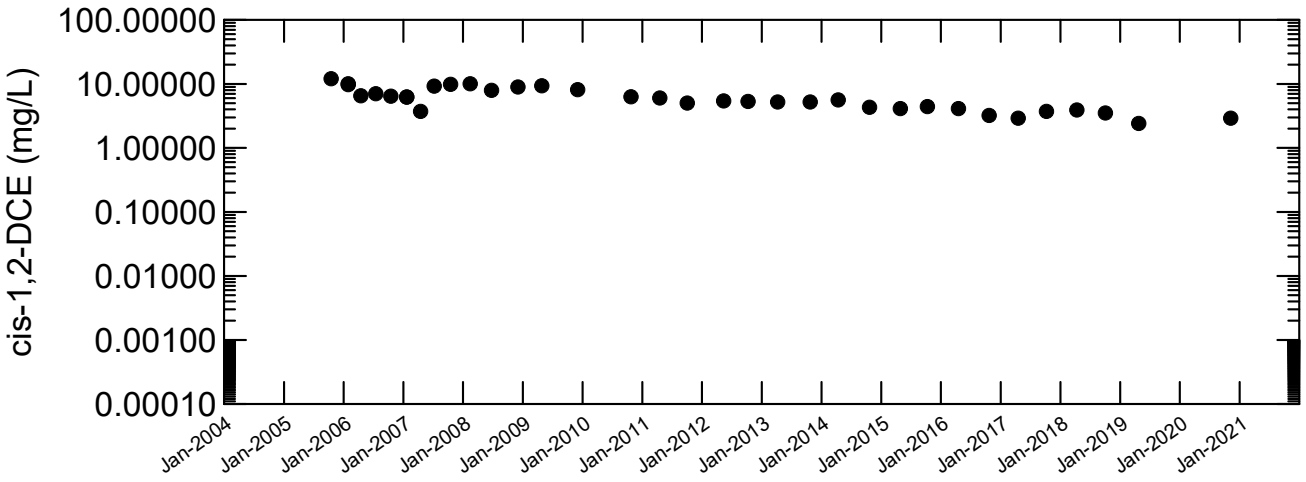
Legend:

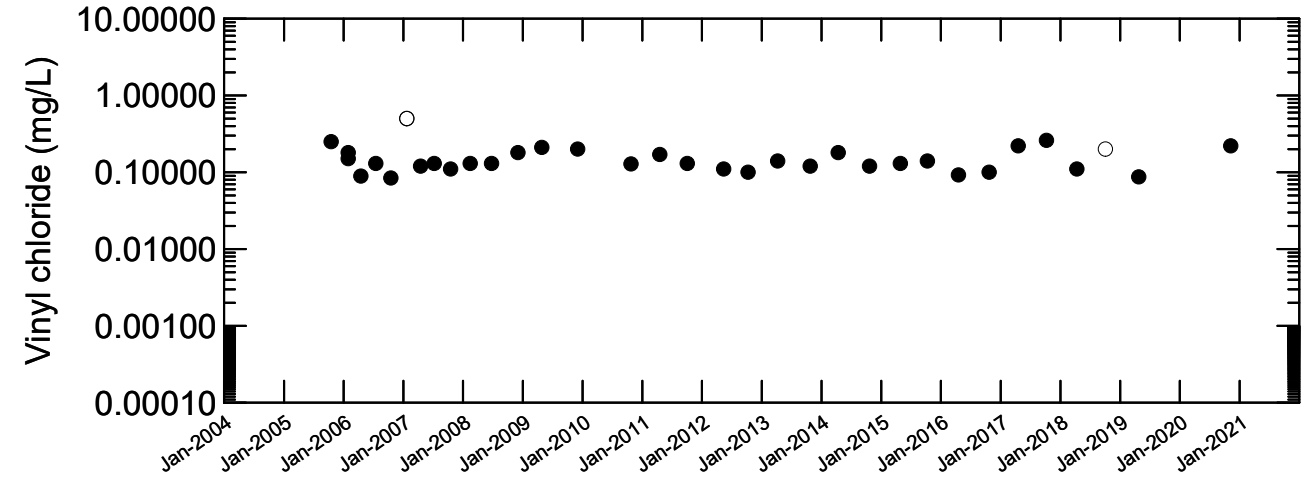
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 41

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





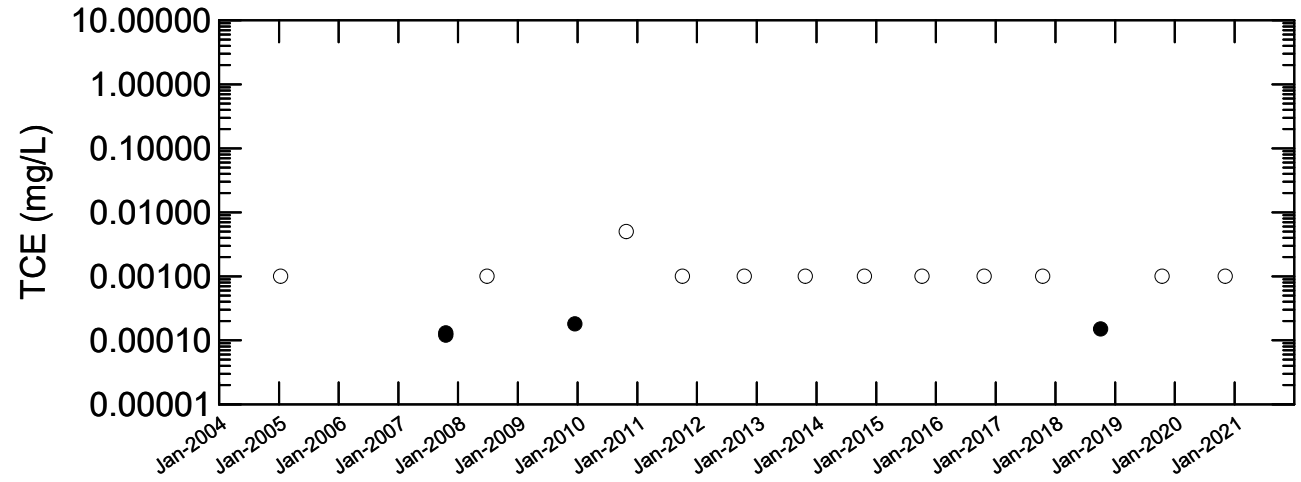


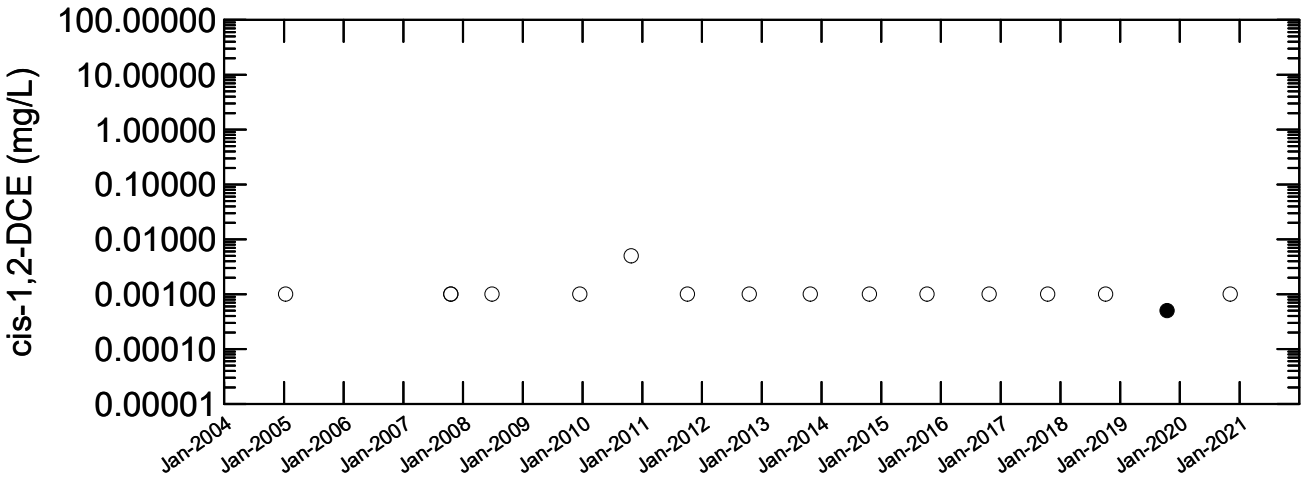
Legend:

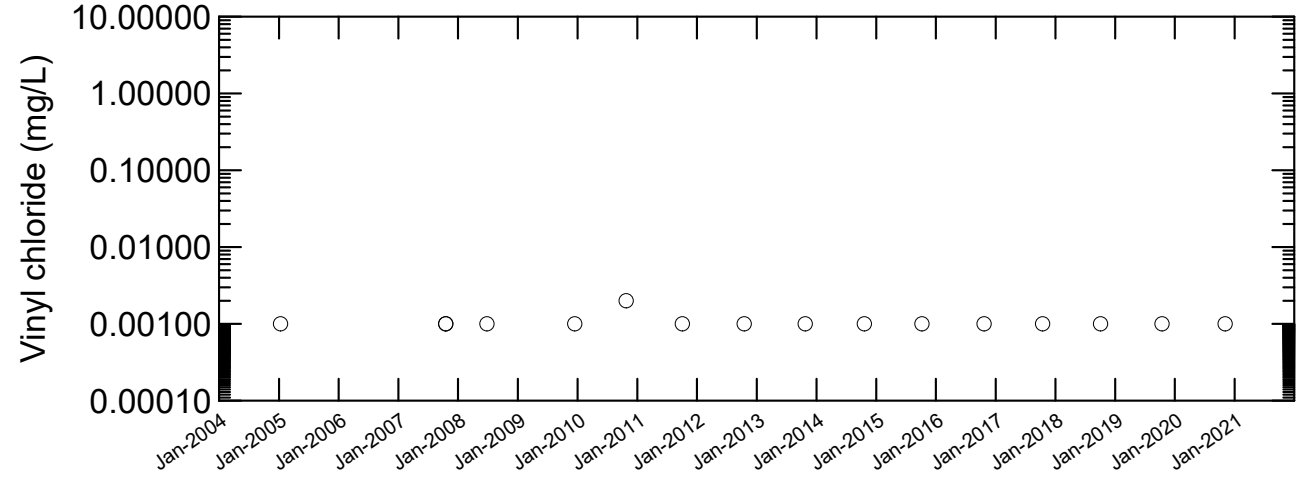
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 42

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





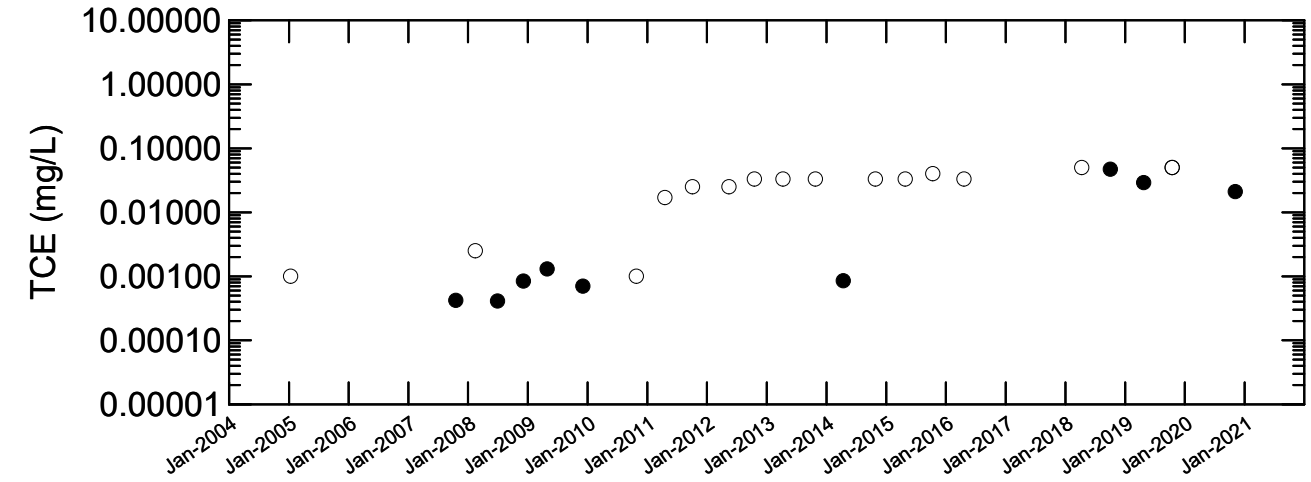


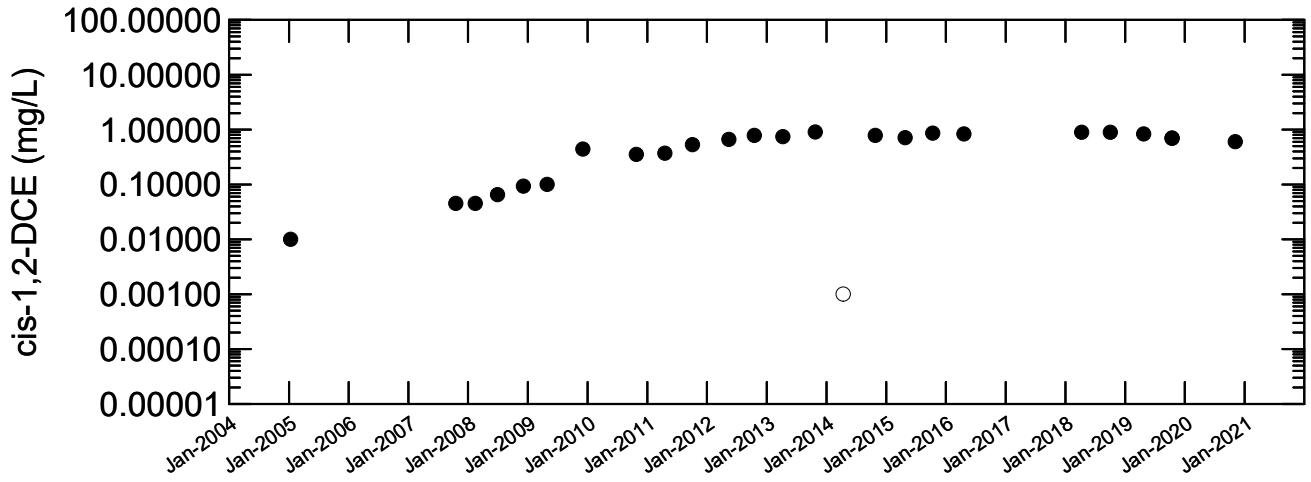
Legend:

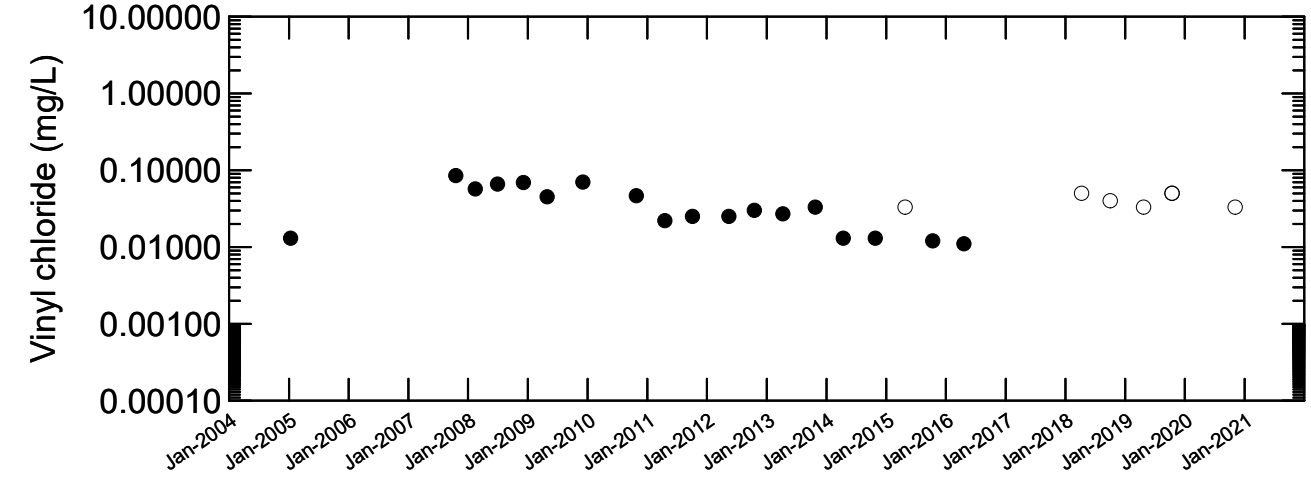
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 46

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





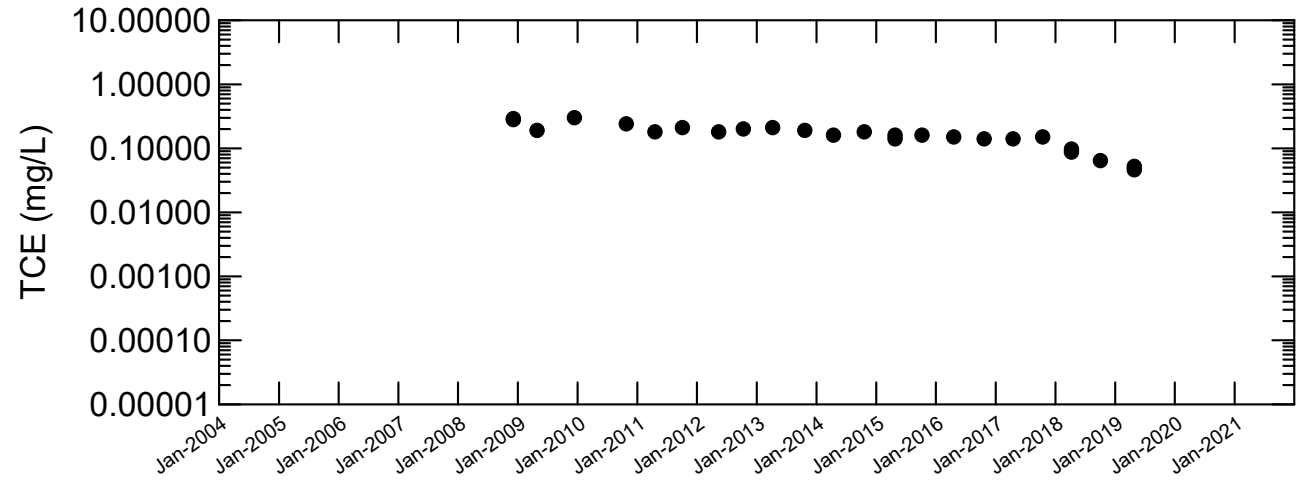


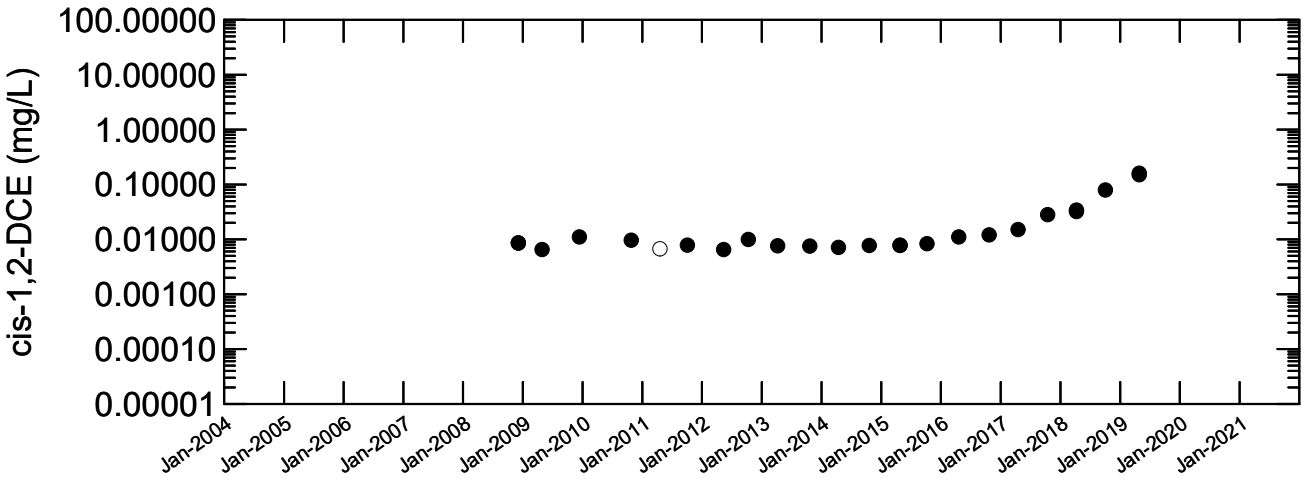
Legend:

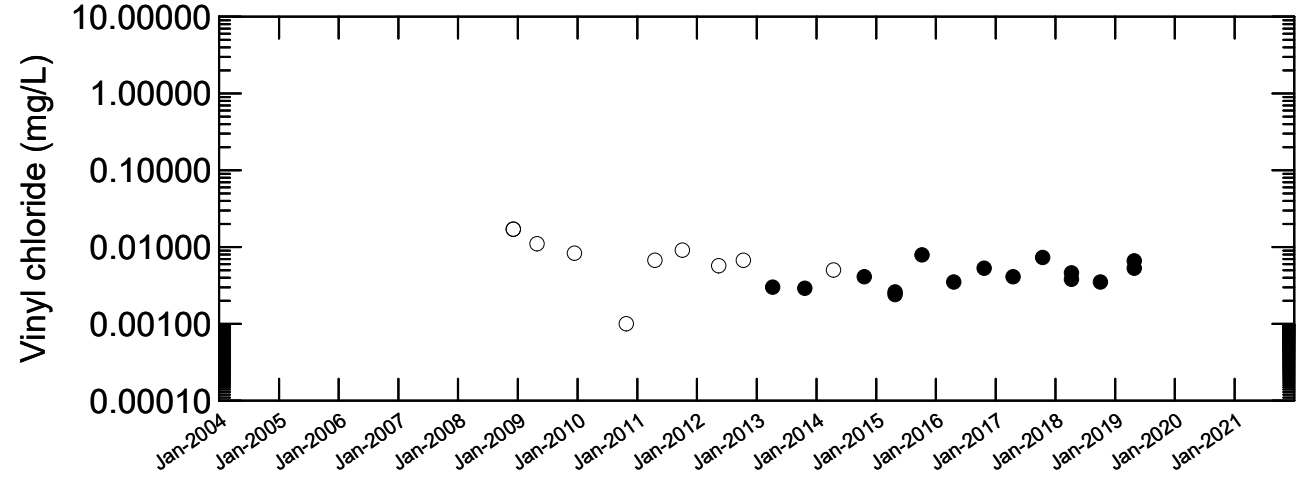
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 49

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





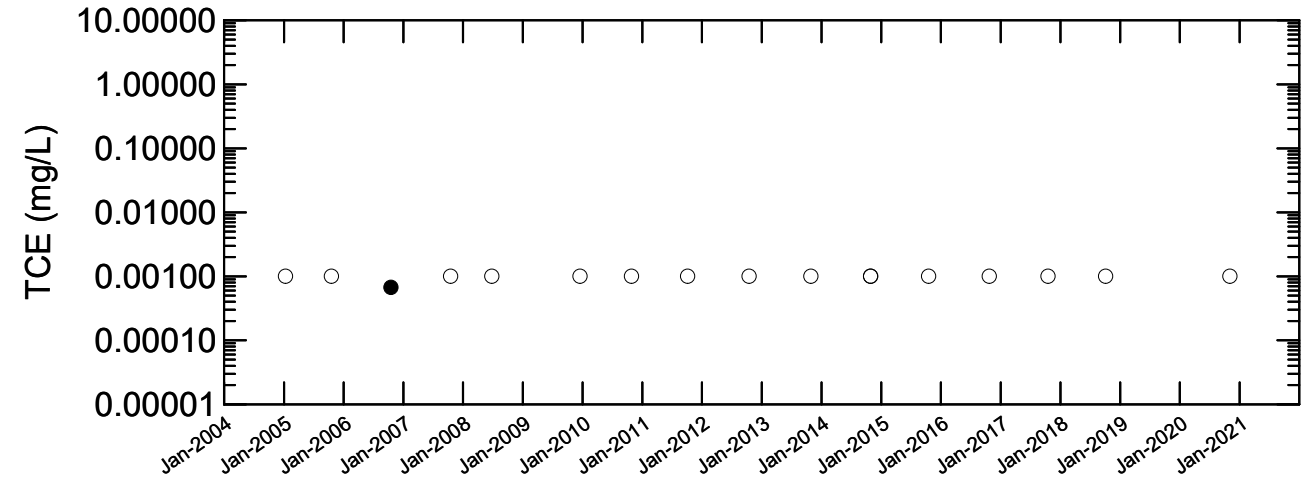


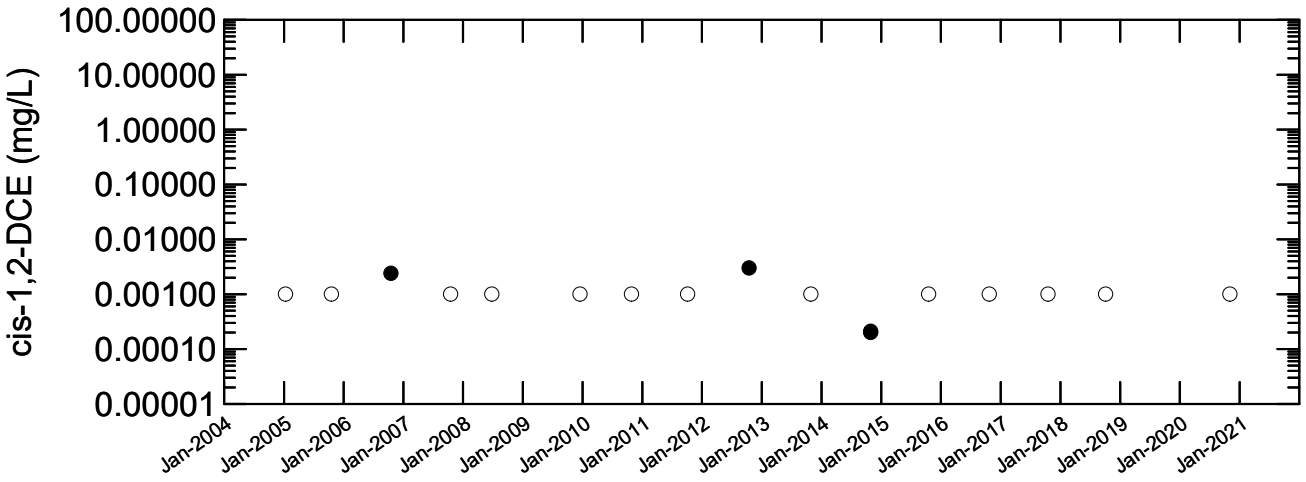
Legend:

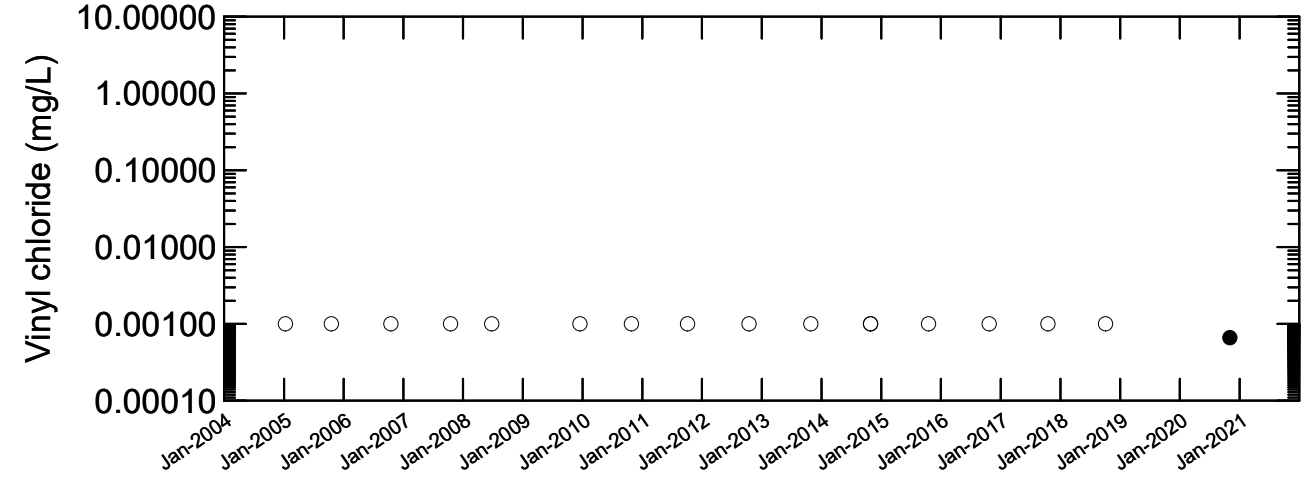
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 51

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





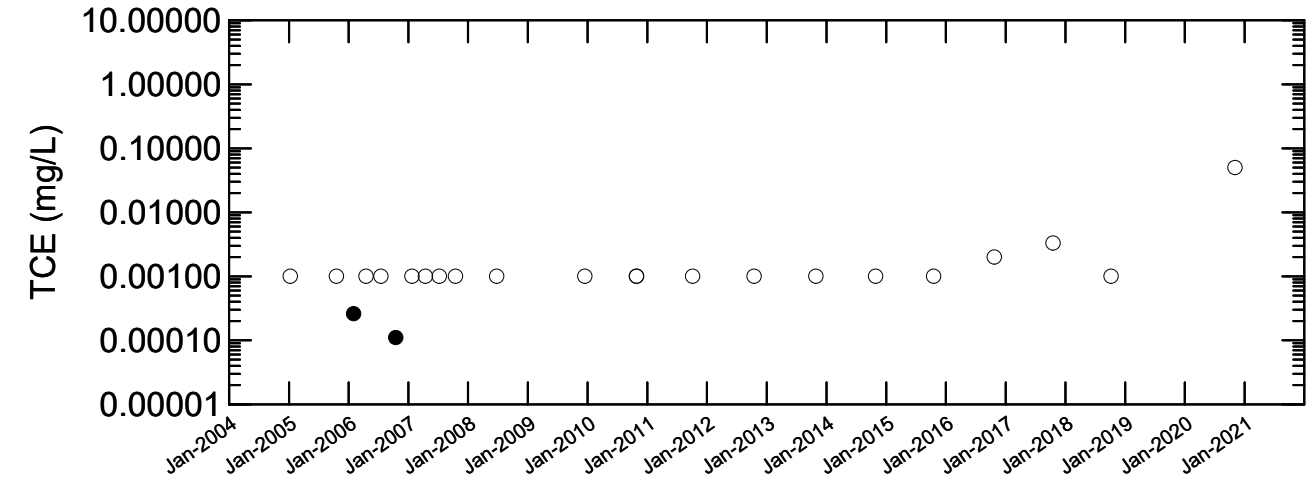


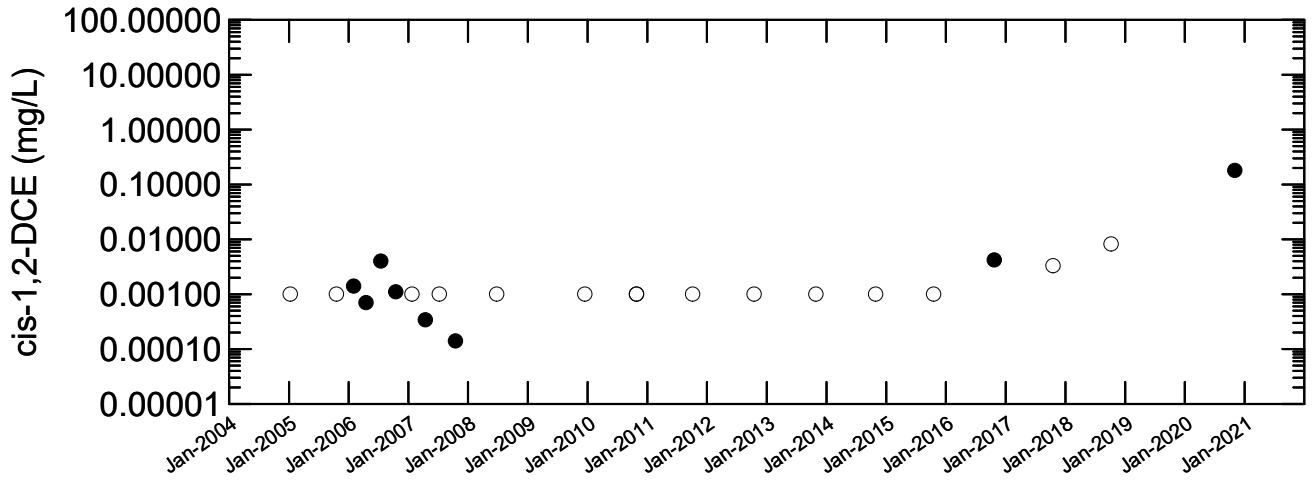
Legend:

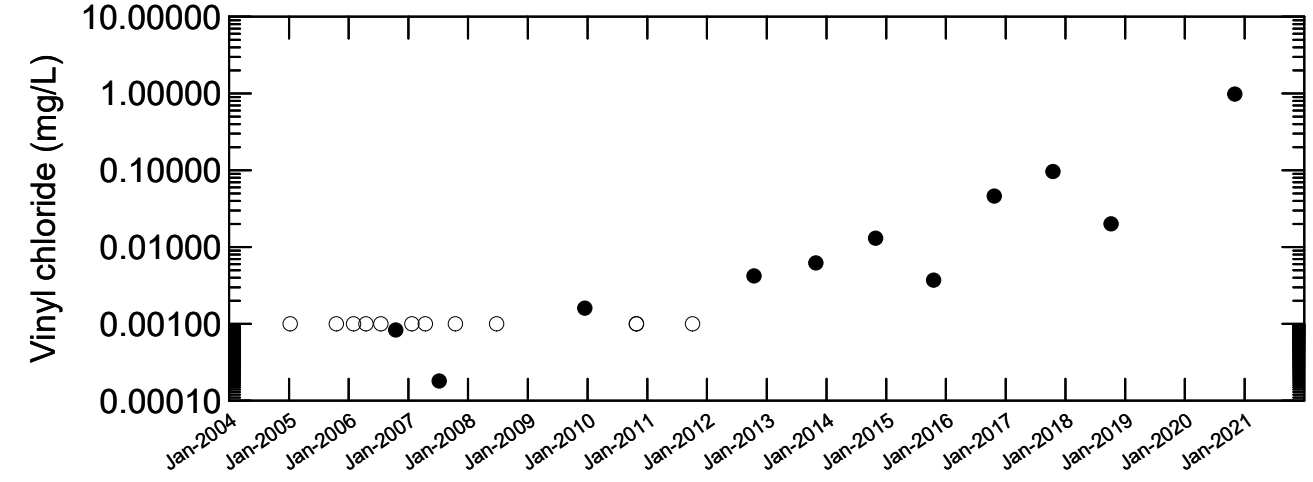
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 56

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





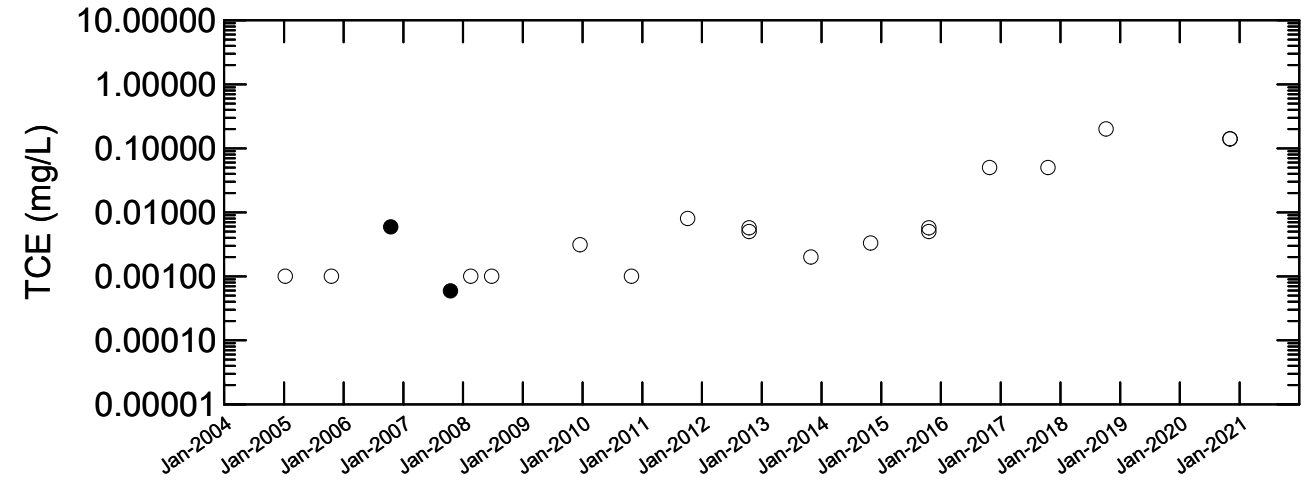


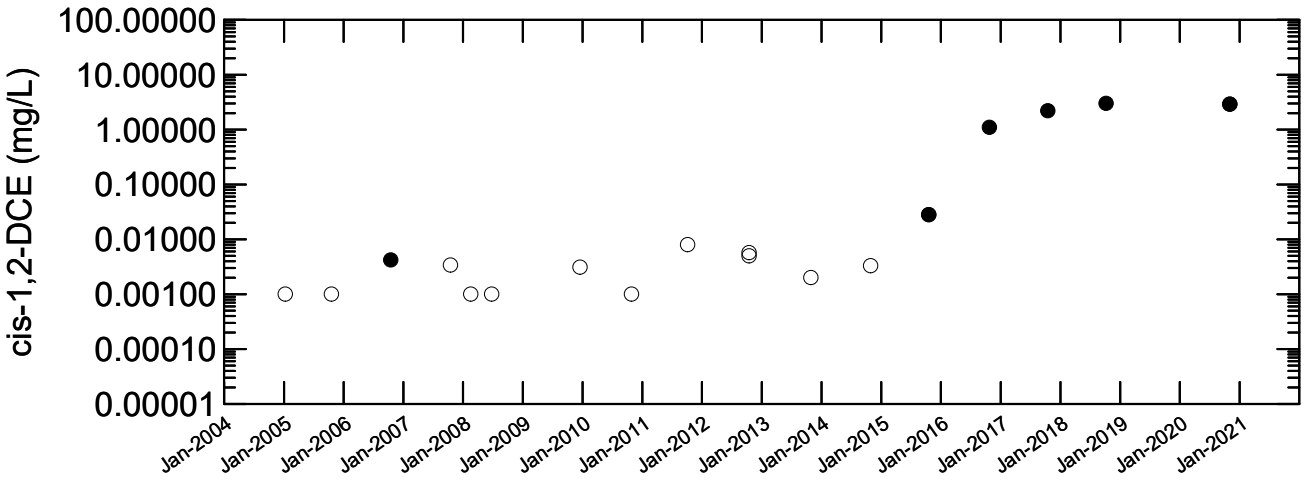
Legend:

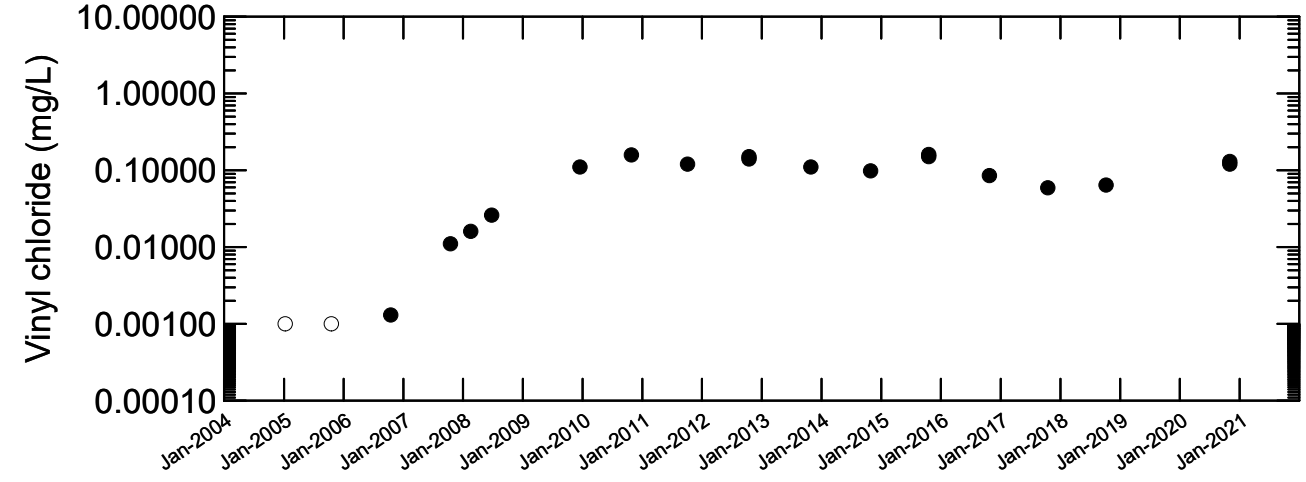
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 57

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





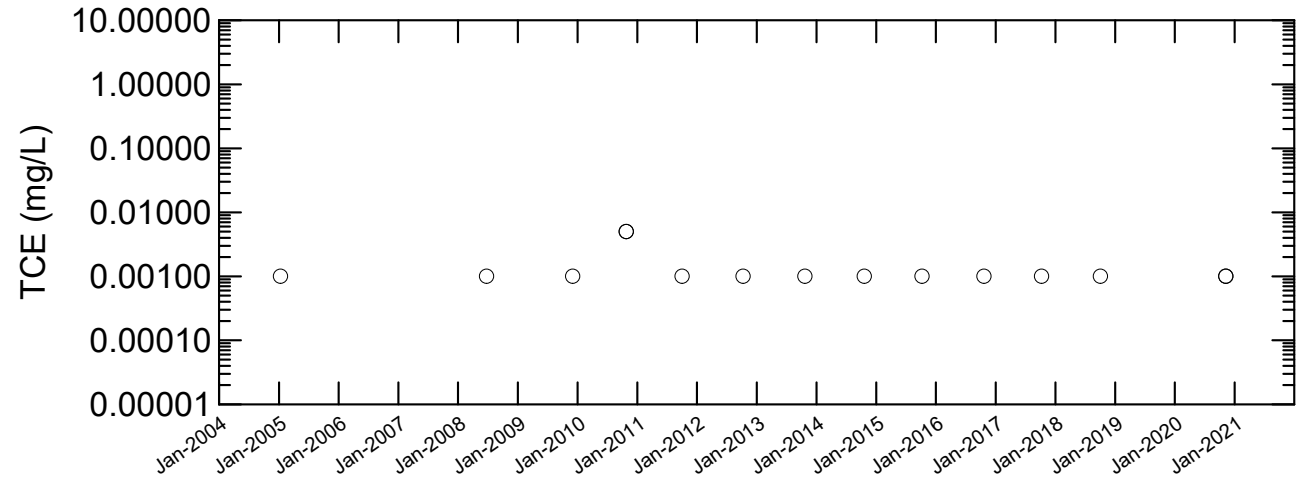


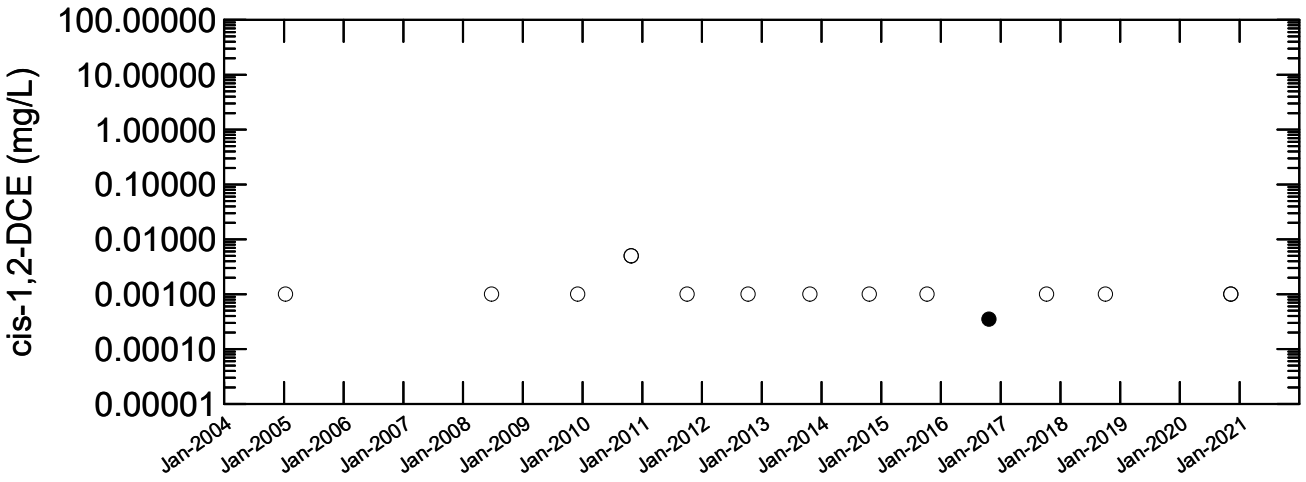
Legend:

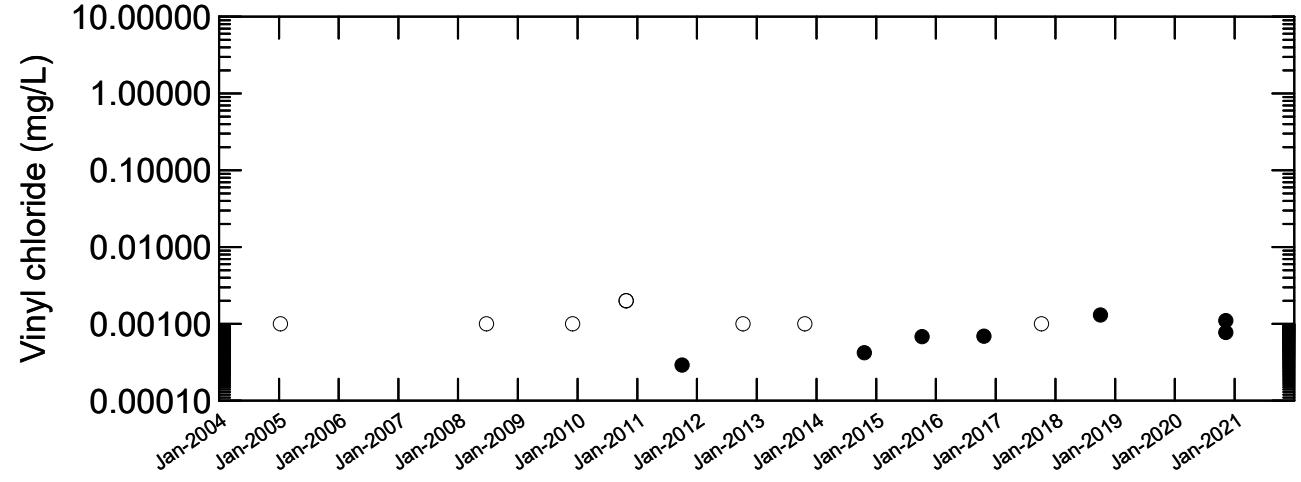
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 58

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





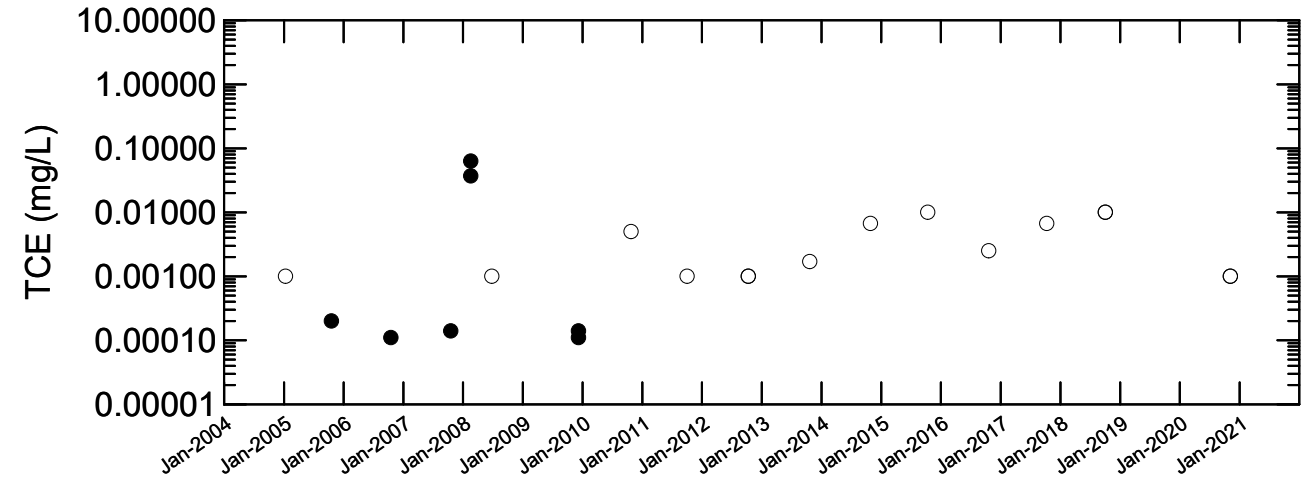


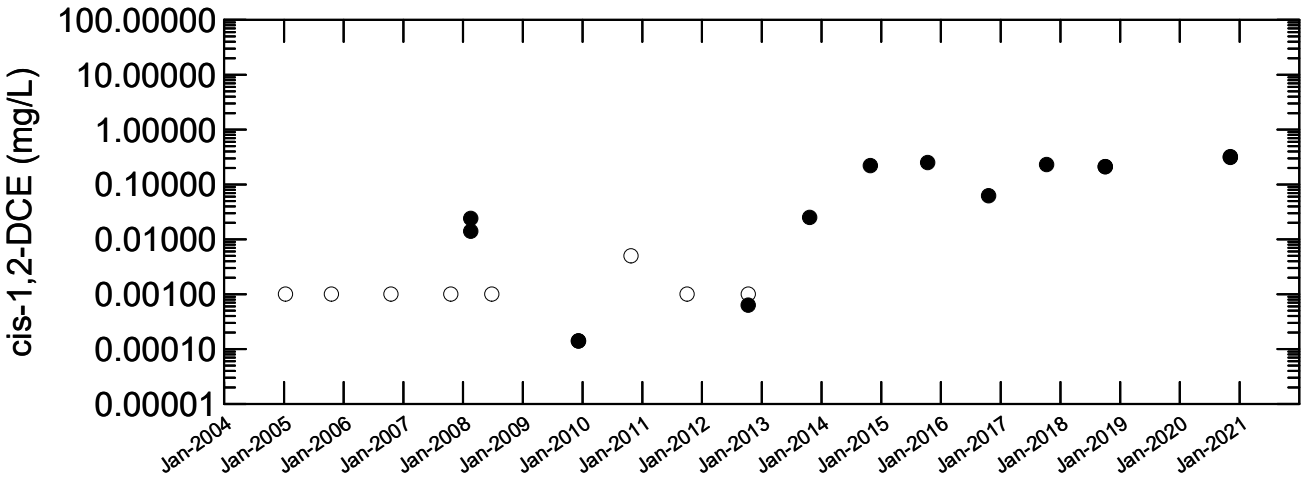
Legend:

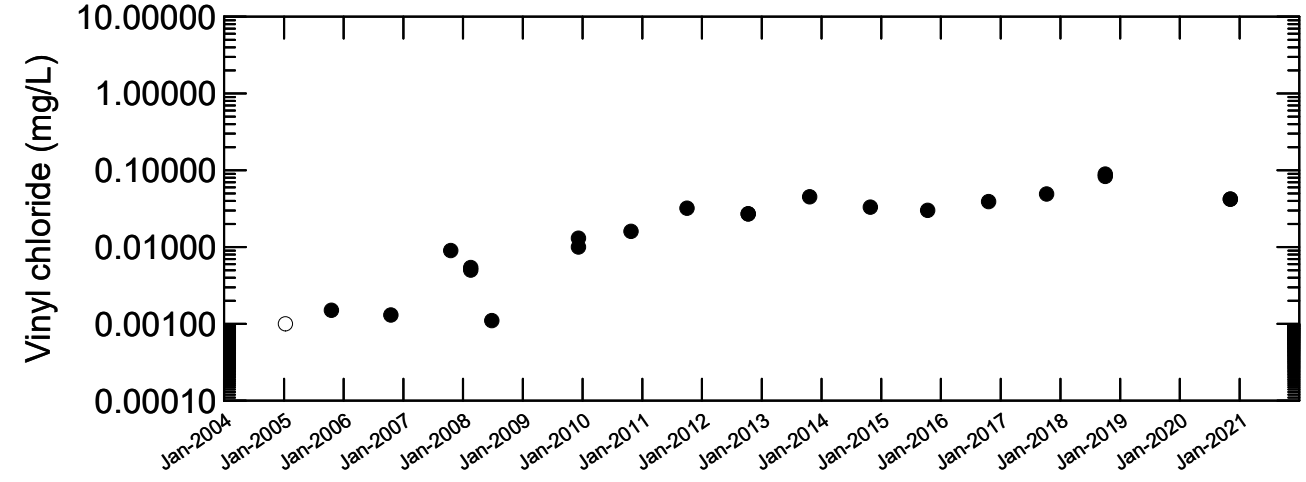
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 61

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





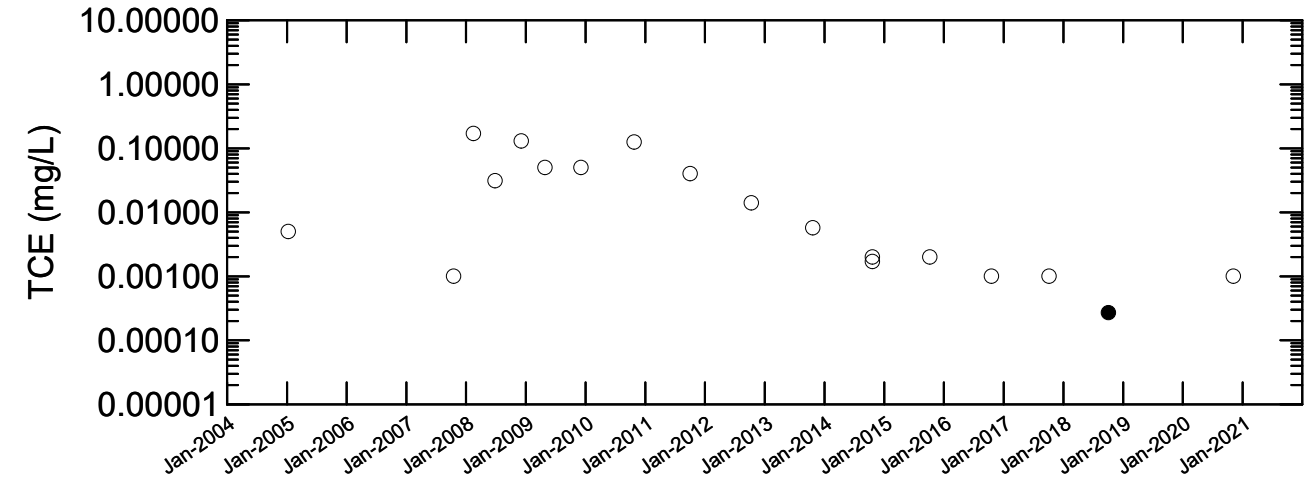


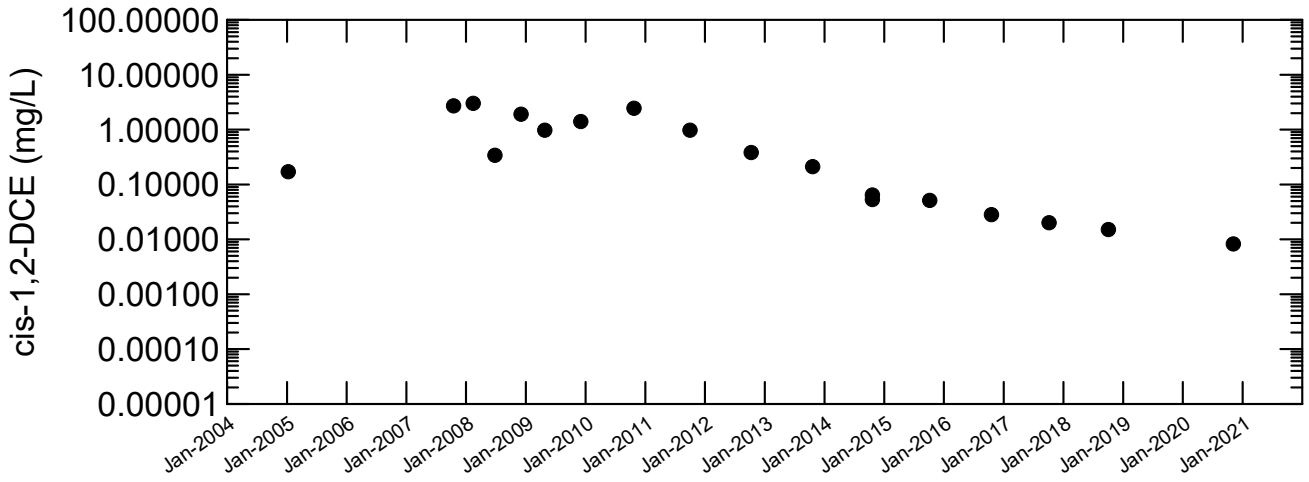
Legend:

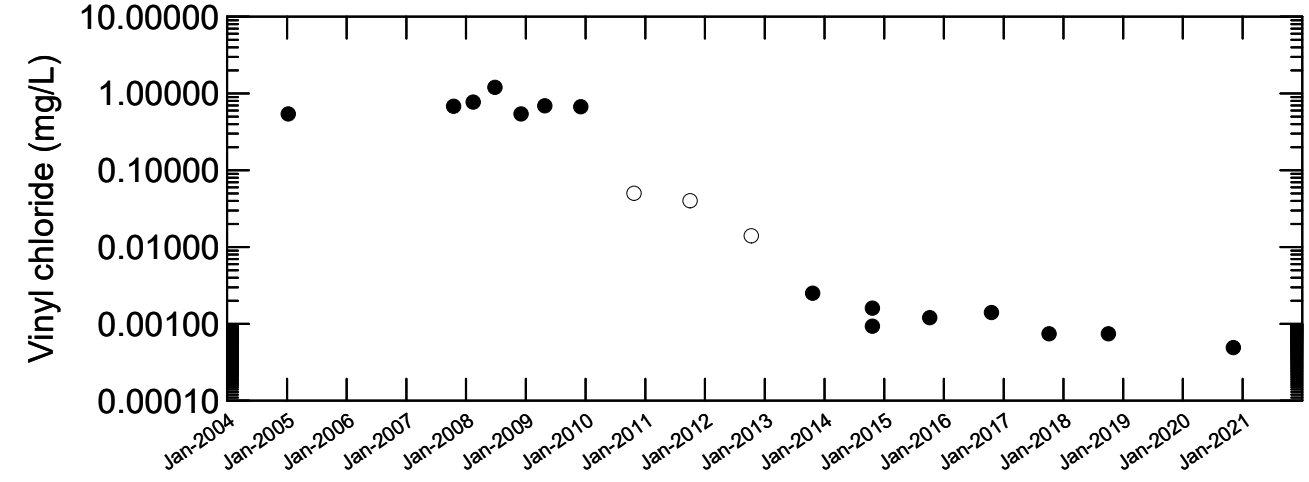
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 64

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana







Legend:

- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

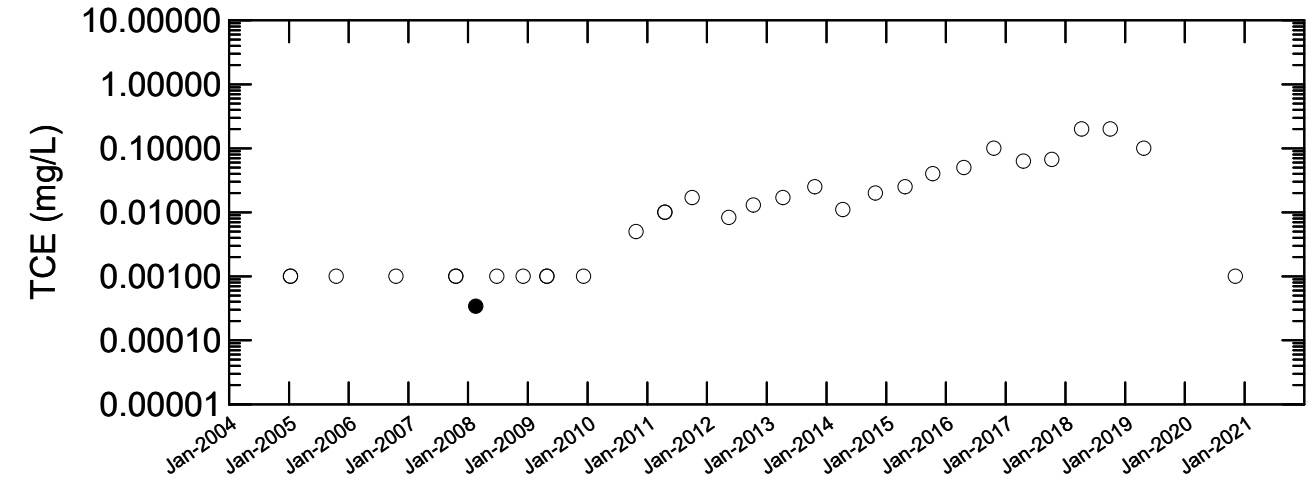
MW 65

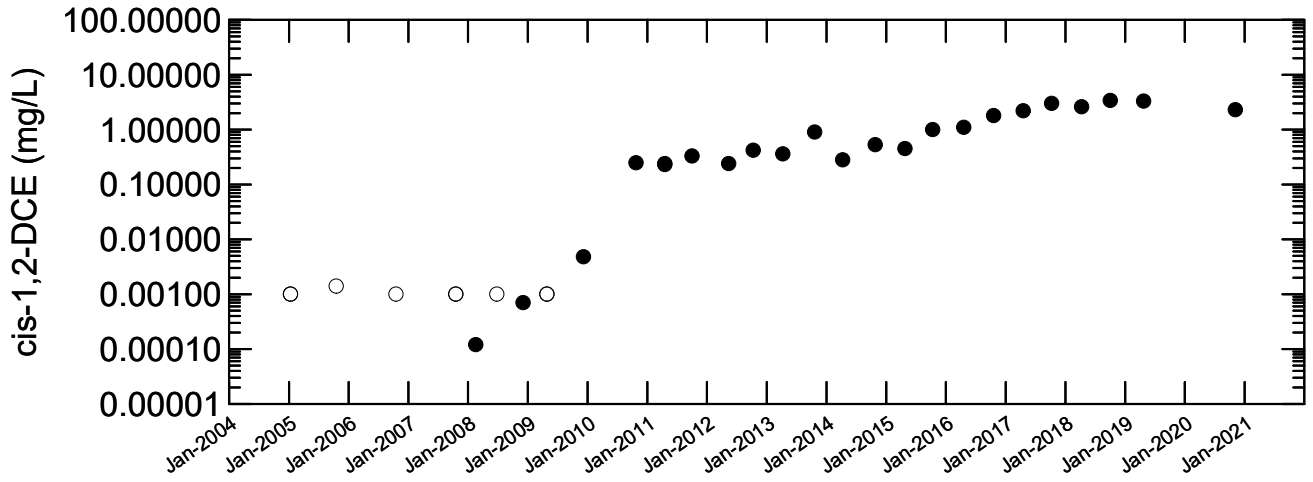
CONCENTRATION vs. TIME GRAPHS

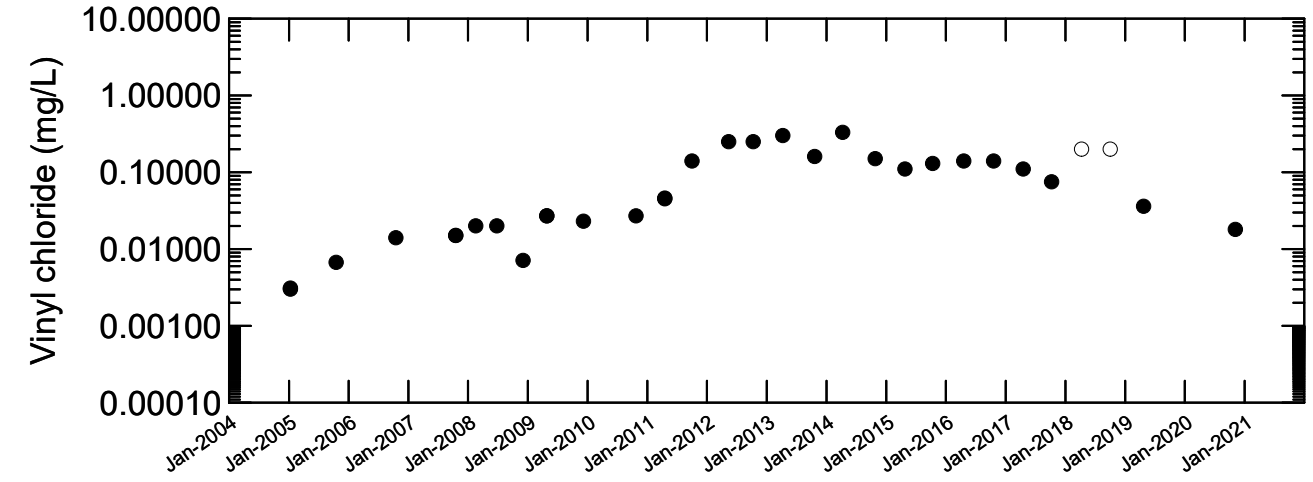
2020 ANNUAL GROUNDWATER MONITORING REPORT

2915 MARTIN LUTHER KING JR. BOULEVARD

Anderson, Indiana





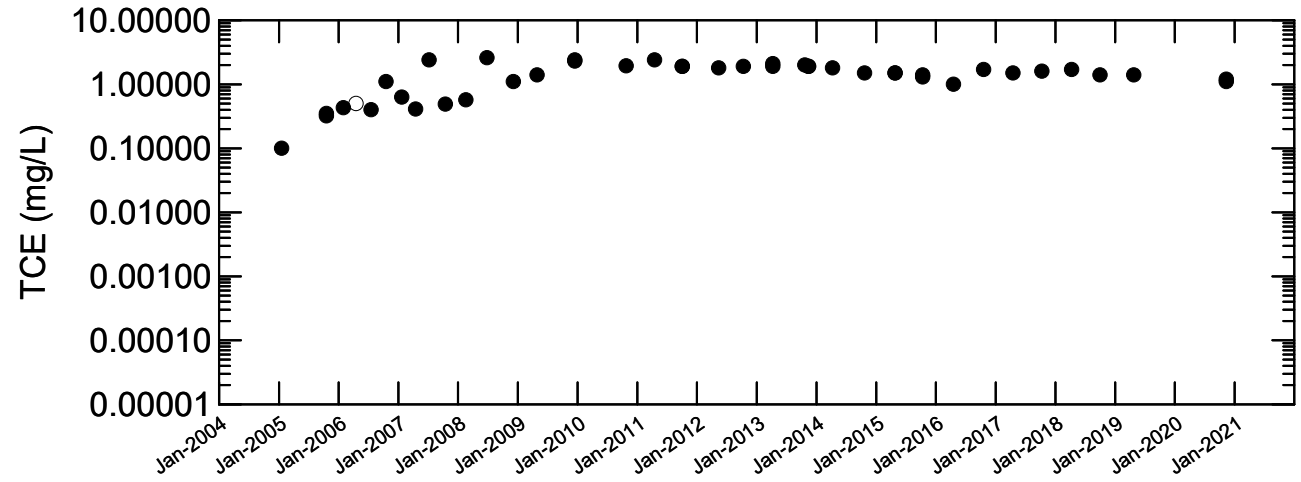


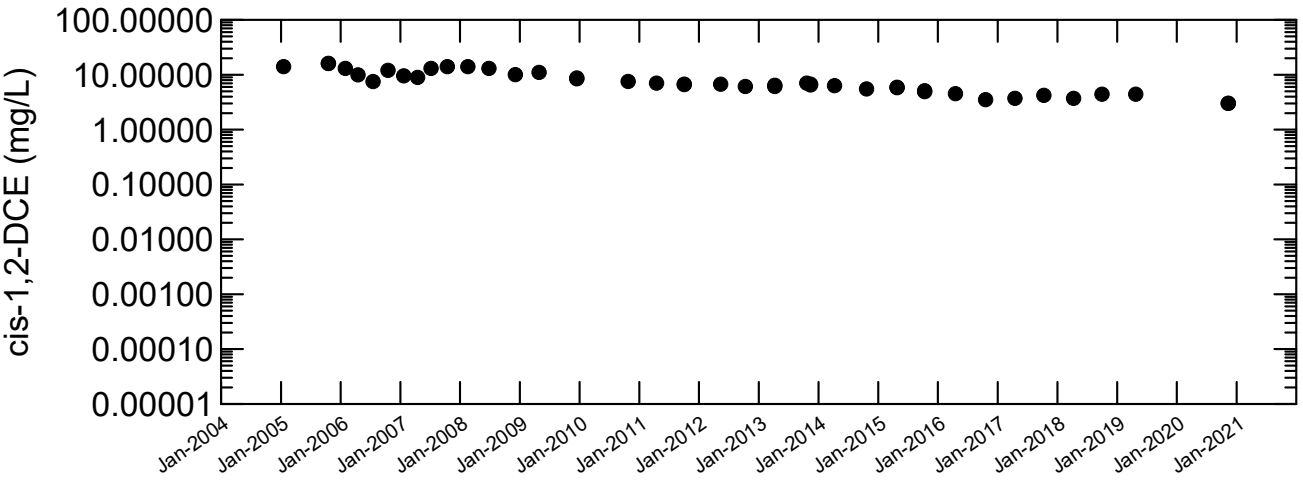
Legend:

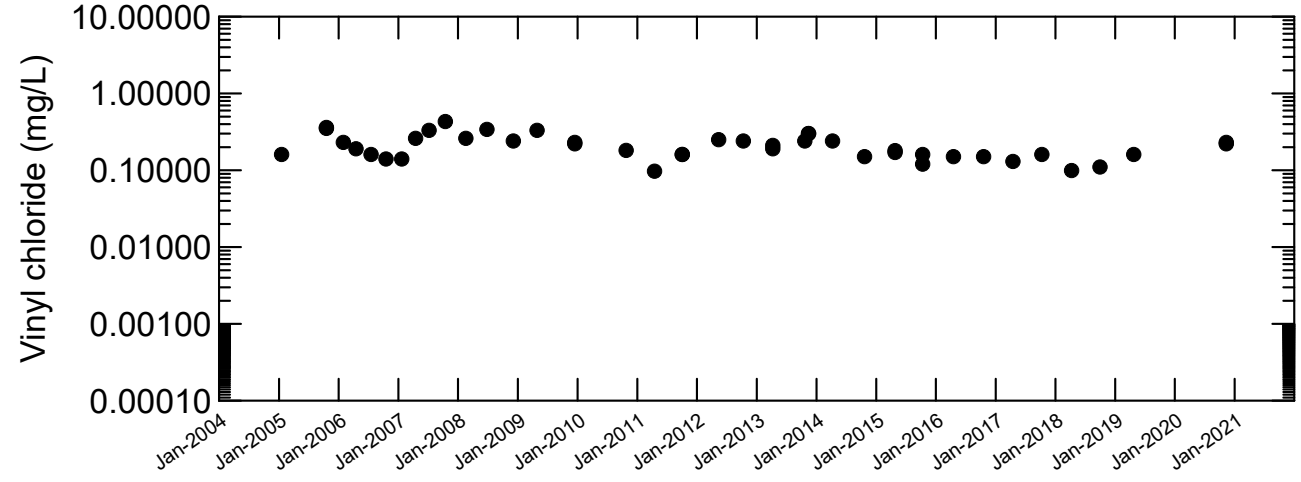
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 66

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





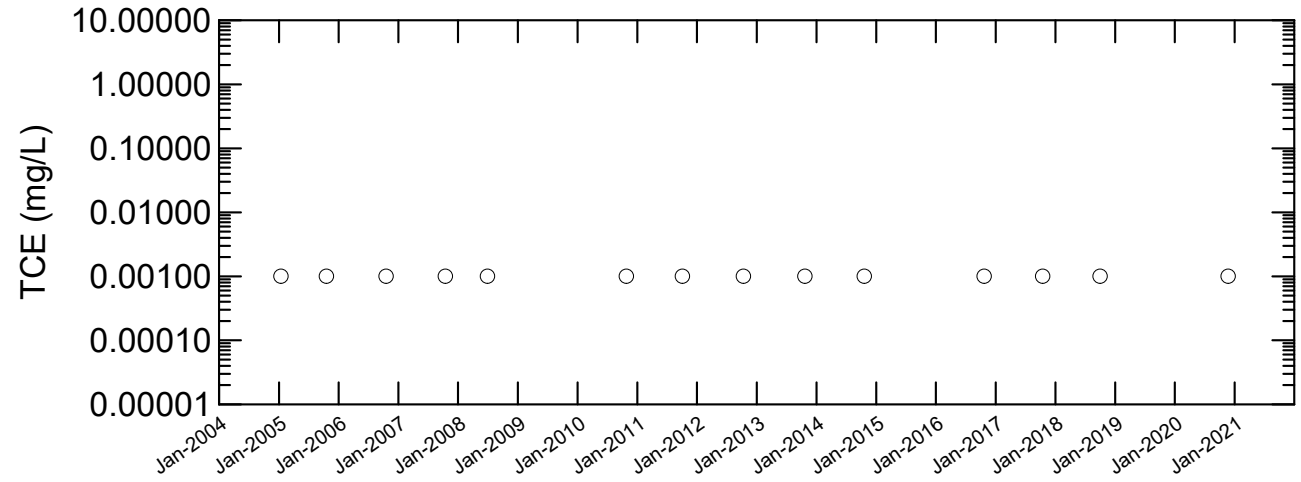


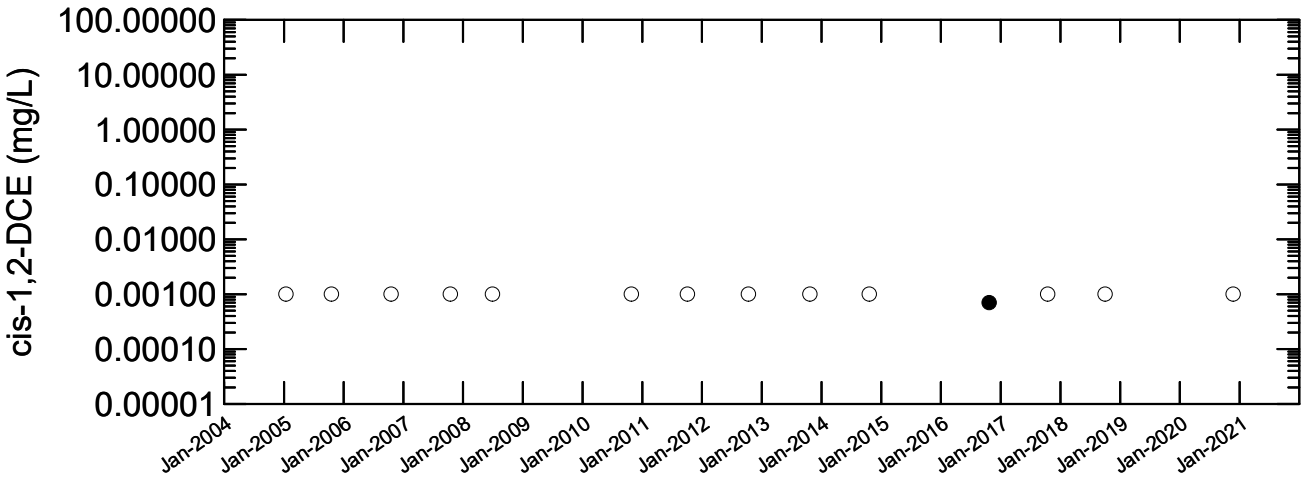
Legend:

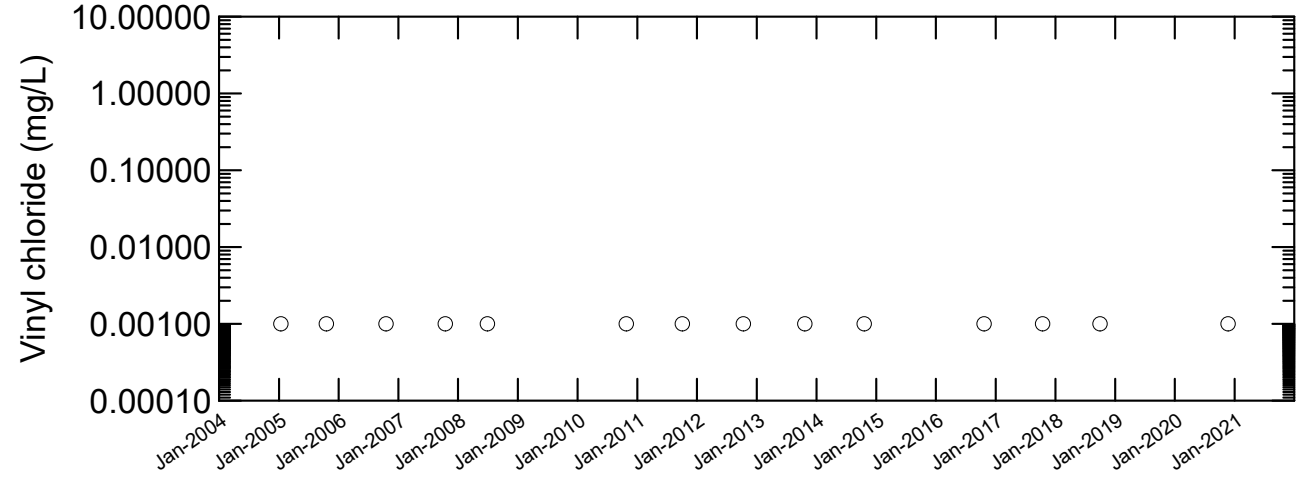
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 68

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





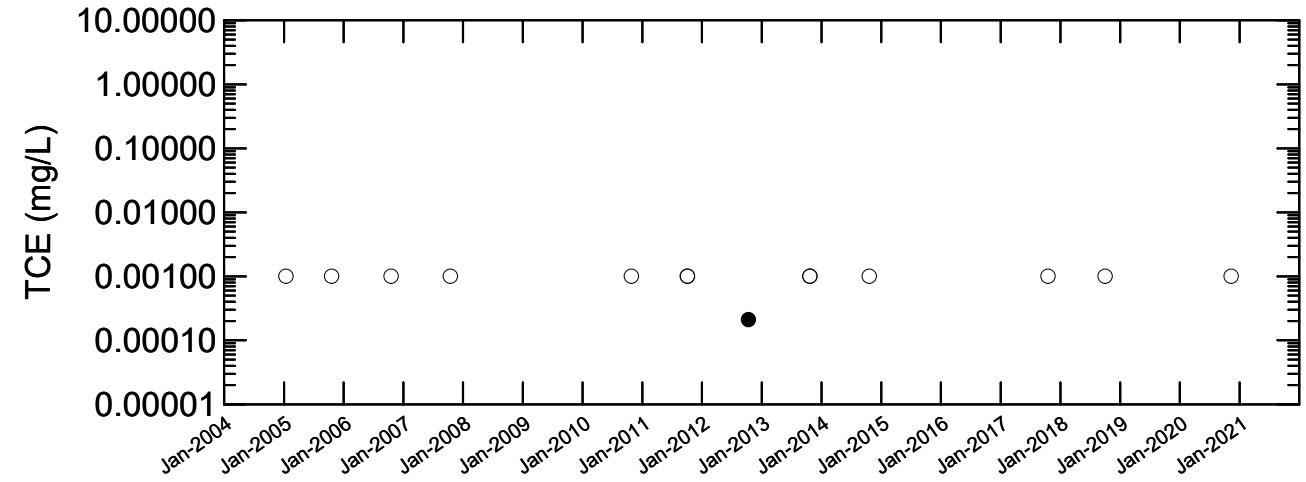


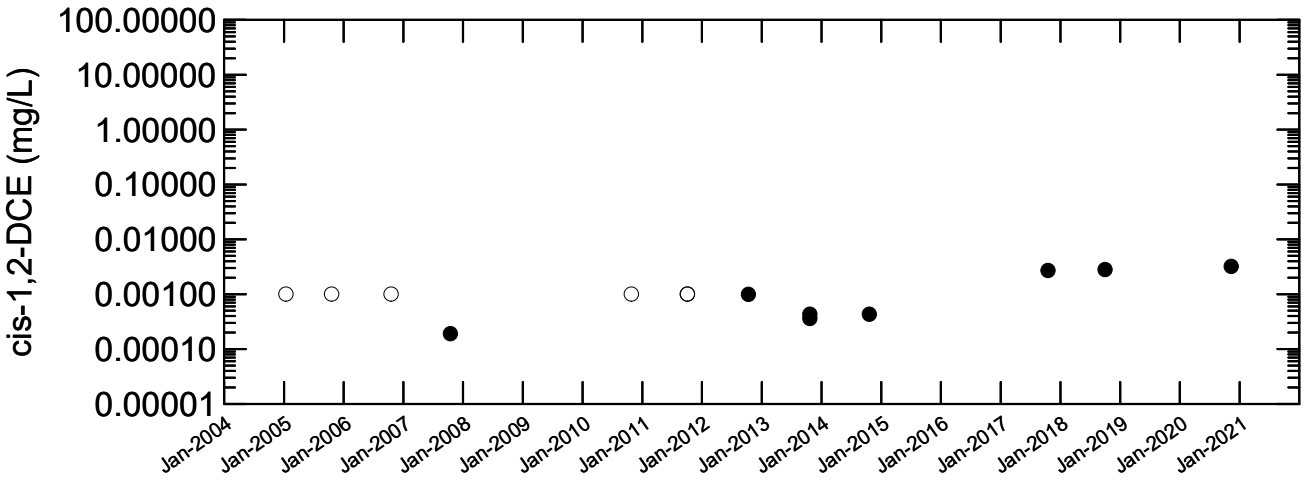
Legend:

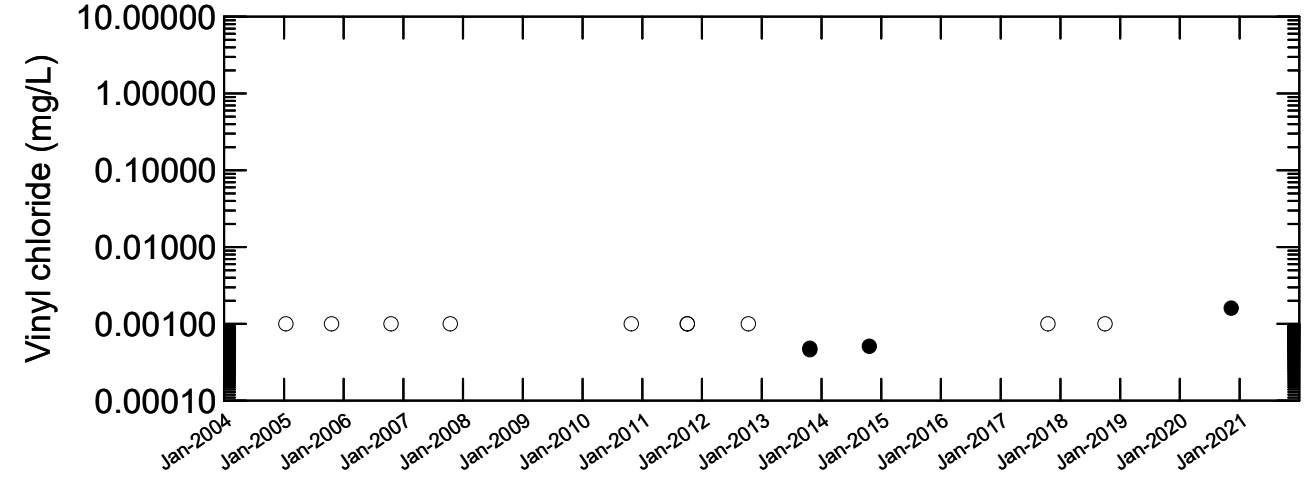
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 75

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana







Legend:

- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

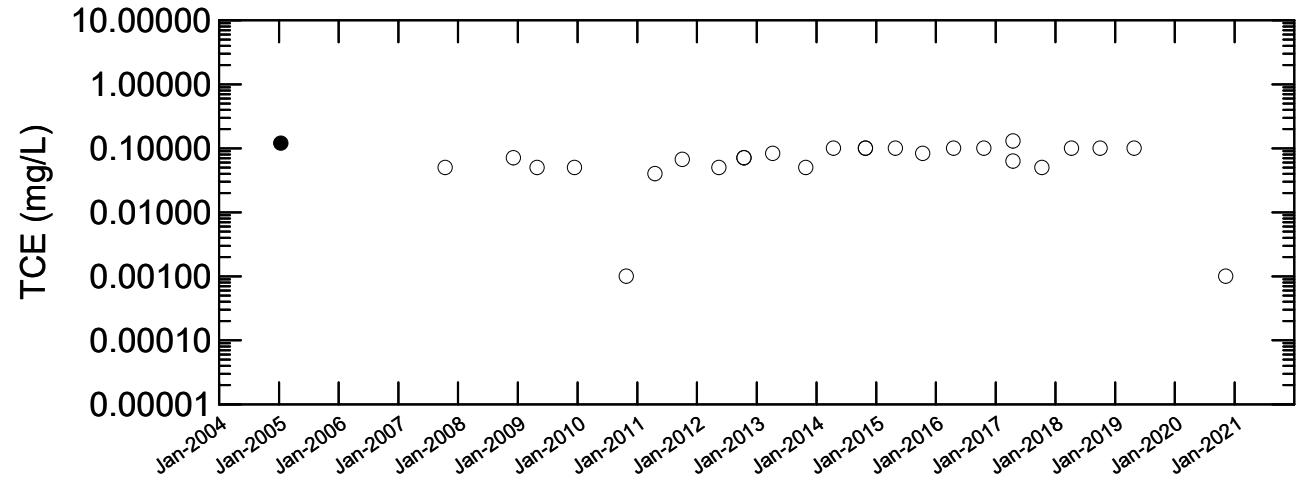
MW 76/MW 76R-17

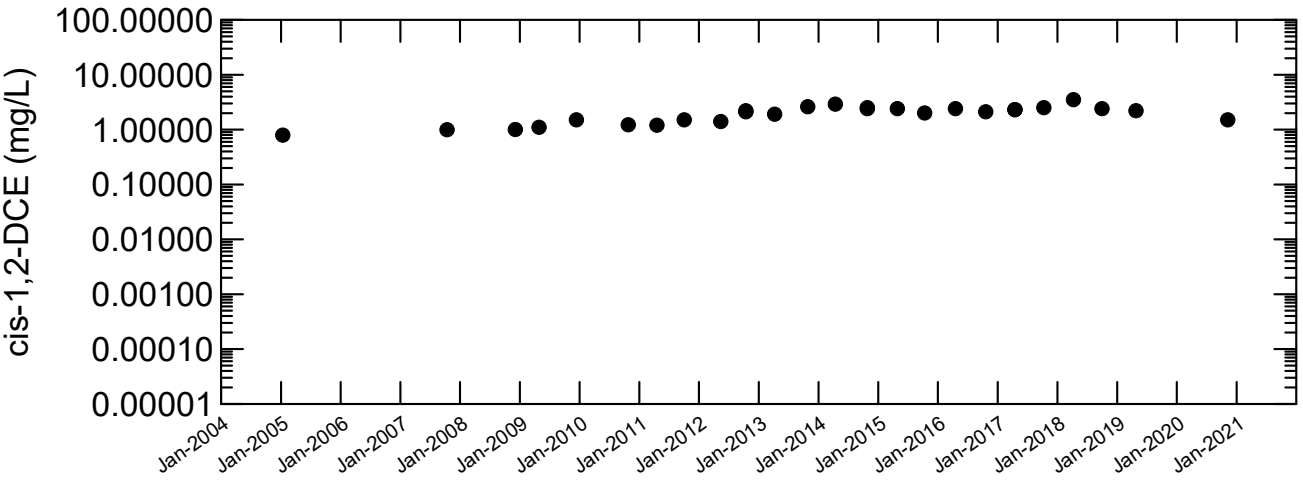
CONCENTRATION vs. TIME GRAPHS

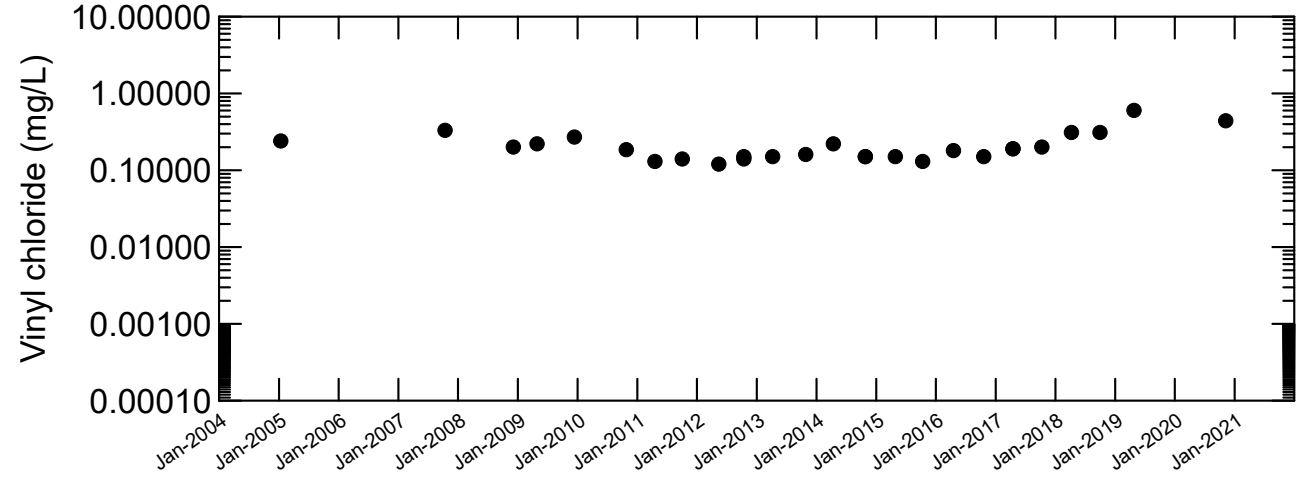
2020 ANNUAL GROUNDWATER MONITORING REPORT

2915 MARTIN LUTHER KING JR. BOULEVARD

Anderson, Indiana







Legend:

- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

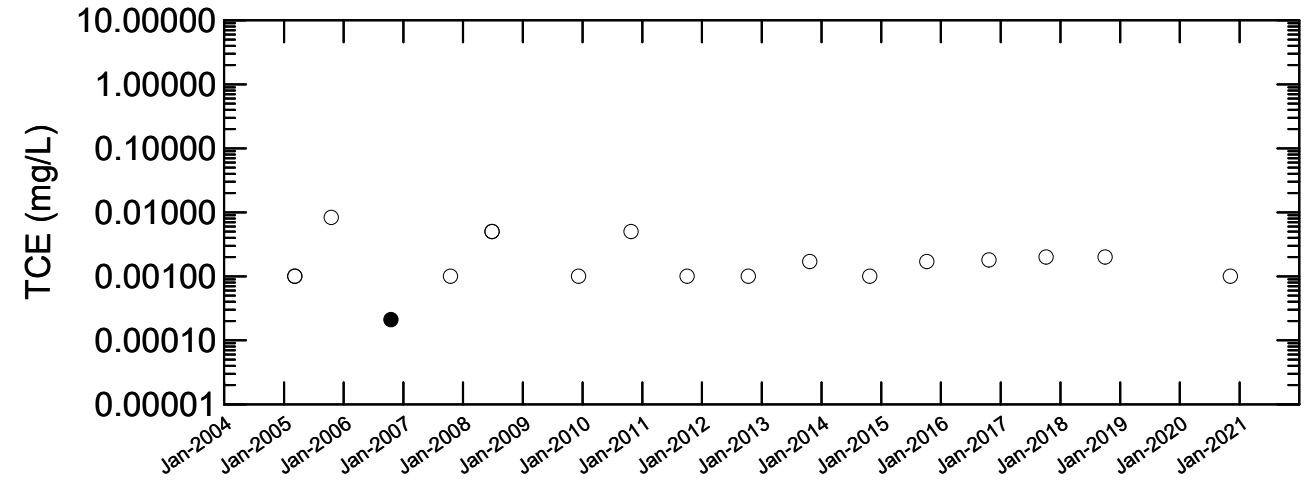
MW 79

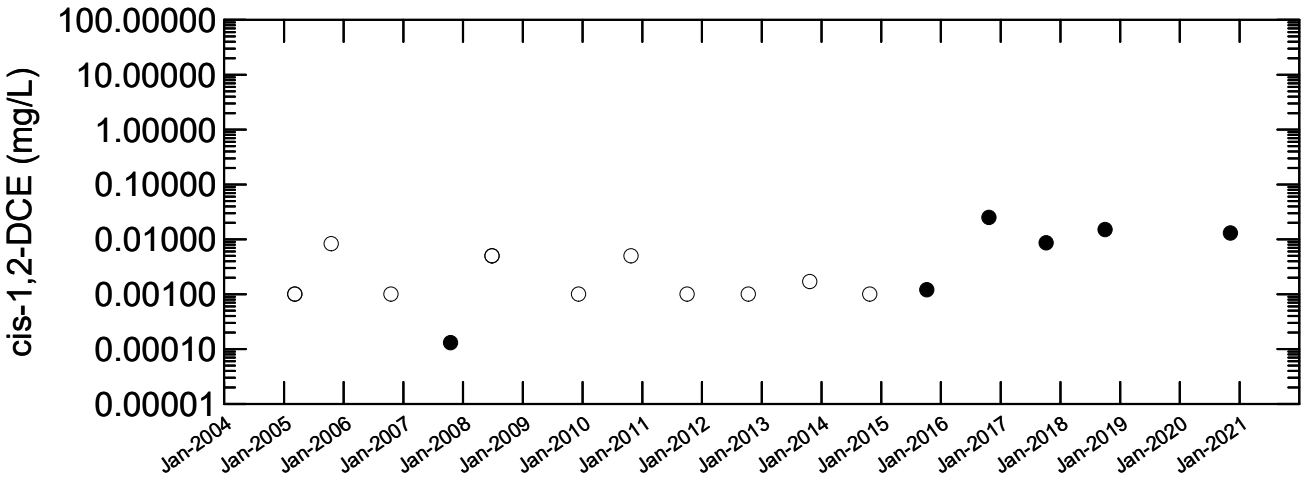
CONCENTRATION vs. TIME GRAPHS

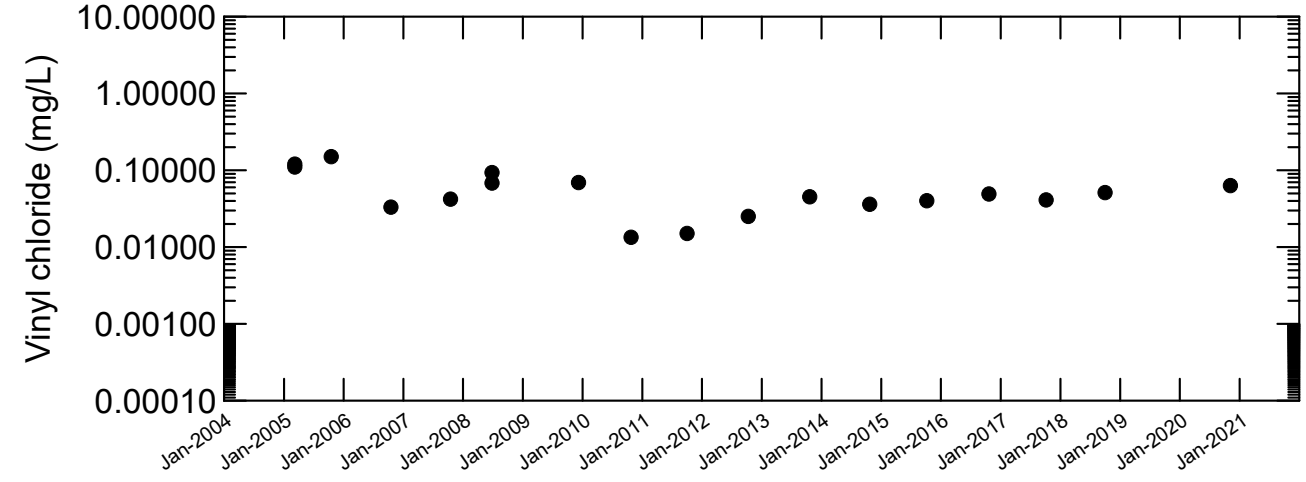
2020 ANNUAL GROUNDWATER MONITORING REPORT

2915 MARTIN LUTHER KING JR. BOULEVARD

Anderson, Indiana





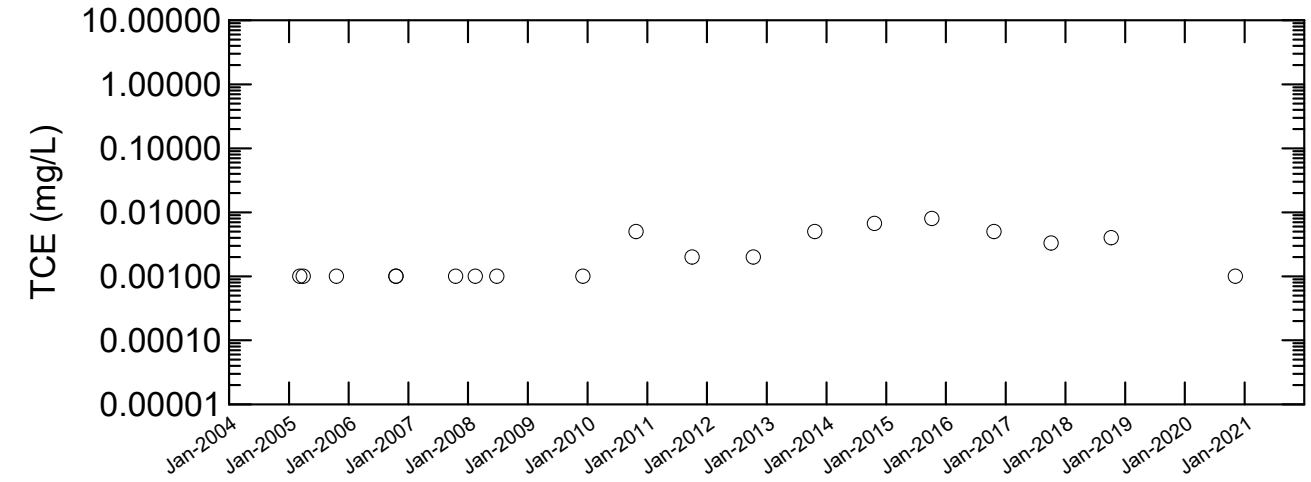


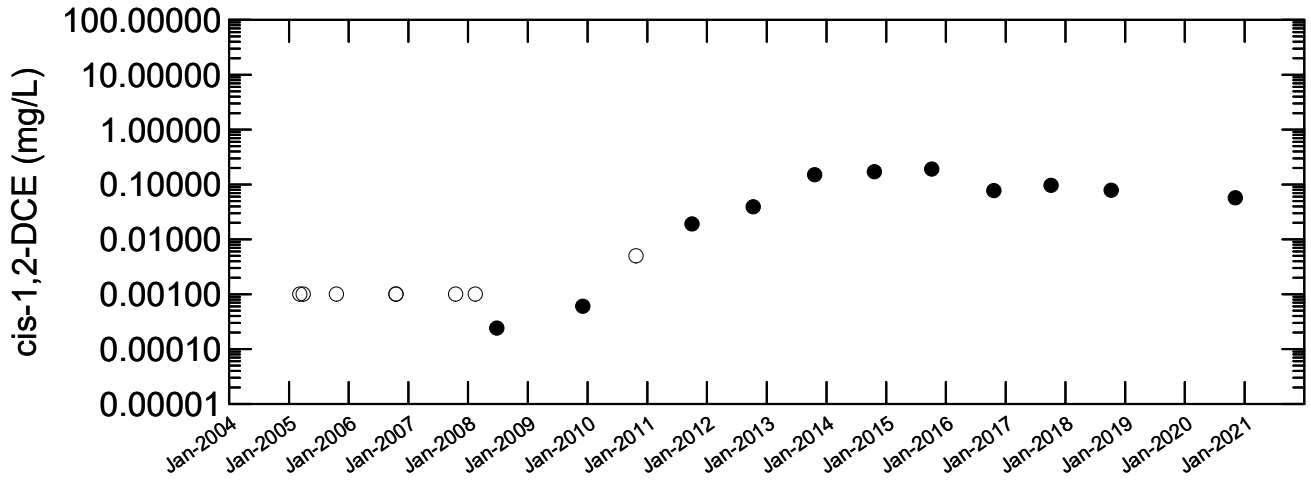
Legend:

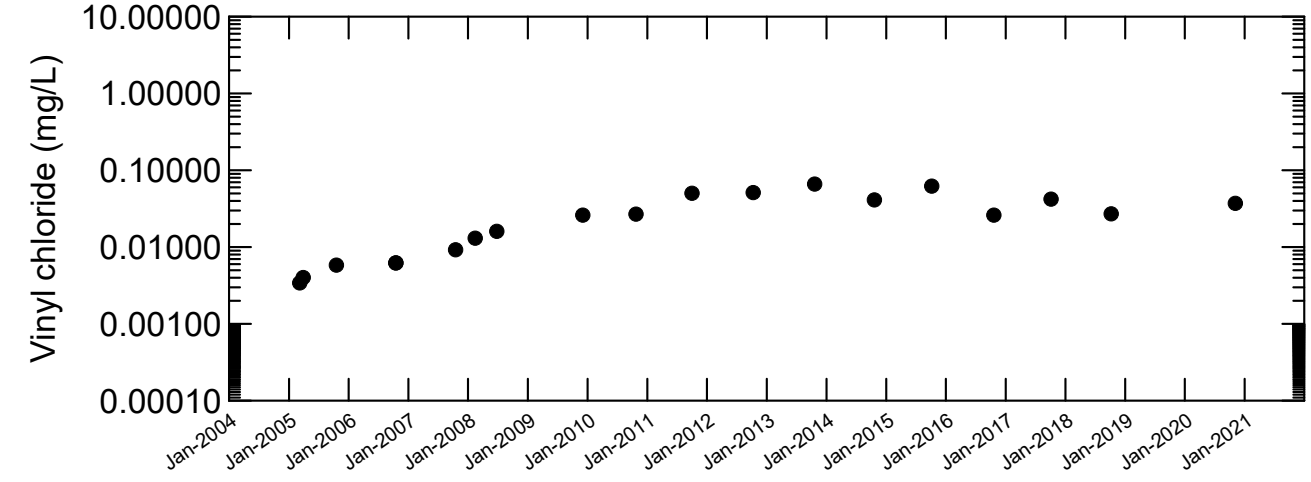
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 80

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





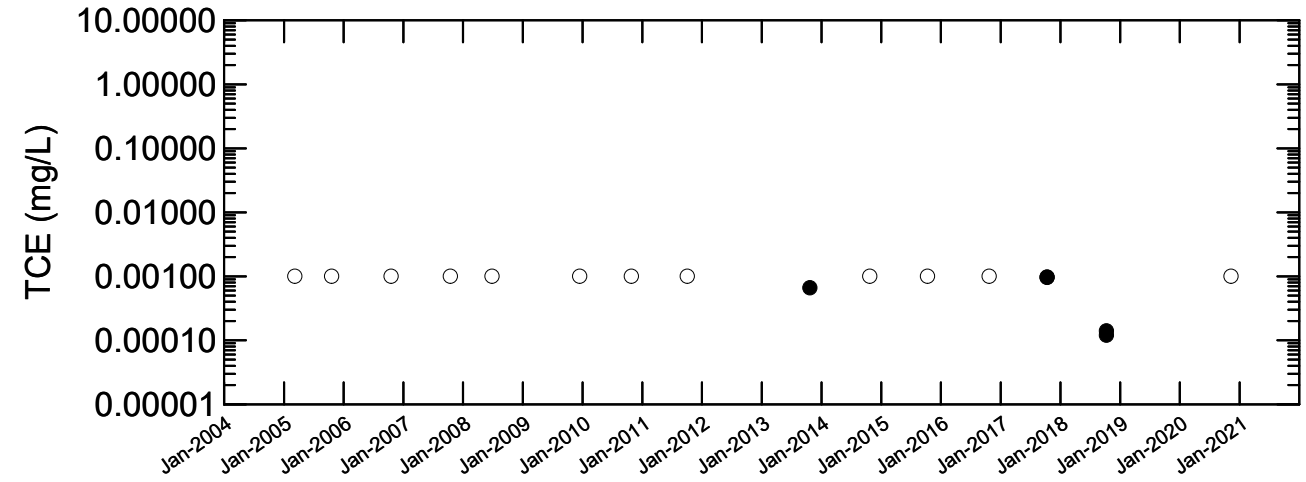


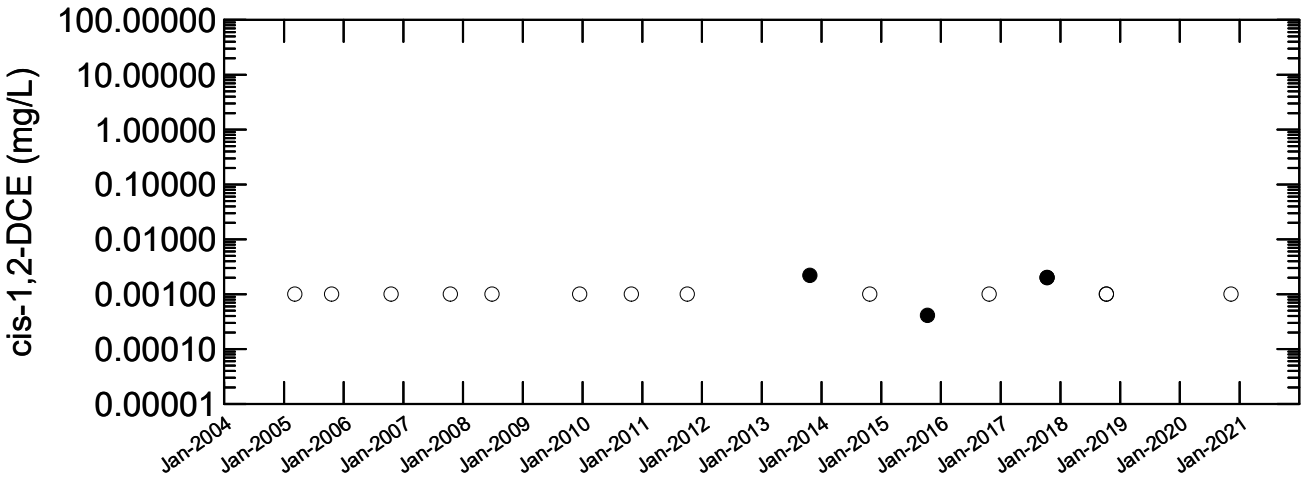
Legend:

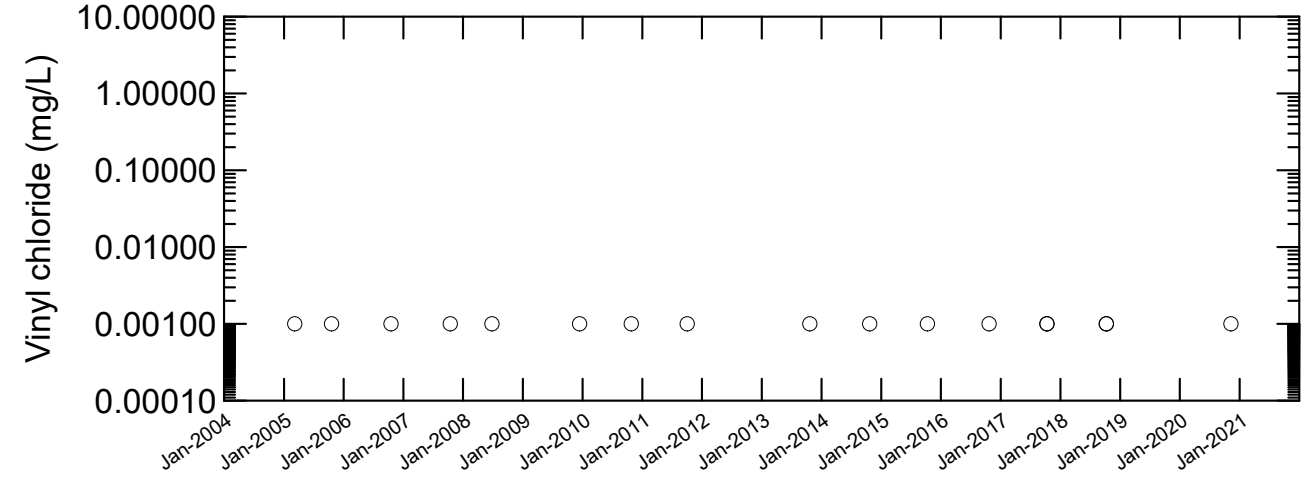
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 81

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





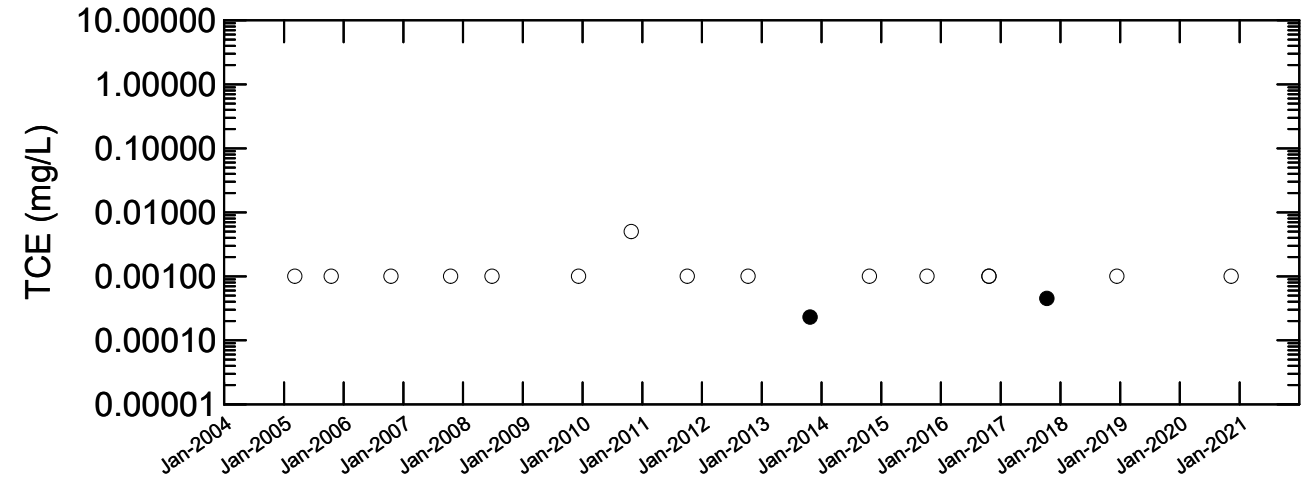


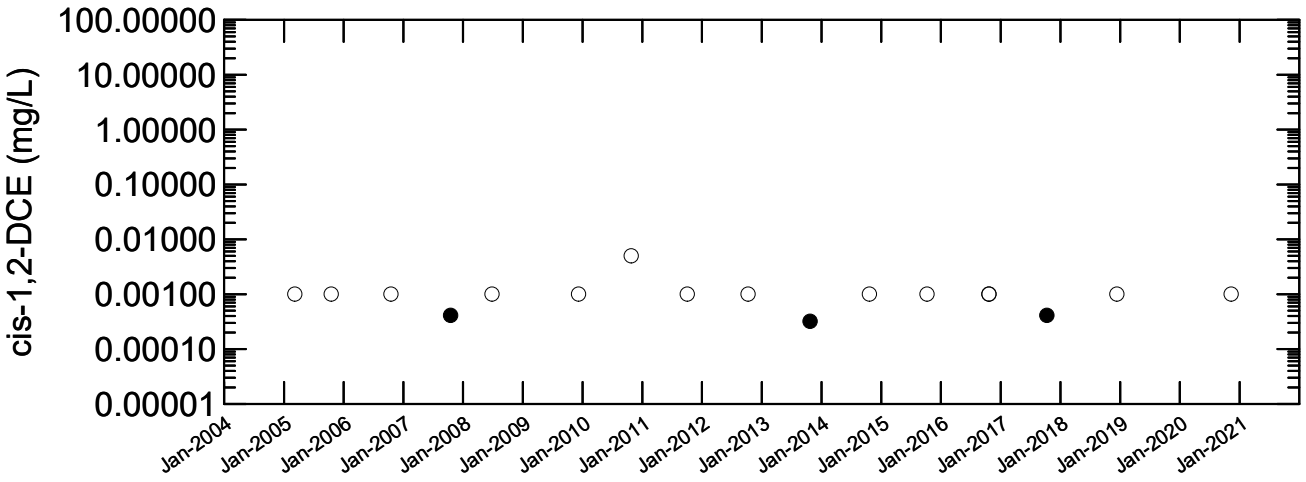
Legend:

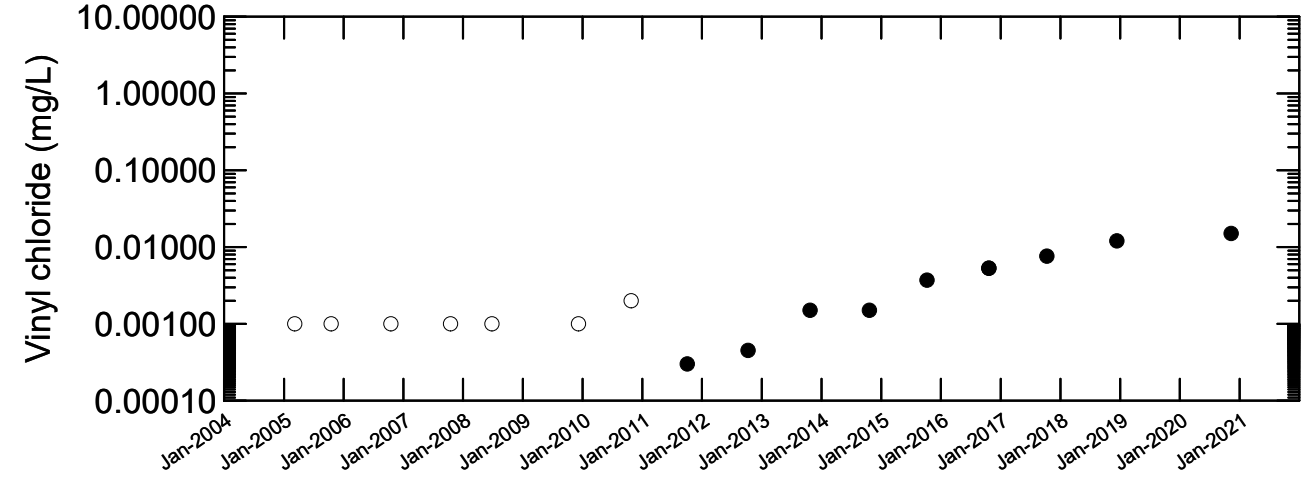
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 82

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





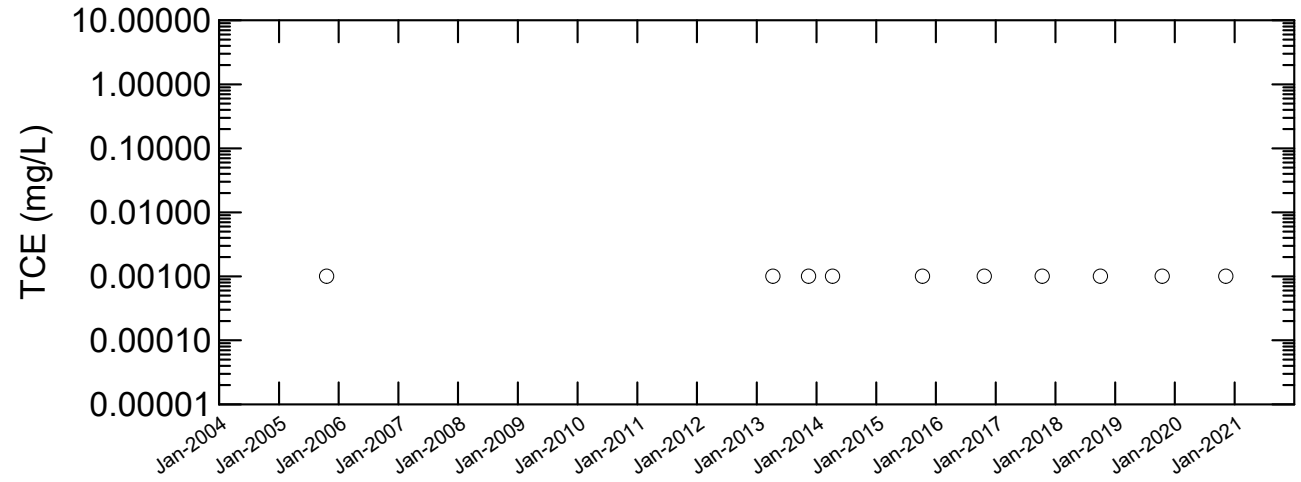


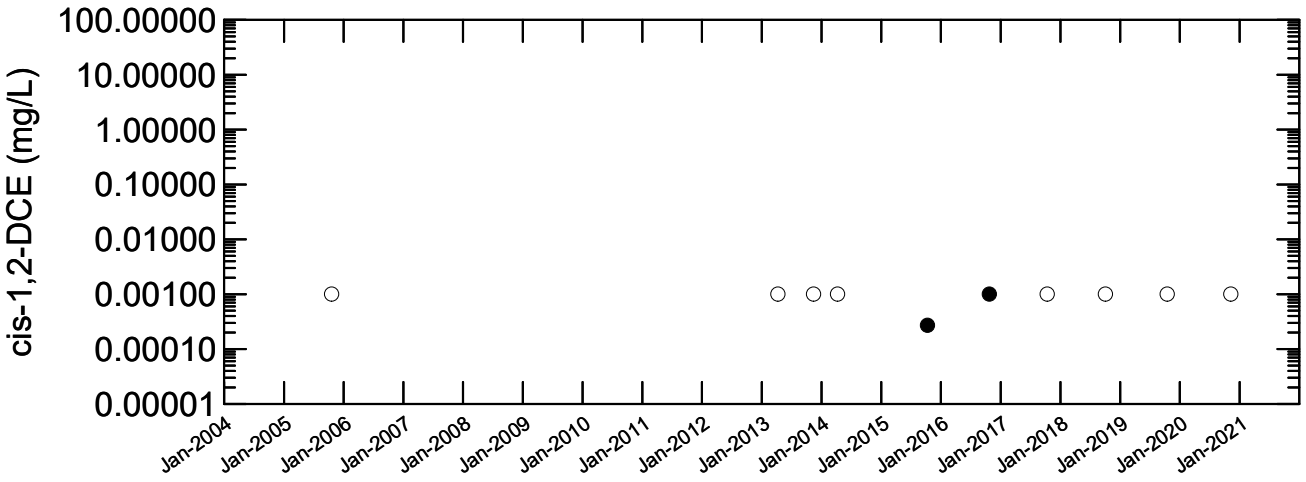
Legend:

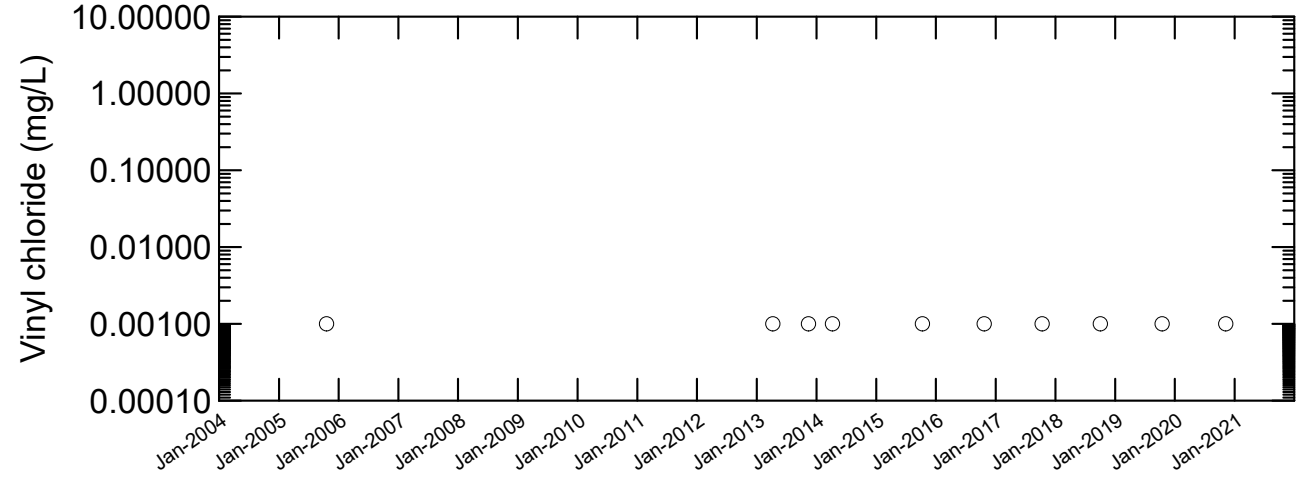
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 83

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





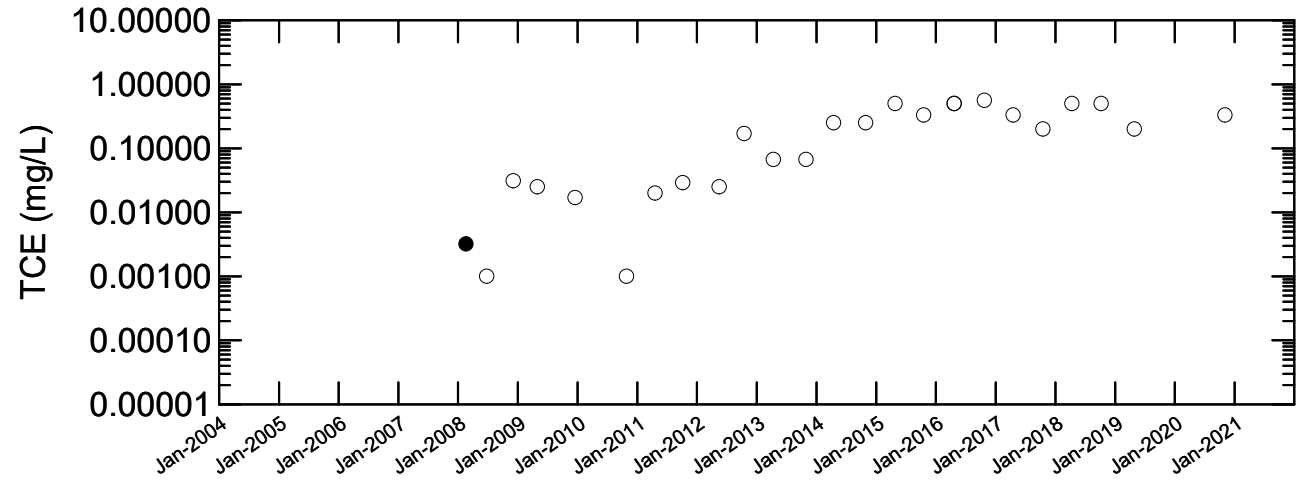


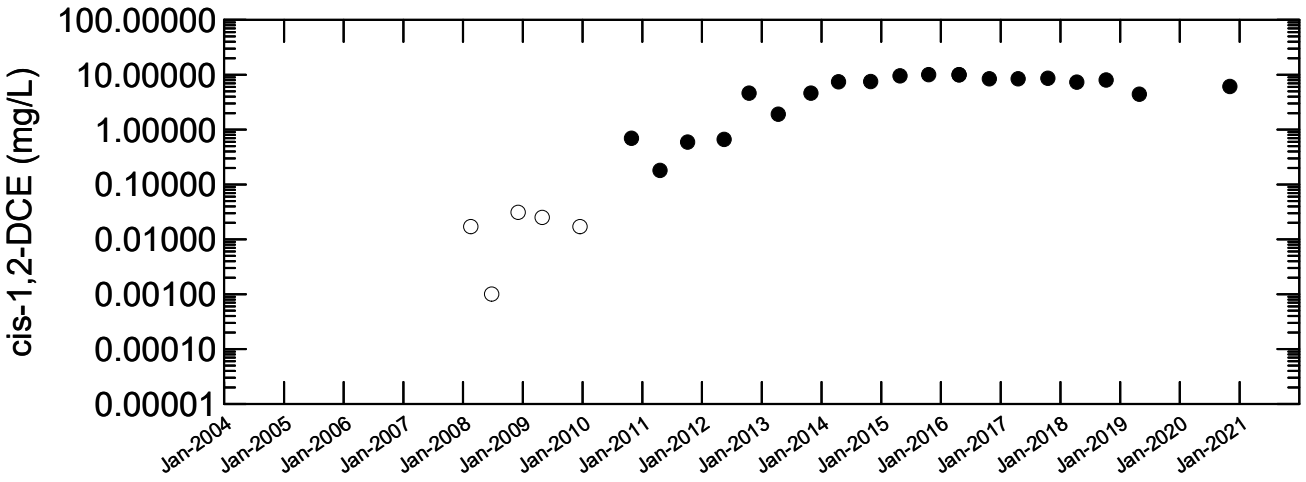
Legend:

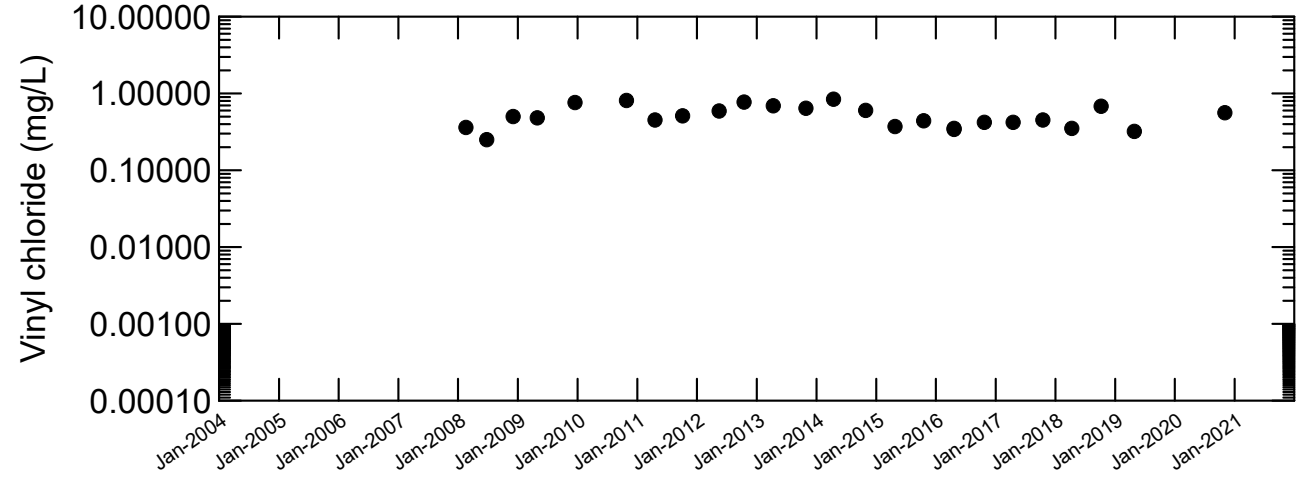
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 84

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





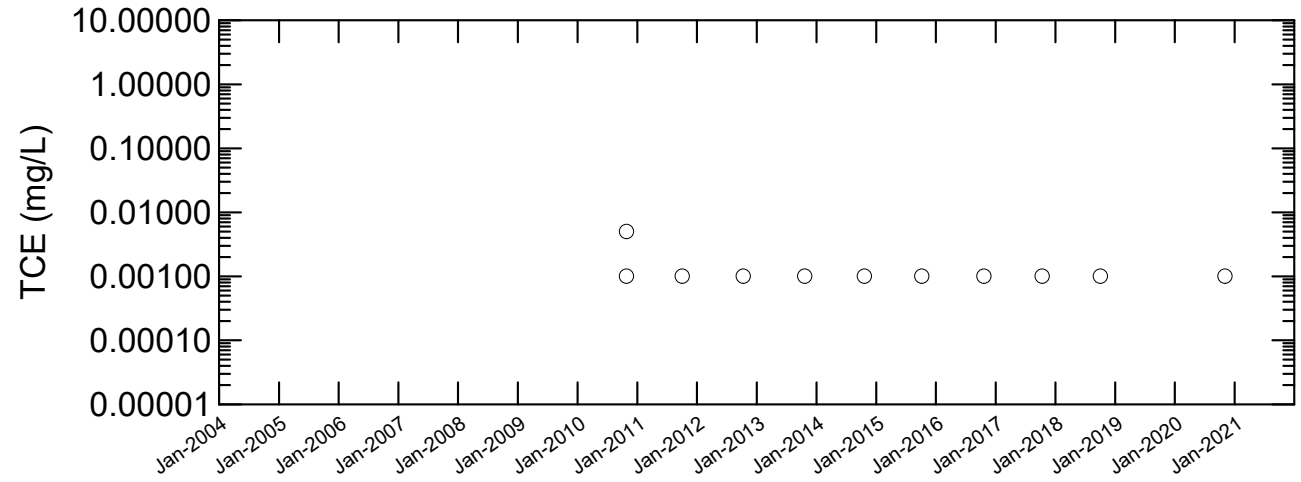


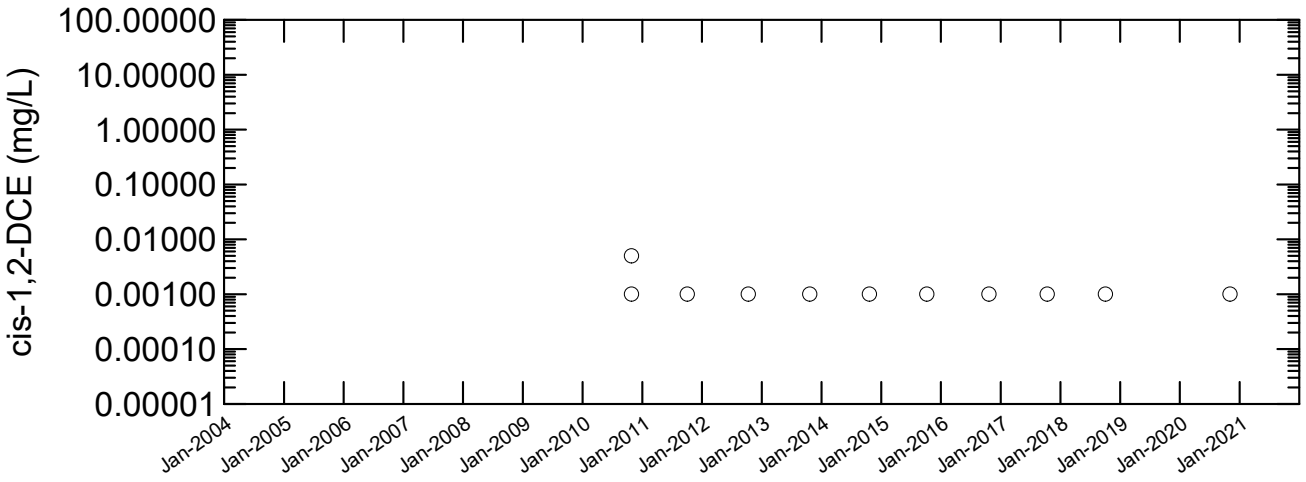
Legend:

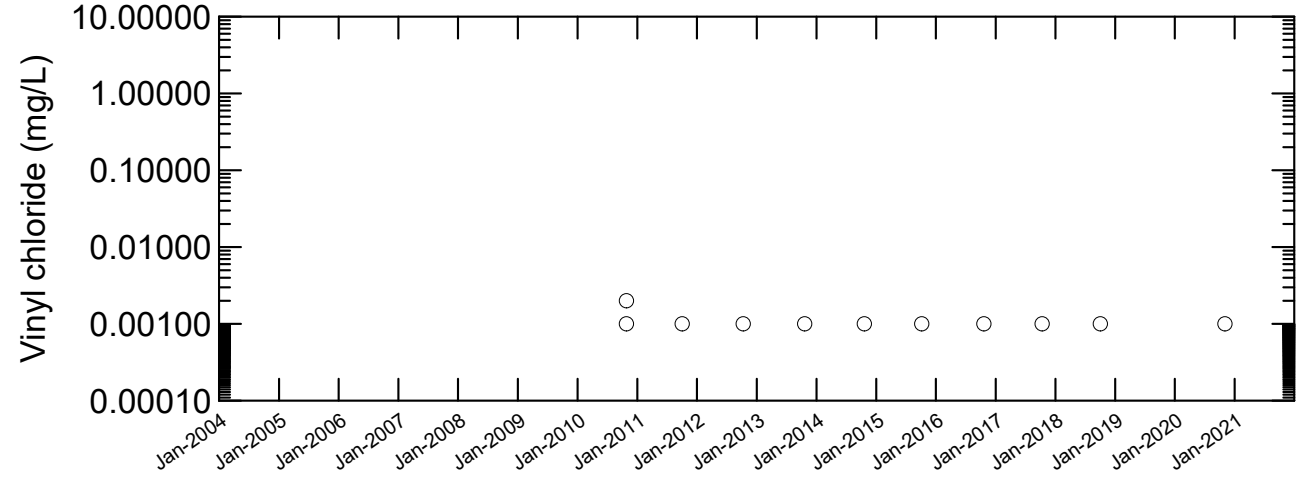
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 85

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





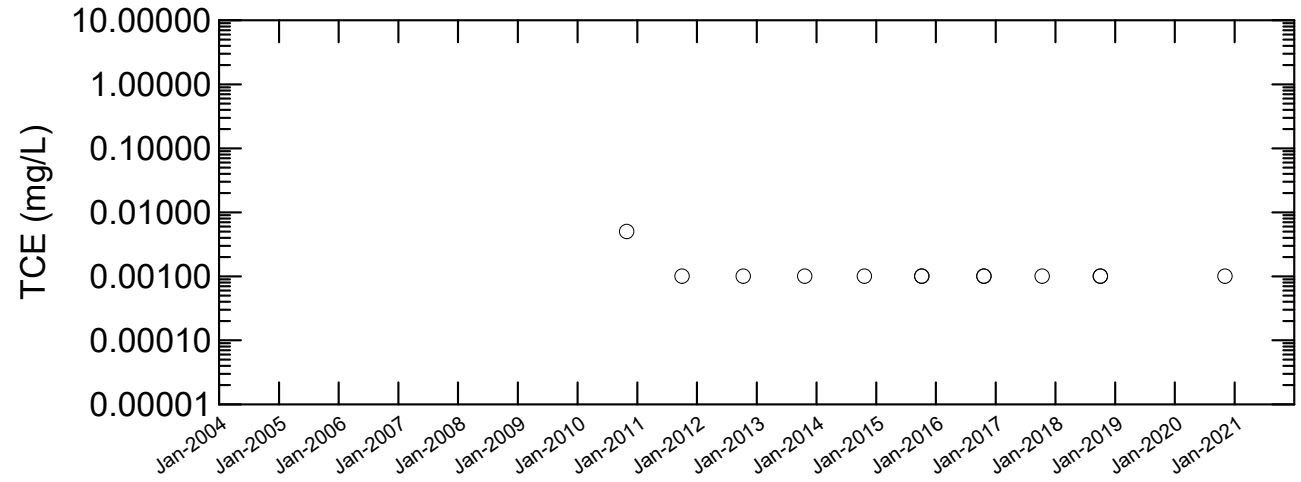


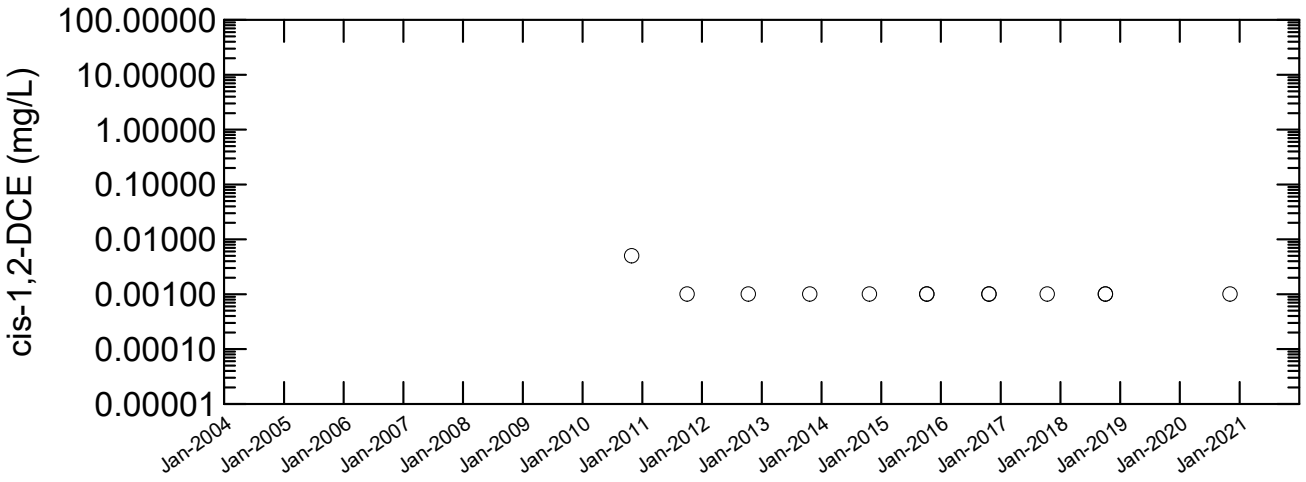
Legend:

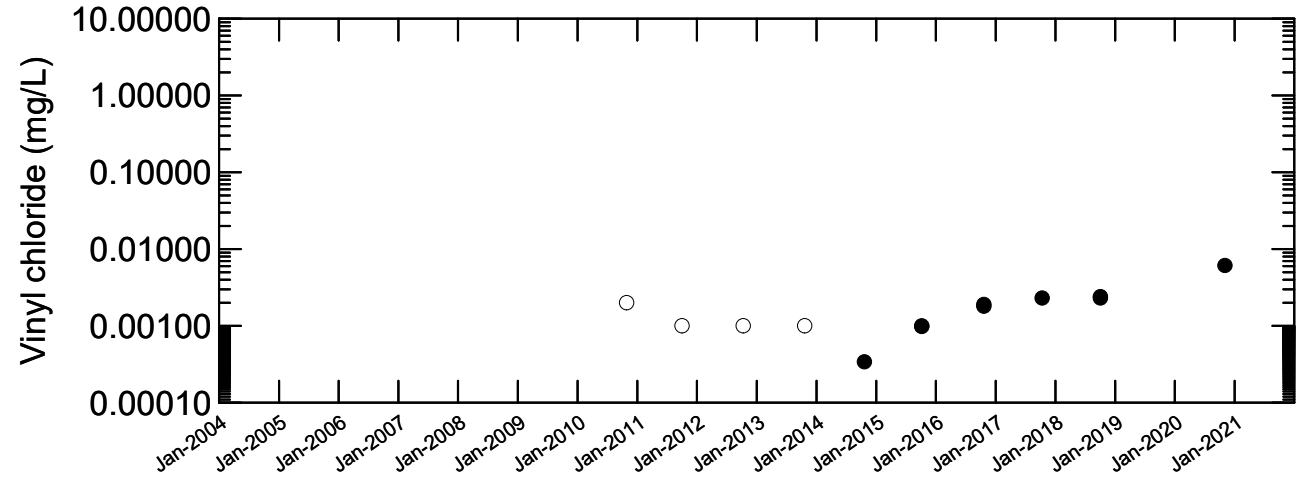
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 86

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana





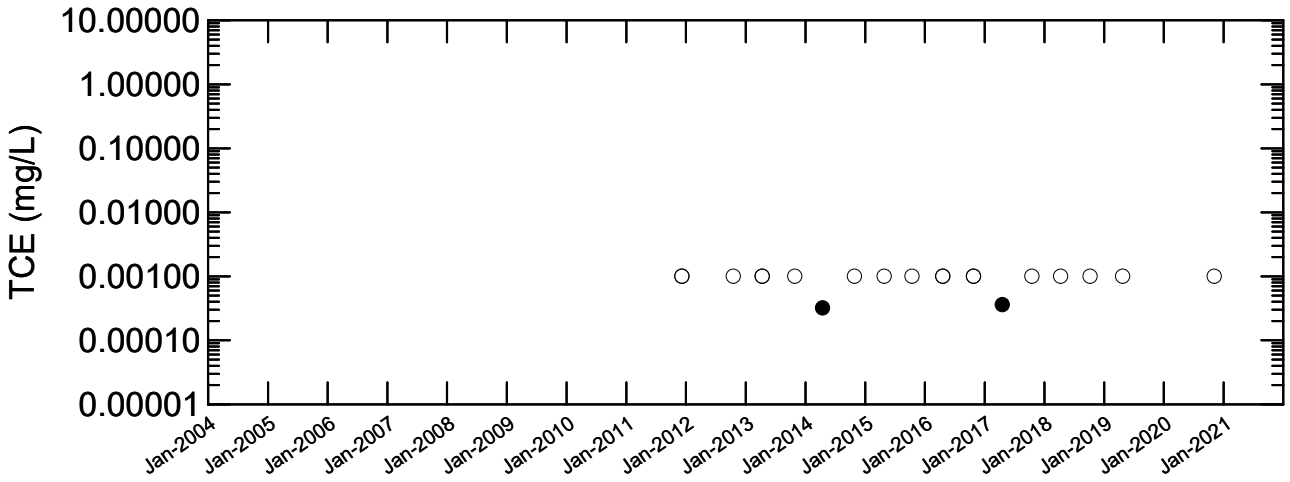


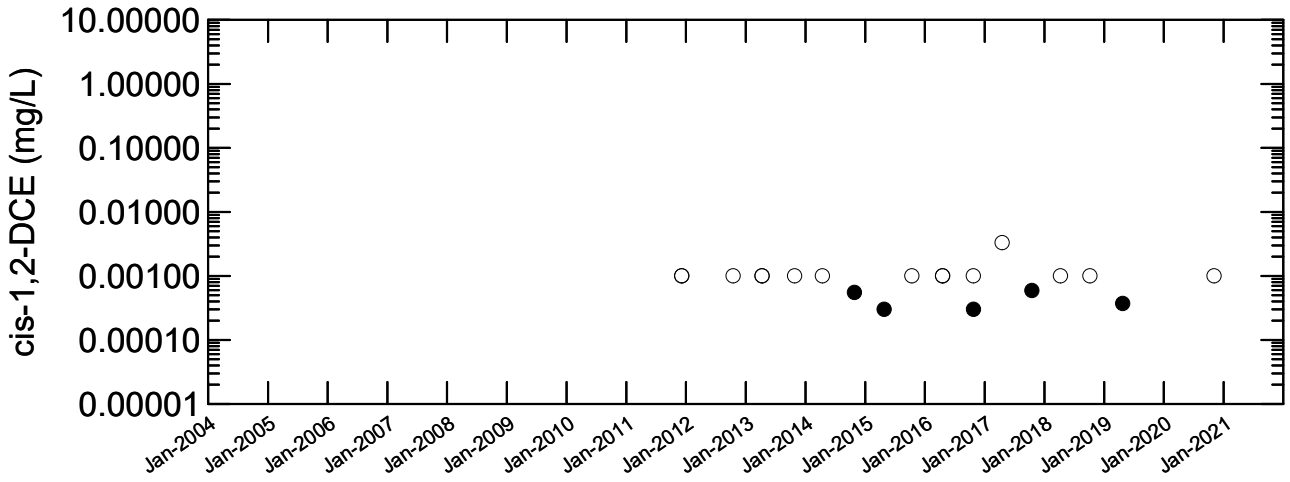
Legend:

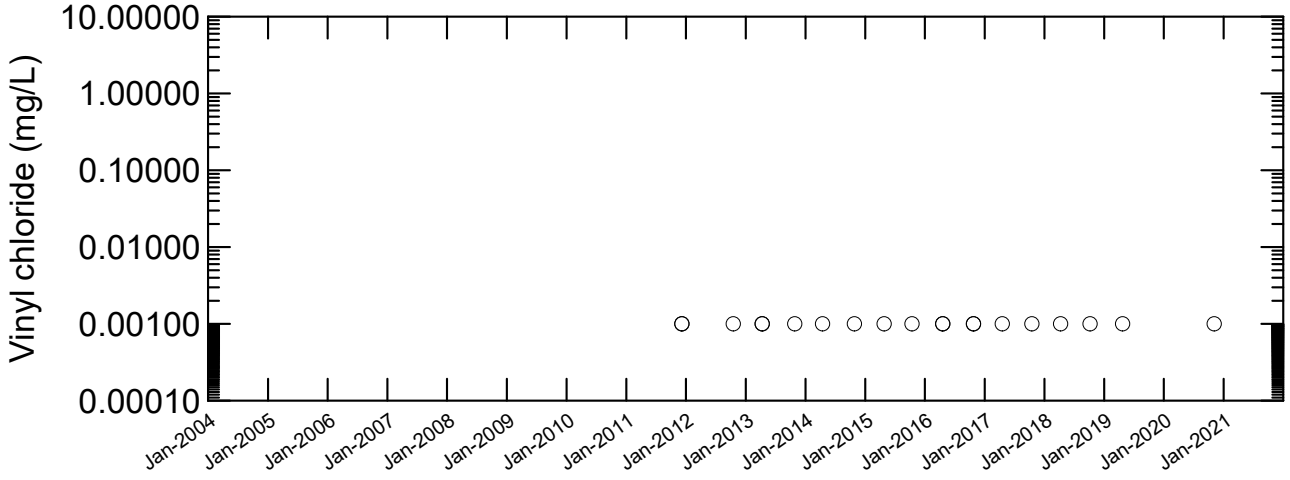
- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 88

CONCENTRATION vs. TIME GRAPHS
2020 ANNUAL GROUNDWATER MONITORING REPORT
2915 MARTIN LUTHER KING JR. BOULEVARD
Anderson, Indiana







Legend:

- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

MW 89-11

CONCENTRATION vs. TIME GRAPHS

2020 ANNUAL GROUNDWATER MONITORING REPORT

2915 MARTIN LUTHER KING JR. BOULEVARD

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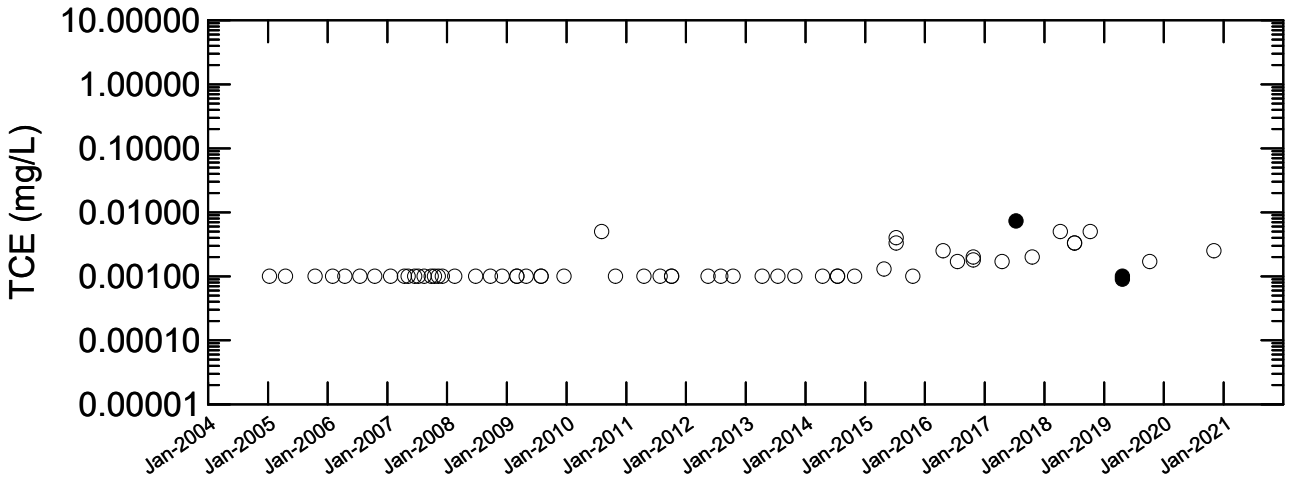

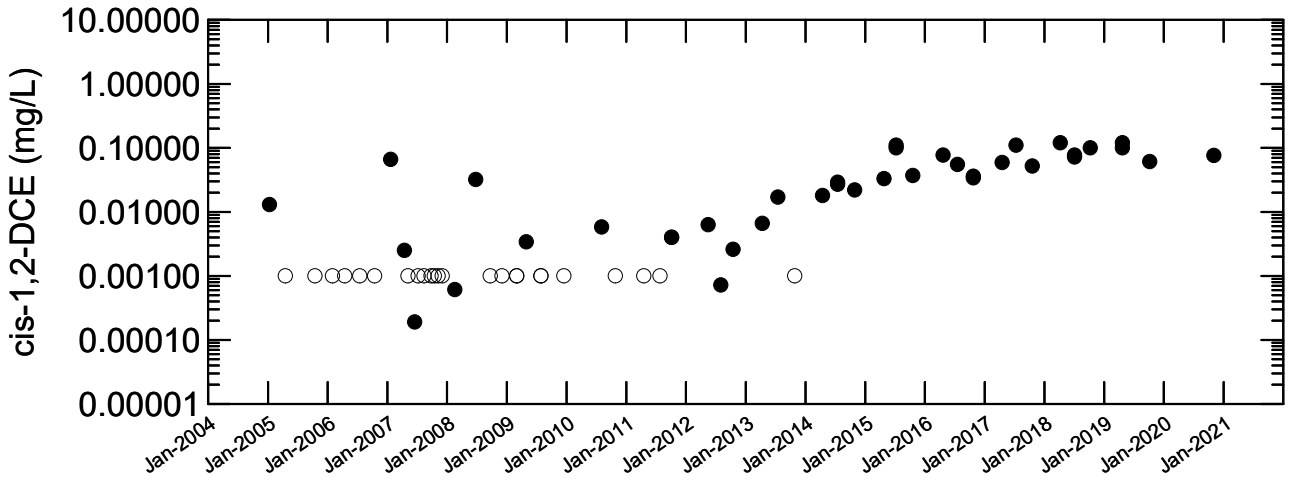

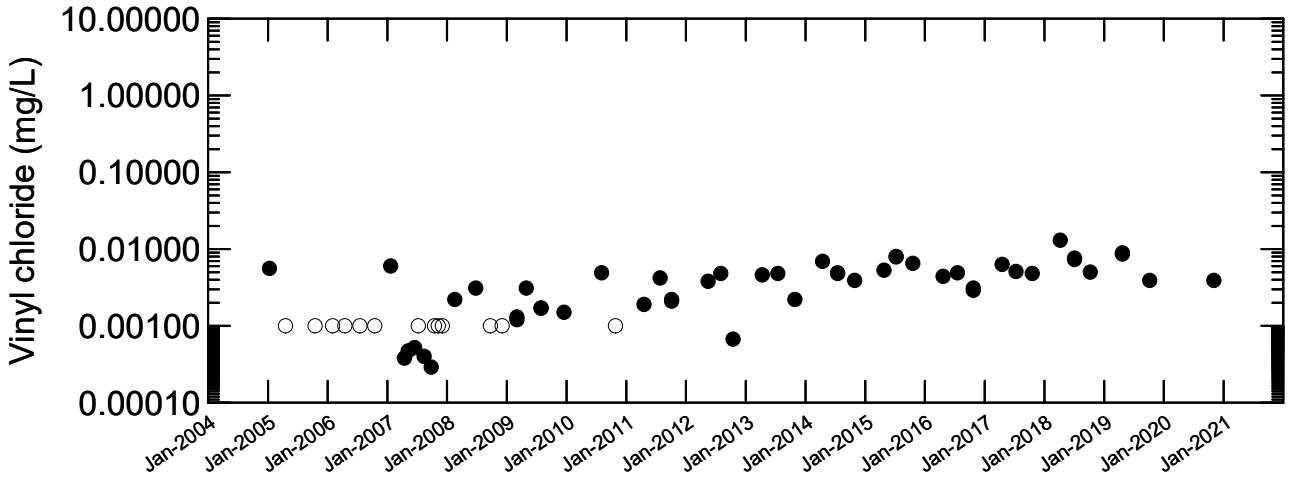

Legend:

- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

Pond Intake

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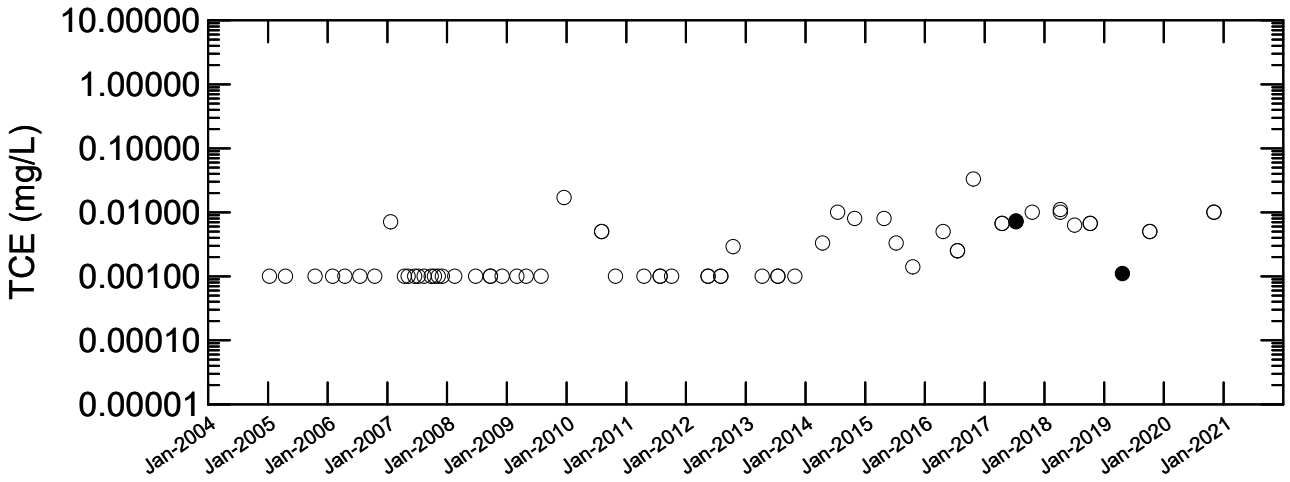

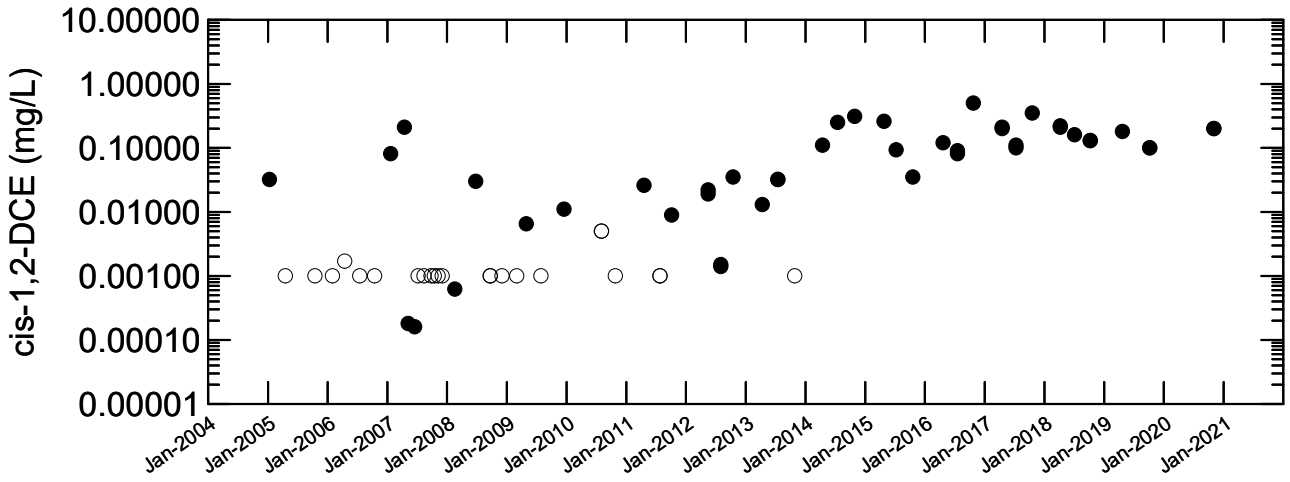

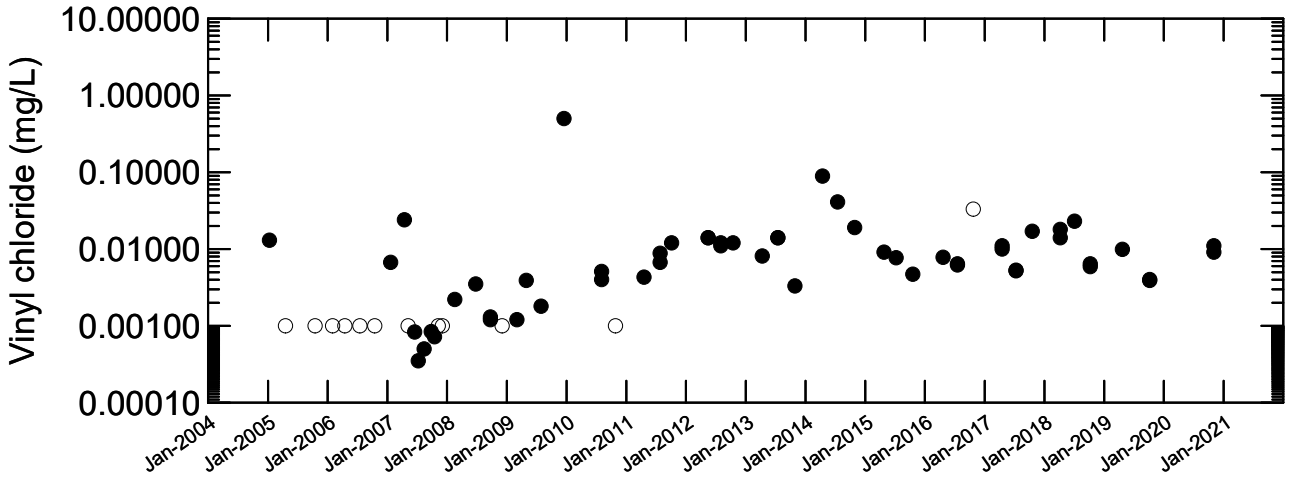

Legend:

- ● Detected Result
- ○ Non-Detect (plotted at the laboratory detection limit)

Pond North

CONCENTRATION vs. TIME GRAPHS

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW-2	5/9/2007	0.001 U	-	-	-
Trichloroethene	MW-2	7/10/2007	0.001 U	-	-	-
Trichloroethene	MW-2	10/17/2007	0.001 U	-	-	-
Trichloroethene	MW-2	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW-2	12/17/2009	0.001 U	-	-	-
Trichloroethene	MW-2	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW-2	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW-2	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
Trichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
Trichloroethene	MW-2	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW-2	10/19/2015	0.001 U	-	-	-
Trichloroethene	MW-2	10/24/2016	0.001 U	-	-	-
Trichloroethene	MW-2	10/17/2017	0.001 U	-	-	-
Trichloroethene	MW-2	10/8/2018	0.001 U	-	-	-
Trichloroethene	MW-2	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 3	2/1/2005	15	-	-	-
Trichloroethene	MW 3	2/1/2005	15	-	-	-
Trichloroethene	MW 3	10/18/2005	0.013	-	-	-
Trichloroethene	MW 3	1/31/2006	7.9	-	-	-
Trichloroethene	MW 3	4/18/2006	12	-	-	-
Trichloroethene	MW 3	4/18/2006	11	-	-	-
Trichloroethene	MW 3	7/19/2006	9.5	-	-	-
Trichloroethene	MW 3	7/19/2006	10	-	-	-
Trichloroethene	MW 3	10/16/2006	11 J	-	-	-
Trichloroethene	MW 3	1/24/2007	10 J	-	-	-
Trichloroethene	MW 3	4/17/2007	6.2	-	-	-
Trichloroethene	MW 3	4/17/2007	5.9	-	-	-
Trichloroethene	MW 3	7/11/2007	11	-	-	-
Trichloroethene	MW 3	10/16/2007	11	-	-	-
Trichloroethene	MW 3	2/18/2008	15	-	-	-
Trichloroethene	MW 3	6/30/2008	18	-	-	-
Trichloroethene	MW 3	6/30/2008	18	-	-	-
Trichloroethene	MW 3	12/4/2008	9.2	-	-	-
Trichloroethene	MW 3	4/30/2009	18	-	-	-
Trichloroethene	MW 3	12/15/2009	8.3	-	-	-
Trichloroethene	MW 3	12/15/2009	8	-	-	-
Trichloroethene	MW 3	10/28/2010	6.79	-	-	-
Trichloroethene	MW 3	10/28/2010	5.83	-	-	-
Trichloroethene	MW 3	4/18/2011	14	-	-	-
Trichloroethene	MW 3	10/5/2011	10	-	-	-
Trichloroethene	MW 3	5/16/2012	12 J	-	-	-
Trichloroethene	MW 3	10/15/2012	4	-	-	-
Trichloroethene	MW 3	4/9/2013	13	-	-	-
Trichloroethene	MW 3	10/24/2013	4.8	-	-	-
Trichloroethene	MW 3	10/24/2013	5.3	-	-	-
Trichloroethene	MW 3	4/15/2014	8.6	-	-	-
Trichloroethene	MW 3	10/23/2014	4.3	-	-	-
Trichloroethene	MW 3	4/28/2015	8.3	-	-	-
Trichloroethene	MW 3	10/14/2015	5.1	-	-	-
Trichloroethene	MW 3	4/20/2016	12	-	-	-
Trichloroethene	MW 3	10/25/2016	4.9	-	-	-
Trichloroethene	MW 3	4/18/2017	11	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW 3	10/12/2017	4.4	-	-	-
Trichloroethene	MW 3	4/11/2018	7.8	-	-	-
Trichloroethene	MW 3	10/3/2018	8.5	-	-	-
Trichloroethene	MW 3	04/25/2019	7.8	-	-	-
Trichloroethene	MW 3	11/03/2020	2.1	-	-	-
Trichloroethene	MW-4	1/11/2005	0.05	-	-	-
Trichloroethene	MW-4	10/19/2005	0.83 U	-	-	detection frequency
Trichloroethene	MW-4	2/1/2006	0.001 U	-	-	detection frequency
Trichloroethene	MW-4	4/18/2006	0.25 U	-	-	detection frequency
Trichloroethene	MW-4	7/18/2006	0.42 U	-	-	detection frequency
Trichloroethene	MW-4	10/17/2006	0.18 J	-	-	-
Trichloroethene	MW-4	1/24/2007	0.5 UJ	-	-	detection frequency
Trichloroethene	MW-4	4/16/2007	0.05 UJ	-	-	detection frequency
Trichloroethene	MW-4	7/10/2007	1 U	-	-	detection frequency
Trichloroethene	MW-4	7/10/2007	0.13 U	-	-	detection frequency
Trichloroethene	MW-4	10/17/2007	0.56 U	-	-	detection frequency
Trichloroethene	MW-4	10/17/2007	0.5 U	-	-	detection frequency
Trichloroethene	MW-4	2/18/2008	1 U	-	-	detection frequency
Trichloroethene	MW-4	6/25/2008	1 U	-	-	detection frequency
Trichloroethene	MW-4	6/25/2008	0.63 U	-	-	detection frequency
Trichloroethene	MW-4	12/3/2008	1 U	-	-	detection frequency
Trichloroethene	MW-4	4/30/2009	0.5 U	-	-	detection frequency
Trichloroethene	MW-4	4/30/2009	0.42 U	-	-	detection frequency
Trichloroethene	MW-4	12/16/2009	0.069 J	-	-	-
Trichloroethene	MW-4	12/16/2009	0.36 J	-	-	-
Trichloroethene	MW-4	10/28/2010	0.0112	-	-	-
Trichloroethene	MW-4	4/20/2011	0.25 U	-	-	detection frequency
Trichloroethene	MW-4	4/20/2011	0.33 U	-	-	detection frequency
Trichloroethene	MW-4	10/6/2011	0.092 J	-	-	-
Trichloroethene	MW-4	5/16/2012	0.25 J	-	-	-
Trichloroethene	MW-4	10/16/2012	0.99	-	-	-
Trichloroethene	MW-4	4/12/2013	0.74	-	-	-
Trichloroethene	MW-4	10/29/2013	1.5	-	-	-
Trichloroethene	MW-4	4/16/2014	0.47 J	-	-	-
Trichloroethene	MW-4	4/16/2014	0.52	-	-	-
Trichloroethene	MW-4	10/29/2014	1.7	-	-	-
Trichloroethene	MW-4	4/27/2015	0.5	-	-	-
Trichloroethene	MW-4	10/19/2015	1	-	-	-
Trichloroethene	MW-4	4/22/2016	0.8	-	-	-
Trichloroethene	MW-4	10/24/2016	1.7	-	-	-
Trichloroethene	MW-4	4/18/2017	1.1	-	-	-
Trichloroethene	MW-4	10/17/2017	2.4	-	-	-
Trichloroethene	MW-4	10/17/2017	2.1	-	-	-
Trichloroethene	MW-4	4/12/2018	1.3	-	-	-
Trichloroethene	MW-4	4/12/2018	1.4	-	-	-
Trichloroethene	MW-4	10/8/2018	1.6	-	-	-
Trichloroethene	MW-4	04/25/2019	0.8	-	-	-
Trichloroethene	MW-4	11/03/2020	1	-	-	-
Trichloroethene	MW-7	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW-7	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW-7	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW-7	10/9/2018	0.001 U	-	-	-
Trichloroethene	MW-7	10/9/2018	0.001 U	-	-	-

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Trichloroethene	MW-7	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 8	2/2/2005	0.35	-	-	-
Trichloroethene	MW 8	10/17/2005	0.14 J	-	-	-
Trichloroethene	MW 8	10/17/2005	0.13 J	-	-	-
Trichloroethene	MW 8	2/1/2006	0.8 J	-	-	-
Trichloroethene	MW 8	4/17/2006	0.4 J	-	-	-
Trichloroethene	MW 8	7/18/2006	0.15 J	-	-	-
Trichloroethene	MW 8	10/16/2006	0.86	-	-	-
Trichloroethene	MW 8	1/23/2007	0.4 J	-	-	-
Trichloroethene	MW 8	4/16/2007	0.51 J	-	-	-
Trichloroethene	MW 8	7/10/2007	0.84	-	-	-
Trichloroethene	MW 8	10/15/2007	1.4	-	-	-
Trichloroethene	MW 8	6/27/2008	0.58 J	-	-	-
Trichloroethene	MW 8	12/15/2009	0.046	-	-	-
Trichloroethene	MW 8	10/27/2010	0.248	-	-	-
Trichloroethene	MW 8	4/18/2011	0.33	-	-	-
Trichloroethene	MW 8	10/5/2011	0.34	-	-	-
Trichloroethene	MW 8	5/15/2012	0.085 J	-	-	-
Trichloroethene	MW 8	5/15/2012	0.071 J	-	-	-
Trichloroethene	MW 8	10/15/2012	0.44	-	-	-
Trichloroethene	MW 8	4/9/2013	0.12 J	-	-	-
Trichloroethene	MW 8	10/24/2013	0.42	-	-	-
Trichloroethene	MW 8	4/15/2014	0.19 J	-	-	-
Trichloroethene	MW 8	10/23/2014	0.31	-	-	-
Trichloroethene	MW 8	4/28/2015	0.33	-	-	-
Trichloroethene	MW 8	10/14/2015	0.42	-	-	-
Trichloroethene	MW 8	4/20/2016	0.17 J	-	-	-
Trichloroethene	MW 8	4/20/2016	0.16 J	-	-	-
Trichloroethene	MW 8	10/21/2016	0.39	-	-	-
Trichloroethene	MW 8	4/18/2017	0.09 J	-	-	-
Trichloroethene	MW 8	10/12/2017	0.37	-	-	-
Trichloroethene	MW 8	4/10/2018	0.15 J	-	-	-
Trichloroethene	MW 8	10/2/2018	0.17	-	-	-
Trichloroethene	MW 8	04/25/2019	0.089	-	-	-
Trichloroethene	MW 8	11/03/2020	0.16	-	-	-
Trichloroethene	MW 12	2/2/2005	0.16	-	-	-
Trichloroethene	MW 12	10/19/2005	0.11	-	-	-
Trichloroethene	MW 12	10/19/2005	0.13	-	-	-
Trichloroethene	MW 12	1/31/2006	0.15	-	-	-
Trichloroethene	MW 12	4/18/2006	0.065	-	-	-
Trichloroethene	MW 12	7/18/2006	0.041	-	-	-
Trichloroethene	MW 12	7/18/2006	0.041	-	-	-
Trichloroethene	MW 12	10/19/2006	0.09 J	-	-	-
Trichloroethene	MW 12	1/22/2007	0.038	-	-	-
Trichloroethene	MW 12	4/18/2007	0.063 U	-	-	-
Trichloroethene	MW 12	7/11/2007	0.063	-	-	-
Trichloroethene	MW 12	10/19/2007	0.061	-	-	-
Trichloroethene	MW 12	6/27/2008	0.039	-	-	-
Trichloroethene	MW 12	12/5/2008	0.036	-	-	-
Trichloroethene	MW 12	4/29/2009	0.028	-	-	-
Trichloroethene	MW 12	12/9/2009	0.024	-	-	-
Trichloroethene	MW 12	10/26/2010	0.0099	-	-	-
Trichloroethene	MW 12	4/20/2011	0.0098 J	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW 12	10/5/2011	0.0073 J	-	-	-
Trichloroethene	MW 12	5/15/2012	0.0058 J	-	-	-
Trichloroethene	MW 12	10/11/2012	0.004 J	-	-	-
Trichloroethene	MW 12	4/9/2013	0.0059 J	-	-	-
Trichloroethene	MW 12	10/23/2013	0.003 J	-	-	-
Trichloroethene	MW 12	4/11/2014	0.0017 J	-	-	-
Trichloroethene	MW 12	10/24/2014	0.0012 J	-	-	-
Trichloroethene	MW 12	10/24/2014	0.0013 J	-	-	-
Trichloroethene	MW 12	4/27/2015	0.0057 U	-	-	-
Trichloroethene	MW 12	10/9/2015	0.005 U	-	-	-
Trichloroethene	MW 12	4/21/2016	0.005 U	-	-	-
Trichloroethene	MW 12	10/25/2016	0.005 U	-	-	-
Trichloroethene	MW 12	4/19/2017	0.00085 J	-	-	-
Trichloroethene	MW 12	10/6/2017	0.0033 U	-	-	-
Trichloroethene	MW 12	4/11/2018	0.0026 J	-	-	-
Trichloroethene	MW 12	10/4/2018	0.005 U	-	-	-
Trichloroethene	MW 12	04/25/2019	0.00048 J	-	-	-
Trichloroethene	MW 12	11/03/2020	0.00028 J	-	-	-
Trichloroethene	MW 14	2/2/2005	0.05 U	-	-	-
Trichloroethene	MW 14	10/17/2005	0.001 U	-	-	-
Trichloroethene	MW 14	2/1/2006	0.5 U	-	-	-
Trichloroethene	MW 14	4/18/2006	0.25 U	-	-	-
Trichloroethene	MW 14	7/19/2006	0.25 U	-	-	-
Trichloroethene	MW 14	10/18/2006	0.36 U	-	-	-
Trichloroethene	MW 14	1/24/2007	0.25 UJ	-	-	-
Trichloroethene	MW 14	4/17/2007	0.028 UJ	-	-	-
Trichloroethene	MW 14	7/9/2007	0.33 U	-	-	-
Trichloroethene	MW 14	10/16/2007	0.42 U	-	-	-
Trichloroethene	MW 14	6/30/2008	0.001	-	-	-
Trichloroethene	MW 14	12/5/2008	0.5 U	-	-	-
Trichloroethene	MW 14	4/29/2009	0.25 U	-	-	-
Trichloroethene	MW 14	12/15/2009	0.0054 J	-	-	-
Trichloroethene	MW 14	10/27/2010	0.01 U	-	-	-
Trichloroethene	MW 14	4/18/2011	0.17 U	-	-	-
Trichloroethene	MW 14	10/5/2011	0.2 U	-	-	-
Trichloroethene	MW 14	5/15/2012	0.17 U	-	-	-
Trichloroethene	MW 14	10/15/2012	0.2 U	-	-	-
Trichloroethene	MW 14	4/9/2013	0.17 U	-	-	-
Trichloroethene	MW 14	4/9/2013	0.17 U	-	-	-
Trichloroethene	MW 14	10/25/2013	0.25 U	-	-	-
Trichloroethene	MW 14	10/25/2013	0.2 U	-	-	-
Trichloroethene	MW 14	4/15/2014	0.17 U	-	-	-
Trichloroethene	MW 14	4/15/2014	0.17 U	-	-	-
Trichloroethene	MW 14	10/24/2014	0.33 U	-	-	-
Trichloroethene	MW 14	4/29/2015	0.2 U	-	-	-
Trichloroethene	MW 14	4/29/2015	0.2 U	-	-	-
Trichloroethene	MW 14	10/12/2015	0.2 U	-	-	-
Trichloroethene	MW 14	4/19/2016	0.17 U	-	-	-
Trichloroethene	MW 14	10/25/2016	0.2 U	-	-	-
Trichloroethene	MW 14	4/18/2017	0.13 U	-	-	-
Trichloroethene	MW 14	4/18/2017	0.13 U	-	-	-
Trichloroethene	MW 14	10/13/2017	0.2 U	-	-	-
Trichloroethene	MW 14	10/13/2017	0.2 U	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW 14	4/10/2018	0.2 U	-	-	-
Trichloroethene	MW 14	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 14	04/25/2019	0.14 U	-	-	-
Trichloroethene	MW 14	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 15	2/1/2005	6.7	-	-	-
Trichloroethene	MW 15	10/18/2005	6.9	-	-	-
Trichloroethene	MW 15	2/1/2006	8.3	-	-	-
Trichloroethene	MW 15	4/18/2006	6	-	-	-
Trichloroethene	MW 15	7/19/2006	5.3	-	-	-
Trichloroethene	MW 15	10/17/2006	7.2 J	-	-	-
Trichloroethene	MW 15	1/24/2007	6.1	-	-	-
Trichloroethene	MW 15	4/17/2007	4.9	-	-	-
Trichloroethene	MW 15	7/10/2007	9.4	-	-	-
Trichloroethene	MW 15	7/10/2007	10	-	-	-
Trichloroethene	MW 15	10/16/2007	8	-	-	-
Trichloroethene	MW 15	2/14/2008	7.4	-	-	-
Trichloroethene	MW 15	10/24/2013	8.3	-	-	-
Trichloroethene	MW 15	10/23/2014	5.5	-	-	-
Trichloroethene	MW 15	10/14/2015	3	-	-	-
Trichloroethene	MW 15	10/21/2016	2.5	-	-	-
Trichloroethene	MW 15	10/11/2017	4.1	-	-	-
Trichloroethene	MW 15	10/2/2018	3.7	-	-	-
Trichloroethene	MW 15	11/03/2020	2.5	-	-	-
Trichloroethene	MW 16	1/17/2005	0.001 U	-	-	-
Trichloroethene	MW 16	11/14/2013	0.001 U	-	-	-
Trichloroethene	MW 16	4/10/2014	0.001 U	-	-	-
Trichloroethene	MW 16	10/12/2015	0.001 U	-	-	-
Trichloroethene	MW 16	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 16	10/12/2017	0.0017	-	-	-
Trichloroethene	MW 16	10/3/2018	0.005 U	-	-	-
Trichloroethene	MW 16	10/08/2019	0.63 U	-	-	-
Trichloroethene	MW 16	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 21	2/1/2005	0.001 U	-	-	-
Trichloroethene	MW 21	10/17/2005	0.001 U	-	-	-
Trichloroethene	MW 21	2/1/2006	0.00066 J	-	-	-
Trichloroethene	MW 21	4/17/2006	0.001 U	-	-	-
Trichloroethene	MW 21	7/18/2006	0.001 U	-	-	-
Trichloroethene	MW 21	10/16/2006	0.001 U	-	-	-
Trichloroethene	MW 21	1/23/2007	0.001 U	-	-	-
Trichloroethene	MW 21	4/16/2007	0.001 U	-	-	-
Trichloroethene	MW 21	7/9/2007	0.001 U	-	-	-
Trichloroethene	MW 21	10/15/2007	0.001 U	-	-	-
Trichloroethene	MW 21	10/14/2015	0.001 U	-	-	-
Trichloroethene	MW 21	10/21/2016	0.001 U	-	-	-
Trichloroethene	MW 21	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW 21	10/3/2018	0.0013	-	-	-
Trichloroethene	MW 21	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 28	10/18/2005	0.0063 U	-	-	-
Trichloroethene	MW 28	10/19/2006	0.00015 J	-	-	-
Trichloroethene	MW 28	10/18/2007	0.0071 U	-	-	-
Trichloroethene	MW 28	6/24/2008	0.0042 U	-	-	-
Trichloroethene	MW 28	12/4/2008	0.005 U	-	-	-
Trichloroethene	MW 28	4/29/2009	0.005 U	-	-	-

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Trichloroethene	MW 28	12/4/2009	0.0063 U	-	-	-
Trichloroethene	MW 28	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 28	4/19/2011	0.002 U	-	-	-
Trichloroethene	MW 28	10/3/2011	0.0033 U	-	-	-
Trichloroethene	MW 28	5/14/2012	0.0033 U	-	-	-
Trichloroethene	MW 28	10/10/2012	0.004 U	-	-	-
Trichloroethene	MW 28	4/10/2013	0.0067 U	-	-	-
Trichloroethene	MW 28	10/23/2013	0.0091 U	-	-	-
Trichloroethene	MW 28	4/15/2014	0.014 U	-	-	-
Trichloroethene	MW 28	4/15/2014	0.014 U	-	-	-
Trichloroethene	MW 28	10/27/2014	0.02 U	-	-	-
Trichloroethene	MW 28	4/29/2015	0.025 U	-	-	-
Trichloroethene	MW 28	10/12/2015	0.04 U	-	-	-
Trichloroethene	MW 28	4/19/2016	0.033 U	-	-	-
Trichloroethene	MW 28	10/22/2016	0.05 U	-	-	-
Trichloroethene	MW 28	4/19/2017	0.025 U	-	-	-
Trichloroethene	MW 28	10/9/2017	0.04 U	-	-	-
Trichloroethene	MW 28	4/12/2018	0.05 U	-	-	-
Trichloroethene	MW 28	10/4/2018	0.067 U	-	-	-
Trichloroethene	MW 28	10/4/2018	0.067 U	-	-	-
Trichloroethene	MW 28	04/25/2019	0.04 U	-	-	-
Trichloroethene	MW 28	11/03/2020	0.067 U	-	-	-
Trichloroethene	MW 31R	10/18/2005	2.1 J	-	-	-
Trichloroethene	MW 31R	1/31/2006	2.5	-	-	-
Trichloroethene	MW 31R	4/19/2006	1.4	-	-	-
Trichloroethene	MW 31R	7/19/2006	0.18 J	-	-	-
Trichloroethene	MW 31R	10/17/2006	0.12 J	-	-	-
Trichloroethene	MW 31R	10/17/2006	0.13 J	-	-	-
Trichloroethene	MW 31R	1/23/2007	0.97 J	-	-	-
Trichloroethene	MW 31R	1/23/2007	0.87 J	-	-	-
Trichloroethene	MW 31R	4/17/2007	0.93 J	-	-	-
Trichloroethene	MW 31R	7/11/2007	1 U	-	-	detection frequency
Trichloroethene	MW 31R	10/17/2007	0.1 U	-	-	detection frequency
Trichloroethene	MW 31R	2/14/2008	0.74 J	-	-	-
Trichloroethene	MW 31R	2/14/2008	0.67 J	-	-	-
Trichloroethene	MW 31R	12/4/2008	0.83 U	-	-	detection frequency
Trichloroethene	MW 31R	4/29/2009	0.54	-	-	-
Trichloroethene	MW 31R	12/15/2009	2.3	-	-	-
Trichloroethene	MW 31R	10/28/2010	0.0416	-	-	-
Trichloroethene	MW 31R	4/18/2011	0.34	-	-	-
Trichloroethene	MW 31R	10/4/2011	0.32	-	-	-
Trichloroethene	MW 31R	5/15/2012	0.25 U	-	-	detection frequency
Trichloroethene	MW 31R	10/15/2012	0.078 J	-	-	-
Trichloroethene	MW 31R	4/9/2013	0.057 J	-	-	-
Trichloroethene	MW 31R	10/24/2013	0.15 J	-	-	-
Trichloroethene	MW 31R	4/15/2014	0.12 J	-	-	-
Trichloroethene	MW 31R	10/27/2014	0.04 J	-	-	-
Trichloroethene	MW 31R	4/28/2015	0.5 U	-	-	detection frequency
Trichloroethene	MW 31R	10/14/2015	0.25 U	-	-	detection frequency
Trichloroethene	MW 31R	4/20/2016	0.5 U	-	-	detection frequency
Trichloroethene	MW 31R	10/21/2016	0.71 U	-	-	detection frequency
Trichloroethene	MW 31R	10/21/2016	0.71 U	-	-	detection frequency
Trichloroethene	MW 31R	4/19/2017	0.63 U	-	-	detection frequency

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Trichloroethene	MW 31R	10/12/2017	0.83 U	-	-	detection frequency
Trichloroethene	MW 31R	4/10/2018	1 U	-	-	-
Trichloroethene	MW 31R	10/2/2018	1 U	-	-	-
Trichloroethene	MW 31R	10/2/2018	1 U	-	-	-
Trichloroethene	MW 31R	04/25/2019	5 U	-	-	-
Trichloroethene	MW 31R	11/03/2020	0.038 J	-	-	-
Trichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 37	10/17/2007	0.001 U	-	-	-
Trichloroethene	MW 37	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 37	12/16/2009	0.001 U	-	-	-
Trichloroethene	MW 37	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 37	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
Trichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
Trichloroethene	MW 37	10/25/2013	0.001 U	-	-	-
Trichloroethene	MW 37	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 37	10/9/2015	0.001 U	-	-	-
Trichloroethene	MW 37	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 37	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 37	10/5/2018	0.001 U	-	-	-
Trichloroethene	MW 37	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 40	1/12/2005	0.1 U	-	-	-
Trichloroethene	MW 40	10/18/2005	0.0013 U	-	-	-
Trichloroethene	MW 40	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 40	4/17/2006	0.63 U	-	-	-
Trichloroethene	MW 40	7/19/2006	0.63 U	-	-	-
Trichloroethene	MW 40	10/18/2006	0.0011	-	-	-
Trichloroethene	MW 40	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 40	4/18/2007	0.042 UJ	-	-	-
Trichloroethene	MW 40	7/10/2007	0.83 U	-	-	-
Trichloroethene	MW 40	10/18/2007	0.5 U	-	-	-
Trichloroethene	MW 40	2/15/2008	0.63 U	-	-	-
Trichloroethene	MW 40	6/26/2008	0.14 J	-	-	-
Trichloroethene	MW 40	12/3/2008	0.71 U	-	-	-
Trichloroethene	MW 40	12/3/2008	0.83 U	-	-	-
Trichloroethene	MW 40	4/30/2009	0.5 U	-	-	-
Trichloroethene	MW 40	12/9/2009	0.25 U	-	-	-
Trichloroethene	MW 40	10/26/2010	0.125 U	-	-	-
Trichloroethene	MW 40	4/19/2011	0.25 U	-	-	-
Trichloroethene	MW 40	10/4/2011	0.25 U	-	-	-
Trichloroethene	MW 40	5/14/2012	0.13 J	-	-	-
Trichloroethene	MW 40	10/10/2012	0.073 J	-	-	-
Trichloroethene	MW 40	4/9/2013	0.13 J	-	-	-
Trichloroethene	MW 40	10/24/2013	0.15 J	-	-	-
Trichloroethene	MW 40	4/14/2014	0.22 J	-	-	-
Trichloroethene	MW 40	10/27/2014	0.21 J	-	-	-
Trichloroethene	MW 40	4/28/2015	0.32 J	-	-	-
Trichloroethene	MW 40	10/13/2015	0.26	-	-	-
Trichloroethene	MW 40	4/19/2016	0.31	-	-	-
Trichloroethene	MW 40	10/20/2016	0.16 J	-	-	-
Trichloroethene	MW 40	4/19/2017	0.4	-	-	-
Trichloroethene	MW 40	10/10/2017	0.36	-	-	-

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Trichloroethene	MW 40	10/10/2017	0.35	-	-	-
Trichloroethene	MW 40	4/13/2018	0.34	-	-	-
Trichloroethene	MW 40	10/3/2018	0.28	-	-	-
Trichloroethene	MW 40	04/25/2019	0.2 U	-	-	-
Trichloroethene	MW 40	11/03/2020	0.18	-	-	-
Trichloroethene	MW 41	10/17/2005	0.28 U	-	-	-
Trichloroethene	MW 41	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 41	4/17/2006	0.00017 J	-	-	-
Trichloroethene	MW 41	4/17/2006	0.00015 J	-	-	-
Trichloroethene	MW 41	7/18/2006	0.31 U	-	-	-
Trichloroethene	MW 41	10/18/2006	0.5 U	-	-	-
Trichloroethene	MW 41	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 41	4/18/2007	0.031 UJ	-	-	-
Trichloroethene	MW 41	4/18/2007	0.013 U	-	-	-
Trichloroethene	MW 41	7/10/2007	0.63 U	-	-	-
Trichloroethene	MW 41	10/18/2007	0.5 U	-	-	-
Trichloroethene	MW 41	2/15/2008	0.42 U	-	-	-
Trichloroethene	MW 41	6/24/2008	0.5 U	-	-	-
Trichloroethene	MW 41	12/3/2008	0.5 U	-	-	-
Trichloroethene	MW 41	4/28/2009	0.5 U	-	-	-
Trichloroethene	MW 41	12/3/2009	0.25 U	-	-	-
Trichloroethene	MW 41	10/25/2010	0.125 U	-	-	-
Trichloroethene	MW 41	4/19/2011	0.17 U	-	-	-
Trichloroethene	MW 41	10/4/2011	0.2 U	-	-	-
Trichloroethene	MW 41	5/14/2012	0.2 U	-	-	-
Trichloroethene	MW 41	10/10/2012	0.2 U	-	-	-
Trichloroethene	MW 41	4/9/2013	0.2 U	-	-	-
Trichloroethene	MW 41	10/25/2013	0.33 U	-	-	-
Trichloroethene	MW 41	4/14/2014	0.2 U	-	-	-
Trichloroethene	MW 41	10/23/2014	0.63 U	-	-	-
Trichloroethene	MW 41	4/29/2015	0.33 U	-	-	-
Trichloroethene	MW 41	10/12/2015	0.33 U	-	-	-
Trichloroethene	MW 41	10/12/2015	0.25 U	-	-	-
Trichloroethene	MW 41	4/19/2016	0.2 U	-	-	-
Trichloroethene	MW 41	10/23/2016	0.33 U	-	-	-
Trichloroethene	MW 41	4/19/2017	0.2 U	-	-	-
Trichloroethene	MW 41	10/9/2017	0.2 U	-	-	-
Trichloroethene	MW 41	4/13/2018	0.33 U	-	-	-
Trichloroethene	MW 41	10/4/2018	0.33 U	-	-	-
Trichloroethene	MW 41	04/25/2019	0.2 U	-	-	-
Trichloroethene	MW 41	04/25/2019	0.2 U	-	-	-
Trichloroethene	MW 41	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 42	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 42	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 42	1/30/2006	0.5 U	-	-	-
Trichloroethene	MW 42	4/17/2006	0.00011 J	-	-	-
Trichloroethene	MW 42	7/18/2006	0.31 U	-	-	-
Trichloroethene	MW 42	10/18/2006	0.42 U	-	-	-
Trichloroethene	MW 42	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 42	1/23/2007	0.5 UJ	-	-	-
Trichloroethene	MW 42	4/18/2007	0.031 UJ	-	-	-
Trichloroethene	MW 42	7/10/2007	0.71 U	-	-	-
Trichloroethene	MW 42	10/18/2007	0.5 U	-	-	-

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Trichloroethene	MW 42	2/15/2008	0.42 U	-	-	-
Trichloroethene	MW 42	6/24/2008	0.5 U	-	-	-
Trichloroethene	MW 42	12/3/2008	0.5 U	-	-	-
Trichloroethene	MW 42	4/28/2009	0.5 U	-	-	-
Trichloroethene	MW 42	12/3/2009	0.25 U	-	-	-
Trichloroethene	MW 42	10/25/2010	0.125 U	-	-	-
Trichloroethene	MW 42	4/19/2011	0.17 U	-	-	-
Trichloroethene	MW 42	10/4/2011	0.2 U	-	-	-
Trichloroethene	MW 42	5/14/2012	0.25 U	-	-	-
Trichloroethene	MW 42	10/10/2012	0.17 U	-	-	-
Trichloroethene	MW 42	4/9/2013	0.2 U	-	-	-
Trichloroethene	MW 42	10/25/2013	0.2 U	-	-	-
Trichloroethene	MW 42	4/14/2014	0.17 U	-	-	-
Trichloroethene	MW 42	10/23/2014	0.2 U	-	-	-
Trichloroethene	MW 42	4/29/2015	0.2 U	-	-	-
Trichloroethene	MW 42	10/12/2015	0.17 U	-	-	-
Trichloroethene	MW 42	4/19/2016	0.17 U	-	-	-
Trichloroethene	MW 42	10/23/2016	0.2 U	-	-	-
Trichloroethene	MW 42	4/19/2017	0.035 J	-	-	-
Trichloroethene	MW 42	10/9/2017	0.1 U	-	-	-
Trichloroethene	MW 42	4/13/2018	0.2 U	-	-	-
Trichloroethene	MW 42	10/4/2018	0.2 U	-	-	-
Trichloroethene	MW 42	04/25/2019	0.1 U	-	-	-
Trichloroethene	MW 42	11/03/2020	0.0072	-	-	-
Trichloroethene	MW 46	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 46	10/15/2007	0.00013 J	-	-	-
Trichloroethene	MW 46	10/15/2007	0.00012 J	-	-	-
Trichloroethene	MW 46	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 46	12/15/2009	0.00018 J	-	-	-
Trichloroethene	MW 46	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 46	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW 46	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW 46	10/24/2013	0.001 U	-	-	-
Trichloroethene	MW 46	10/23/2014	0.001 U	-	-	-
Trichloroethene	MW 46	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 46	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 46	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 46	10/5/2018	0.00015 J	-	-	-
Trichloroethene	MW 46	10/08/2019	0.001 U	-	-	-
Trichloroethene	MW 46	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 49	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 49	10/15/2007	0.00042 J	-	-	-
Trichloroethene	MW 49	2/18/2008	0.0025 U	-	-	-
Trichloroethene	MW 49	6/25/2008	0.00041 J	-	-	-
Trichloroethene	MW 49	12/5/2008	0.00084 J	-	-	-
Trichloroethene	MW 49	4/29/2009	0.0013 J	-	-	-
Trichloroethene	MW 49	12/15/2009	0.0007 J	-	-	-
Trichloroethene	MW 49	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 49	4/18/2011	0.017 U	-	-	-
Trichloroethene	MW 49	10/6/2011	0.025 U	-	-	-
Trichloroethene	MW 49	5/16/2012	0.025 U	-	-	-
Trichloroethene	MW 49	10/16/2012	0.033 U	-	-	-
Trichloroethene	MW 49	4/12/2013	0.033 U	-	-	-

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Trichloroethene	MW 49	10/24/2013	0.033 U	-	-	-
Trichloroethene	MW 49	4/15/2014	0.00085 J	-	-	-
Trichloroethene	MW 49	10/23/2014	0.033 U	-	-	-
Trichloroethene	MW 49	4/28/2015	0.033 U	-	-	-
Trichloroethene	MW 49	10/13/2015	0.04 U	-	-	-
Trichloroethene	MW 49	4/19/2016	0.033 U	-	-	-
Trichloroethene	MW 49	4/11/2018	0.05 U	-	-	-
Trichloroethene	MW 49	10/3/2018	0.047	-	-	-
Trichloroethene	MW 49	04/25/2019	0.029 J	-	-	-
Trichloroethene	MW 49	10/08/2019	0.05 U	-	-	-
Trichloroethene	MW 49	10/08/2019	0.05 U	-	-	-
Trichloroethene	MW 49	11/03/2020	0.021 J	-	-	-
Trichloroethene	MW 51	4/29/2009	0.19	-	-	-
Trichloroethene	MW 51	12/14/2009	0.3	-	-	-
Trichloroethene	MW 51	10/27/2010	0.24 J	-	-	-
Trichloroethene	MW 51	4/20/2011	0.18	-	-	-
Trichloroethene	MW 51	10/5/2011	0.21	-	-	-
Trichloroethene	MW 51	5/14/2012	0.18	-	-	-
Trichloroethene	MW 51	10/12/2012	0.2	-	-	-
Trichloroethene	MW 51	4/9/2013	0.21	-	-	-
Trichloroethene	MW 51	10/23/2013	0.19	-	-	-
Trichloroethene	MW 51	4/16/2014	0.16	-	-	-
Trichloroethene	MW 51	10/21/2014	0.18	-	-	-
Trichloroethene	MW 51	4/28/2015	0.14	-	-	-
Trichloroethene	MW 51	4/28/2015	0.16	-	-	-
Trichloroethene	MW 51	10/9/2015	0.16	-	-	-
Trichloroethene	MW 51	4/20/2016	0.15	-	-	-
Trichloroethene	MW 51	10/23/2016	0.14	-	-	-
Trichloroethene	MW 51	4/18/2017	0.14	-	-	-
Trichloroethene	MW 51	10/16/2017	0.15	-	-	-
Trichloroethene	MW 51	4/10/2018	0.087	-	-	-
Trichloroethene	MW 51	4/10/2018	0.097	-	-	-
Trichloroethene	MW 51	10/4/2018	0.064	-	-	-
Trichloroethene	MW 51	04/25/2019	0.046	-	-	-
Trichloroethene	MW 51	04/25/2019	0.052	-	-	-
Trichloroethene	MW 56	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 56	10/19/2005	0.001 U	-	-	-
Trichloroethene	MW 56	10/18/2006	0.00067 J	-	-	-
Trichloroethene	MW 56	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 56	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 56	12/17/2009	0.001 U	-	-	-
Trichloroethene	MW 56	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW 56	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW 56	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW 56	10/29/2013	0.001 U	-	-	-
Trichloroethene	MW 56	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW 56	10/29/2014	0.001 U	-	-	-
Trichloroethene	MW 56	10/19/2015	0.001 U	-	-	-
Trichloroethene	MW 56	10/24/2016	0.001 U	-	-	-
Trichloroethene	MW 56	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW 56	10/5/2018	0.001 U	-	-	-
Trichloroethene	MW 56	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 57	1/18/2005	0.001 U	-	-	-

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Trichloroethene	MW 57	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 57	2/1/2006	0.00026 J	-	-	-
Trichloroethene	MW 57	4/18/2006	0.001 U	-	-	-
Trichloroethene	MW 57	7/18/2006	0.001 U	-	-	-
Trichloroethene	MW 57	10/18/2006	0.00011 J	-	-	-
Trichloroethene	MW 57	1/24/2007	0.001 UJ	-	-	-
Trichloroethene	MW 57	4/18/2007	0.001 U	-	-	-
Trichloroethene	MW 57	7/11/2007	0.001 U	-	-	-
Trichloroethene	MW 57	10/15/2007	0.001 U	-	-	-
Trichloroethene	MW 57	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 57	12/15/2009	0.001 U	-	-	-
Trichloroethene	MW 57	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 57	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 57	10/6/2011	0.001 U	-	-	-
Trichloroethene	MW 57	10/16/2012	0.001 U	-	-	-
Trichloroethene	MW 57	10/24/2013	0.001 U	-	-	-
Trichloroethene	MW 57	10/23/2014	0.001 U	-	-	-
Trichloroethene	MW 57	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 57	10/22/2016	0.002 U	-	-	-
Trichloroethene	MW 57	10/18/2017	0.0033 U	-	-	-
Trichloroethene	MW 57	10/8/2018	0.001 U	-	-	-
Trichloroethene	MW 57	11/03/2020	0.05 U	-	-	-
Trichloroethene	MW 58	1/18/2005	0.001 U	-	-	-
Trichloroethene	MW 58	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 58	10/18/2006	0.0059	-	-	-
Trichloroethene	MW 58	10/15/2007	0.00059 J	-	-	-
Trichloroethene	MW 58	2/18/2008	0.001 U	-	-	-
Trichloroethene	MW 58	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 58	12/15/2009	0.0031 U	-	-	-
Trichloroethene	MW 58	10/26/2010	0.001 U	-	-	-
Trichloroethene	MW 58	10/6/2011	0.008 U	-	-	-
Trichloroethene	MW 58	10/16/2012	0.0057 U	-	-	-
Trichloroethene	MW 58	10/16/2012	0.005 U	-	-	-
Trichloroethene	MW 58	10/24/2013	0.002 U	-	-	-
Trichloroethene	MW 58	10/23/2014	0.0033 U	-	-	-
Trichloroethene	MW 58	10/20/2015	0.0057 U	-	-	-
Trichloroethene	MW 58	10/20/2015	0.005 U	-	-	-
Trichloroethene	MW 58	10/25/2016	0.05 U	-	-	-
Trichloroethene	MW 58	10/17/2017	0.05 U	-	-	-
Trichloroethene	MW 58	10/8/2018	0.2 U	-	-	-
Trichloroethene	MW 58	11/03/2020	0.14 U	-	-	-
Trichloroethene	MW 58	11/03/2020	0.14 U	-	-	-
Trichloroethene	MW 61	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 61	6/24/2008	0.001 U	-	-	-
Trichloroethene	MW 61	12/3/2009	0.001 U	-	-	-
Trichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 61	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 61	10/10/2012	0.001 U	-	-	-
Trichloroethene	MW 61	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 61	10/21/2014	0.001 U	-	-	-
Trichloroethene	MW 61	10/9/2015	0.001 U	-	-	-
Trichloroethene	MW 61	10/22/2016	0.001 U	-	-	-

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Trichloroethene	MW 61	10/9/2017	0.001 U	-	-	-
Trichloroethene	MW 61	10/4/2018	0.001 U	-	-	-
Trichloroethene	MW 61	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 61	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 64	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 64	10/19/2005	0.0002 J	-	-	-
Trichloroethene	MW 64	10/18/2006	0.00011 J	-	-	-
Trichloroethene	MW 64	10/19/2007	0.00014 J	-	-	-
Trichloroethene	MW 64	2/18/2008	0.037	-	-	-
Trichloroethene	MW 64	2/18/2008	0.063	-	-	-
Trichloroethene	MW 64	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 64	12/8/2009	0.00011 J	-	-	-
Trichloroethene	MW 64	12/8/2009	0.00014 J	-	-	-
Trichloroethene	MW 64	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 64	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 64	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 64	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 64	10/22/2013	0.0017 U	-	-	-
Trichloroethene	MW 64	10/28/2014	0.0067 U	-	-	-
Trichloroethene	MW 64	10/13/2015	0.01 U	-	-	-
Trichloroethene	MW 64	10/20/2016	0.0025 U	-	-	-
Trichloroethene	MW 64	10/10/2017	0.0067 U	-	-	-
Trichloroethene	MW 64	10/3/2018	0.01 U	-	-	-
Trichloroethene	MW 64	10/3/2018	0.01 U	-	-	-
Trichloroethene	MW 64	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 64	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 65	1/10/2005	0.005 U	-	-	-
Trichloroethene	MW 65	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 65	2/15/2008	0.17 U	-	-	-
Trichloroethene	MW 65	6/27/2008	0.031 U	-	-	-
Trichloroethene	MW 65	12/4/2008	0.13 U	-	-	-
Trichloroethene	MW 65	4/28/2009	0.05 U	-	-	-
Trichloroethene	MW 65	12/4/2009	0.05 U	-	-	-
Trichloroethene	MW 65	10/25/2010	0.125 U	-	-	-
Trichloroethene	MW 65	10/3/2011	0.04 U	-	-	-
Trichloroethene	MW 65	10/11/2012	0.014 U	-	-	-
Trichloroethene	MW 65	10/22/2013	0.0057 U	-	-	-
Trichloroethene	MW 65	10/22/2014	0.002 U	-	-	-
Trichloroethene	MW 65	10/22/2014	0.0017 U	-	-	-
Trichloroethene	MW 65	10/8/2015	0.002 U	-	-	-
Trichloroethene	MW 65	10/19/2016	0.001 U	-	-	-
Trichloroethene	MW 65	10/6/2017	0.001 U	-	-	-
Trichloroethene	MW 65	10/4/2018	0.00027 J	-	-	-
Trichloroethene	MW 65	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
Trichloroethene	MW 66	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 66	10/18/2006	0.001 U	-	-	-
Trichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
Trichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
Trichloroethene	MW 66	2/18/2008	0.00034 J	-	-	-
Trichloroethene	MW 66	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 66	12/4/2008	0.001 U	-	-	-

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Trichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
Trichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
Trichloroethene	MW 66	12/8/2009	0.001 U	-	-	-
Trichloroethene	MW 66	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 66	4/19/2011	0.01 U	-	-	-
Trichloroethene	MW 66	4/19/2011	0.01 U	-	-	-
Trichloroethene	MW 66	10/3/2011	0.017 U	-	-	-
Trichloroethene	MW 66	5/14/2012	0.0083 U	-	-	-
Trichloroethene	MW 66	10/11/2012	0.013 U	-	-	-
Trichloroethene	MW 66	4/10/2013	0.017 U	-	-	-
Trichloroethene	MW 66	10/22/2013	0.025 U	-	-	-
Trichloroethene	MW 66	4/11/2014	0.011 U	-	-	-
Trichloroethene	MW 66	10/27/2014	0.02 U	-	-	-
Trichloroethene	MW 66	4/27/2015	0.025 U	-	-	-
Trichloroethene	MW 66	10/13/2015	0.04 U	-	-	-
Trichloroethene	MW 66	4/20/2016	0.05 U	-	-	-
Trichloroethene	MW 66	10/20/2016	0.1 U	-	-	-
Trichloroethene	MW 66	4/19/2017	0.063 U	-	-	-
Trichloroethene	MW 66	10/10/2017	0.067 U	-	-	-
Trichloroethene	MW 66	4/11/2018	0.2 U	-	-	-
Trichloroethene	MW 66	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 66	04/25/2019	0.1 U	-	-	-
Trichloroethene	MW 66	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 68	1/18/2005	0.1	-	-	-
Trichloroethene	MW 68	10/19/2005	0.35 J	-	-	-
Trichloroethene	MW 68	10/19/2005	0.32 J	-	-	-
Trichloroethene	MW 68	1/31/2006	0.43 J	-	-	-
Trichloroethene	MW 68	4/18/2006	0.5 U	-	high DL	-
Trichloroethene	MW 68	7/19/2006	0.4 J	-	-	-
Trichloroethene	MW 68	10/19/2006	1.1 J	-	-	-
Trichloroethene	MW 68	1/23/2007	0.63 J	-	-	-
Trichloroethene	MW 68	4/18/2007	0.41 J	-	-	-
Trichloroethene	MW 68	7/9/2007	2.4	-	-	-
Trichloroethene	MW 68	10/16/2007	0.49 J	-	-	-
Trichloroethene	MW 68	2/19/2008	0.57	-	-	-
Trichloroethene	MW 68	6/27/2008	2.6	-	-	-
Trichloroethene	MW 68	12/5/2008	1.1	-	-	-
Trichloroethene	MW 68	4/29/2009	1.4	-	-	-
Trichloroethene	MW 68	12/16/2009	2.3	-	-	-
Trichloroethene	MW 68	12/16/2009	2.4	-	-	-
Trichloroethene	MW 68	10/26/2010	1.94	-	-	-
Trichloroethene	MW 68	4/18/2011	2.4	-	-	-
Trichloroethene	MW 68	10/4/2011	1.9	-	-	-
Trichloroethene	MW 68	10/4/2011	1.9	-	-	-
Trichloroethene	MW 68	5/14/2012	1.8	-	-	-
Trichloroethene	MW 68	10/12/2012	1.9	-	-	-
Trichloroethene	MW 68	4/10/2013	2.1	-	-	-
Trichloroethene	MW 68	4/10/2013	1.9	-	-	-
Trichloroethene	MW 68	10/23/2013	2	-	-	-
Trichloroethene	MW 68	11/14/2013	1.9	-	-	-
Trichloroethene	MW 68	11/14/2013	1.9	-	-	-
Trichloroethene	MW 68	4/10/2014	1.8	-	-	-
Trichloroethene	MW 68	10/23/2014	1.5	-	-	-

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Trichloroethene	MW 68	4/28/2015	1.5	-	-	-
Trichloroethene	MW 68	4/28/2015	1.5	-	-	-
Trichloroethene	MW 68	10/13/2015	1.4	-	-	-
Trichloroethene	MW 68	10/13/2015	1.3	-	-	-
Trichloroethene	MW 68	4/19/2016	1	-	-	-
Trichloroethene	MW 68	10/20/2016	1.7	-	-	-
Trichloroethene	MW 68	4/17/2017	1.5	-	-	-
Trichloroethene	MW 68	10/11/2017	1.6	-	-	-
Trichloroethene	MW 68	4/11/2018	1.7	-	-	-
Trichloroethene	MW 68	10/2/2018	1.4	-	-	-
Trichloroethene	MW 68	04/25/2019	1.4	-	-	-
Trichloroethene	MW 68	11/03/2020	1.1	-	-	-
Trichloroethene	MW 68	11/03/2020	1.2	-	-	-
Trichloroethene	MW 75	1/14/2005	0.001 U	-	-	-
Trichloroethene	MW 75	10/19/2005	0.001 U	-	-	-
Trichloroethene	MW 75	10/19/2006	0.001 UJ	-	-	-
Trichloroethene	MW 75	10/16/2007	0.001 U	-	-	-
Trichloroethene	MW 75	6/30/2008	0.001 U	-	-	-
Trichloroethene	MW 75	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 75	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 75	10/12/2012	0.001 U	-	-	-
Trichloroethene	MW 75	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 75	10/21/2014	0.001 U	-	-	-
Trichloroethene	MW 75	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 75	10/16/2017	0.001 U	-	-	-
Trichloroethene	MW 75	10/2/2018	0.001 U	-	-	-
Trichloroethene	MW 75	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/20/2005	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/19/2006	0.001 UJ	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/16/2007	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/12/2012	0.00021 J	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/23/2013	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/21/2014	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/2/2018	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 79	1/13/2005	0.12	-	-	-
Trichloroethene	MW 79	10/15/2007	0.05 U	-	-	-
Trichloroethene	MW 79	12/5/2008	0.071 U	-	-	-
Trichloroethene	MW 79	4/29/2009	0.05 U	-	-	-
Trichloroethene	MW 79	12/14/2009	0.05 U	-	-	-
Trichloroethene	MW 79	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 79	4/20/2011	0.04 U	-	-	-
Trichloroethene	MW 79	10/4/2011	0.067 U	-	-	-
Trichloroethene	MW 79	5/15/2012	0.05 U	-	-	-
Trichloroethene	MW 79	10/15/2012	0.071 U	-	-	-
Trichloroethene	MW 79	10/15/2012	0.071 U	-	-	-
Trichloroethene	MW 79	4/9/2013	0.083 U	-	-	-

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Trichloroethene	MW 79	10/28/2013	0.05 U	-	-	-
Trichloroethene	MW 79	4/15/2014	0.1 U	-	-	-
Trichloroethene	MW 79	10/28/2014	0.1 U	-	-	-
Trichloroethene	MW 79	10/28/2014	0.1 U	-	-	-
Trichloroethene	MW 79	4/29/2015	0.1 U	-	-	-
Trichloroethene	MW 79	10/13/2015	0.083 U	-	-	-
Trichloroethene	MW 79	4/19/2016	0.1 U	-	-	-
Trichloroethene	MW 79	10/21/2016	0.1 U	-	-	-
Trichloroethene	MW 79	4/17/2017	0.063 U	-	-	-
Trichloroethene	MW 79	4/17/2017	0.13 U	-	-	-
Trichloroethene	MW 79	10/11/2017	0.05 U	-	-	-
Trichloroethene	MW 79	4/10/2018	0.1 U	-	-	-
Trichloroethene	MW 79	10/2/2018	0.1 U	-	-	-
Trichloroethene	MW 79	04/25/2019	0.1 U	-	-	-
Trichloroethene	MW 79	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 80	10/18/2005	0.0083 U	-	-	-
Trichloroethene	MW 80	10/18/2006	0.00021 J	-	-	-
Trichloroethene	MW 80	10/17/2007	0.001 U	-	-	-
Trichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
Trichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
Trichloroethene	MW 80	12/8/2009	0.001 U	-	-	-
Trichloroethene	MW 80	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 80	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 80	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 80	10/22/2013	0.0017 U	-	-	-
Trichloroethene	MW 80	10/24/2014	0.001 U	-	-	-
Trichloroethene	MW 80	10/8/2015	0.0017 U	-	-	-
Trichloroethene	MW 80	10/22/2016	0.0018 U	-	-	-
Trichloroethene	MW 80	10/6/2017	0.002 U	-	-	-
Trichloroethene	MW 80	10/2/2018	0.002 U	-	-	-
Trichloroethene	MW 80	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 81	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 81	3/30/2005	0.001 UJ	-	-	-
Trichloroethene	MW 81	10/19/2005	0.001 U	-	-	-
Trichloroethene	MW 81	10/18/2006	0.001 U	-	-	-
Trichloroethene	MW 81	10/18/2006	0.001 U	-	-	-
Trichloroethene	MW 81	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 81	2/15/2008	0.001 U	-	-	-
Trichloroethene	MW 81	6/26/2008	0.001 U	-	-	-
Trichloroethene	MW 81	12/4/2009	0.001 U	-	-	-
Trichloroethene	MW 81	10/25/2010	0.005 U	-	-	-
Trichloroethene	MW 81	10/3/2011	0.002 U	-	-	-
Trichloroethene	MW 81	10/11/2012	0.002 U	-	-	-
Trichloroethene	MW 81	10/22/2013	0.005 U	-	-	-
Trichloroethene	MW 81	10/22/2014	0.0067 U	-	-	-
Trichloroethene	MW 81	10/8/2015	0.008 U	-	-	-
Trichloroethene	MW 81	10/22/2016	0.005 U	-	-	-
Trichloroethene	MW 81	10/6/2017	0.0033 U	-	-	-
Trichloroethene	MW 81	10/9/2018	0.004 U	-	-	-
Trichloroethene	MW 81	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 82	3/9/2005	0.001 U	-	-	-

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Trichloroethene	MW 82	10/20/2005	0.001 U	-	-	-
Trichloroethene	MW 82	10/19/2006	0.001 UJ	-	-	-
Trichloroethene	MW 82	10/16/2007	0.001 U	-	-	-
Trichloroethene	MW 82	6/27/2008	0.001 U	-	-	-
Trichloroethene	MW 82	12/15/2009	0.001 U	-	-	-
Trichloroethene	MW 82	10/27/2010	0.001 U	-	-	-
Trichloroethene	MW 82	10/4/2011	0.001 U	-	-	-
Trichloroethene	MW 82	10/23/2013	0.00066 J	-	-	-
Trichloroethene	MW 82	10/24/2014	0.001 U	-	-	-
Trichloroethene	MW 82	10/12/2015	0.001 U	-	-	-
Trichloroethene	MW 82	10/23/2016	0.001 U	-	-	-
Trichloroethene	MW 82	10/12/2017	0.00097 J	-	-	-
Trichloroethene	MW 82	10/12/2017	0.00096 J	-	-	-
Trichloroethene	MW 82	10/10/2018	0.00012 J	-	-	-
Trichloroethene	MW 82	10/10/2018	0.00014 J	-	-	-
Trichloroethene	MW 82	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 83	3/9/2005	0.001 U	-	-	-
Trichloroethene	MW 83	10/18/2005	0.001 U	-	-	-
Trichloroethene	MW 83	10/18/2006	0.001 UJ	-	-	-
Trichloroethene	MW 83	10/18/2007	0.001 U	-	-	-
Trichloroethene	MW 83	6/27/2008	0.001 U	-	-	-
Trichloroethene	MW 83	12/8/2009	0.001 U	-	-	-
Trichloroethene	MW 83	10/26/2010	0.005 U	-	-	-
Trichloroethene	MW 83	10/4/2011	0.001 U	-	-	-
Trichloroethene	MW 83	10/10/2012	0.001 U	-	-	-
Trichloroethene	MW 83	10/24/2013	0.00023 J	-	-	-
Trichloroethene	MW 83	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 83	10/9/2015	0.001 U	-	-	-
Trichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 83	10/11/2017	0.00045 J	-	-	-
Trichloroethene	MW 83	10/10/2018	0.017 U	-	-	-
Trichloroethene	MW 83	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 84	10/20/2005	0.001 U	-	-	-
Trichloroethene	MW 84	4/10/2013	0.001 U	-	-	-
Trichloroethene	MW 84	11/14/2013	0.001 U	-	-	-
Trichloroethene	MW 84	4/10/2014	0.001 U	-	-	-
Trichloroethene	MW 84	10/12/2015	0.001 U	-	-	-
Trichloroethene	MW 84	10/24/2016	0.001 U	-	-	-
Trichloroethene	MW 84	10/13/2017	0.001 U	-	-	-
Trichloroethene	MW 84	10/4/2018	0.001 U	-	-	-
Trichloroethene	MW 84	10/08/2019	0.001 U	-	-	-
Trichloroethene	MW 84	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 85	2/19/2008	0.0032 J	-	-	-
Trichloroethene	MW 85	6/25/2008	0.001 U	-	-	-
Trichloroethene	MW 85	12/4/2008	0.031 U	-	-	-
Trichloroethene	MW 85	4/30/2009	0.025 U	-	-	-
Trichloroethene	MW 85	12/17/2009	0.017 U	-	-	-
Trichloroethene	MW 85	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW 85	4/20/2011	0.02 U	-	-	-
Trichloroethene	MW 85	10/6/2011	0.029 U	-	-	-
Trichloroethene	MW 85	5/16/2012	0.025 U	-	-	-
Trichloroethene	MW 85	10/16/2012	0.17 U	-	-	-

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Trichloroethene	MW 85	4/12/2013	0.067 U	-	-	-
Trichloroethene	MW 85	10/29/2013	0.067 U	-	-	-
Trichloroethene	MW 85	4/16/2014	0.25 U	-	-	-
Trichloroethene	MW 85	10/29/2014	0.25 U	-	-	-
Trichloroethene	MW 85	4/27/2015	0.5 U	-	-	-
Trichloroethene	MW 85	10/19/2015	0.33 U	-	-	-
Trichloroethene	MW 85	4/22/2016	0.5 U	-	-	-
Trichloroethene	MW 85	4/22/2016	0.5 U	-	-	-
Trichloroethene	MW 85	10/24/2016	0.56 U	-	-	-
Trichloroethene	MW 85	4/18/2017	0.33 U	-	-	-
Trichloroethene	MW 85	10/17/2017	0.2 U	-	-	-
Trichloroethene	MW 85	4/12/2018	0.5 U	-	-	-
Trichloroethene	MW 85	10/8/2018	0.5 U	-	-	-
Trichloroethene	MW 85	04/25/2019	0.2 U	-	-	-
Trichloroethene	MW 85	11/03/2020	0.33 U	-	-	-
Trichloroethene	MW 86	10/28/2010	0.005 U	-	-	-
Trichloroethene	MW 86	10/28/2010	0.001 U	-	-	-
Trichloroethene	MW 86	10/4/2011	0.001 U	-	-	-
Trichloroethene	MW 86	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2013	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 86	10/8/2015	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 86	10/13/2017	0.001 U	-	-	-
Trichloroethene	MW 86	10/4/2018	0.001 U	-	-	-
Trichloroethene	MW 86	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 88	10/29/2010	0.005 U	-	-	-
Trichloroethene	MW 88	10/3/2011	0.001 U	-	-	-
Trichloroethene	MW 88	10/11/2012	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2013	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2014	0.001 U	-	-	-
Trichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
Trichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 88	10/13/2017	0.001 U	-	-	-
Trichloroethene	MW 88	10/4/2018	0.001 U	-	-	-
Trichloroethene	MW 88	10/4/2018	0.001 U	-	-	-
Trichloroethene	MW 88	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
Trichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/17/2012	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/28/2013	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/16/2014	0.00032 J	-	-	-
Trichloroethene	MW 89-11	10/28/2014	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/28/2015	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/15/2015	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/25/2016	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/25/2016	0.001 U	-	-	-

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Trichloroethene	MW 89-11	4/19/2017	0.00036 J	-	-	-
Trichloroethene	MW 89-11	10/17/2017	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/11/2018	0.001 U	-	-	-
Trichloroethene	MW 89-11	10/8/2018	0.001 U	-	-	-
Trichloroethene	MW 89-11	04/25/2019	0.001 U	-	-	-
Trichloroethene	MW 89-11	11/03/2020	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/25/2016	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/18/2017	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/9/2018	0.001 U	-	-	-
Trichloroethene	MW97R-16	11/03/2020	0.001 U	-	-	-
Trichloroethene	Pond Intake	1/11/2005	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/19/2005	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/17/2005	0.001 U	-	-	-
Trichloroethene	Pond Intake	2/1/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/17/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/18/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/17/2006	0.001 U	-	-	-
Trichloroethene	Pond Intake	1/22/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/16/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	5/9/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	6/18/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/10/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	8/15/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	9/27/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/17/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	11/9/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	12/4/2007	0.001 U	-	-	-
Trichloroethene	Pond Intake	2/18/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	6/25/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	9/23/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	12/4/2008	0.001 U	-	-	-
Trichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/30/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	12/17/2009	0.001 U	-	-	-
Trichloroethene	Pond Intake	8/4/2010	0.005 U	-	-	-
Trichloroethene	Pond Intake	10/28/2010	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/20/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/28/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/6/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/6/2011	0.001 U	-	-	-
Trichloroethene	Pond Intake	5/16/2012	0.001 U	-	-	-
Trichloroethene	Pond Intake	8/2/2012	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/16/2012	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/12/2013	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/17/2013	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/29/2013	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/16/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/17/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	7/17/2014	0.001 U	-	-	-
Trichloroethene	Pond Intake	10/29/2014	0.001 U	-	-	-

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Trichloroethene	Pond Intake	4/27/2015	0.0013 U	-	-	-
Trichloroethene	Pond Intake	7/10/2015	0.0033 U	-	-	-
Trichloroethene	Pond Intake	7/10/2015	0.004 U	-	-	-
Trichloroethene	Pond Intake	10/20/2015	0.001 U	-	-	-
Trichloroethene	Pond Intake	4/22/2016	0.0025 U	-	-	-
Trichloroethene	Pond Intake	7/19/2016	0.0017 U	-	-	-
Trichloroethene	Pond Intake	10/24/2016	0.0018 U	-	-	-
Trichloroethene	Pond Intake	10/24/2016	0.002 U	-	-	-
Trichloroethene	Pond Intake	4/18/2017	0.0017 U	-	-	-
Trichloroethene	Pond Intake	7/12/2017	0.0073	-	-	-
Trichloroethene	Pond Intake	10/19/2017	0.002 U	-	-	-
Trichloroethene	Pond Intake	4/9/2018	0.005 U	-	-	-
Trichloroethene	Pond Intake	7/5/2018	0.0033 U	-	-	-
Trichloroethene	Pond Intake	7/5/2018	0.0033 U	-	-	-
Trichloroethene	Pond Intake	10/9/2018	0.005 U	-	-	-
Trichloroethene	Pond Intake	04/25/2019	0.001 J	-	-	-
Trichloroethene	Pond Intake	04/25/2019	0.0009 J	-	-	-
Trichloroethene	Pond Intake	10/08/2019	0.0017 U	-	-	-
Trichloroethene	Pond Intake	11/03/2020	0.0025 U	-	-	-
Trichloroethene	Pond North	1/11/2005	0.001 U	-	-	-
Trichloroethene	Pond North	4/19/2005	0.001 U	-	-	-
Trichloroethene	Pond North	10/17/2005	0.001 U	-	-	-
Trichloroethene	Pond North	2/1/2006	0.001 U	-	-	-
Trichloroethene	Pond North	4/17/2006	0.001 U	-	-	-
Trichloroethene	Pond North	7/18/2006	0.001 U	-	-	-
Trichloroethene	Pond North	10/17/2006	0.001 U	-	-	-
Trichloroethene	Pond North	1/22/2007	0.0071 UJ	-	-	-
Trichloroethene	Pond North	4/16/2007	0.001 U	-	-	-
Trichloroethene	Pond North	5/9/2007	0.001 U	-	-	-
Trichloroethene	Pond North	6/18/2007	0.001 U	-	-	-
Trichloroethene	Pond North	7/10/2007	0.001 U	-	-	-
Trichloroethene	Pond North	8/15/2007	0.001 U	-	-	-
Trichloroethene	Pond North	9/27/2007	0.001 U	-	-	-
Trichloroethene	Pond North	10/17/2007	0.001 U	-	-	-
Trichloroethene	Pond North	11/9/2007	0.001 U	-	-	-
Trichloroethene	Pond North	12/4/2007	0.001 U	-	-	-
Trichloroethene	Pond North	2/18/2008	0.001 U	-	-	-
Trichloroethene	Pond North	6/25/2008	0.001 U	-	-	-
Trichloroethene	Pond North	9/23/2008	0.001 U	-	-	-
Trichloroethene	Pond North	9/23/2008	0.001 U	-	-	-
Trichloroethene	Pond North	12/4/2008	0.001 U	-	-	-
Trichloroethene	Pond North	3/4/2009	0.001 U	-	-	-
Trichloroethene	Pond North	4/30/2009	0.001 U	-	-	-
Trichloroethene	Pond North	7/30/2009	0.001 U	-	-	-
Trichloroethene	Pond North	12/17/2009	0.017 U	-	-	-
Trichloroethene	Pond North	8/4/2010	0.005 U	-	-	-
Trichloroethene	Pond North	8/4/2010	0.005 U	-	-	-
Trichloroethene	Pond North	10/28/2010	0.001 U	-	-	-
Trichloroethene	Pond North	4/20/2011	0.001 U	-	-	-
Trichloroethene	Pond North	7/28/2011	0.001 U	-	-	-
Trichloroethene	Pond North	7/28/2011	0.001 U	-	-	-
Trichloroethene	Pond North	10/6/2011	0.001 U	-	-	-
Trichloroethene	Pond North	5/16/2012	0.001 U	-	-	-

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Trichloroethene	Pond North	5/16/2012	0.001 U	-	-	-
Trichloroethene	Pond North	8/2/2012	0.001 U	-	-	-
Trichloroethene	Pond North	8/2/2012	0.001 U	-	-	-
Trichloroethene	Pond North	10/16/2012	0.0029 U	-	-	-
Trichloroethene	Pond North	4/12/2013	0.001 U	-	-	-
Trichloroethene	Pond North	7/17/2013	0.001 U	-	-	-
Trichloroethene	Pond North	7/17/2013	0.001 U	-	-	-
Trichloroethene	Pond North	10/29/2013	0.001 U	-	-	-
Trichloroethene	Pond North	4/16/2014	0.0033 U	-	-	-
Trichloroethene	Pond North	7/17/2014	0.01 U	-	-	-
Trichloroethene	Pond North	10/29/2014	0.008 U	-	-	-
Trichloroethene	Pond North	4/27/2015	0.008 U	-	-	-
Trichloroethene	Pond North	7/10/2015	0.0033 U	-	-	-
Trichloroethene	Pond North	10/20/2015	0.0014 U	-	-	-
Trichloroethene	Pond North	4/22/2016	0.005 U	-	-	-
Trichloroethene	Pond North	7/19/2016	0.0025 U	-	-	-
Trichloroethene	Pond North	7/19/2016	0.0025 U	-	-	-
Trichloroethene	Pond North	10/24/2016	0.033 U	-	-	-
Trichloroethene	Pond North	4/18/2017	0.0067 U	-	-	-
Trichloroethene	Pond North	4/18/2017	0.0067 U	-	-	-
Trichloroethene	Pond North	7/12/2017	0.0071	-	-	-
Trichloroethene	Pond North	7/12/2017	0.0073	-	-	-
Trichloroethene	Pond North	10/19/2017	0.01 U	-	-	-
Trichloroethene	Pond North	4/9/2018	0.011 U	-	-	-
Trichloroethene	Pond North	4/9/2018	0.01 U	-	-	-
Trichloroethene	Pond North	7/5/2018	0.0063 U	-	-	-
Trichloroethene	Pond North	10/9/2018	0.0067 U	-	-	-
Trichloroethene	Pond North	10/9/2018	0.0067 U	-	-	-
Trichloroethene	Pond North	04/25/2019	0.0011 J	-	-	-
Trichloroethene	Pond North	10/08/2019	0.005 U	-	-	-
Trichloroethene	Pond North	10/08/2019	0.005 U	-	-	-
Trichloroethene	Pond North	11/03/2020	0.01U	-	-	-
Trichloroethene	Pond North	11/03/2020	0.01U	-	-	-
cis-1,2-Dichloroethene	MW-2	5/9/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	7/10/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/17/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	6/25/2008	0.00015 J	-	-	-
cis-1,2-Dichloroethene	MW-2	12/17/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/28/2010	0.0021	-	-	-
cis-1,2-Dichloroethene	MW-2	10/6/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/16/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/29/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/19/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/24/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/17/2017	0.0014	-	-	-
cis-1,2-Dichloroethene	MW-2	10/8/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 3	2/1/2005	5.3	-	-	-
cis-1,2-Dichloroethene	MW 3	2/1/2005	5.3	-	-	-
cis-1,2-Dichloroethene	MW 3	10/18/2005	0.0042 U	-	-	-

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cis-1,2-Dichloroethene	MW 3	1/31/2006	3	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2006	4.1	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2006	4.1	-	-	-
cis-1,2-Dichloroethene	MW 3	7/19/2006	4.5	-	-	-
cis-1,2-Dichloroethene	MW 3	7/19/2006	4.2	-	-	-
cis-1,2-Dichloroethene	MW 3	10/16/2006	2.5	-	-	-
cis-1,2-Dichloroethene	MW 3	1/24/2007	5.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/17/2007	3.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/17/2007	3.1	-	-	-
cis-1,2-Dichloroethene	MW 3	7/11/2007	4.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/16/2007	2.1	-	-	-
cis-1,2-Dichloroethene	MW 3	2/18/2008	7.7	-	-	-
cis-1,2-Dichloroethene	MW 3	6/30/2008	6.6	-	-	-
cis-1,2-Dichloroethene	MW 3	6/30/2008	6.5	-	-	-
cis-1,2-Dichloroethene	MW 3	12/4/2008	2.8	-	-	-
cis-1,2-Dichloroethene	MW 3	4/30/2009	12	-	-	-
cis-1,2-Dichloroethene	MW 3	12/15/2009	2.3	-	-	-
cis-1,2-Dichloroethene	MW 3	12/15/2009	2.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/28/2010	1.24	-	-	-
cis-1,2-Dichloroethene	MW 3	10/28/2010	1.08	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2011	8.9	-	-	-
cis-1,2-Dichloroethene	MW 3	10/5/2011	5.7	-	-	-
cis-1,2-Dichloroethene	MW 3	5/16/2012	8.9	-	-	-
cis-1,2-Dichloroethene	MW 3	10/15/2012	1.2	-	-	-
cis-1,2-Dichloroethene	MW 3	4/9/2013	6.2	-	-	-
cis-1,2-Dichloroethene	MW 3	10/24/2013	0.93	-	-	-
cis-1,2-Dichloroethene	MW 3	10/24/2013	1	-	-	-
cis-1,2-Dichloroethene	MW 3	4/15/2014	4.7	-	-	-
cis-1,2-Dichloroethene	MW 3	10/23/2014	1	-	-	-
cis-1,2-Dichloroethene	MW 3	4/28/2015	4.5	-	-	-
cis-1,2-Dichloroethene	MW 3	10/14/2015	1.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/20/2016	7.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/25/2016	1.9	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2017	7.4	-	-	-
cis-1,2-Dichloroethene	MW 3	10/12/2017	1.6	-	-	-
cis-1,2-Dichloroethene	MW 3	4/11/2018	3.2	-	-	-
cis-1,2-Dichloroethene	MW 3	10/3/2018	4.8	-	-	-
cis-1,2-Dichloroethene	MW 3	04/25/2019	2.5	-	-	-
cis-1,2-Dichloroethene	MW 3	11/03/2020	0.63	-	-	-
cis-1,2-Dichloroethene	MW-4	1/11/2005	6.1	-	-	-
cis-1,2-Dichloroethene	MW-4	10/19/2005	13	-	-	-
cis-1,2-Dichloroethene	MW-4	2/1/2006	8.6	-	-	-
cis-1,2-Dichloroethene	MW-4	4/18/2006	5.4	-	-	-
cis-1,2-Dichloroethene	MW-4	7/18/2006	8.1	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2006	23	yes	-	-
cis-1,2-Dichloroethene	MW-4	1/24/2007	7.7	-	-	-
cis-1,2-Dichloroethene	MW-4	4/16/2007	11 J	-	-	-
cis-1,2-Dichloroethene	MW-4	7/10/2007	11	-	-	-
cis-1,2-Dichloroethene	MW-4	7/10/2007	13	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2007	6.7	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2007	7.7	-	-	-
cis-1,2-Dichloroethene	MW-4	2/18/2008	15	-	-	-
cis-1,2-Dichloroethene	MW-4	6/25/2008	11	-	-	-

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cis-1,2-Dichloroethene	MW-4	6/25/2008	9.2	-	-	-
cis-1,2-Dichloroethene	MW-4	12/3/2008	18	-	-	-
cis-1,2-Dichloroethene	MW-4	4/30/2009	7.8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/30/2009	7.5	-	-	-
cis-1,2-Dichloroethene	MW-4	12/16/2009	16	-	-	-
cis-1,2-Dichloroethene	MW-4	12/16/2009	16	-	-	-
cis-1,2-Dichloroethene	MW-4	10/28/2010	12.6	-	-	-
cis-1,2-Dichloroethene	MW-4	4/20/2011	8.8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/20/2011	8.7	-	-	-
cis-1,2-Dichloroethene	MW-4	10/6/2011	11	-	-	-
cis-1,2-Dichloroethene	MW-4	5/16/2012	11	-	-	-
cis-1,2-Dichloroethene	MW-4	10/16/2012	14	-	-	-
cis-1,2-Dichloroethene	MW-4	4/12/2013	12	-	-	-
cis-1,2-Dichloroethene	MW-4	10/29/2013	14	-	-	-
cis-1,2-Dichloroethene	MW-4	4/16/2014	13	-	-	-
cis-1,2-Dichloroethene	MW-4	4/16/2014	13	-	-	-
cis-1,2-Dichloroethene	MW-4	10/29/2014	12	-	-	-
cis-1,2-Dichloroethene	MW-4	4/27/2015	10	-	-	-
cis-1,2-Dichloroethene	MW-4	10/19/2015	12	-	-	-
cis-1,2-Dichloroethene	MW-4	4/22/2016	9.4	-	-	-
cis-1,2-Dichloroethene	MW-4	10/24/2016	7.9	-	-	-
cis-1,2-Dichloroethene	MW-4	4/18/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW-4	10/17/2017	8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/12/2018	8.8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/12/2018	8.3	-	-	-
cis-1,2-Dichloroethene	MW-4	10/8/2018	8.9	-	-	-
cis-1,2-Dichloroethene	MW-4	04/25/2019	6.8	-	-	-
cis-1,2-Dichloroethene	MW-4	11/03/2020	7.8	-	-	-
cis-1,2-Dichloroethene	MW-7	10/29/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	10/9/2018	0.00018 J	-	-	-
cis-1,2-Dichloroethene	MW-7	10/9/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 8	2/2/2005	17	-	-	-
cis-1,2-Dichloroethene	MW 8	10/17/2005	5.8	-	-	-
cis-1,2-Dichloroethene	MW 8	10/17/2005	5.5	-	-	-
cis-1,2-Dichloroethene	MW 8	2/1/2006	12 J	-	-	-
cis-1,2-Dichloroethene	MW 8	4/17/2006	16	-	-	-
cis-1,2-Dichloroethene	MW 8	7/18/2006	4.6	-	-	-
cis-1,2-Dichloroethene	MW 8	10/16/2006	5.4	-	-	-
cis-1,2-Dichloroethene	MW 8	1/23/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 8	4/16/2007	9.1	-	-	-
cis-1,2-Dichloroethene	MW 8	7/10/2007	7.5	-	-	-
cis-1,2-Dichloroethene	MW 8	10/15/2007	9.6	-	-	-
cis-1,2-Dichloroethene	MW 8	6/27/2008	22	-	-	-
cis-1,2-Dichloroethene	MW 8	12/15/2009	0.24	yes	-	-
cis-1,2-Dichloroethene	MW 8	10/27/2010	5.44	-	-	-
cis-1,2-Dichloroethene	MW 8	4/18/2011	8.5	-	-	-
cis-1,2-Dichloroethene	MW 8	10/5/2011	7.1	-	-	-
cis-1,2-Dichloroethene	MW 8	5/15/2012	5.1	-	-	-
cis-1,2-Dichloroethene	MW 8	5/15/2012	5.2	-	-	-

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cis-1,2-Dichloroethene	MW 8	10/15/2012	3.8	-	-	-
cis-1,2-Dichloroethene	MW 8	4/9/2013	3.5	-	-	-
cis-1,2-Dichloroethene	MW 8	10/24/2013	4.2	-	-	-
cis-1,2-Dichloroethene	MW 8	4/15/2014	9.3	-	-	-
cis-1,2-Dichloroethene	MW 8	10/23/2014	4.4	-	-	-
cis-1,2-Dichloroethene	MW 8	4/28/2015	3.8	-	-	-
cis-1,2-Dichloroethene	MW 8	10/14/2015	4.8	-	-	-
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9	-	-	-
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9	-	-	-
cis-1,2-Dichloroethene	MW 8	10/21/2016	4.3	-	-	-
cis-1,2-Dichloroethene	MW 8	4/18/2017	3.1	-	-	-
cis-1,2-Dichloroethene	MW 8	10/12/2017	4	-	-	-
cis-1,2-Dichloroethene	MW 8	4/10/2018	3.6	-	-	-
cis-1,2-Dichloroethene	MW 8	10/2/2018	2.2	-	-	-
cis-1,2-Dichloroethene	MW 8	04/25/2019	1.4	-	-	-
cis-1,2-Dichloroethene	MW 8	11/03/2020	2.2	-	-	-
cis-1,2-Dichloroethene	MW 12	2/2/2005	1	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2005	0.96	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2005	1	-	-	-
cis-1,2-Dichloroethene	MW 12	1/31/2006	0.97	-	-	-
cis-1,2-Dichloroethene	MW 12	4/18/2006	0.51	-	-	-
cis-1,2-Dichloroethene	MW 12	7/18/2006	0.41	-	-	-
cis-1,2-Dichloroethene	MW 12	7/18/2006	0.45	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2006	0.67	-	-	-
cis-1,2-Dichloroethene	MW 12	1/22/2007	0.51	-	-	-
cis-1,2-Dichloroethene	MW 12	4/18/2007	0.44	-	-	-
cis-1,2-Dichloroethene	MW 12	7/11/2007	0.61	-	-	-
cis-1,2-Dichloroethene	MW 12	10/19/2007	0.59	-	-	-
cis-1,2-Dichloroethene	MW 12	6/27/2008	0.46	-	-	-
cis-1,2-Dichloroethene	MW 12	12/5/2008	0.48	-	-	-
cis-1,2-Dichloroethene	MW 12	4/29/2009	0.49	-	-	-
cis-1,2-Dichloroethene	MW 12	12/9/2009	0.42	-	-	-
cis-1,2-Dichloroethene	MW 12	10/26/2010	0.324	-	-	-
cis-1,2-Dichloroethene	MW 12	4/20/2011	0.29	-	-	-
cis-1,2-Dichloroethene	MW 12	10/5/2011	0.24	-	-	-
cis-1,2-Dichloroethene	MW 12	5/15/2012	0.24	-	-	-
cis-1,2-Dichloroethene	MW 12	10/11/2012	0.2	-	-	-
cis-1,2-Dichloroethene	MW 12	4/9/2013	0.21	-	-	-
cis-1,2-Dichloroethene	MW 12	10/23/2013	0.24	-	-	-
cis-1,2-Dichloroethene	MW 12	4/11/2014	0.21	-	-	-
cis-1,2-Dichloroethene	MW 12	10/24/2014	0.15	-	-	-
cis-1,2-Dichloroethene	MW 12	10/24/2014	0.16	-	-	-
cis-1,2-Dichloroethene	MW 12	4/27/2015	0.13	-	-	-
cis-1,2-Dichloroethene	MW 12	10/9/2015	0.08	-	-	-
cis-1,2-Dichloroethene	MW 12	4/21/2016	0.13	-	-	-
cis-1,2-Dichloroethene	MW 12	10/25/2016	0.12	-	-	-
cis-1,2-Dichloroethene	MW 12	4/19/2017	0.11	-	-	-
cis-1,2-Dichloroethene	MW 12	10/6/2017	0.1	-	-	-
cis-1,2-Dichloroethene	MW 12	4/11/2018	0.1	-	-	-
cis-1,2-Dichloroethene	MW 12	10/4/2018	0.08	-	-	-
cis-1,2-Dichloroethene	MW 12	04/25/2019	0.09	-	-	-
cis-1,2-Dichloroethene	MW 12	11/03/2020	0.072	-	-	-
cis-1,2-Dichloroethene	MW 14	2/2/2005	7.4	-	-	-

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cis-1,2-Dichloroethene	MW 14	10/17/2005	7.4	-	-	-
cis-1,2-Dichloroethene	MW 14	2/1/2006	5.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2006	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	7/19/2006	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	10/18/2006	4.3 J	-	-	-
cis-1,2-Dichloroethene	MW 14	1/24/2007	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/17/2007	5.8 J	-	-	-
cis-1,2-Dichloroethene	MW 14	7/9/2007	6.6	-	-	-
cis-1,2-Dichloroethene	MW 14	10/16/2007	7.7	-	-	-
cis-1,2-Dichloroethene	MW 14	6/30/2008	6	-	-	-
cis-1,2-Dichloroethene	MW 14	12/5/2008	6.1	-	-	-
cis-1,2-Dichloroethene	MW 14	4/29/2009	6.1	-	-	-
cis-1,2-Dichloroethene	MW 14	12/15/2009	0.33	yes	-	-
cis-1,2-Dichloroethene	MW 14	10/27/2010	5.22	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2011	4.9	-	-	-
cis-1,2-Dichloroethene	MW 14	10/5/2011	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	5/15/2012	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/15/2012	4.9	-	-	-
cis-1,2-Dichloroethene	MW 14	4/9/2013	3.6	-	-	-
cis-1,2-Dichloroethene	MW 14	4/9/2013	3.9	-	-	-
cis-1,2-Dichloroethene	MW 14	10/25/2013	6.1	-	-	-
cis-1,2-Dichloroethene	MW 14	10/25/2013	5	-	-	-
cis-1,2-Dichloroethene	MW 14	4/15/2014	5.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/15/2014	5.5	-	-	-
cis-1,2-Dichloroethene	MW 14	10/24/2014	4.9	-	-	-
cis-1,2-Dichloroethene	MW 14	4/29/2015	4.5	-	-	-
cis-1,2-Dichloroethene	MW 14	4/29/2015	4.8	-	-	-
cis-1,2-Dichloroethene	MW 14	10/12/2015	4.7	-	-	-
cis-1,2-Dichloroethene	MW 14	4/19/2016	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/25/2016	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2017	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2017	3.9	-	-	-
cis-1,2-Dichloroethene	MW 14	10/13/2017	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	10/13/2017	4	-	-	-
cis-1,2-Dichloroethene	MW 14	4/10/2018	4	-	-	-
cis-1,2-Dichloroethene	MW 14	10/3/2018	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	04/25/2019	3.2	-	-	-
cis-1,2-Dichloroethene	MW 14	11/03/2020	3 B	-	-	-
cis-1,2-Dichloroethene	MW 15	2/1/2005	29	-	-	-
cis-1,2-Dichloroethene	MW 15	10/18/2005	11	-	-	-
cis-1,2-Dichloroethene	MW 15	2/1/2006	20 J	-	-	-
cis-1,2-Dichloroethene	MW 15	4/18/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 15	7/19/2006	9	-	-	-
cis-1,2-Dichloroethene	MW 15	10/17/2006	8.4	-	-	-
cis-1,2-Dichloroethene	MW 15	1/24/2007	24	-	-	-
cis-1,2-Dichloroethene	MW 15	4/17/2007	18	-	-	-
cis-1,2-Dichloroethene	MW 15	7/10/2007	15	-	-	-
cis-1,2-Dichloroethene	MW 15	7/10/2007	15	-	-	-
cis-1,2-Dichloroethene	MW 15	10/16/2007	12	-	-	-
cis-1,2-Dichloroethene	MW 15	2/14/2008	19	-	-	-
cis-1,2-Dichloroethene	MW 15	10/24/2013	12	-	-	-
cis-1,2-Dichloroethene	MW 15	10/23/2014	6.3	-	-	-
cis-1,2-Dichloroethene	MW 15	10/14/2015	4.4	-	-	-

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cis-1,2-Dichloroethene	MW 15	10/21/2016	1.7	-	-	-
cis-1,2-Dichloroethene	MW 15	10/11/2017	3.5	-	-	-
cis-1,2-Dichloroethene	MW 15	10/2/2018	5.4	-	-	-
cis-1,2-Dichloroethene	MW 15	11/03/2020	1.9	-	-	-
cis-1,2-Dichloroethene	MW 16	1/17/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	11/14/2013	0.00031 J	-	-	-
cis-1,2-Dichloroethene	MW 16	4/10/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/12/2015	0.00026 J	-	-	-
cis-1,2-Dichloroethene	MW 16	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/12/2017	0.0019	-	-	-
cis-1,2-Dichloroethene	MW 16	10/3/2018	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/08/2019	9.6	-	-	-
cis-1,2-Dichloroethene	MW 16	11/03/2020	5.6 B	-	-	-
cis-1,2-Dichloroethene	MW 21	2/1/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/17/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	2/1/2006	0.00092 J	-	-	-
cis-1,2-Dichloroethene	MW 21	4/17/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	7/18/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/16/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	1/23/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	4/16/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	7/9/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/15/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/3/2018	0.00046 J	-	-	-
cis-1,2-Dichloroethene	MW 21	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/18/2005	0.0063 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/18/2007	0.0071 U	-	-	-
cis-1,2-Dichloroethene	MW 28	6/24/2008	0.0042 U	-	-	-
cis-1,2-Dichloroethene	MW 28	12/4/2008	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 28	4/29/2009	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 28	12/4/2009	0.0063 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2011	0.002 U	-	-	-
cis-1,2-Dichloroethene	MW 28	10/3/2011	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 28	5/14/2012	0.0011 J	-	-	-
cis-1,2-Dichloroethene	MW 28	10/10/2012	0.018	-	-	-
cis-1,2-Dichloroethene	MW 28	4/10/2013	0.13	-	-	-
cis-1,2-Dichloroethene	MW 28	10/23/2013	0.31	-	-	-
cis-1,2-Dichloroethene	MW 28	4/15/2014	0.57	-	-	-
cis-1,2-Dichloroethene	MW 28	4/15/2014	0.56	-	-	-
cis-1,2-Dichloroethene	MW 28	10/27/2014	0.56	-	-	-
cis-1,2-Dichloroethene	MW 28	4/29/2015	0.6	-	-	-
cis-1,2-Dichloroethene	MW 28	10/12/2015	0.86	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2016	0.77	-	-	-
cis-1,2-Dichloroethene	MW 28	10/22/2016	0.86	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2017	0.85	-	-	-
cis-1,2-Dichloroethene	MW 28	10/9/2017	0.92	-	-	-
cis-1,2-Dichloroethene	MW 28	4/12/2018	0.97	-	-	-
cis-1,2-Dichloroethene	MW 28	10/4/2018	1	-	-	-

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cis-1,2-Dichloroethene	MW 28	10/4/2018	1	-	-	-
cis-1,2-Dichloroethene	MW 28	04/25/2019	1	-	-	-
cis-1,2-Dichloroethene	MW 28	11/03/2020	1.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/18/2005	45	yes	-	-
cis-1,2-Dichloroethene	MW 31R	1/31/2006	16	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/19/2006	8.7	-	-	-
cis-1,2-Dichloroethene	MW 31R	7/19/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/17/2006	6.3 J	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/17/2006	6.8	-	-	-
cis-1,2-Dichloroethene	MW 31R	1/23/2007	7.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	1/23/2007	7.8	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/17/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 31R	7/11/2007	13	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/17/2007	12	-	-	-
cis-1,2-Dichloroethene	MW 31R	2/14/2008	15	-	-	-
cis-1,2-Dichloroethene	MW 31R	2/14/2008	16	-	-	-
cis-1,2-Dichloroethene	MW 31R	12/4/2008	14	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/29/2009	11	-	-	-
cis-1,2-Dichloroethene	MW 31R	12/15/2009	11	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/28/2010	6.44	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/18/2011	6.2	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/4/2011	5.1	-	-	-
cis-1,2-Dichloroethene	MW 31R	5/15/2012	8.8	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/15/2012	6.2	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/9/2013	8.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/24/2013	7.2	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/15/2014	12	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/27/2014	7.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/28/2015	11	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/14/2015	6.6	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/20/2016	15	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/19/2017	18	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/12/2017	69	yes	-	-
cis-1,2-Dichloroethene	MW 31R	4/10/2018	20	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/2/2018	33	-	-	-
cis-1,2-Dichloroethene	MW 31R	10/2/2018	32	-	-	-
cis-1,2-Dichloroethene	MW 31R	04/25/2019	95	yes	-	-
cis-1,2-Dichloroethene	MW 31R	11/03/2020	16	-	-	-
cis-1,2-Dichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	1/18/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/17/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	12/16/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/27/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/25/2013	0.0011	-	-	-
cis-1,2-Dichloroethene	MW 37	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/23/2016	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 37	10/16/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/5/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	11/03/2020	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 40	1/12/2005	13	-	-	-
cis-1,2-Dichloroethene	MW 40	10/18/2005	16	-	-	-
cis-1,2-Dichloroethene	MW 40	1/30/2006	15	-	-	-
cis-1,2-Dichloroethene	MW 40	4/17/2006	8.5	-	-	-
cis-1,2-Dichloroethene	MW 40	7/19/2006	9.4	-	-	-
cis-1,2-Dichloroethene	MW 40	10/18/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 40	1/23/2007	11	-	-	-
cis-1,2-Dichloroethene	MW 40	4/18/2007	9.6	-	-	-
cis-1,2-Dichloroethene	MW 40	7/10/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 40	10/18/2007	17	-	-	-
cis-1,2-Dichloroethene	MW 40	2/15/2008	17	-	-	-
cis-1,2-Dichloroethene	MW 40	6/26/2008	15 J	-	-	-
cis-1,2-Dichloroethene	MW 40	12/3/2008	13	-	-	-
cis-1,2-Dichloroethene	MW 40	12/3/2008	13	-	-	-
cis-1,2-Dichloroethene	MW 40	4/30/2009	13	-	-	-
cis-1,2-Dichloroethene	MW 40	12/9/2009	13	-	-	-
cis-1,2-Dichloroethene	MW 40	10/26/2010	7.66	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2011	8.8	-	-	-
cis-1,2-Dichloroethene	MW 40	10/4/2011	7.6	-	-	-
cis-1,2-Dichloroethene	MW 40	5/14/2012	7.9	-	-	-
cis-1,2-Dichloroethene	MW 40	10/10/2012	6.7	-	-	-
cis-1,2-Dichloroethene	MW 40	4/9/2013	7.9	-	-	-
cis-1,2-Dichloroethene	MW 40	10/24/2013	8.1	-	-	-
cis-1,2-Dichloroethene	MW 40	4/14/2014	11	-	-	-
cis-1,2-Dichloroethene	MW 40	10/27/2014	7.2	-	-	-
cis-1,2-Dichloroethene	MW 40	4/28/2015	7.5	-	-	-
cis-1,2-Dichloroethene	MW 40	10/13/2015	6.3	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2016	7	-	-	-
cis-1,2-Dichloroethene	MW 40	10/20/2016	5	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.5	-	-	-
cis-1,2-Dichloroethene	MW 40	4/13/2018	5.8	-	-	-
cis-1,2-Dichloroethene	MW 40	10/3/2018	5.4	-	-	-
cis-1,2-Dichloroethene	MW 40	04/25/2019	4.6	-	-	-
cis-1,2-Dichloroethene	MW 40	11/03/2020	3.1	-	-	-
cis-1,2-Dichloroethene	MW 41	10/17/2005	4.3	-	-	-
cis-1,2-Dichloroethene	MW 41	1/30/2006	8.5	-	-	-
cis-1,2-Dichloroethene	MW 41	4/17/2006	5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	4/17/2006	4.7	-	-	-
cis-1,2-Dichloroethene	MW 41	7/18/2006	5.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/18/2006	6.5 J	-	-	-
cis-1,2-Dichloroethene	MW 41	1/23/2007	6.5	-	-	-
cis-1,2-Dichloroethene	MW 41	4/18/2007	5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	4/18/2007	4.1	-	-	-
cis-1,2-Dichloroethene	MW 41	7/10/2007	8.3	-	-	-
cis-1,2-Dichloroethene	MW 41	10/18/2007	10	-	-	-
cis-1,2-Dichloroethene	MW 41	2/15/2008	9.8	-	-	-
cis-1,2-Dichloroethene	MW 41	6/24/2008	7	-	-	-
cis-1,2-Dichloroethene	MW 41	12/3/2008	9.5	-	-	-

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cis-1,2-Dichloroethene	MW 41	4/28/2009	10	-	-	-
cis-1,2-Dichloroethene	MW 41	12/3/2009	8.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/25/2010	6.94	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2011	6.3	-	-	-
cis-1,2-Dichloroethene	MW 41	10/4/2011	6.3	-	-	-
cis-1,2-Dichloroethene	MW 41	5/14/2012	6	-	-	-
cis-1,2-Dichloroethene	MW 41	10/10/2012	6.8	-	-	-
cis-1,2-Dichloroethene	MW 41	4/9/2013	6.3	-	-	-
cis-1,2-Dichloroethene	MW 41	10/25/2013	7.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/14/2014	7.6	-	-	-
cis-1,2-Dichloroethene	MW 41	10/23/2014	7.3	-	-	-
cis-1,2-Dichloroethene	MW 41	4/29/2015	6.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/12/2015	6.5	-	-	-
cis-1,2-Dichloroethene	MW 41	10/12/2015	6.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2016	6.4	-	-	-
cis-1,2-Dichloroethene	MW 41	10/23/2016	5.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2017	6	-	-	-
cis-1,2-Dichloroethene	MW 41	10/9/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 41	4/13/2018	5.8	-	-	-
cis-1,2-Dichloroethene	MW 41	10/4/2018	4.8	-	-	-
cis-1,2-Dichloroethene	MW 41	04/25/2019	5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	04/25/2019	5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	11/03/2020	4.2 B	-	-	-
cis-1,2-Dichloroethene	MW 42	10/18/2005	12	-	-	-
cis-1,2-Dichloroethene	MW 42	1/30/2006	10	-	-	-
cis-1,2-Dichloroethene	MW 42	1/30/2006	9.7	-	-	-
cis-1,2-Dichloroethene	MW 42	4/17/2006	6.5	-	-	-
cis-1,2-Dichloroethene	MW 42	7/18/2006	7	-	-	-
cis-1,2-Dichloroethene	MW 42	10/18/2006	6.4 J	-	-	-
cis-1,2-Dichloroethene	MW 42	1/23/2007	6.2	-	-	-
cis-1,2-Dichloroethene	MW 42	1/23/2007	6.2	-	-	-
cis-1,2-Dichloroethene	MW 42	4/18/2007	3.7	-	-	-
cis-1,2-Dichloroethene	MW 42	7/10/2007	9.2	-	-	-
cis-1,2-Dichloroethene	MW 42	10/18/2007	9.8	-	-	-
cis-1,2-Dichloroethene	MW 42	2/15/2008	10	-	-	-
cis-1,2-Dichloroethene	MW 42	6/24/2008	7.9	-	-	-
cis-1,2-Dichloroethene	MW 42	12/3/2008	8.9	-	-	-
cis-1,2-Dichloroethene	MW 42	4/28/2009	9.3	-	-	-
cis-1,2-Dichloroethene	MW 42	12/3/2009	8.1	-	-	-
cis-1,2-Dichloroethene	MW 42	10/25/2010	6.27	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2011	6	-	-	-
cis-1,2-Dichloroethene	MW 42	10/4/2011	5	-	-	-
cis-1,2-Dichloroethene	MW 42	5/14/2012	5.4	-	-	-
cis-1,2-Dichloroethene	MW 42	10/10/2012	5.3	-	-	-
cis-1,2-Dichloroethene	MW 42	4/9/2013	5.2	-	-	-
cis-1,2-Dichloroethene	MW 42	10/25/2013	5.2	-	-	-
cis-1,2-Dichloroethene	MW 42	4/14/2014	5.6	-	-	-
cis-1,2-Dichloroethene	MW 42	10/23/2014	4.3	-	-	-
cis-1,2-Dichloroethene	MW 42	4/29/2015	4.1	-	-	-
cis-1,2-Dichloroethene	MW 42	10/12/2015	4.4	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2016	4.1	-	-	-
cis-1,2-Dichloroethene	MW 42	10/23/2016	3.2	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2017	2.9	-	-	-

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cis-1,2-Dichloroethene	MW 42	10/9/2017	3.7	-	-	-
cis-1,2-Dichloroethene	MW 42	4/13/2018	3.9	-	-	-
cis-1,2-Dichloroethene	MW 42	10/4/2018	3.5	-	-	-
cis-1,2-Dichloroethene	MW 42	04/25/2019	2.4	-	-	-
cis-1,2-Dichloroethene	MW 42	11/03/2020	2.9 B	-	-	-
cis-1,2-Dichloroethene	MW 46	1/12/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	6/27/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	12/16/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/25/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/16/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/5/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/08/2019	0.0005 J	-	-	-
cis-1,2-Dichloroethene	MW 46	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 49	1/12/2005	0.01	-	-	-
cis-1,2-Dichloroethene	MW 49	10/19/2007	0.045	-	-	-
cis-1,2-Dichloroethene	MW 49	2/15/2008	0.045	-	-	-
cis-1,2-Dichloroethene	MW 49	6/30/2008	0.065	-	-	-
cis-1,2-Dichloroethene	MW 49	12/5/2008	0.093	-	-	-
cis-1,2-Dichloroethene	MW 49	4/29/2009	0.1	-	-	-
cis-1,2-Dichloroethene	MW 49	12/4/2009	0.44	-	-	-
cis-1,2-Dichloroethene	MW 49	10/27/2010	0.352	-	-	-
cis-1,2-Dichloroethene	MW 49	4/19/2011	0.37	-	-	-
cis-1,2-Dichloroethene	MW 49	10/5/2011	0.53	-	-	-
cis-1,2-Dichloroethene	MW 49	5/15/2012	0.66	-	-	-
cis-1,2-Dichloroethene	MW 49	10/17/2012	0.78	-	-	-
cis-1,2-Dichloroethene	MW 49	4/10/2013	0.74	-	-	-
cis-1,2-Dichloroethene	MW 49	10/25/2013	0.9	-	-	-
cis-1,2-Dichloroethene	MW 49	4/14/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 49	10/27/2014	0.78	-	-	-
cis-1,2-Dichloroethene	MW 49	4/28/2015	0.71	-	-	-
cis-1,2-Dichloroethene	MW 49	10/13/2015	0.86	-	-	-
cis-1,2-Dichloroethene	MW 49	4/21/2016	0.83	-	-	-
cis-1,2-Dichloroethene	MW 49	4/11/2018	0.89	-	-	-
cis-1,2-Dichloroethene	MW 49	10/3/2018	0.89	-	-	-
cis-1,2-Dichloroethene	MW 49	04/25/2019	0.83	-	-	-
cis-1,2-Dichloroethene	MW 49	10/08/2019	0.69	-	-	-
cis-1,2-Dichloroethene	MW 49	10/08/2019	0.7	-	-	-
cis-1,2-Dichloroethene	MW 49	11/03/2020	0.6	-	-	-
cis-1,2-Dichloroethene	MW 51	12/5/2008	0.0086 J	-	-	-
cis-1,2-Dichloroethene	MW 51	12/5/2008	0.0085 J	-	-	-
cis-1,2-Dichloroethene	MW 51	4/29/2009	0.0065 J	-	-	-
cis-1,2-Dichloroethene	MW 51	12/14/2009	0.011	-	-	-
cis-1,2-Dichloroethene	MW 51	10/27/2010	0.0096 J	-	-	-
cis-1,2-Dichloroethene	MW 51	4/20/2011	0.0067 U	-	-	-
cis-1,2-Dichloroethene	MW 51	10/5/2011	0.0078 J	-	-	-

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cis-1,2-Dichloroethene	MW 51	5/14/2012	0.0065	-	-	-
cis-1,2-Dichloroethene	MW 51	10/12/2012	0.0099	-	-	-
cis-1,2-Dichloroethene	MW 51	4/9/2013	0.0076 J	-	-	-
cis-1,2-Dichloroethene	MW 51	10/23/2013	0.0075	-	-	-
cis-1,2-Dichloroethene	MW 51	4/16/2014	0.0071	-	-	-
cis-1,2-Dichloroethene	MW 51	10/21/2014	0.0077	-	-	-
cis-1,2-Dichloroethene	MW 51	4/28/2015	0.0078	-	-	-
cis-1,2-Dichloroethene	MW 51	4/28/2015	0.0077	-	-	-
cis-1,2-Dichloroethene	MW 51	10/9/2015	0.0083	-	-	-
cis-1,2-Dichloroethene	MW 51	4/20/2016	0.011	-	-	-
cis-1,2-Dichloroethene	MW 51	10/23/2016	0.012	-	-	-
cis-1,2-Dichloroethene	MW 51	4/18/2017	0.015	-	-	-
cis-1,2-Dichloroethene	MW 51	10/16/2017	0.028	yes	-	-
cis-1,2-Dichloroethene	MW 51	4/10/2018	0.032	-	-	-
cis-1,2-Dichloroethene	MW 51	4/10/2018	0.034	-	-	-
cis-1,2-Dichloroethene	MW 51	10/4/2018	0.079	-	-	-
cis-1,2-Dichloroethene	MW 51	04/25/2019	0.15/0.16	-	-	-
cis-1,2-Dichloroethene	MW 56	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/18/2006	0.0024	-	-	-
cis-1,2-Dichloroethene	MW 56	10/18/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	12/17/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/6/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/16/2012	0.003	-	-	-
cis-1,2-Dichloroethene	MW 56	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/29/2014	0.00020 J	-	-	-
cis-1,2-Dichloroethene	MW 56	10/29/2014	0.00021 J	-	-	-
cis-1,2-Dichloroethene	MW 56	10/19/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/24/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/5/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	1/10/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	2/1/2006	0.0014	-	-	-
cis-1,2-Dichloroethene	MW 57	4/18/2006	0.0007 J	-	-	-
cis-1,2-Dichloroethene	MW 57	7/18/2006	0.004	-	-	-
cis-1,2-Dichloroethene	MW 57	10/17/2006	0.0011	-	-	-
cis-1,2-Dichloroethene	MW 57	1/24/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	4/16/2007	0.00034 J	-	-	-
cis-1,2-Dichloroethene	MW 57	7/10/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/17/2007	0.00014 J	-	-	-
cis-1,2-Dichloroethene	MW 57	6/25/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	12/16/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/6/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/16/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/29/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/29/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/19/2015	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 57	10/24/2016	0.0042	-	-	-
cis-1,2-Dichloroethene	MW 57	10/18/2017	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/8/2018	0.0082 U	-	-	-
cis-1,2-Dichloroethene	MW 57	11/03/2020	0.18	-	-	-
cis-1,2-Dichloroethene	MW 58	1/10/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/17/2006	0.0042 J	-	-	-
cis-1,2-Dichloroethene	MW 58	10/17/2007	0.0034 U	-	-	-
cis-1,2-Dichloroethene	MW 58	2/18/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	6/25/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	12/17/2009	0.0031 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/6/2011	0.008 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/16/2012	0.0057 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/16/2012	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/29/2013	0.002 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/29/2014	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 58	10/20/2015	0.028	-	-	-
cis-1,2-Dichloroethene	MW 58	10/20/2015	0.028	-	-	-
cis-1,2-Dichloroethene	MW 58	10/25/2016	1.1	-	-	-
cis-1,2-Dichloroethene	MW 58	10/17/2017	2.2	-	-	-
cis-1,2-Dichloroethene	MW 58	10/8/2018	3	-	-	-
cis-1,2-Dichloroethene	MW 58	11/03/2020	2.9	-	-	-
cis-1,2-Dichloroethene	MW 58	11/03/2020	2.9	-	-	-
cis-1,2-Dichloroethene	MW 61	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	6/24/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	12/3/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/10/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/23/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/21/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/22/2016	0.00035 J	-	-	-
cis-1,2-Dichloroethene	MW 61	10/9/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	11/03/2020	0.001 UJB	-	-	-
cis-1,2-Dichloroethene	MW 61	11/03/2020	0.001 UJB	-	-	-
cis-1,2-Dichloroethene	MW 64	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/18/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	2/18/2008	0.014	-	-	-
cis-1,2-Dichloroethene	MW 64	2/18/2008	0.024	-	-	-
cis-1,2-Dichloroethene	MW 64	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	12/8/2009	0.00014 J	-	-	-
cis-1,2-Dichloroethene	MW 64	12/8/2009	0.00014 J	-	-	-
cis-1,2-Dichloroethene	MW 64	10/25/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/11/2012	0.00063 J	-	-	-
cis-1,2-Dichloroethene	MW 64	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 64	10/22/2013	0.025	-	-	-

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cis-1,2-Dichloroethene	MW 64	10/28/2014	0.22	-	-	-
cis-1,2-Dichloroethene	MW 64	10/13/2015	0.25	-	-	-
cis-1,2-Dichloroethene	MW 64	10/20/2016	0.062	-	-	-
cis-1,2-Dichloroethene	MW 64	10/10/2017	0.23	-	-	-
cis-1,2-Dichloroethene	MW 64	10/3/2018	0.21	-	-	-
cis-1,2-Dichloroethene	MW 64	10/3/2018	0.21	-	-	-
cis-1,2-Dichloroethene	MW 64	11/03/2020	0.31 B	-	-	-
cis-1,2-Dichloroethene	MW 64	11/03/2020	0.32 B	-	-	-
cis-1,2-Dichloroethene	MW 65	1/10/2005	0.17	-	-	-
cis-1,2-Dichloroethene	MW 65	10/18/2007	2.7	-	-	-
cis-1,2-Dichloroethene	MW 65	2/15/2008	3	-	-	-
cis-1,2-Dichloroethene	MW 65	6/27/2008	0.34	-	-	-
cis-1,2-Dichloroethene	MW 65	12/4/2008	1.9	-	-	-
cis-1,2-Dichloroethene	MW 65	4/28/2009	0.97	-	-	-
cis-1,2-Dichloroethene	MW 65	12/4/2009	1.4	-	-	-
cis-1,2-Dichloroethene	MW 65	10/25/2010	2.44	-	-	-
cis-1,2-Dichloroethene	MW 65	10/3/2011	0.97	-	-	-
cis-1,2-Dichloroethene	MW 65	10/11/2012	0.38	-	-	-
cis-1,2-Dichloroethene	MW 65	10/22/2013	0.21	-	-	-
cis-1,2-Dichloroethene	MW 65	10/22/2014	0.053	-	-	-
cis-1,2-Dichloroethene	MW 65	10/22/2014	0.064	-	-	-
cis-1,2-Dichloroethene	MW 65	10/8/2015	0.051	-	-	-
cis-1,2-Dichloroethene	MW 65	10/19/2016	0.028	-	-	-
cis-1,2-Dichloroethene	MW 65	10/6/2017	0.02	-	-	-
cis-1,2-Dichloroethene	MW 65	10/4/2018	0.015	-	-	-
cis-1,2-Dichloroethene	MW 65	11/03/2020	0.0082 B	-	-	-
cis-1,2-Dichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	1/11/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	10/18/2005	0.0014 U	-	-	-
cis-1,2-Dichloroethene	MW 66	10/18/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	10/19/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	2/18/2008	0.00012 J	-	low J value	-
cis-1,2-Dichloroethene	MW 66	6/26/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	12/4/2008	0.0007 J	-	low J value	-
cis-1,2-Dichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	4/28/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 66	12/8/2009	0.0048	-	-	-
cis-1,2-Dichloroethene	MW 66	10/25/2010	0.248	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2011	0.23	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2011	0.24	-	-	-
cis-1,2-Dichloroethene	MW 66	10/3/2011	0.33	-	-	-
cis-1,2-Dichloroethene	MW 66	5/14/2012	0.24	-	-	-
cis-1,2-Dichloroethene	MW 66	10/11/2012	0.42	-	-	-
cis-1,2-Dichloroethene	MW 66	4/10/2013	0.36	-	-	-
cis-1,2-Dichloroethene	MW 66	10/22/2013	0.9	-	-	-
cis-1,2-Dichloroethene	MW 66	4/11/2014	0.28	-	-	-
cis-1,2-Dichloroethene	MW 66	10/27/2014	0.53	-	-	-
cis-1,2-Dichloroethene	MW 66	4/27/2015	0.45	-	-	-
cis-1,2-Dichloroethene	MW 66	10/13/2015	1	-	-	-
cis-1,2-Dichloroethene	MW 66	4/20/2016	1.1	-	-	-
cis-1,2-Dichloroethene	MW 66	10/20/2016	1.8	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2017	2.2	-	-	-

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cis-1,2-Dichloroethene	MW 66	10/10/2017	3	-	-	-
cis-1,2-Dichloroethene	MW 66	4/11/2018	2.6	-	-	-
cis-1,2-Dichloroethene	MW 66	10/3/2018	3.4	-	-	-
cis-1,2-Dichloroethene	MW 66	04/25/2019	3.3	-	-	-
cis-1,2-Dichloroethene	MW 66	11/03/2020	2.3 B	-	-	-
cis-1,2-Dichloroethene	MW 68	1/18/2005	14	-	-	-
cis-1,2-Dichloroethene	MW 68	10/19/2005	16	-	-	-
cis-1,2-Dichloroethene	MW 68	10/19/2005	16	-	-	-
cis-1,2-Dichloroethene	MW 68	1/31/2006	13	-	-	-
cis-1,2-Dichloroethene	MW 68	4/18/2006	9.9	-	-	-
cis-1,2-Dichloroethene	MW 68	7/19/2006	7.5	-	-	-
cis-1,2-Dichloroethene	MW 68	10/19/2006	12	-	-	-
cis-1,2-Dichloroethene	MW 68	1/23/2007	9.5	-	-	-
cis-1,2-Dichloroethene	MW 68	4/18/2007	8.9	-	-	-
cis-1,2-Dichloroethene	MW 68	7/9/2007	13	-	-	-
cis-1,2-Dichloroethene	MW 68	10/16/2007	14	-	-	-
cis-1,2-Dichloroethene	MW 68	2/19/2008	14	-	-	-
cis-1,2-Dichloroethene	MW 68	6/27/2008	13	-	-	-
cis-1,2-Dichloroethene	MW 68	12/5/2008	10	-	-	-
cis-1,2-Dichloroethene	MW 68	4/29/2009	11	-	-	-
cis-1,2-Dichloroethene	MW 68	12/16/2009	8.4	-	-	-
cis-1,2-Dichloroethene	MW 68	12/16/2009	8.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/26/2010	7.52	-	-	-
cis-1,2-Dichloroethene	MW 68	4/18/2011	7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/4/2011	6.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/4/2011	6.6	-	-	-
cis-1,2-Dichloroethene	MW 68	5/14/2012	6.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/12/2012	6.1	-	-	-
cis-1,2-Dichloroethene	MW 68	4/10/2013	6.4	-	-	-
cis-1,2-Dichloroethene	MW 68	4/10/2013	6.1	-	-	-
cis-1,2-Dichloroethene	MW 68	10/23/2013	7	-	-	-
cis-1,2-Dichloroethene	MW 68	11/14/2013	6.5	-	-	-
cis-1,2-Dichloroethene	MW 68	11/14/2013	6.7	-	-	-
cis-1,2-Dichloroethene	MW 68	4/10/2014	6.3	-	-	-
cis-1,2-Dichloroethene	MW 68	10/23/2014	5.5	-	-	-
cis-1,2-Dichloroethene	MW 68	4/28/2015	5.8	-	-	-
cis-1,2-Dichloroethene	MW 68	4/28/2015	5.9	-	-	-
cis-1,2-Dichloroethene	MW 68	10/13/2015	5.1	-	-	-
cis-1,2-Dichloroethene	MW 68	10/13/2015	4.9	-	-	-
cis-1,2-Dichloroethene	MW 68	4/19/2016	4.5	-	-	-
cis-1,2-Dichloroethene	MW 68	10/20/2016	3.5	-	-	-
cis-1,2-Dichloroethene	MW 68	4/17/2017	3.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/11/2017	4.2	-	-	-
cis-1,2-Dichloroethene	MW 68	4/11/2018	3.7	-	-	-
cis-1,2-Dichloroethene	MW 68	10/2/2018	4.4	-	-	-
cis-1,2-Dichloroethene	MW 68	04/25/2019	4.4	-	-	-
cis-1,2-Dichloroethene	MW 68	11/03/2020	3/3	-	-	-
cis-1,2-Dichloroethene	MW 75	1/14/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/19/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/16/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	6/30/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/27/2010	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 75	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/12/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/23/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/21/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/23/2016	0.0007 J	-	-	-
cis-1,2-Dichloroethene	MW 75	10/16/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/2/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/20/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/16/2007	0.00019 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/27/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/12/2012	0.00099 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/23/2013	0.00036 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/23/2013	0.00043 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/21/2014	0.00043 J	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/18/2017	0.0027	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/2/2018	0.0028	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	11/03/2020	0.0032 B	-	-	-
cis-1,2-Dichloroethene	MW 79	1/13/2005	0.79	-	-	-
cis-1,2-Dichloroethene	MW 79	10/15/2007	0.99	-	-	-
cis-1,2-Dichloroethene	MW 79	12/5/2008	1	-	-	-
cis-1,2-Dichloroethene	MW 79	4/29/2009	1.1	-	-	-
cis-1,2-Dichloroethene	MW 79	12/14/2009	1.5	-	-	-
cis-1,2-Dichloroethene	MW 79	10/27/2010	1.22	-	-	-
cis-1,2-Dichloroethene	MW 79	4/20/2011	1.2	-	-	-
cis-1,2-Dichloroethene	MW 79	10/4/2011	1.5	-	-	-
cis-1,2-Dichloroethene	MW 79	5/15/2012	1.4	-	-	-
cis-1,2-Dichloroethene	MW 79	10/15/2012	2.1	-	-	-
cis-1,2-Dichloroethene	MW 79	10/15/2012	2.2	-	-	-
cis-1,2-Dichloroethene	MW 79	4/9/2013	1.9	-	-	-
cis-1,2-Dichloroethene	MW 79	10/28/2013	2.6	-	-	-
cis-1,2-Dichloroethene	MW 79	4/15/2014	2.9	-	-	-
cis-1,2-Dichloroethene	MW 79	10/28/2014	2.5	-	-	-
cis-1,2-Dichloroethene	MW 79	10/28/2014	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	4/29/2015	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	10/13/2015	2	-	-	-
cis-1,2-Dichloroethene	MW 79	4/19/2016	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	10/21/2016	2.1	-	-	-
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3	-	-	-
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3	-	-	-
cis-1,2-Dichloroethene	MW 79	10/11/2017	2.5	-	-	-
cis-1,2-Dichloroethene	MW 79	4/10/2018	3.5	-	-	-
cis-1,2-Dichloroethene	MW 79	10/2/2018	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	04/25/2019	2.2	-	-	-
cis-1,2-Dichloroethene	MW 79	11/03/2020	1.5 B	-	-	-
cis-1,2-Dichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/18/2005	0.0083 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/18/2006	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 80	10/17/2007	0.00013 J	-	-	-
cis-1,2-Dichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 80	6/27/2008	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 80	12/8/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/25/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/22/2013	0.0017 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/24/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 80	10/8/2015	0.0012 J	-	-	-
cis-1,2-Dichloroethene	MW 80	10/22/2016	0.025	-	-	-
cis-1,2-Dichloroethene	MW 80	10/6/2017	0.0086	-	-	-
cis-1,2-Dichloroethene	MW 80	10/2/2018	0.015	-	-	-
cis-1,2-Dichloroethene	MW 80	11/03/2020	0.013 B	-	-	-
cis-1,2-Dichloroethene	MW 81	3/9/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	3/30/2005	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 81	10/19/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	10/18/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	10/18/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 81	10/18/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	2/15/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	6/26/2008	0.00024 J	-	-	-
cis-1,2-Dichloroethene	MW 81	12/4/2009	0.0006 J	-	-	-
cis-1,2-Dichloroethene	MW 81	10/25/2010	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 81	10/3/2011	0.019	-	-	-
cis-1,2-Dichloroethene	MW 81	10/11/2012	0.039	-	-	-
cis-1,2-Dichloroethene	MW 81	10/22/2013	0.15	-	-	-
cis-1,2-Dichloroethene	MW 81	10/22/2014	0.17	-	-	-
cis-1,2-Dichloroethene	MW 81	10/8/2015	0.19	-	-	-
cis-1,2-Dichloroethene	MW 81	10/22/2016	0.077	-	-	-
cis-1,2-Dichloroethene	MW 81	10/6/2017	0.096	-	-	-
cis-1,2-Dichloroethene	MW 81	10/9/2018	0.078	-	-	-
cis-1,2-Dichloroethene	MW 81	11/03/2020	0.057	-	-	-
cis-1,2-Dichloroethene	MW 82	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/20/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/19/2006	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/16/2007	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	6/27/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	12/15/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/27/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/4/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/23/2013	0.0022	-	-	-
cis-1,2-Dichloroethene	MW 82	10/24/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/12/2015	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 82	10/23/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/12/2017	0.002	-	-	-
cis-1,2-Dichloroethene	MW 82	10/12/2017	0.002	-	-	-
cis-1,2-Dichloroethene	MW 82	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	11/03/2020	0.001 UJB	-	-	-
cis-1,2-Dichloroethene	MW 83	3/9/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/18/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/18/2006	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 83	10/18/2007	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 83	6/27/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	12/8/2009	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/26/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/4/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/10/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/24/2013	0.00032 J	-	-	-
cis-1,2-Dichloroethene	MW 83	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/9/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/11/2017	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 83	10/10/2018	0.3	-	-	-
cis-1,2-Dichloroethene	MW 83	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/20/2005	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	4/10/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	11/14/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	4/10/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/12/2015	0.00027 J	-	-	-
cis-1,2-Dichloroethene	MW 84	10/24/2016	0.001	-	-	-
cis-1,2-Dichloroethene	MW 84	10/13/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/08/2019	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	11/03/2020	0.001 UJB	-	-	-
cis-1,2-Dichloroethene	MW 85	2/19/2008	0.017 U	-	-	-
cis-1,2-Dichloroethene	MW 85	6/25/2008	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 85	12/4/2008	0.031 U	-	-	-
cis-1,2-Dichloroethene	MW 85	4/30/2009	0.025 U	-	-	-
cis-1,2-Dichloroethene	MW 85	12/17/2009	0.017 U	-	-	-
cis-1,2-Dichloroethene	MW 85	10/28/2010	0.693	-	-	-
cis-1,2-Dichloroethene	MW 85	4/20/2011	0.18	-	-	-
cis-1,2-Dichloroethene	MW 85	10/6/2011	0.59	-	-	-
cis-1,2-Dichloroethene	MW 85	5/16/2012	0.66	-	-	-
cis-1,2-Dichloroethene	MW 85	10/16/2012	4.6	-	-	-
cis-1,2-Dichloroethene	MW 85	4/12/2013	1.9	-	-	-
cis-1,2-Dichloroethene	MW 85	10/29/2013	4.6	-	-	-
cis-1,2-Dichloroethene	MW 85	4/16/2014	7.4	-	-	-
cis-1,2-Dichloroethene	MW 85	10/29/2014	7.5	-	-	-
cis-1,2-Dichloroethene	MW 85	4/27/2015	9.5	-	-	-
cis-1,2-Dichloroethene	MW 85	10/19/2015	10	-	-	-
cis-1,2-Dichloroethene	MW 85	4/22/2016	9.9	-	-	-
cis-1,2-Dichloroethene	MW 85	4/22/2016	10	-	-	-
cis-1,2-Dichloroethene	MW 85	10/24/2016	8.4	-	-	-
cis-1,2-Dichloroethene	MW 85	4/18/2017	8.4	-	-	-
cis-1,2-Dichloroethene	MW 85	10/17/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW 85	4/12/2018	7.3	-	-	-
cis-1,2-Dichloroethene	MW 85	10/8/2018	8	-	-	-
cis-1,2-Dichloroethene	MW 85	04/25/2019	4.4	-	-	-
cis-1,2-Dichloroethene	MW 85	11/03/2020	6.1	-	-	-
cis-1,2-Dichloroethene	MW 86	10/28/2010	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/28/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/4/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/11/2012	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW 86	10/22/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/8/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/13/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	11/03/2020	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 88	10/29/2010	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/3/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/11/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/8/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/22/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/13/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/4/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	11/03/2020	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	12/8/2011	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/17/2012	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/12/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/28/2013	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/16/2014	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/28/2014	0.00055 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/28/2015	0.0003 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/15/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/25/2016	0.0003 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/25/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/19/2017	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/17/2017	0.00059 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/11/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	10/8/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	04/25/2019	0.00037 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	11/03/2020	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/25/2016	0.0012	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/18/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/9/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW97R-16	11/03/2020	0.001 U	-	-	-
cis-1,2-Dichloroethene	Pond Intake	1/11/2005	0.013	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/19/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/17/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	2/1/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/17/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/18/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/17/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	Pond Intake	1/22/2007	0.066	-	-	sampling frequency
cis-1,2-Dichloroethene	Pond Intake	4/16/2007	0.0025	-	-	-

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cis-1,2-Dichloroethene	Pond Intake	5/9/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	6/18/2007	0.00019 J	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/10/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	8/15/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	9/27/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/17/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	11/9/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	12/4/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	2/18/2008	0.00061 J	-	-	-
cis-1,2-Dichloroethene	Pond Intake	6/25/2008	0.032	-	-	-
cis-1,2-Dichloroethene	Pond Intake	9/23/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	12/4/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	3/4/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/30/2009	0.0034	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/30/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	12/17/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	8/4/2010	0.0058	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/28/2010	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/20/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/28/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/6/2011	0.004	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/6/2011	0.004	-	-	-
cis-1,2-Dichloroethene	Pond Intake	5/16/2012	0.0063	-	-	-
cis-1,2-Dichloroethene	Pond Intake	8/2/2012	0.00072 J	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/16/2012	0.0026	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/12/2013	0.0066	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/17/2013	0.017	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/29/2013	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/16/2014	0.018	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/17/2014	0.029	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/17/2014	0.027	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/29/2014	0.022	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/27/2015	0.033	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	0.1	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/10/2015	0.11	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/20/2015	0.037	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/22/2016	0.077	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/19/2016	0.055	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/24/2016	0.036	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/24/2016	0.034	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/18/2017	0.059	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/12/2017	0.11	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/19/2017	0.052	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/9/2018	0.12	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.077	-	-	-
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.072	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/9/2018	0.1	-	-	-
cis-1,2-Dichloroethene	Pond Intake	04/25/2019	0.12/0.10	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/08/2019	0.061	-	-	-
cis-1,2-Dichloroethene	Pond Intake	11/03/2020	0.076	-	-	-
cis-1,2-Dichloroethene	Pond North	1/11/2005	0.032	-	-	-

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cis-1,2-Dichloroethene	Pond North	4/19/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/17/2005	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	2/1/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/17/2006	0.0017 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/18/2006	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/17/2006	0.001 UJ	-	-	-
cis-1,2-Dichloroethene	Pond North	1/22/2007	0.081	-	-	sampling frequency
cis-1,2-Dichloroethene	Pond North	4/16/2007	0.21 J	-	-	-
cis-1,2-Dichloroethene	Pond North	5/9/2007	0.00018 J	-	-	-
cis-1,2-Dichloroethene	Pond North	6/18/2007	0.00016 J	-	-	-
cis-1,2-Dichloroethene	Pond North	7/10/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	8/15/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	9/27/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/17/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	11/9/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	12/4/2007	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	2/18/2008	0.00062 J	-	-	-
cis-1,2-Dichloroethene	Pond North	6/25/2008	0.03	-	-	-
cis-1,2-Dichloroethene	Pond North	9/23/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	9/23/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	12/4/2008	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	3/4/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/30/2009	0.0065	-	-	-
cis-1,2-Dichloroethene	Pond North	7/30/2009	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	12/17/2009	0.011 J	-	-	-
cis-1,2-Dichloroethene	Pond North	8/4/2010	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	8/4/2010	0.005 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/28/2010	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/20/2011	0.026	-	-	-
cis-1,2-Dichloroethene	Pond North	7/28/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/28/2011	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/6/2011	0.0089	-	-	-
cis-1,2-Dichloroethene	Pond North	5/16/2012	0.022	-	-	-
cis-1,2-Dichloroethene	Pond North	5/16/2012	0.019	-	-	-
cis-1,2-Dichloroethene	Pond North	8/2/2012	0.0015	-	-	-
cis-1,2-Dichloroethene	Pond North	8/2/2012	0.0014	-	-	-
cis-1,2-Dichloroethene	Pond North	10/16/2012	0.035	-	-	-
cis-1,2-Dichloroethene	Pond North	4/12/2013	0.013	-	-	-
cis-1,2-Dichloroethene	Pond North	7/17/2013	0.032	-	-	-
cis-1,2-Dichloroethene	Pond North	7/17/2013	0.032	-	-	-
cis-1,2-Dichloroethene	Pond North	10/29/2013	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/16/2014	0.11	-	-	-
cis-1,2-Dichloroethene	Pond North	7/17/2014	0.25	-	-	-
cis-1,2-Dichloroethene	Pond North	10/29/2014	0.31	-	-	-
cis-1,2-Dichloroethene	Pond North	4/27/2015	0.26	-	-	-
cis-1,2-Dichloroethene	Pond North	7/10/2015	0.093	-	-	-
cis-1,2-Dichloroethene	Pond North	10/20/2015	0.035	-	-	-
cis-1,2-Dichloroethene	Pond North	4/22/2016	0.12	-	-	-
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.09	-	-	-
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.081	-	-	-
cis-1,2-Dichloroethene	Pond North	10/24/2016	0.5	-	-	-
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.21	-	-	-
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.2	-	-	-

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cis-1,2-Dichloroethene	Pond North	7/12/2017	0.11	-	-	-
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.1	-	-	-
cis-1,2-Dichloroethene	Pond North	10/19/2017	0.35	-	-	-
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.21	-	-	-
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.22	-	-	-
cis-1,2-Dichloroethene	Pond North	7/5/2018	0.16	-	-	-
cis-1,2-Dichloroethene	Pond North	10/9/2018	0.13	-	-	-
cis-1,2-Dichloroethene	Pond North	10/9/2018	0.13	-	-	-
cis-1,2-Dichloroethene	Pond North	04/25/2019	0.18	-	-	-
cis-1,2-Dichloroethene	Pond North	10/08/2019	0.1/0.1	-	-	-
cis-1,2-Dichloroethene	Pond North	11/03/2020	0.2	-	-	-
cis-1,2-Dichloroethene	Pond North	11/03/2020	0.2	-	-	-
Vinyl chloride	MW-2	5/9/2007	0.001 U	-	-	-
Vinyl chloride	MW-2	7/10/2007	0.001 U	-	-	-
Vinyl chloride	MW-2	10/17/2007	0.001 U	-	-	-
Vinyl chloride	MW-2	6/25/2008	0.001 U	-	-	-
Vinyl chloride	MW-2	12/17/2009	0.001 U	-	-	-
Vinyl chloride	MW-2	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW-2	10/6/2011	0.001 U	-	-	-
Vinyl chloride	MW-2	10/16/2012	0.001 U	-	-	-
Vinyl chloride	MW-2	10/29/2013	0.001 U	-	-	-
Vinyl chloride	MW-2	10/29/2013	0.001 U	-	-	-
Vinyl chloride	MW-2	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW-2	10/19/2015	0.001 U	-	-	-
Vinyl chloride	MW-2	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW-2	10/17/2017	0.001 U	-	-	-
Vinyl chloride	MW-2	10/8/2018	0.001 U	-	-	-
Vinyl chloride	MW-2	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 3	2/1/2005	0.53	-	-	-
Vinyl chloride	MW 3	2/1/2005	0.56	-	-	-
Vinyl chloride	MW 3	10/18/2005	0.00027 J	-	-	-
Vinyl chloride	MW 3	1/31/2006	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	4/18/2006	0.83 U	-	-	detection frequency
Vinyl chloride	MW 3	4/18/2006	0.83 U	-	-	detection frequency
Vinyl chloride	MW 3	7/19/2006	0.63 U	-	-	detection frequency
Vinyl chloride	MW 3	7/19/2006	0.63 U	-	-	detection frequency
Vinyl chloride	MW 3	10/16/2006	0.069 J	-	-	-
Vinyl chloride	MW 3	1/24/2007	0.12 J	-	-	-
Vinyl chloride	MW 3	4/17/2007	0.16	-	-	-
Vinyl chloride	MW 3	4/17/2007	0.16	-	-	-
Vinyl chloride	MW 3	7/11/2007	1 U	-	-	detection frequency
Vinyl chloride	MW 3	10/16/2007	0.65	-	-	-
Vinyl chloride	MW 3	2/18/2008	2	-	-	-
Vinyl chloride	MW 3	6/30/2008	0.95 J	-	-	-
Vinyl chloride	MW 3	6/30/2008	1 J	-	-	-
Vinyl chloride	MW 3	12/4/2008	0.2 J	-	-	-
Vinyl chloride	MW 3	4/30/2009	0.39 J	-	-	-
Vinyl chloride	MW 3	12/15/2009	0.34	-	-	-
Vinyl chloride	MW 3	12/15/2009	0.4	-	-	-
Vinyl chloride	MW 3	10/28/2010	0.103	-	-	-
Vinyl chloride	MW 3	10/28/2010	0.0785	-	-	-
Vinyl chloride	MW 3	4/18/2011	0.35 J	-	-	-

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Vinyl chloride	MW 3	10/5/2011	0.12 J	-	-	-
Vinyl chloride	MW 3	5/16/2012	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/15/2012	0.29	-	-	-
Vinyl chloride	MW 3	4/9/2013	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	10/24/2013	0.077 J	-	-	-
Vinyl chloride	MW 3	10/24/2013	0.082 J	-	-	-
Vinyl chloride	MW 3	4/15/2014	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/23/2014	0.055 J	-	-	-
Vinyl chloride	MW 3	4/28/2015	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/14/2015	0.062 J	-	-	-
Vinyl chloride	MW 3	4/20/2016	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	10/25/2016	0.25 U	-	-	detection frequency
Vinyl chloride	MW 3	4/18/2017	0.25 U	-	-	detection frequency
Vinyl chloride	MW 3	10/12/2017	0.1 U	-	-	detection frequency
Vinyl chloride	MW 3	4/11/2018	0.5 U	-	-	-
Vinyl chloride	MW 3	10/3/2018	0.25 U	-	-	-
Vinyl chloride	MW 3	04/25/2019	0.2 U	-	-	-
Vinyl chloride	MW 3	11/03/2020	0.026	-	-	-
Vinyl chloride	MW-4	1/11/2005	0.99	-	-	-
Vinyl chloride	MW-4	10/19/2005	2.1	-	-	-
Vinyl chloride	MW-4	2/1/2006	1.7	-	-	-
Vinyl chloride	MW-4	4/18/2006	0.52	-	-	-
Vinyl chloride	MW-4	7/18/2006	0.9	-	-	-
Vinyl chloride	MW-4	10/17/2006	1.3	-	-	-
Vinyl chloride	MW-4	1/24/2007	0.64	-	-	-
Vinyl chloride	MW-4	4/16/2007	0.98	-	-	-
Vinyl chloride	MW-4	7/10/2007	1.1	-	-	-
Vinyl chloride	MW-4	7/10/2007	1.1	-	-	-
Vinyl chloride	MW-4	10/17/2007	0.84	-	-	-
Vinyl chloride	MW-4	10/17/2007	0.98	-	-	-
Vinyl chloride	MW-4	2/18/2008	1.6	-	-	-
Vinyl chloride	MW-4	6/25/2008	0.84	-	-	-
Vinyl chloride	MW-4	6/25/2008	1.2	-	-	-
Vinyl chloride	MW-4	12/3/2008	1.2	-	-	-
Vinyl chloride	MW-4	4/30/2009	0.84	-	-	-
Vinyl chloride	MW-4	4/30/2009	0.83	-	-	-
Vinyl chloride	MW-4	12/16/2009	1.2	-	-	-
Vinyl chloride	MW-4	12/16/2009	0.97	-	-	-
Vinyl chloride	MW-4	10/28/2010	0.655	-	-	-
Vinyl chloride	MW-4	4/20/2011	0.77	-	-	-
Vinyl chloride	MW-4	4/20/2011	0.73	-	-	-
Vinyl chloride	MW-4	10/6/2011	0.72	-	-	-
Vinyl chloride	MW-4	5/16/2012	0.71	-	-	-
Vinyl chloride	MW-4	10/16/2012	0.38 J	-	-	-
Vinyl chloride	MW-4	4/12/2013	0.44	-	-	-
Vinyl chloride	MW-4	10/29/2013	0.43	-	-	-
Vinyl chloride	MW-4	4/16/2014	0.57	-	-	-
Vinyl chloride	MW-4	4/16/2014	0.58	-	-	-
Vinyl chloride	MW-4	10/29/2014	0.41 J	-	-	-
Vinyl chloride	MW-4	4/27/2015	0.42 J	-	-	-
Vinyl chloride	MW-4	10/19/2015	0.47	-	-	-
Vinyl chloride	MW-4	4/22/2016	0.53	-	-	-
Vinyl chloride	MW-4	10/24/2016	0.63	-	-	-

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Vinyl chloride	MW-4	4/18/2017	0.84	-	-	-
Vinyl chloride	MW-4	10/17/2017	0.73	-	-	-
Vinyl chloride	MW-4	10/17/2017	0.66	-	-	-
Vinyl chloride	MW-4	4/12/2018	0.68	-	-	-
Vinyl chloride	MW-4	4/12/2018	0.65	-	-	-
Vinyl chloride	MW-4	10/8/2018	0.68	-	-	-
Vinyl chloride	MW-4	04/25/2019	0.5	-	-	-
Vinyl chloride	MW-4	11/03/2020	0.56	-	-	-
Vinyl chloride	MW-7	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW-7	10/18/2017	0.001 U / 0.001 U	-	-	-
Vinyl chloride	MW-7	10/9/2018	0.001 U	-	-	-
Vinyl chloride	MW-7	10/9/2018	0.001 U	-	-	-
Vinyl chloride	MW-7	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 8	2/2/2005	6.9	yes	-	-
Vinyl chloride	MW 8	10/17/2005	1.3	-	-	-
Vinyl chloride	MW 8	10/17/2005	1.3	-	-	-
Vinyl chloride	MW 8	2/1/2006	2.1	-	-	-
Vinyl chloride	MW 8	4/17/2006	1.7	-	-	-
Vinyl chloride	MW 8	7/18/2006	1.7	-	-	-
Vinyl chloride	MW 8	10/16/2006	1.4	-	-	-
Vinyl chloride	MW 8	1/23/2007	1.7	-	-	-
Vinyl chloride	MW 8	4/16/2007	2.1	-	-	-
Vinyl chloride	MW 8	7/10/2007	2.3	-	-	-
Vinyl chloride	MW 8	10/15/2007	2.4	-	-	-
Vinyl chloride	MW 8	6/27/2008	5.5	yes	-	-
Vinyl chloride	MW 8	12/15/2009	0.027	yes	-	-
Vinyl chloride	MW 8	10/27/2010	1.73	-	-	-
Vinyl chloride	MW 8	4/18/2011	2.4	-	-	-
Vinyl chloride	MW 8	10/5/2011	1.7	-	-	-
Vinyl chloride	MW 8	5/15/2012	1.6	-	-	-
Vinyl chloride	MW 8	5/15/2012	1.5	-	-	-
Vinyl chloride	MW 8	10/15/2012	1.4	-	-	-
Vinyl chloride	MW 8	4/9/2013	1.5	-	-	-
Vinyl chloride	MW 8	10/24/2013	1.4	-	-	-
Vinyl chloride	MW 8	4/15/2014	2.8	-	-	-
Vinyl chloride	MW 8	10/23/2014	1.7	-	-	-
Vinyl chloride	MW 8	4/28/2015	1.9	-	-	-
Vinyl chloride	MW 8	10/14/2015	1.5	-	-	-
Vinyl chloride	MW 8	4/20/2016	2.1	-	-	-
Vinyl chloride	MW 8	4/20/2016	2	-	-	-
Vinyl chloride	MW 8	10/21/2016	1.3	-	-	-
Vinyl chloride	MW 8	4/18/2017	1.6	-	-	-
Vinyl chloride	MW 8	10/12/2017	1.3	-	-	-
Vinyl chloride	MW 8	4/10/2018	0.62	-	-	-
Vinyl chloride	MW 8	10/2/2018	0.64	-	-	-
Vinyl chloride	MW 8	04/25/2019	0.87	-	-	-
Vinyl chloride	MW 8	11/03/2020	0.71	-	-	-
Vinyl chloride	MW 12	2/2/2005	0.01 U	-	-	-
Vinyl chloride	MW 12	10/19/2005	0.0014 U	-	-	-
Vinyl chloride	MW 12	10/19/2005	0.0014 U	-	-	-
Vinyl chloride	MW 12	1/31/2006	0.05 U	-	-	-
Vinyl chloride	MW 12	4/18/2006	0.031 U	-	-	-
Vinyl chloride	MW 12	7/18/2006	0.025 U	-	-	-

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Vinyl chloride	MW 12	7/18/2006	0.025 U	-	-	-
Vinyl chloride	MW 12	10/19/2006	0.042 U	-	-	-
Vinyl chloride	MW 12	1/22/2007	0.025 U	-	-	-
Vinyl chloride	MW 12	4/18/2007	0.017 U	-	-	-
Vinyl chloride	MW 12	7/11/2007	0.00072 J	-	-	-
Vinyl chloride	MW 12	10/19/2007	0.039 U	-	-	-
Vinyl chloride	MW 12	6/27/2008	0.031 U	-	-	-
Vinyl chloride	MW 12	12/5/2008	0.025 U	-	-	-
Vinyl chloride	MW 12	4/29/2009	0.025 U	-	-	-
Vinyl chloride	MW 12	12/9/2009	0.013 U	-	-	-
Vinyl chloride	MW 12	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 12	4/20/2011	0.011 U	-	-	-
Vinyl chloride	MW 12	10/5/2011	0.011 U	-	-	-
Vinyl chloride	MW 12	5/15/2012	0.0091 U	-	-	-
Vinyl chloride	MW 12	10/11/2012	0.0067 U	-	-	-
Vinyl chloride	MW 12	4/9/2013	0.01 U	-	-	-
Vinyl chloride	MW 12	10/23/2013	0.0077 U	-	-	-
Vinyl chloride	MW 12	4/11/2014	0.0057 U	-	-	-
Vinyl chloride	MW 12	10/24/2014	0.0057 U	-	-	-
Vinyl chloride	MW 12	10/24/2014	0.0050 U	-	-	-
Vinyl chloride	MW 12	4/27/2015	0.0057 U	-	-	-
Vinyl chloride	MW 12	10/9/2015	0.005 U	-	-	-
Vinyl chloride	MW 12	4/21/2016	0.005 U	-	-	-
Vinyl chloride	MW 12	10/25/2016	0.005 U	-	-	-
Vinyl chloride	MW 12	4/19/2017	0.0025 U	-	-	-
Vinyl chloride	MW 12	10/6/2017	0.0033 U	-	-	-
Vinyl chloride	MW 12	4/11/2018	0.0067 U	-	-	-
Vinyl chloride	MW 12	10/4/2018	0.005 U	-	-	-
Vinyl chloride	MW 12	04/25/2019	0.0033 U	-	-	-
Vinyl chloride	MW 12	11/03/2020	0.0005 J	-	-	-
Vinyl chloride	MW 14	2/2/2005	0.41	-	-	-
Vinyl chloride	MW 14	10/17/2005	0.4	-	-	-
Vinyl chloride	MW 14	2/1/2006	0.37 J	-	-	-
Vinyl chloride	MW 14	4/18/2006	0.22 J	-	-	-
Vinyl chloride	MW 14	7/19/2006	0.26	-	-	-
Vinyl chloride	MW 14	10/18/2006	0.24 J	-	-	-
Vinyl chloride	MW 14	1/24/2007	0.31	-	-	-
Vinyl chloride	MW 14	4/17/2007	0.39	-	-	-
Vinyl chloride	MW 14	7/9/2007	0.38	-	-	-
Vinyl chloride	MW 14	10/16/2007	0.51	-	-	-
Vinyl chloride	MW 14	6/30/2008	0.49 J	-	-	-
Vinyl chloride	MW 14	12/5/2008	0.29 J	-	-	-
Vinyl chloride	MW 14	4/29/2009	0.44	-	-	-
Vinyl chloride	MW 14	12/15/2009	0.0087 J	-	-	-
Vinyl chloride	MW 14	10/27/2010	0.228	-	-	-
Vinyl chloride	MW 14	4/18/2011	0.23	-	-	-
Vinyl chloride	MW 14	10/5/2011	0.19 J	-	-	-
Vinyl chloride	MW 14	5/15/2012	0.2	-	-	-
Vinyl chloride	MW 14	10/15/2012	0.2	-	-	-
Vinyl chloride	MW 14	4/9/2013	0.18	-	-	-
Vinyl chloride	MW 14	4/9/2013	0.19	-	-	-
Vinyl chloride	MW 14	10/25/2013	0.22 J	-	-	-
Vinyl chloride	MW 14	10/25/2013	0.25	-	-	-

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Vinyl chloride	MW 14	4/15/2014	0.25	-	-	-
Vinyl chloride	MW 14	4/15/2014	0.23	-	-	-
Vinyl chloride	MW 14	10/24/2014	0.14 J	-	-	-
Vinyl chloride	MW 14	4/29/2015	0.15 J	-	-	-
Vinyl chloride	MW 14	4/29/2015	0.15 J	-	-	-
Vinyl chloride	MW 14	10/12/2015	0.14 J	-	-	-
Vinyl chloride	MW 14	4/19/2016	0.14 J	-	-	-
Vinyl chloride	MW 14	10/25/2016	0.12 J	-	-	-
Vinyl chloride	MW 14	4/18/2017	0.13	-	-	-
Vinyl chloride	MW 14	4/18/2017	0.13	-	-	-
Vinyl chloride	MW 14	10/13/2017	0.15 J	-	-	-
Vinyl chloride	MW 14	10/13/2017	0.15 J	-	-	-
Vinyl chloride	MW 14	4/10/2018	0.11 J	-	-	-
Vinyl chloride	MW 14	10/3/2018	0.13 J	-	-	-
Vinyl chloride	MW 14	04/25/2019	0.1 J	-	-	-
Vinyl chloride	MW 14	11/03/2020	0.13	-	-	-
Vinyl chloride	MW 15	2/1/2005	1.2	-	-	-
Vinyl chloride	MW 15	10/18/2005	1.4	-	-	-
Vinyl chloride	MW 15	2/1/2006	1.1	-	-	-
Vinyl chloride	MW 15	4/18/2006	0.62	-	-	-
Vinyl chloride	MW 15	7/19/2006	1.2	-	-	-
Vinyl chloride	MW 15	10/17/2006	0.83	-	-	-
Vinyl chloride	MW 15	1/24/2007	1.7	-	-	-
Vinyl chloride	MW 15	4/17/2007	1.2	-	-	-
Vinyl chloride	MW 15	7/10/2007	1.4	-	-	-
Vinyl chloride	MW 15	7/10/2007	1.5	-	-	-
Vinyl chloride	MW 15	10/16/2007	1.3	-	-	-
Vinyl chloride	MW 15	2/14/2008	1.2 J	-	-	-
Vinyl chloride	MW 15	10/24/2013	0.56	-	-	-
Vinyl chloride	MW 15	10/23/2014	0.5 U	-	-	-
Vinyl chloride	MW 15	10/14/2015	0.094 J	-	-	-
Vinyl chloride	MW 15	10/21/2016	0.1 U	-	-	-
Vinyl chloride	MW 15	10/11/2017	0.052 J	-	-	-
Vinyl chloride	MW 15	10/2/2018	0.063 J	-	-	-
Vinyl chloride	MW 15	11/03/2020	0.041	-	-	-
Vinyl chloride	MW 16	1/17/2005	0.001 U	-	-	-
Vinyl chloride	MW 16	11/14/2013	0.001 U	-	-	-
Vinyl chloride	MW 16	4/10/2014	0.001 U	-	-	-
Vinyl chloride	MW 16	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 16	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 16	10/12/2017	0.03	-	-	-
Vinyl chloride	MW 16	10/3/2018	0.22	-	-	-
Vinyl chloride	MW 16	10/08/2019	0.63 U	-	-	-
Vinyl chloride	MW 16	11/03/2020	0.019	-	-	-
Vinyl chloride	MW 21	2/1/2005	0.001 U	-	-	-
Vinyl chloride	MW 21	10/17/2005	0.001 U	-	-	-
Vinyl chloride	MW 21	2/1/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	4/17/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	7/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	10/16/2006	0.001 U	-	-	-
Vinyl chloride	MW 21	1/23/2007	0.001 U	-	-	-
Vinyl chloride	MW 21	4/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 21	7/9/2007	0.001 U	-	-	-

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Vinyl chloride	MW 21	10/15/2007	0.001 U	-	-	-
Vinyl chloride	MW 21	10/14/2015	0.001 U	-	-	-
Vinyl chloride	MW 21	10/21/2016	0.001 U	-	-	-
Vinyl chloride	MW 21	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 21	10/3/2018	0.001 U	-	-	-
Vinyl chloride	MW 21	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 28	10/18/2005	0.1	-	-	-
Vinyl chloride	MW 28	10/19/2006	0.071	-	-	-
Vinyl chloride	MW 28	10/18/2007	0.093	-	-	-
Vinyl chloride	MW 28	6/24/2008	0.077	-	-	-
Vinyl chloride	MW 28	12/4/2008	0.057	-	-	-
Vinyl chloride	MW 28	4/29/2009	0.1	-	-	-
Vinyl chloride	MW 28	12/4/2009	0.17	-	-	-
Vinyl chloride	MW 28	10/26/2010	0.0822	-	-	-
Vinyl chloride	MW 28	4/19/2011	0.062	-	-	-
Vinyl chloride	MW 28	10/3/2011	0.078	-	-	-
Vinyl chloride	MW 28	5/14/2012	0.089	-	-	-
Vinyl chloride	MW 28	10/10/2012	0.093	-	-	-
Vinyl chloride	MW 28	4/10/2013	0.17	-	-	-
Vinyl chloride	MW 28	10/23/2013	0.14	-	-	-
Vinyl chloride	MW 28	4/15/2014	0.22	-	-	-
Vinyl chloride	MW 28	4/15/2014	0.21	-	-	-
Vinyl chloride	MW 28	10/27/2014	0.14	-	-	-
Vinyl chloride	MW 28	4/29/2015	0.13	-	-	-
Vinyl chloride	MW 28	10/12/2015	0.21	-	-	-
Vinyl chloride	MW 28	4/19/2016	0.15	-	-	-
Vinyl chloride	MW 28	10/22/2016	0.19	-	-	-
Vinyl chloride	MW 28	4/19/2017	0.18	-	-	-
Vinyl chloride	MW 28	10/9/2017	0.2	-	-	-
Vinyl chloride	MW 28	4/12/2018	0.17	-	-	-
Vinyl chloride	MW 28	10/4/2018	0.15	-	-	-
Vinyl chloride	MW 28	10/4/2018	0.16	-	-	-
Vinyl chloride	MW 28	04/25/2019	0.13	-	-	-
Vinyl chloride	MW 28	11/03/2020	0.18	-	-	-
Vinyl chloride	MW 31R	10/18/2005	13	-	-	-
Vinyl chloride	MW 31R	1/31/2006	6	-	-	-
Vinyl chloride	MW 31R	4/19/2006	2.8	-	-	-
Vinyl chloride	MW 31R	7/19/2006	9.8	-	-	-
Vinyl chloride	MW 31R	10/17/2006	7.6	-	-	-
Vinyl chloride	MW 31R	10/17/2006	7.2	-	-	-
Vinyl chloride	MW 31R	1/23/2007	5.9	-	-	-
Vinyl chloride	MW 31R	1/23/2007	6.2	-	-	-
Vinyl chloride	MW 31R	4/17/2007	2.4	-	-	-
Vinyl chloride	MW 31R	7/11/2007	6.6	-	-	-
Vinyl chloride	MW 31R	10/17/2007	6.2	-	-	-
Vinyl chloride	MW 31R	2/14/2008	5	-	-	-
Vinyl chloride	MW 31R	2/14/2008	5.3	-	-	-
Vinyl chloride	MW 31R	12/4/2008	3.2	-	-	-
Vinyl chloride	MW 31R	4/29/2009	1.5	-	-	-
Vinyl chloride	MW 31R	12/15/2009	0.7	-	-	-
Vinyl chloride	MW 31R	10/28/2010	1.57	-	-	-
Vinyl chloride	MW 31R	4/18/2011	0.64	-	-	-
Vinyl chloride	MW 31R	10/4/2011	1.2	-	-	-

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Vinyl chloride	MW 31R	5/15/2012	2.3	-	-	-
Vinyl chloride	MW 31R	10/15/2012	1.3	-	-	-
Vinyl chloride	MW 31R	4/9/2013	1.3	-	-	-
Vinyl chloride	MW 31R	10/24/2013	1.6	-	-	-
Vinyl chloride	MW 31R	4/15/2014	1.1	-	-	-
Vinyl chloride	MW 31R	10/27/2014	1	-	-	-
Vinyl chloride	MW 31R	4/28/2015	0.63	-	-	-
Vinyl chloride	MW 31R	10/14/2015	1.7	-	-	-
Vinyl chloride	MW 31R	4/20/2016	1.5	-	-	-
Vinyl chloride	MW 31R	10/21/2016	3.4	-	-	-
Vinyl chloride	MW 31R	10/21/2016	3.4	-	-	-
Vinyl chloride	MW 31R	4/19/2017	2	-	-	-
Vinyl chloride	MW 31R	10/12/2017	9	-	-	-
Vinyl chloride	MW 31R	4/10/2018	1.1	-	-	-
Vinyl chloride	MW 31R	10/2/2018	2.4	-	-	-
Vinyl chloride	MW 31R	10/2/2018	2.1	-	-	-
Vinyl chloride	MW 31R	04/25/2019	5.7	-	-	-
Vinyl chloride	MW 31R	11/03/2020	3.5	-	-	-
Vinyl chloride	MW 37	1/18/2005	0.001 U	-	-	-
Vinyl chloride	MW 37	1/18/2005	0.001 U	-	-	-
Vinyl chloride	MW 37	10/17/2007	0.001 U	-	-	-
Vinyl chloride	MW 37	6/26/2008	0.001 U	-	-	-
Vinyl chloride	MW 37	12/16/2009	0.001 U	-	-	-
Vinyl chloride	MW 37	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 37	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 37	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 37	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 37	10/25/2013	0.001 U	-	-	-
Vinyl chloride	MW 37	10/22/2014	0.001 U	-	-	-
Vinyl chloride	MW 37	10/9/2015	0.001 U	-	-	-
Vinyl chloride	MW 37	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 37	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 37	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 37	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 40	1/12/2005	0.49	-	-	-
Vinyl chloride	MW 40	10/18/2005	1.4	-	-	-
Vinyl chloride	MW 40	1/30/2006	0.76	-	-	-
Vinyl chloride	MW 40	4/17/2006	0.43 J	-	-	-
Vinyl chloride	MW 40	7/19/2006	1	-	-	-
Vinyl chloride	MW 40	10/18/2006	0.84	-	-	-
Vinyl chloride	MW 40	1/23/2007	1.1	-	-	-
Vinyl chloride	MW 40	4/18/2007	0.89	-	-	-
Vinyl chloride	MW 40	7/10/2007	0.97	-	-	-
Vinyl chloride	MW 40	10/18/2007	1.3	-	-	-
Vinyl chloride	MW 40	2/15/2008	2.1	-	-	-
Vinyl chloride	MW 40	6/26/2008	1.2	-	-	-
Vinyl chloride	MW 40	12/3/2008	1.5	-	-	-
Vinyl chloride	MW 40	12/3/2008	1.7	-	-	-
Vinyl chloride	MW 40	4/30/2009	2.1	-	-	-
Vinyl chloride	MW 40	12/9/2009	2.1	-	-	-
Vinyl chloride	MW 40	10/26/2010	1.18	-	-	-
Vinyl chloride	MW 40	4/19/2011	0.99	-	-	-
Vinyl chloride	MW 40	10/4/2011	0.99	-	-	-

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Vinyl chloride	MW 40	5/14/2012	0.94	-	-	-
Vinyl chloride	MW 40	10/10/2012	0.65	-	-	-
Vinyl chloride	MW 40	4/9/2013	0.99	-	-	-
Vinyl chloride	MW 40	10/24/2013	1.2	-	-	-
Vinyl chloride	MW 40	4/14/2014	1.1	-	-	-
Vinyl chloride	MW 40	10/27/2014	0.5	-	-	-
Vinyl chloride	MW 40	4/28/2015	0.43	-	-	-
Vinyl chloride	MW 40	10/13/2015	0.44	-	-	-
Vinyl chloride	MW 40	4/19/2016	0.36	-	-	-
Vinyl chloride	MW 40	10/20/2016	0.31	-	-	-
Vinyl chloride	MW 40	4/19/2017	0.26	-	-	-
Vinyl chloride	MW 40	10/10/2017	0.17	-	-	-
Vinyl chloride	MW 40	10/10/2017	0.18	-	-	-
Vinyl chloride	MW 40	4/13/2018	0.18 J	-	-	-
Vinyl chloride	MW 40	10/3/2018	0.22	-	-	-
Vinyl chloride	MW 40	04/25/2019	0.24	-	-	-
Vinyl chloride	MW 40	11/03/2020	0.22	-	-	-
Vinyl chloride	MW 41	10/17/2005	0.14 J	-	-	-
Vinyl chloride	MW 41	1/30/2006	0.28 J	-	-	-
Vinyl chloride	MW 41	4/17/2006	0.14 J	-	-	-
Vinyl chloride	MW 41	4/17/2006	0.13 J	-	-	-
Vinyl chloride	MW 41	7/18/2006	0.26 J	-	-	-
Vinyl chloride	MW 41	10/18/2006	0.19 J	-	-	-
Vinyl chloride	MW 41	1/23/2007	0.23 J	-	-	-
Vinyl chloride	MW 41	4/18/2007	0.29	-	-	-
Vinyl chloride	MW 41	4/18/2007	0.27	-	-	-
Vinyl chloride	MW 41	7/10/2007	0.33 J	-	-	-
Vinyl chloride	MW 41	10/18/2007	0.4 J	-	-	-
Vinyl chloride	MW 41	2/15/2008	0.38 J	-	-	-
Vinyl chloride	MW 41	6/24/2008	0.22 J	-	-	-
Vinyl chloride	MW 41	12/3/2008	0.36 J	-	-	-
Vinyl chloride	MW 41	4/28/2009	0.4 J	-	-	-
Vinyl chloride	MW 41	12/3/2009	0.39	-	-	-
Vinyl chloride	MW 41	10/25/2010	0.256	-	-	-
Vinyl chloride	MW 41	4/19/2011	0.3	-	-	-
Vinyl chloride	MW 41	10/4/2011	0.51	-	-	-
Vinyl chloride	MW 41	5/14/2012	0.61	-	-	-
Vinyl chloride	MW 41	10/10/2012	0.66	-	-	-
Vinyl chloride	MW 41	4/9/2013	0.61	-	-	-
Vinyl chloride	MW 41	10/25/2013	0.55	-	-	-
Vinyl chloride	MW 41	4/14/2014	0.73	-	-	-
Vinyl chloride	MW 41	10/23/2014	0.54 J	-	-	-
Vinyl chloride	MW 41	4/29/2015	0.46	-	-	-
Vinyl chloride	MW 41	10/12/2015	0.39	-	-	-
Vinyl chloride	MW 41	10/12/2015	0.39	-	-	-
Vinyl chloride	MW 41	4/19/2016	0.45	-	-	-
Vinyl chloride	MW 41	10/23/2016	0.35	-	-	-
Vinyl chloride	MW 41	4/19/2017	0.44	-	-	-
Vinyl chloride	MW 41	10/9/2017	0.38	-	-	-
Vinyl chloride	MW 41	4/13/2018	0.3 J	-	-	-
Vinyl chloride	MW 41	10/4/2018	0.21 J	-	-	-
Vinyl chloride	MW 41	04/25/2019	0.35	-	-	-
Vinyl chloride	MW 41	04/25/2019	0.34	-	-	-

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Vinyl chloride	MW 41	11/03/2020	0.24	-	-	-
Vinyl chloride	MW 42	10/18/2005	0.25 J	-	-	-
Vinyl chloride	MW 42	1/30/2006	0.15 J	-	-	-
Vinyl chloride	MW 42	1/30/2006	0.18 J	-	-	-
Vinyl chloride	MW 42	4/17/2006	0.089 J	-	-	-
Vinyl chloride	MW 42	7/18/2006	0.13 J	-	-	-
Vinyl chloride	MW 42	10/18/2006	0.084 J	-	-	-
Vinyl chloride	MW 42	1/23/2007	0.5 U	-	-	-
Vinyl chloride	MW 42	1/23/2007	0.5 U	-	-	-
Vinyl chloride	MW 42	4/18/2007	0.12	-	-	-
Vinyl chloride	MW 42	7/10/2007	0.13 J	-	-	-
Vinyl chloride	MW 42	10/18/2007	0.11 J	-	-	-
Vinyl chloride	MW 42	2/15/2008	0.13 J	-	-	-
Vinyl chloride	MW 42	6/24/2008	0.13 J	-	-	-
Vinyl chloride	MW 42	12/3/2008	0.18 J	-	-	-
Vinyl chloride	MW 42	4/28/2009	0.21 J	-	-	-
Vinyl chloride	MW 42	12/3/2009	0.2 J	-	-	-
Vinyl chloride	MW 42	10/25/2010	0.128	-	-	-
Vinyl chloride	MW 42	4/19/2011	0.17	-	-	-
Vinyl chloride	MW 42	10/4/2011	0.13 J	-	-	-
Vinyl chloride	MW 42	5/14/2012	0.11 J	-	-	-
Vinyl chloride	MW 42	10/10/2012	0.1 J	-	-	-
Vinyl chloride	MW 42	4/9/2013	0.14 J	-	-	-
Vinyl chloride	MW 42	10/25/2013	0.12 J	-	-	-
Vinyl chloride	MW 42	4/14/2014	0.18	-	-	-
Vinyl chloride	MW 42	10/23/2014	0.12 J	-	-	-
Vinyl chloride	MW 42	4/29/2015	0.13 J	-	-	-
Vinyl chloride	MW 42	10/12/2015	0.14 J	-	-	-
Vinyl chloride	MW 42	4/19/2016	0.092 J	-	-	-
Vinyl chloride	MW 42	10/23/2016	0.1 J	-	-	-
Vinyl chloride	MW 42	4/19/2017	0.22	-	-	-
Vinyl chloride	MW 42	10/9/2017	0.26	-	-	-
Vinyl chloride	MW 42	4/13/2018	0.11 J	-	-	-
Vinyl chloride	MW 42	10/4/2018	0.2 U	-	-	-
Vinyl chloride	MW 42	04/25/2019	0.087 J	-	-	-
Vinyl chloride	MW 42	11/03/2020	0.22	-	-	-
Vinyl chloride	MW 46	1/12/2005	0.001 U	-	-	-
Vinyl chloride	MW 46	10/19/2007	0.001 U	-	-	-
Vinyl chloride	MW 46	10/19/2007	0.001 U	-	-	-
Vinyl chloride	MW 46	6/27/2008	0.001 U	-	-	-
Vinyl chloride	MW 46	12/16/2009	0.001 U	-	-	-
Vinyl chloride	MW 46	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 46	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 46	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 46	10/25/2013	0.001 U	-	-	-
Vinyl chloride	MW 46	10/22/2014	0.001 U	-	-	-
Vinyl chloride	MW 46	10/9/2015	0.001 U	-	-	-
Vinyl chloride	MW 46	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 46	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 46	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 46	10/08/2019	0.001 U	-	-	-
Vinyl chloride	MW 46	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 49	1/12/2005	0.013	-	-	-

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Vinyl chloride	MW 49	10/19/2007	0.085	-	-	-
Vinyl chloride	MW 49	2/15/2008	0.057	-	-	-
Vinyl chloride	MW 49	6/30/2008	0.066	-	-	-
Vinyl chloride	MW 49	12/5/2008	0.069	-	-	-
Vinyl chloride	MW 49	4/29/2009	0.045	-	-	-
Vinyl chloride	MW 49	12/4/2009	0.07	-	-	-
Vinyl chloride	MW 49	10/27/2010	0.0465	-	-	-
Vinyl chloride	MW 49	4/19/2011	0.022	-	-	-
Vinyl chloride	MW 49	10/5/2011	0.025	-	-	-
Vinyl chloride	MW 49	5/15/2012	0.025	-	-	-
Vinyl chloride	MW 49	10/17/2012	0.03 J	-	-	-
Vinyl chloride	MW 49	4/10/2013	0.027 J	-	-	-
Vinyl chloride	MW 49	10/25/2013	0.033	-	-	-
Vinyl chloride	MW 49	4/14/2014	0.013	-	-	-
Vinyl chloride	MW 49	10/27/2014	0.013 J	-	-	-
Vinyl chloride	MW 49	4/28/2015	0.033 U	-	high DL	-
Vinyl chloride	MW 49	10/13/2015	0.012 J	-	-	-
Vinyl chloride	MW 49	4/21/2016	0.011 J	-	-	-
Vinyl chloride	MW 49	4/11/2018	0.05 U	-	high DL	-
Vinyl chloride	MW 49	10/3/2018	0.04 U	-	high DL	-
Vinyl chloride	MW 49	04/25/2019	0.033 U	-	high DL	-
Vinyl chloride	MW 49	10/08/2019	0.05 U	-	high DL	-
Vinyl chloride	MW 49	10/08/2019	0.05 U	-	high DL	-
Vinyl chloride	MW 49	11/03/2020	0.033	-	-	-
Vinyl chloride	MW 51	12/5/2008	0.017 U	-	-	detection frequency
Vinyl chloride	MW 51	12/5/2008	0.017 U	-	-	detection frequency
Vinyl chloride	MW 51	4/29/2009	0.011 U	-	-	detection frequency
Vinyl chloride	MW 51	12/14/2009	0.0083 U	-	-	detection frequency
Vinyl chloride	MW 51	10/27/2010	0.001 U	-	-	detection frequency
Vinyl chloride	MW 51	4/20/2011	0.0067 U	-	-	detection frequency
Vinyl chloride	MW 51	10/5/2011	0.0091 U	-	-	detection frequency
Vinyl chloride	MW 51	5/14/2012	0.0057 U	-	-	detection frequency
Vinyl chloride	MW 51	10/12/2012	0.0067 U	-	-	detection frequency
Vinyl chloride	MW 51	4/9/2013	0.003 J	-	-	-
Vinyl chloride	MW 51	10/23/2013	0.0029 J	-	-	-
Vinyl chloride	MW 51	4/16/2014	0.005 U	-	-	detection frequency
Vinyl chloride	MW 51	10/21/2014	0.0041 J	-	-	-
Vinyl chloride	MW 51	4/28/2015	0.0024 J	-	-	-
Vinyl chloride	MW 51	4/28/2015	0.0026 J	-	-	-
Vinyl chloride	MW 51	10/9/2015	0.0079	-	-	-
Vinyl chloride	MW 51	4/20/2016	0.0035 J	-	-	-
Vinyl chloride	MW 51	10/23/2016	0.0053 J	-	-	-
Vinyl chloride	MW 51	4/18/2017	0.0041	-	-	-
Vinyl chloride	MW 51	10/16/2017	0.0073	-	-	-
Vinyl chloride	MW 51	4/10/2018	0.0038	-	-	-
Vinyl chloride	MW 51	4/10/2018	0.0046	-	-	-
Vinyl chloride	MW 51	10/4/2018	0.0035 J	-	-	-
Vinyl chloride	MW 51	04/25/2019	0.0053 J	-	-	-
Vinyl chloride	MW 51	04/25/2019	0.0066	-	-	-
Vinyl chloride	MW 56	1/11/2005	0.001 U	-	-	-
Vinyl chloride	MW 56	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2007	0.001 U	-	-	-

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Vinyl chloride	MW 56	6/26/2008	0.001 U	-	-	-
Vinyl chloride	MW 56	12/17/2009	0.001 U	-	-	-
Vinyl chloride	MW 56	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 56	10/6/2011	0.001 U	-	-	-
Vinyl chloride	MW 56	10/16/2012	0.001 U	-	-	-
Vinyl chloride	MW 56	10/29/2013	0.001 U	-	-	-
Vinyl chloride	MW 56	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW 56	10/29/2014	0.001 U	-	-	-
Vinyl chloride	MW 56	10/19/2015	0.001 U	-	-	-
Vinyl chloride	MW 56	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 56	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 56	11/03/2020	0.00066J	-	-	-
Vinyl chloride	MW 57	1/10/2005	0.001 U	-	-	-
Vinyl chloride	MW 57	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 57	2/1/2006	0.001 U	-	-	-
Vinyl chloride	MW 57	4/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 57	7/18/2006	0.001 U	-	-	-
Vinyl chloride	MW 57	10/17/2006	0.00083 J	-	-	-
Vinyl chloride	MW 57	1/24/2007	0.001 U	-	-	-
Vinyl chloride	MW 57	4/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 57	7/10/2007	0.00018 J	-	-	-
Vinyl chloride	MW 57	10/17/2007	0.001 U	-	-	-
Vinyl chloride	MW 57	6/25/2008	0.001 U	-	-	-
Vinyl chloride	MW 57	12/16/2009	0.0016	-	-	-
Vinyl chloride	MW 57	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 57	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 57	10/6/2011	0.001 U	-	-	-
Vinyl chloride	MW 57	10/16/2012	0.0042	-	-	-
Vinyl chloride	MW 57	10/29/2013	0.0062	-	-	-
Vinyl chloride	MW 57	10/29/2014	0.013	-	-	-
Vinyl chloride	MW 57	10/19/2015	0.0037	-	-	-
Vinyl chloride	MW 57	10/24/2016	0.046	-	-	-
Vinyl chloride	MW 57	10/18/2017	0.096	-	-	-
Vinyl chloride	MW 57	10/8/2018	0.02	-	-	-
Vinyl chloride	MW 57	11/03/2020	0.98	-	-	-
Vinyl chloride	MW 58	1/10/2005	0.001 U	-	-	-
Vinyl chloride	MW 58	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 58	10/17/2006	0.0013	-	-	-
Vinyl chloride	MW 58	10/17/2007	0.011	-	-	-
Vinyl chloride	MW 58	2/18/2008	0.016	-	-	-
Vinyl chloride	MW 58	6/25/2008	0.026	-	-	-
Vinyl chloride	MW 58	12/17/2009	0.11	-	-	-
Vinyl chloride	MW 58	10/28/2010	0.158	-	-	-
Vinyl chloride	MW 58	10/6/2011	0.12	-	-	-
Vinyl chloride	MW 58	10/16/2012	0.14	-	-	-
Vinyl chloride	MW 58	10/16/2012	0.15	-	-	-
Vinyl chloride	MW 58	10/29/2013	0.11	-	-	-
Vinyl chloride	MW 58	10/29/2014	0.098	-	-	-
Vinyl chloride	MW 58	10/20/2015	0.16	-	-	-
Vinyl chloride	MW 58	10/20/2015	0.15	-	-	-
Vinyl chloride	MW 58	10/25/2016	0.085	-	-	-
Vinyl chloride	MW 58	10/17/2017	0.059	-	-	-

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Vinyl chloride	MW 58	10/8/2018	0.064 J	-	-	-
Vinyl chloride	MW 58	11/03/2020	0.13 J	-	-	-
Vinyl chloride	MW 58	11/03/2020	0.12 J	-	-	-
Vinyl chloride	MW 61	1/11/2005	0.001 U	-	-	-
Vinyl chloride	MW 61	6/24/2008	0.001 U	-	-	-
Vinyl chloride	MW 61	12/3/2009	0.001 U	-	-	-
Vinyl chloride	MW 61	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 61	10/26/2010	0.002 U	-	-	-
Vinyl chloride	MW 61	10/3/2011	0.00029 J	-	-	-
Vinyl chloride	MW 61	10/10/2012	0.001 U	-	-	-
Vinyl chloride	MW 61	10/23/2013	0.001 U	-	-	-
Vinyl chloride	MW 61	10/21/2014	0.00042 J	-	-	-
Vinyl chloride	MW 61	10/9/2015	0.00068 J	-	-	-
Vinyl chloride	MW 61	10/22/2016	0.00069 J	-	-	-
Vinyl chloride	MW 61	10/9/2017	0.001 U	-	-	-
Vinyl chloride	MW 61	10/4/2018	0.0013	-	-	-
Vinyl chloride	MW 61	11/03/2020	0.00077 J	-	-	-
Vinyl chloride	MW 61	11/03/2020	0.0011	-	-	-
Vinyl chloride	MW 64	1/11/2005	0.001 U	-	-	-
Vinyl chloride	MW 64	10/19/2005	0.0015	-	-	-
Vinyl chloride	MW 64	10/18/2006	0.0013	-	-	-
Vinyl chloride	MW 64	10/19/2007	0.009	-	-	-
Vinyl chloride	MW 64	2/18/2008	0.0054	-	-	-
Vinyl chloride	MW 64	2/18/2008	0.005	-	-	-
Vinyl chloride	MW 64	6/26/2008	0.0011	-	-	-
Vinyl chloride	MW 64	12/8/2009	0.01	-	-	-
Vinyl chloride	MW 64	12/8/2009	0.013	-	-	-
Vinyl chloride	MW 64	10/25/2010	0.016	-	-	-
Vinyl chloride	MW 64	10/3/2011	0.032	-	-	-
Vinyl chloride	MW 64	10/11/2012	0.027	-	-	-
Vinyl chloride	MW 64	10/11/2012	0.027	-	-	-
Vinyl chloride	MW 64	10/22/2013	0.045	-	-	-
Vinyl chloride	MW 64	10/28/2014	0.033	-	-	-
Vinyl chloride	MW 64	10/13/2015	0.03	-	-	-
Vinyl chloride	MW 64	10/20/2016	0.039	-	-	-
Vinyl chloride	MW 64	10/10/2017	0.049	-	-	-
Vinyl chloride	MW 64	10/3/2018	0.083	-	-	-
Vinyl chloride	MW 64	10/3/2018	0.089	-	-	-
Vinyl chloride	MW 64	11/03/2020	0.042	-	-	-
Vinyl chloride	MW 64	11/03/2020	0.042	-	-	-
Vinyl chloride	MW 65	1/10/2005	0.54	-	-	-
Vinyl chloride	MW 65	10/18/2007	0.68	-	-	-
Vinyl chloride	MW 65	2/15/2008	0.77	-	-	-
Vinyl chloride	MW 65	6/27/2008	1.2 J	-	-	-
Vinyl chloride	MW 65	12/4/2008	0.54	-	-	-
Vinyl chloride	MW 65	4/28/2009	0.69	-	-	-
Vinyl chloride	MW 65	12/4/2009	0.67	-	-	-
Vinyl chloride	MW 65	10/25/2010	0.05 U	-	-	detection frequency
Vinyl chloride	MW 65	10/3/2011	0.04 U	-	-	detection frequency
Vinyl chloride	MW 65	10/11/2012	0.014 U	-	-	detection frequency
Vinyl chloride	MW 65	10/22/2013	0.0025 J	-	-	-
Vinyl chloride	MW 65	10/22/2014	0.00093 J	-	-	-
Vinyl chloride	MW 65	10/22/2014	0.0016 J	-	-	-

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Vinyl chloride	MW 65	10/8/2015	0.0012 J	-	-	-
Vinyl chloride	MW 65	10/19/2016	0.0014	-	-	-
Vinyl chloride	MW 65	10/6/2017	0.00074 J	-	-	-
Vinyl chloride	MW 65	10/4/2018	0.00074 J	-	-	-
Vinyl chloride	MW 65	11/03/2020	0.00049 J	-	-	-
Vinyl chloride	MW 66	1/11/2005	0.003	-	-	-
Vinyl chloride	MW 66	1/11/2005	0.0031	-	-	-
Vinyl chloride	MW 66	10/18/2005	0.0067	-	-	-
Vinyl chloride	MW 66	10/18/2006	0.014	-	-	-
Vinyl chloride	MW 66	10/19/2007	0.015	-	-	-
Vinyl chloride	MW 66	10/19/2007	0.015	-	-	-
Vinyl chloride	MW 66	2/18/2008	0.02	-	-	-
Vinyl chloride	MW 66	6/26/2008	0.02	-	-	-
Vinyl chloride	MW 66	12/4/2008	0.0071	-	-	-
Vinyl chloride	MW 66	4/28/2009	0.027	-	-	-
Vinyl chloride	MW 66	4/28/2009	0.027	-	-	-
Vinyl chloride	MW 66	12/8/2009	0.023	-	-	-
Vinyl chloride	MW 66	10/25/2010	0.027	-	-	-
Vinyl chloride	MW 66	4/19/2011	0.046	-	-	-
Vinyl chloride	MW 66	4/19/2011	0.045	-	-	-
Vinyl chloride	MW 66	10/3/2011	0.14	-	-	-
Vinyl chloride	MW 66	5/14/2012	0.25	-	-	-
Vinyl chloride	MW 66	10/11/2012	0.25	-	-	-
Vinyl chloride	MW 66	4/10/2013	0.3	-	-	-
Vinyl chloride	MW 66	10/22/2013	0.16	-	-	-
Vinyl chloride	MW 66	4/11/2014	0.33	-	-	-
Vinyl chloride	MW 66	10/27/2014	0.15	-	-	-
Vinyl chloride	MW 66	4/27/2015	0.11	-	-	-
Vinyl chloride	MW 66	10/13/2015	0.13	-	-	-
Vinyl chloride	MW 66	4/20/2016	0.14	-	-	-
Vinyl chloride	MW 66	10/20/2016	0.14	-	-	-
Vinyl chloride	MW 66	4/19/2017	0.11	-	-	-
Vinyl chloride	MW 66	10/10/2017	0.075	-	-	-
Vinyl chloride	MW 66	4/11/2018	0.2 U	-	-	-
Vinyl chloride	MW 66	10/3/2018	0.2 U	-	-	-
Vinyl chloride	MW 66	04/25/2019	0.036 J	-	-	-
Vinyl chloride	MW 66	11/03/2020	0.018	-	-	-
Vinyl chloride	MW 68	1/18/2005	0.16	-	-	-
Vinyl chloride	MW 68	10/19/2005	0.35 J	-	-	-
Vinyl chloride	MW 68	10/19/2005	0.36 J	-	-	-
Vinyl chloride	MW 68	1/31/2006	0.23 J	-	-	-
Vinyl chloride	MW 68	4/18/2006	0.19 J	-	-	-
Vinyl chloride	MW 68	7/19/2006	0.16 J	-	-	-
Vinyl chloride	MW 68	10/19/2006	0.14 J	-	-	-
Vinyl chloride	MW 68	1/23/2007	0.14 J	-	-	-
Vinyl chloride	MW 68	4/18/2007	0.26	-	-	-
Vinyl chloride	MW 68	7/9/2007	0.33 J	-	-	-
Vinyl chloride	MW 68	10/16/2007	0.43 J	-	-	-
Vinyl chloride	MW 68	2/19/2008	0.26	-	-	-
Vinyl chloride	MW 68	6/27/2008	0.34 J	-	-	-
Vinyl chloride	MW 68	12/5/2008	0.24 J	-	-	-
Vinyl chloride	MW 68	4/29/2009	0.33 J	-	-	-
Vinyl chloride	MW 68	12/16/2009	0.22 J	-	-	-

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Vinyl chloride	MW 68	12/16/2009	0.23 J	-	-	-
Vinyl chloride	MW 68	10/26/2010	0.181	-	-	-
Vinyl chloride	MW 68	4/18/2011	0.097 J	-	-	-
Vinyl chloride	MW 68	10/4/2011	0.16 J	-	-	-
Vinyl chloride	MW 68	10/4/2011	0.16 J	-	-	-
Vinyl chloride	MW 68	5/14/2012	0.25	-	-	-
Vinyl chloride	MW 68	10/12/2012	0.24	-	-	-
Vinyl chloride	MW 68	4/10/2013	0.21 J	-	-	-
Vinyl chloride	MW 68	4/10/2013	0.19 J	-	-	-
Vinyl chloride	MW 68	10/23/2013	0.24 J	-	-	-
Vinyl chloride	MW 68	11/14/2013	0.3	-	-	-
Vinyl chloride	MW 68	11/14/2013	0.3	-	-	-
Vinyl chloride	MW 68	4/10/2014	0.24	-	-	-
Vinyl chloride	MW 68	10/23/2014	0.15 J	-	-	-
Vinyl chloride	MW 68	4/28/2015	0.18 J	-	-	-
Vinyl chloride	MW 68	4/28/2015	0.17 J	-	-	-
Vinyl chloride	MW 68	10/13/2015	0.16 J	-	-	-
Vinyl chloride	MW 68	10/13/2015	0.12 J	-	-	-
Vinyl chloride	MW 68	4/19/2016	0.15 J	-	-	-
Vinyl chloride	MW 68	10/20/2016	0.15 J	-	-	-
Vinyl chloride	MW 68	4/17/2017	0.13	-	-	-
Vinyl chloride	MW 68	10/11/2017	0.16	-	-	-
Vinyl chloride	MW 68	4/11/2018	0.099 J	-	-	-
Vinyl chloride	MW 68	10/2/2018	0.11 J	-	-	-
Vinyl chloride	MW 68	04/25/2019	0.16 J	-	-	-
Vinyl chloride	MW 68	11/03/2020	0.22	-	-	-
Vinyl chloride	MW 68	11/03/2020	0.23	-	-	-
Vinyl chloride	MW 75	1/14/2005	0.001 U	-	-	-
Vinyl chloride	MW 75	10/19/2005	0.001 U	-	-	-
Vinyl chloride	MW 75	10/19/2006	0.001 U	-	-	-
Vinyl chloride	MW 75	10/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 75	6/30/2008	0.001 U	-	-	-
Vinyl chloride	MW 75	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 75	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 75	10/12/2012	0.001 U	-	-	-
Vinyl chloride	MW 75	10/23/2013	0.001 U	-	-	-
Vinyl chloride	MW 75	10/21/2014	0.001 U	-	-	-
Vinyl chloride	MW 75	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 75	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 75	10/2/2018	0.001 U	-	-	-
Vinyl chloride	MW 75	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	1/14/2005	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/20/2005	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/19/2006	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/5/2011	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/12/2012	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/23/2013	0.00046 J	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/23/2013	0.00048 J	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/21/2014	0.00051 J	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/18/2017	0.001 U	-	-	-

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Vinyl chloride	MW 76/MW 76R-17	10/2/2018	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	11/03/2020	0.0016	-	-	-
Vinyl chloride	MW 79	1/13/2005	0.24	-	-	-
Vinyl chloride	MW 79	10/15/2007	0.33	-	-	-
Vinyl chloride	MW 79	12/5/2008	0.2	-	-	-
Vinyl chloride	MW 79	4/29/2009	0.22	-	-	-
Vinyl chloride	MW 79	12/14/2009	0.27	-	-	-
Vinyl chloride	MW 79	10/27/2010	0.185	-	-	-
Vinyl chloride	MW 79	4/20/2011	0.13	-	-	-
Vinyl chloride	MW 79	10/4/2011	0.14	-	-	-
Vinyl chloride	MW 79	5/15/2012	0.12	-	-	-
Vinyl chloride	MW 79	10/15/2012	0.15	-	-	-
Vinyl chloride	MW 79	10/15/2012	0.14	-	-	-
Vinyl chloride	MW 79	4/9/2013	0.15	-	-	-
Vinyl chloride	MW 79	10/28/2013	0.16	-	-	-
Vinyl chloride	MW 79	4/15/2014	0.22	-	-	-
Vinyl chloride	MW 79	10/28/2014	0.15	-	-	-
Vinyl chloride	MW 79	10/28/2014	0.15	-	-	-
Vinyl chloride	MW 79	4/29/2015	0.15	-	-	-
Vinyl chloride	MW 79	10/13/2015	0.13	-	-	-
Vinyl chloride	MW 79	4/19/2016	0.18	-	-	-
Vinyl chloride	MW 79	10/21/2016	0.15	-	-	-
Vinyl chloride	MW 79	4/17/2017	0.19	-	-	-
Vinyl chloride	MW 79	4/17/2017	0.19	-	-	-
Vinyl chloride	MW 79	10/11/2017	0.2	-	-	-
Vinyl chloride	MW 79	4/10/2018	0.31	-	-	-
Vinyl chloride	MW 79	10/2/2018	0.31	-	-	-
Vinyl chloride	MW 79	04/25/2019	0.6	yes	-	-
Vinyl chloride	MW 79	11/03/2020	0.44	-	-	-
Vinyl chloride	MW 80	3/9/2005	0.11	-	-	-
Vinyl chloride	MW 80	3/9/2005	0.12	-	-	-
Vinyl chloride	MW 80	10/18/2005	0.15	-	-	-
Vinyl chloride	MW 80	10/18/2006	0.033	-	-	-
Vinyl chloride	MW 80	10/17/2007	0.042	-	-	-
Vinyl chloride	MW 80	6/27/2008	0.068 J	-	-	-
Vinyl chloride	MW 80	6/27/2008	0.093 J	-	-	-
Vinyl chloride	MW 80	12/8/2009	0.069	-	-	-
Vinyl chloride	MW 80	10/25/2010	0.0134	-	-	-
Vinyl chloride	MW 80	10/3/2011	0.015	-	-	-
Vinyl chloride	MW 80	10/11/2012	0.025	-	-	-
Vinyl chloride	MW 80	10/22/2013	0.045	-	-	-
Vinyl chloride	MW 80	10/24/2014	0.036	-	-	-
Vinyl chloride	MW 80	10/8/2015	0.04	-	-	-
Vinyl chloride	MW 80	10/22/2016	0.049	-	-	-
Vinyl chloride	MW 80	10/6/2017	0.041	-	-	-
Vinyl chloride	MW 80	10/2/2018	0.051	-	-	-
Vinyl chloride	MW 80	11/03/2020	0.063	-	-	-
Vinyl chloride	MW 81	3/9/2005	0.0034	-	-	-
Vinyl chloride	MW 81	3/30/2005	0.004 J	-	-	-
Vinyl chloride	MW 81	10/19/2005	0.0058	-	-	-
Vinyl chloride	MW 81	10/18/2006	0.0062	-	-	-
Vinyl chloride	MW 81	10/18/2006	0.0062	-	-	-
Vinyl chloride	MW 81	10/18/2007	0.0092	-	-	-

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Vinyl chloride	MW 81	2/15/2008	0.013	-	-	-
Vinyl chloride	MW 81	6/26/2008	0.016	-	-	-
Vinyl chloride	MW 81	12/4/2009	0.026	-	-	-
Vinyl chloride	MW 81	10/25/2010	0.0268	-	-	-
Vinyl chloride	MW 81	10/3/2011	0.05	-	-	-
Vinyl chloride	MW 81	10/11/2012	0.051	-	-	-
Vinyl chloride	MW 81	10/22/2013	0.066	-	-	-
Vinyl chloride	MW 81	10/22/2014	0.041	-	-	-
Vinyl chloride	MW 81	10/8/2015	0.062	-	-	-
Vinyl chloride	MW 81	10/22/2016	0.026	-	-	-
Vinyl chloride	MW 81	10/6/2017	0.042	-	-	-
Vinyl chloride	MW 81	10/9/2018	0.027	-	-	-
Vinyl chloride	MW 81	11/03/2020	0.037	-	-	-
Vinyl chloride	MW 82	3/9/2005	0.001 U	-	-	-
Vinyl chloride	MW 82	10/20/2005	0.001 U	-	-	-
Vinyl chloride	MW 82	10/19/2006	0.001 U	-	-	-
Vinyl chloride	MW 82	10/16/2007	0.001 U	-	-	-
Vinyl chloride	MW 82	6/27/2008	0.001 U	-	-	-
Vinyl chloride	MW 82	12/15/2009	0.001 U	-	-	-
Vinyl chloride	MW 82	10/27/2010	0.001 U	-	-	-
Vinyl chloride	MW 82	10/4/2011	0.001 U	-	-	-
Vinyl chloride	MW 82	10/23/2013	0.001 U	-	-	-
Vinyl chloride	MW 82	10/24/2014	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 82	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2017	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2017	0.001 U	-	-	-
Vinyl chloride	MW 82	10/10/2018	0.001 U	-	-	-
Vinyl chloride	MW 82	10/10/2018	0.001 U	-	-	-
Vinyl chloride	MW 82	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 83	3/9/2005	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/18/2005	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/18/2006	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/18/2007	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	6/27/2008	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	12/8/2009	0.001 U	-	-	detection frequency
Vinyl chloride	MW 83	10/26/2010	0.002 U	-	-	detection frequency
Vinyl chloride	MW 83	10/4/2011	0.0003 J	-	-	-
Vinyl chloride	MW 83	10/10/2012	0.00045 J	-	-	-
Vinyl chloride	MW 83	10/24/2013	0.0015	-	-	-
Vinyl chloride	MW 83	10/22/2014	0.0015	-	-	-
Vinyl chloride	MW 83	10/9/2015	0.0037	-	-	-
Vinyl chloride	MW 83	10/22/2016	0.0053	-	-	-
Vinyl chloride	MW 83	10/22/2016	0.0053	-	-	-
Vinyl chloride	MW 83	10/11/2017	0.0076	-	-	-
Vinyl chloride	MW 83	10/10/2018	0.24	-	-	-
Vinyl chloride	MW 83	11/03/2020	0.015	-	-	-
Vinyl chloride	MW 84	10/20/2005	0.001 U	-	-	-
Vinyl chloride	MW 84	4/10/2013	0.001 U	-	-	-
Vinyl chloride	MW 84	11/14/2013	0.001 U	-	-	-
Vinyl chloride	MW 84	4/10/2014	0.001 U	-	-	-
Vinyl chloride	MW 84	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 84	10/24/2016	0.001 U	-	-	-

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Vinyl chloride	MW 84	10/13/2017	0.001 U	-	-	-
Vinyl chloride	MW 84	10/4/2018	0.001 U	-	-	-
Vinyl chloride	MW 84	10/08/2019	0.001 U	-	-	-
Vinyl chloride	MW 84	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 85	2/19/2008	0.36	-	-	-
Vinyl chloride	MW 85	6/25/2008	0.25	-	-	-
Vinyl chloride	MW 85	12/4/2008	0.5	-	-	-
Vinyl chloride	MW 85	4/30/2009	0.48	-	-	-
Vinyl chloride	MW 85	12/17/2009	0.76	-	-	-
Vinyl chloride	MW 85	10/28/2010	0.808	-	-	-
Vinyl chloride	MW 85	4/20/2011	0.45	-	-	-
Vinyl chloride	MW 85	10/6/2011	0.51	-	-	-
Vinyl chloride	MW 85	5/16/2012	0.59	-	-	-
Vinyl chloride	MW 85	10/16/2012	0.77	-	-	-
Vinyl chloride	MW 85	4/12/2013	0.69	-	-	-
Vinyl chloride	MW 85	10/29/2013	0.64	-	-	-
Vinyl chloride	MW 85	4/16/2014	0.84	-	-	-
Vinyl chloride	MW 85	10/29/2014	0.6	-	-	-
Vinyl chloride	MW 85	4/27/2015	0.37 J	-	-	-
Vinyl chloride	MW 85	10/19/2015	0.44	-	-	-
Vinyl chloride	MW 85	4/22/2016	0.34 J	-	-	-
Vinyl chloride	MW 85	4/22/2016	0.35 J	-	-	-
Vinyl chloride	MW 85	10/24/2016	0.42 J	-	-	-
Vinyl chloride	MW 85	4/18/2017	0.42	-	-	-
Vinyl chloride	MW 85	10/17/2017	0.45	-	-	-
Vinyl chloride	MW 85	4/12/2018	0.35 J	-	-	-
Vinyl chloride	MW 85	10/8/2018	0.68	-	-	-
Vinyl chloride	MW 85	04/25/2019	0.32	-	-	-
Vinyl chloride	MW 85	11/03/2020	0.56	-	-	-
Vinyl chloride	MW 86	10/28/2010	0.001 U	-	-	-
Vinyl chloride	MW 86	10/28/2010	0.002 U	-	-	-
Vinyl chloride	MW 86	10/4/2011	0.001 U	-	-	-
Vinyl chloride	MW 86	10/11/2012	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2013	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2014	0.001 U	-	-	-
Vinyl chloride	MW 86	10/8/2015	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2016	0.001 U	-	-	-
Vinyl chloride	MW 86	10/13/2017	0.001 U	-	-	-
Vinyl chloride	MW 86	10/4/2018	0.001 U	-	-	-
Vinyl chloride	MW 86	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW 88	10/29/2010	0.002 U	-	-	detection frequency
Vinyl chloride	MW 88	10/3/2011	0.001 U	-	-	detection frequency
Vinyl chloride	MW 88	10/11/2012	0.001 U	-	-	detection frequency
Vinyl chloride	MW 88	10/22/2013	0.001 U	-	-	detection frequency
Vinyl chloride	MW 88	10/22/2014	0.00034 J	-	-	-
Vinyl chloride	MW 88	10/8/2015	0.001	-	-	-
Vinyl chloride	MW 88	10/8/2015	0.00098 J	-	-	-
Vinyl chloride	MW 88	10/22/2016	0.0019	-	-	-
Vinyl chloride	MW 88	10/22/2016	0.0018	-	-	-
Vinyl chloride	MW 88	10/13/2017	0.0023	-	-	-
Vinyl chloride	MW 88	10/4/2018	0.0024	-	-	-
Vinyl chloride	MW 88	10/4/2018	0.0023	-	-	-
Vinyl chloride	MW 88	11/03/2020	0.0061	-	-	-

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Vinyl chloride	MW 89-11	12/8/2011	0.001 U	-	-	-
Vinyl chloride	MW 89-11	12/8/2011	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/17/2012	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/12/2013	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/12/2013	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/28/2013	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/16/2014	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/28/2014	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/28/2015	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/15/2015	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/20/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/20/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/19/2017	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/17/2017	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/11/2018	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/8/2018	0.001 U	-	-	-
Vinyl chloride	MW 89-11	04/25/2019	0.001 U	-	-	-
Vinyl chloride	MW 89-11	11/03/2020	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/9/2018	0.001 U	-	-	-
Vinyl chloride	MW97R-16	11/03/2020	0.001 U	-	-	-
Vinyl chloride	Pond Intake	1/11/2005	0.0056	-	-	-
Vinyl chloride	Pond Intake	4/19/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	10/17/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	2/1/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	4/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	7/18/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	10/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	1/22/2007	0.006	-	-	sampling frequency
Vinyl chloride	Pond Intake	4/16/2007	0.00038 J	-	-	-
Vinyl chloride	Pond Intake	5/9/2007	0.00047 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	6/18/2007	0.00052 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	7/10/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	8/15/2007	0.0004 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	9/27/2007	0.00029 J	-	-	sampling frequency
Vinyl chloride	Pond Intake	10/17/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	11/9/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	12/4/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	2/18/2008	0.0022	-	-	sampling frequency
Vinyl chloride	Pond Intake	6/25/2008	0.0031	-	-	-
Vinyl chloride	Pond Intake	9/23/2008	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	12/4/2008	0.001 U	-	-	detection frequency
Vinyl chloride	Pond Intake	3/4/2009	0.0012	-	-	sampling frequency
Vinyl chloride	Pond Intake	3/4/2009	0.0013	-	-	sampling frequency
Vinyl chloride	Pond Intake	4/30/2009	0.0031	-	-	-
Vinyl chloride	Pond Intake	7/30/2009	0.0017	-	-	-
Vinyl chloride	Pond Intake	7/30/2009	0.0017	-	-	-
Vinyl chloride	Pond Intake	12/17/2009	0.0015	-	-	-
Vinyl chloride	Pond Intake	8/4/2010	0.0049	-	-	-
Vinyl chloride	Pond Intake	10/28/2010	0.001 U	-	-	detection frequency

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Vinyl chloride	Pond Intake	4/20/2011	0.0019	-	-	-
Vinyl chloride	Pond Intake	7/28/2011	0.0042	-	-	-
Vinyl chloride	Pond Intake	10/6/2011	0.0021	-	-	-
Vinyl chloride	Pond Intake	10/6/2011	0.0022	-	-	-
Vinyl chloride	Pond Intake	5/16/2012	0.0038	-	-	-
Vinyl chloride	Pond Intake	8/2/2012	0.0048	-	-	-
Vinyl chloride	Pond Intake	10/16/2012	0.00067 J	-	-	-
Vinyl chloride	Pond Intake	4/12/2013	0.0046	-	-	-
Vinyl chloride	Pond Intake	7/17/2013	0.0048	-	-	-
Vinyl chloride	Pond Intake	10/29/2013	0.0022	-	-	-
Vinyl chloride	Pond Intake	4/16/2014	0.0069	-	-	-
Vinyl chloride	Pond Intake	7/17/2014	0.0049	-	-	-
Vinyl chloride	Pond Intake	7/17/2014	0.0048	-	-	-
Vinyl chloride	Pond Intake	10/29/2014	0.0039	-	-	-
Vinyl chloride	Pond Intake	4/27/2015	0.0053	-	-	-
Vinyl chloride	Pond Intake	7/10/2015	0.008	-	-	-
Vinyl chloride	Pond Intake	7/10/2015	0.0079	-	-	-
Vinyl chloride	Pond Intake	10/20/2015	0.0065	-	-	-
Vinyl chloride	Pond Intake	4/22/2016	0.0044	-	-	-
Vinyl chloride	Pond Intake	7/19/2016	0.0049	-	-	-
Vinyl chloride	Pond Intake	10/24/2016	0.0031	-	-	-
Vinyl chloride	Pond Intake	10/24/2016	0.0029	-	-	-
Vinyl chloride	Pond Intake	4/18/2017	0.0063	-	-	-
Vinyl chloride	Pond Intake	7/12/2017	0.0051	-	-	-
Vinyl chloride	Pond Intake	10/19/2017	0.0048	-	-	-
Vinyl chloride	Pond Intake	4/9/2018	0.013	-	-	-
Vinyl chloride	Pond Intake	7/5/2018	0.0076	-	-	-
Vinyl chloride	Pond Intake	7/5/2018	0.0073	-	-	-
Vinyl chloride	Pond Intake	10/9/2018	0.005	-	-	-
Vinyl chloride	Pond Intake	04/25/2019	0.0089	-	-	-
Vinyl chloride	Pond Intake	04/25/2019	0.0086	-	-	-
Vinyl chloride	Pond Intake	10/08/2019	0.0039	-	-	-
Vinyl chloride	Pond Intake	11/03/2020	0.0039	-	-	-
Vinyl chloride	Pond North	1/11/2005	0.013	-	-	-
Vinyl chloride	Pond North	4/19/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	10/17/2005	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	2/1/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	4/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	7/18/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	10/17/2006	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	1/22/2007	0.0067 J	-	-	sampling frequency
Vinyl chloride	Pond North	4/16/2007	0.024	-	-	-
Vinyl chloride	Pond North	5/9/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	6/18/2007	0.00083 J	-	-	sampling frequency
Vinyl chloride	Pond North	7/10/2007	0.00035 J	-	-	-
Vinyl chloride	Pond North	8/15/2007	0.0005 J	-	-	sampling frequency
Vinyl chloride	Pond North	9/27/2007	0.00084 J	-	-	sampling frequency
Vinyl chloride	Pond North	10/17/2007	0.00072 J	-	-	-
Vinyl chloride	Pond North	11/9/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	12/4/2007	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	2/18/2008	0.0022	-	-	sampling frequency
Vinyl chloride	Pond North	6/25/2008	0.0035	-	-	-
Vinyl chloride	Pond North	9/23/2008	0.0012	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Vinyl chloride	Pond North	9/23/2008	0.0013	-	-	-
Vinyl chloride	Pond North	12/4/2008	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	3/4/2009	0.0012	-	-	sampling frequency
Vinyl chloride	Pond North	4/30/2009	0.0039	-	-	-
Vinyl chloride	Pond North	7/30/2009	0.0018	-	-	-
Vinyl chloride	Pond North	12/17/2009	0.5	yes	-	-
Vinyl chloride	Pond North	8/4/2010	0.004	-	-	-
Vinyl chloride	Pond North	8/4/2010	0.0051	-	-	-
Vinyl chloride	Pond North	10/28/2010	0.001 U	-	-	detection frequency
Vinyl chloride	Pond North	4/20/2011	0.0043	-	-	-
Vinyl chloride	Pond North	7/28/2011	0.0088	-	-	-
Vinyl chloride	Pond North	7/28/2011	0.0067	-	-	-
Vinyl chloride	Pond North	10/6/2011	0.012	-	-	-
Vinyl chloride	Pond North	5/16/2012	0.014	-	-	-
Vinyl chloride	Pond North	5/16/2012	0.014	-	-	-
Vinyl chloride	Pond North	8/2/2012	0.012	-	-	-
Vinyl chloride	Pond North	8/2/2012	0.011	-	-	-
Vinyl chloride	Pond North	10/16/2012	0.012	-	-	-
Vinyl chloride	Pond North	4/12/2013	0.0081	-	-	-
Vinyl chloride	Pond North	7/17/2013	0.014	-	-	-
Vinyl chloride	Pond North	7/17/2013	0.014	-	-	-
Vinyl chloride	Pond North	10/29/2013	0.0033	-	-	-
Vinyl chloride	Pond North	4/16/2014	0.089	-	-	-
Vinyl chloride	Pond North	7/17/2014	0.041	-	-	-
Vinyl chloride	Pond North	10/29/2014	0.019	-	-	-
Vinyl chloride	Pond North	4/27/2015	0.0091	-	-	-
Vinyl chloride	Pond North	7/10/2015	0.0077	-	-	-
Vinyl chloride	Pond North	10/20/2015	0.0047	-	-	-
Vinyl chloride	Pond North	4/22/2016	0.0078	-	-	-
Vinyl chloride	Pond North	7/19/2016	0.0064	-	-	-
Vinyl chloride	Pond North	7/19/2016	0.0062	-	-	-
Vinyl chloride	Pond North	10/24/2016	0.033 U	-	-	detection frequency
Vinyl chloride	Pond North	4/18/2017	0.011	-	-	-
Vinyl chloride	Pond North	4/18/2017	0.01	-	-	-
Vinyl chloride	Pond North	7/12/2017	0.0053	-	-	-
Vinyl chloride	Pond North	7/12/2017	0.0052	-	-	-
Vinyl chloride	Pond North	10/19/2017	0.017	-	-	-
Vinyl chloride	Pond North	4/9/2018	0.014	-	-	-
Vinyl chloride	Pond North	4/9/2018	0.018	-	-	-
Vinyl chloride	Pond North	7/5/2018	0.023 J	-	-	-
Vinyl chloride	Pond North	10/9/2018	0.0059 J	-	-	-
Vinyl chloride	Pond North	10/9/2018	0.0064 J	-	-	-
Vinyl chloride	Pond North	04/25/2019	0.0099	-	-	-
Vinyl chloride	Pond North	10/08/2019	0.0039 J	-	-	-
Vinyl chloride	Pond North	10/08/2019	0.0040 J	-	-	-
Vinyl chloride	Pond North	11/03/2020	0.011	-	-	-
Vinyl chloride	Pond North	11/03/2020	0.0091J	-	-	-

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data

Notes:

Ambiguous Data:

high DL - observation was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

low J value - observation was censored (considered non-detect) due to ambiguous comparisons with non-detect data having higher detection limits.

Excluded Data:

sampling frequency - additional sampling events were excluded from the Mann-Kendall trend test to provide a consistent sampli interval corresponding to current program.

detection frequency - non-detects were excluded from the Mann-Kendall trend test to provide a test result, otherwise not obtaine due to detection frequency less than 75 percent.

Table C.2

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW-2	TCE	2007 -- 2020	15	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 3	TCE	2005 -- 2020	34	34	100%	0.013	18	0	-138	0.979	2%	NT or Decreasing	-8E-04
MW-4 (1)	TCE	2005 -- 2020	21	21	100%	0.0112	2.4	0	117	2E-04	100%	**Increasing**	3E-04
MW-7	TCE	2012 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 8	TCE	2005 -- 2020	31	31	100%	0.046	1.4	0	-127	0.984	2%	NT or Decreasing	-5E-05
MW 12 (1)	TCE	2005 -- 2020	26	26	100%	0.00028J	0.16	0	-299	1.000	0%	NT or Decreasing	-2E-05
MW 14	TCE	2005 -- 2020	33	2	6%	0.001U	0.5 U	--	--	--	--	--	--
MW 15 (2)(3)	TCE	2005 -- 2020	11	11	100%	2.5	8.3	0	-28	0.982	2%	NT or Decreasing	-1E-03
MW 16	TCE	2005 -- 2020	9	1	11%	0.001U	0.63U	--	--	--	--	--	--
MW 21 (2)	TCE	2005 -- 2020	8	1	13%	0.001U	0.0013	--	--	--	--	--	--
MW 28	TCE	2005 -- 2020	26	1	4%	0.00015 J	0.067U	--	--	--	--	--	--
MW 31R (1)	TCE	2005 -- 2020	19	19	100%	0.038J	2.5	0	-105	1.000	0%	NT or Decreasing	-3E-04
MW 37	TCE	2005 -- 2020	14	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 40 (1)	TCE	2006 -- 2020	17	17	100%	0.0011	0.4	0	77	9E-04	100%	**Increasing**	7E-05
MW 41	TCE	2005 -- 2020	33	1	3%	0.00017 J	0.63 U	--	--	--	--	--	--
MW 42	TCE	2005 -- 2020	33	3	9%	0.00011 J	0.71 U	--	--	--	--	--	--
MW 46	TCE	2005 -- 2020	15	3	20%	0.00013 J	0.005 U	--	--	--	--	--	--
MW 49	TCE	2005 -- 2020	24	9	38%	0.00041 J	0.047	--	--	--	--	--	--
MW 51	TCE	2008 -- 2019	21	21	100%	0.052	0.3	0	-164	1.000	0%	NT or Decreasing	-5E-05
MW 56	TCE	2005 -- 2020	16	1	6%	0.001U	0.00067 J	--	--	--	--	--	--
MW 57	TCE	2005 -- 2020	22	2	9%	0.00011 J	0.05U	--	--	--	--	--	--
MW 58	TCE	2005 -- 2020	17	2	12%	0.001 U	0.2 U	--	--	--	--	--	--
MW 61	TCE	2005 -- 2020	13	0	0%	0.001U	0.005 U	--	--	--	--	--	--
MW 64	TCE	2005 -- 2020	17	5	29%	0.00011 J	0.063	--	--	--	--	--	--
MW 65	TCE	2005 -- 2020	17	1	6%	0.00027 J	0.17 U	--	--	--	--	--	--
MW 66	TCE	2005 -- 2020	28	1	4%	0.00034 J	0.2 U	--	--	--	--	--	--
MW 68 (4)	TCE	2005 -- 2020	33	33	100%	0.1	2.6	0	97	0.068	93%	**Increasing**	2E-04
MW 75	TCE	2005 -- 2020	14	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 76/MW 76R-17	TCE	2005 -- 2020	12	1	8%	0.00021 J	0.001U	--	--	--	--	--	--
MW 79	TCE	2005 -- 2020	24	1	4%	0.001U	0.12	--	--	--	--	--	--
MW 80	TCE	2005 -- 2020	16	1	6%	0.00021 J	0.0083 U	--	--	--	--	--	--
MW 81	TCE	2005 -- 2020	17	0	0%	0.001U	0.008 U	--	--	--	--	--	--
MW 82	TCE	2005 -- 2020	15	3	20%	0.00014 J	0.00097 J	--	--	--	--	--	--
MW 83	TCE	2005 -- 2020	16	2	13%	0.00023 J	0.005 U	--	--	--	--	--	--
MW 84	TCE	2005 -- 2020	10	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 85	TCE	2008 -- 2020	24	1	4%	0.001 U	0.56 U	--	--	--	--	--	--
MW 86	TCE	2010 -- 2020	10	0	0%	0.001U	0.005 U	--	--	--	--	--	--

Table C.2

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW 88	TCE	2010 -- 2020	10	0	0%	0.001U	0.005 U	--	--	--	--	--	--
MW 89-11	TCE	2011 -- 2020	15	1	7%	0.00036 J	0.001U	--	--	--	--	--	--
MW97R-16	TCE	2016 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--	--
Pond Intake	TCE	2005 -- 2020	52	2	4%	0.001 U	0.0073	--	--	--	--	--	--
Pond North	TCE	2005 -- 2020	52	2	4%	0.001 U	0.033 U	--	--	--	--	--	--
MW-2	cis-1,2-DCE	2007 -- 2020	15	3	20%	0.00015 J	0.0021	--	--	--	--	--	--
MW 3	cis-1,2-DCE	2005 -- 2020	34	33	97%	0.0042 U	12	0	-40	0.718	28%	NT or Decreasing	-2E-04
MW-4	cis-1,2-DCE	2005 -- 2020	34	34	100%	5.4	23	0	-57	0.797	20%	NT or Decreasing	-3E-04
MW-7	cis-1,2-DCE	2014 -- 2020	4	1	25%	0.00018 J	0.001U	--	--	--	--	--	--
MW 8	cis-1,2-DCE	2005 -- 2020	31	31	100%	0.24	22	0	-261	1.000	0%	NT or Decreasing	-1E-03
MW 12	cis-1,2-DCE	2005 -- 2020	33	33	100%	0.072	1	0	-456	1.000	0%	NT or Decreasing	-1E-04
MW 14	cis-1,2-DCE	2005 -- 2020	33	33	100%	0.33	7.7	1	-250	1.000	0%	NT or Decreasing	-5E-04
MW 15 [2][3]	cis-1,2-DCE	2005 -- 2020	11	11	100%	1.7	19	0	-30	0.988	1%	NT or Decreasing	-2E-03
MW 16	cis-1,2-DCE	2005 -- 2020	9	5	56%	0.00026 J	9.6	--	--	--	--	--	--
MW 21 [2]	cis-1,2-DCE	2005 -- 2020	8	1	13%	0.00046 J	0.001U	--	--	--	--	--	--
MW 28 [1]	cis-1,2-DCE	2005 -- 2020	17	17	100%	0.0011 J	6.1	1	94	6E-05	100%	**Increasing**	3E-04
MW 31R	cis-1,2-DCE	2005 -- 2020	32	32	100%	5.1	95	4	97	0.060	94%	**Increasing**	1E-03
MW 37	cis-1,2-DCE	2005 -- 2020	14	1	7%	ND(0.001)J	0.0011	--	--	--	--	--	--
MW 40	cis-1,2-DCE	2005 -- 2020	34	34	100%	3.1	17	0	-370	1.000	0%	NT or Decreasing	-2E-03
MW 41	cis-1,2-DCE	2005 -- 2020	33	33	100%	4.2B	10	0	-142	0.986	1%	NT or Decreasing	-4E-04
MW 42	cis-1,2-DCE	2005 -- 2020	33	33	100%	2.4	12	0	-368	1.000	0%	NT or Decreasing	-1E-03
MW 46	cis-1,2-DCE	2005 -- 2020	15	1	7%	0.001U	0.005 U	--	--	--	--	--	--
MW 49	cis-1,2-DCE	2005 -- 2020	24	23	96%	0.001 U	0.9	0	166	2E-05	100%	**Increasing**	2E-04
MW 51	cis-1,2-DCE	2008 -- 2019	21	20	95%	0.0067 U	0.16	1	116	3E-04	100%	**Increasing**	4E-06
MW 56	cis-1,2-DCE	2005 -- 2020	16	3	19%	0.00021 J	0.003	--	--	--	--	--	--
MW 57	cis-1,2-DCE	2005 -- 2020	22	8	36%	0.00014 J	0.18	--	--	--	--	--	--
MW 58	cis-1,2-DCE	2005 -- 2020	17	6	35%	0.001 U	3	--	--	--	--	--	--
MW 61	cis-1,2-DCE	2005 -- 2020	13	1	8%	0.00035 J	0.005 U	--	--	--	--	--	--
MW 64	cis-1,2-DCE	2005 -- 2020	17	10	59%	0.00014 J	0.32B	--	--	--	--	--	--
MW 65	cis-1,2-DCE	2005 -- 2020	17	17	100%	0.0082B	3	0	-93	1.000	0%	NT or Decreasing	-4E-04
MW 66 [1]	cis-1,2-DCE	2008 -- 2020	22	22	100%	0.00012 J	3.4	0	197	2E-08	100%	**Increasing**	7E-04
MW 68	cis-1,2-DCE	2005 -- 2020	34	34	100%	3	16	0	-431	1.000	0%	NT or Decreasing	-2E-03
MW 75	cis-1,2-DCE	2005 -- 2020	14	1	7%	0.001U	0.0007 J	--	--	--	--	--	--
MW 76/MW 76R-17	cis-1,2-DCE	2005 -- 2020	12	7	58%	0.00019 J	0.0032B	--	--	--	--	--	--
MW 79	cis-1,2-DCE	2005 -- 2020	24	24	100%	0.79	3.5	0	150	1E-04	100%	**Increasing**	4E-04
MW 80	cis-1,2-DCE	2005 -- 2020	16	6	38%	0.00013 J	0.025	--	--	--	--	--	--

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW 81 [(1)]	cis-1,2-DCE	2008 -- 2020	11	11	100%	0.00024 J	0.19	0	23	0.043	96%	**Increasing**	2E-05
MW 82	cis-1,2-DCE	2005 -- 2020	15	3	20%	0.00041 J	0.0022	--	--	--	--	--	--
MW 83	cis-1,2-DCE	2005 -- 2020	16	3	19%	0.00032 J	0.005 U	--	--	--	--	--	--
MW 84	cis-1,2-DCE	2005 -- 2020	10	2	20%	0.00027 J	0.001	--	--	--	--	--	--
MW 85	cis-1,2-DCE	2008 -- 2020	24	19	79%	0.001 U	10	0	164	2E-05	100%	**Increasing**	2E-03
MW 86	cis-1,2-DCE	2010 -- 2020	10	0	0%	ND(0.001)J	0.005 U	--	--	--	--	--	--
MW 88	cis-1,2-DCE	2010 -- 2020	10	0	0%	ND(0.001)J	0.005 U	--	--	--	--	--	--
MW 89-11	cis-1,2-DCE	2011 -- 2020	16	5	31%	0.0003 J	0.0033 U	--	--	--	--	--	--
MW97R-16	cis-1,2-DCE	2016 -- 2020	4	1	25%	0.001U	0.0012	--	--	--	--	--	--
Pond Intake [(1)(2)]	cis-1,2-DCE	2005 -- 2020	31	31	100%	0.00019 J	0.12	0	324	2E-08	100%	**Increasing**	2E-05
Pond North [(1)(2)]	cis-1,2-DCE	2005 -- 2020	32	32	100%	0.00016 J	0.5	0	233	8E-05	100%	**Increasing**	4E-05
MW-2	Vinyl chloride	2007 -- 2020	15	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 3 [(1)]	Vinyl chloride	2005 -- 2020	23	19	83%	0.00027 J	2	1	-116	0.999	0%	NT or Decreasing	-3E-05
MW-4	Vinyl chloride	2005 -- 2020	34	34	100%	0.38 J	2.1	0	-243	1.000	0%	NT or Decreasing	-1E-04
MW-7	Vinyl chloride	2014 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 8	Vinyl chloride	2005 -- 2020	31	31	100%	0.027	6.9	2	-162	0.997	0%	NT or Decreasing	-2E-04
MW 12	Vinyl chloride	2005 -- 2020	33	2	6%	0.0005J	0.05 U	--	--	--	--	--	--
MW 14	Vinyl chloride	2005 -- 2020	33	33	100%	0.0087 J	0.51	0	-325	1.000	0%	NT or Decreasing	-5E-05
MW 15 [(2)(3)]	Vinyl chloride	2005 -- 2020	11	9	82%	0.041	1.4	0	-34	0.995	0%	NT or Decreasing	-3E-04
MW 16	Vinyl chloride	2005 -- 2020	9	3	33%	0.001 U	0.63U	--	--	--	--	--	--
MW 21 [(2)]	Vinyl chloride	2005 -- 2020	8	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 28	Vinyl chloride	2005 -- 2020	26	26	100%	0.057	0.22	0	153	4E-04	100%	**Increasing**	2E-05
MW 31R	Vinyl chloride	2005 -- 2020	32	32	100%	0.63	13	0	-133	0.984	2%	NT or Decreasing	-6E-04
MW 37	Vinyl chloride	2005 -- 2020	14	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 40	Vinyl chloride	2005 -- 2020	34	34	100%	0.18 J	2.1	0	-239	1.000	0%	NT or Decreasing	-2E-04
MW 41	Vinyl chloride	2005 -- 2020	33	33	100%	0.14 J	0.73	0	130	0.023	98%	**Increasing**	4E-05
MW 42	Vinyl chloride	2005 -- 2020	33	31	94%	0.084 J	0.26	0	-6	0.531	47%	NT or Decreasing	-3E-06
MW 46	Vinyl chloride	2005 -- 2020	15	0	0%	0.001U	0.002 U	--	--	--	--	--	--
MW 49 [(1)]	Vinyl chloride	2005 -- 2020	19	19	100%	0.011 J	0.085	0	-78	0.997	0%	NT or Decreasing	-2E-05
MW 51 [(1)]	Vinyl chloride	2013 -- 2019	13	12	92%	0.005 U	0.0079	0	30	0.038	96%	**Increasing**	1E-06
MW 56	Vinyl chloride	2005 -- 2020	16	1	6%	0.001 U	0.00066J	--	--	--	--	--	--
MW 57	Vinyl chloride	2005 -- 2020	22	11	50%	0.00018 J	0.98	--	--	--	--	--	--
MW 58	Vinyl chloride	2005 -- 2020	17	15	88%	0.001 U	0.16	0	60	0.007	99%	**Increasing**	2E-05
MW 61	Vinyl chloride	2005 -- 2020	13	6	46%	0.00029 J	0.0013	--	--	--	--	--	--
MW 64	Vinyl chloride	2005 -- 2020	17	16	94%	0.001 U	0.089	0	106	8E-06	100%	**Increasing**	1E-05
MW 65 [(1)]	Vinyl chloride	2005 -- 2020	14	14	100%	0.00049J	1.2 J	0	-63	1.000	0%	NT or Decreasing	-2E-04

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Number of Outliers	Mann-Kendall Trend test				Sen's Slope (units/day)
									Statistic	Probability	Confidence in trend	Conclusion	
MW 66 [5]	Vinyl chloride	2005 -- 2020	26	26	100%	0.0031	0.33	0	128	0.003	100%	**Increasing**	2E-05
MW 68	Vinyl chloride	2005 -- 2020	34	34	100%	0.097 J	0.43 J	0	-173	0.995	1%	NT or Decreasing	-2E-05
MW 75	Vinyl chloride	2005 -- 2020	14	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 76/MW 76R-17	Vinyl chloride	2005 -- 2020	12	3	25%	0.00048 J	0.0016	--	--	--	--	--	--
MW 79	Vinyl chloride	2005 -- 2020	24	24	100%	0.12	0.6	1	46	0.131	87%	NT or Decreasing	2E-05
MW 80	Vinyl chloride	2005 -- 2020	16	16	100%	0.0134	0.15	0	-4	0.554	45%	NT or Decreasing	-1E-06
MW 81	Vinyl chloride	2005 -- 2020	17	17	100%	0.004 J	0.066	0	83	4E-04	100%	**Increasing**	9E-06
MW 82	Vinyl chloride	2005 -- 2020	15	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 83 [1]	Vinyl chloride	2011 -- 2020	9	9	100%	0.0003 J	0.015	0	35	2E-04	100%	**Increasing**	5E-06
MW 84	Vinyl chloride	2005 -- 2020	10	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW 85	Vinyl chloride	2008 -- 2020	24	24	100%	0.25	0.84	0	-32	0.779	22%	NT or Decreasing	-2E-05
MW 86	Vinyl chloride	2010 -- 2020	10	0	0%	0.001U	0.002 U	--	--	--	--	--	--
MW 88 [1]	Vinyl chloride	2014 -- 2020	6	6	100%	0.00034 J	0.0061	1	15	0.004	100%	**Increasing**	2E-06
MW 89-11	Vinyl chloride	2011 -- 2020	16	0	0%	0.001U	0.001U	--	--	--	--	--	--
MW97R-16	Vinyl chloride	2016 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--	--
Pond Intake [1][2]	Vinyl chloride	2005 -- 2020	34	34	100%	0.00038 J	0.013	0	213	8E-04	100%	**Increasing**	8E-07
Pond North [1][2]	Vinyl chloride	2005 -- 2020	36	36	100%	0.00035 J	0.5	1	108	0.072	93%	**Increasing**	1E-06

Notes:

[1] Tend test was calculated using detected values only, due to elevated detection limits for non-detects or due to detection frequency close to 75 percent.

[2] Due to changes in sampling frequency, earlier sampling events were excluded from the Mann-Kendall trend test to provide a consistent sampling interval corresponding to current progra

[3] Due to a gap in the monitoring record, the assumption of data equally spaced through time was not met, therefore supplementary tests were performed (see text for details).

[4] One observation (0.5 U mg/L in April 2006) was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

[5] Two observations (0.2 U mg/L in April and October 2018) were excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found. Analyte concentrations may be stable or decreasing over time. (Per approved Monitor a 1-sided test is performed).

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Analyte	Location	Date	Result (mg/L)	Outlier	Ambiguous Data	Excluded Data
Trichloroethene	MW-2	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW-2	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW-2	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW-2	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW-2	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 3	10/22/2016	4.9	-	-	-
Trichloroethene	MW 3	4/18/2017	11	-	-	detection frequency
Trichloroethene	MW 3	10/10/2017	4.4	-	-	-
Trichloroethene	MW 3	4/11/2018	7.8	-	-	detection frequency
Trichloroethene	MW 3	10/3/2018	8.5	-	-	-
Trichloroethene	MW 3	04/25/2019	7.8	-	-	-
Trichloroethene	MW 3	11/03/2020	2.1	-	-	-
Trichloroethene	MW-4	10/22/2016	1.7	-	-	-
Trichloroethene	MW-4	4/18/2017	1.1	-	-	detection frequency
Trichloroethene	MW-4	10/10/2017	2.4/2.1	-	-	-
Trichloroethene	MW-4	4/12/2018	1.3	-	-	detection frequency
Trichloroethene	MW-4	4/12/2018	1.4	-	-	detection frequency
Trichloroethene	MW-4	10/3/2018	1.6	-	-	-
Trichloroethene	MW-4	04/25/2019	0.8	-	-	-
Trichloroethene	MW-4	11/03/2020	1	-	-	-
Trichloroethene	MW-7	10/10/2017	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW-7	10/3/2018	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW-7	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 8	10/22/2016	0.39	-	-	-
Trichloroethene	MW 8	4/18/2017	0.09 J	-	-	detection frequency
Trichloroethene	MW 8	10/10/2017	0.37	-	-	-
Trichloroethene	MW 8	4/10/2018	0.15 J	-	-	detection frequency
Trichloroethene	MW 8	10/3/2018	0.17	-	-	-
Trichloroethene	MW 8	04/25/2019	0.089	-	-	-
Trichloroethene	MW 8	11/03/2020	0.16	-	-	-
Trichloroethene	MW 12	10/22/2016	0.005 U	-	-	-
Trichloroethene	MW 12	4/19/2017	0.00085 J	-	-	detection frequency
Trichloroethene	MW 12	10/10/2017	0.0033 U	-	-	-
Trichloroethene	MW 12	4/11/2018	0.0026 J	-	-	detection frequency
Trichloroethene	MW 12	10/3/2018	0.005 U	-	-	-
Trichloroethene	MW 12	04/25/2019	0.00048J	-	-	-
Trichloroethene	MW 12	11/03/2020	0.00028J	-	-	-
Trichloroethene	MW 14	10/22/2016	0.2 U	-	-	-
Trichloroethene	MW 14	4/18/2017	0.13 U	-	-	detection frequency
Trichloroethene	MW 14	4/18/2017	0.13 U	-	-	detection frequency
Trichloroethene	MW 14	10/10/2017	0.2 U/0.2 U	-	-	-
Trichloroethene	MW 14	4/10/2018	0.2 U	-	-	detection frequency
Trichloroethene	MW 14	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 14	04/25/2019	0.14U	-	-	-
Trichloroethene	MW 14	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 15	10/13/2015	3	-	-	-
Trichloroethene	MW 15	10/22/2016	2.5	-	-	-
Trichloroethene	MW 15	10/10/2017	4.1	-	-	-
Trichloroethene	MW 15	10/3/2018	3.7	-	-	-
Trichloroethene	MW 15	11/03/2020	2.5	-	-	-
Trichloroethene	MW 16	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 16	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 16	10/10/2017	0.0017	-	-	-

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Trichloroethene	MW 16	10/3/2018	0.005 U	-	-	-
Trichloroethene	MW 16	10/08/2019	0.63U	-	-	detection frequency
Trichloroethene	MW 16	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 21	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 21	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 21	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 21	10/3/2018	0.0013	-	-	-
Trichloroethene	MW 21	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 28	10/22/2016	0.05 U	-	-	-
Trichloroethene	MW 28	4/19/2017	0.025 U	-	-	detection frequency
Trichloroethene	MW 28	10/10/2017	0.04 U	-	-	-
Trichloroethene	MW 28	4/12/2018	0.05 U	-	-	detection frequency
Trichloroethene	MW 28	10/3/2018	0.067 U / 0.067 U	-	-	-
Trichloroethene	MW 28	04/25/2019	0.04U	-	-	-
Trichloroethene	MW 28	11/03/2020	0.067U	-	-	-
Trichloroethene	MW 31R	10/22/2016	0.71 U / 0.71 U	-	-	-
Trichloroethene	MW 31R	4/19/2017	0.63 U	-	-	detection frequency
Trichloroethene	MW 31R	10/10/2017	0.83 U	-	-	-
Trichloroethene	MW 31R	4/10/2018	1 U	-	-	detection frequency
Trichloroethene	MW 31R	10/3/2018	1 U / 1 U	-	-	-
Trichloroethene	MW 31R	04/25/2019	5U	-	-	-
Trichloroethene	MW 31R	11/03/2020	0.038J	-	-	-
Trichloroethene	MW 37	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 37	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 37	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 37	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 37	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 40	10/22/2016	0.16 J	-	-	-
Trichloroethene	MW 40	4/19/2017	0.4	-	-	detection frequency
Trichloroethene	MW 40	10/10/2017	0.36/0.35	-	-	-
Trichloroethene	MW 40	4/13/2018	0.34	-	-	detection frequency
Trichloroethene	MW 40	10/3/2018	0.28	-	-	-
Trichloroethene	MW 40	04/25/2019	0.2U	-	-	-
Trichloroethene	MW 40	11/03/2020	0.18	-	-	-
Trichloroethene	MW 41	10/22/2016	0.33 U	-	-	-
Trichloroethene	MW 41	4/19/2017	0.2 U	-	-	detection frequency
Trichloroethene	MW 41	10/10/2017	0.2 U	-	-	-
Trichloroethene	MW 41	4/13/2018	0.33 U	-	-	detection frequency
Trichloroethene	MW 41	10/3/2018	0.33 U	-	-	-
Trichloroethene	MW 41	04/25/2019	0.2U/0.2U	-	-	-
Trichloroethene	MW 41	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 42	10/22/2016	0.2 U	-	-	-
Trichloroethene	MW 42	4/19/2017	0.035 J	-	-	detection frequency
Trichloroethene	MW 42	10/10/2017	0.1 U	-	-	-
Trichloroethene	MW 42	4/13/2018	0.2 U	-	-	detection frequency
Trichloroethene	MW 42	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 42	04/25/2019	0.1U	-	-	-
Trichloroethene	MW 42	11/03/2020	0.0072	-	-	-
Trichloroethene	MW 46	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 46	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 46	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 46	10/3/2018	0.00015 J	-	-	-
Trichloroethene	MW 46	10/08/2019	0.001U	-	-	detection frequency

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Trichloroethene	MW 46	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 49	4/11/2018	0.05 U	-	-	detection frequency
Trichloroethene	MW 49	10/3/2018	0.047	-	-	-
Trichloroethene	MW 49	04/25/2019	0.029J	-	-	-
Trichloroethene	MW 49	11/03/2020	0.021J	-	-	-
Trichloroethene	MW 51	10/22/2016	0.14	-	-	-
Trichloroethene	MW 51	4/18/2017	0.14	-	-	detection frequency
Trichloroethene	MW 51	10/10/2017	0.15	-	-	-
Trichloroethene	MW 51	4/10/2018	0.087	-	-	detection frequency
Trichloroethene	MW 51	4/10/2018	0.097	-	-	detection frequency
Trichloroethene	MW 51	10/3/2018	0.064	-	-	-
Trichloroethene	MW 51	04/25/2019	0.046/0.052	-	-	-
Trichloroethene	MW 56	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 56	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 56	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 56	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 56	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 57	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 57	10/22/2016	0.002 U	-	-	-
Trichloroethene	MW 57	10/10/2017	0.0033 U	-	-	-
Trichloroethene	MW 57	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 57	11/03/2020	0.05U	-	-	-
Trichloroethene	MW 58	10/13/2015	0.005 U / 0.0057 U	-	-	-
Trichloroethene	MW 58	10/22/2016	0.05 U	-	-	-
Trichloroethene	MW 58	10/10/2017	0.05 U	-	-	-
Trichloroethene	MW 58	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 58	11/03/2020	0.14U/0.14U	-	-	-
Trichloroethene	MW 61	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 61	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 61	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 61	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 61	11/03/2020	0.001U/0.001U	-	-	-
Trichloroethene	MW 64	10/13/2015	0.01 U	-	-	-
Trichloroethene	MW 64	10/22/2016	0.0025 U	-	-	-
Trichloroethene	MW 64	10/10/2017	0.0067 U	-	-	-
Trichloroethene	MW 64	10/3/2018	0.01 U / 0.01 U	-	-	-
Trichloroethene	MW 64	11/03/2020	0.001U/0.001U	-	-	-
Trichloroethene	MW 65	10/13/2015	0.002 U	-	-	-
Trichloroethene	MW 65	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 65	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 65	10/3/2018	0.00027 J	-	-	-
Trichloroethene	MW 65	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 66	10/22/2016	0.1 U	-	-	-
Trichloroethene	MW 66	4/19/2017	0.063 U	-	-	detection frequency
Trichloroethene	MW 66	10/10/2017	0.067 U	-	-	-
Trichloroethene	MW 66	4/11/2018	0.2 U	-	-	detection frequency
Trichloroethene	MW 66	10/3/2018	0.2 U	-	-	-
Trichloroethene	MW 66	04/25/2019	0.1U	-	-	-
Trichloroethene	MW 66	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 68	10/22/2016	1.7	-	-	-
Trichloroethene	MW 68	4/17/2017	1.5	-	-	detection frequency
Trichloroethene	MW 68	10/10/2017	1.6	-	-	-
Trichloroethene	MW 68	4/11/2018	1.7	-	-	detection frequency

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Trichloroethene	MW 68	10/3/2018	1.4	-	-	-
Trichloroethene	MW 68	04/25/2019	1.4	-	-	-
Trichloroethene	MW 68	11/03/2020	1.1/1.2	-	-	-
Trichloroethene	MW 75	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 75	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 75	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 75	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 76/MW 76R-17	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 79	10/22/2016	0.1 U	-	-	-
Trichloroethene	MW 79	4/17/2017	0.063 U	-	-	detection frequency
Trichloroethene	MW 79	4/17/2017	0.13 U	-	-	detection frequency
Trichloroethene	MW 79	10/10/2017	0.05 U	-	-	-
Trichloroethene	MW 79	4/10/2018	0.1 U	-	-	detection frequency
Trichloroethene	MW 79	10/3/2018	0.1 U	-	-	-
Trichloroethene	MW 79	04/25/2019	0.1U	-	-	-
Trichloroethene	MW 79	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 80	10/13/2015	0.0017 U	-	-	-
Trichloroethene	MW 80	10/22/2016	0.0018 U	-	-	-
Trichloroethene	MW 80	10/10/2017	0.002 U	-	-	-
Trichloroethene	MW 80	10/3/2018	0.002 U	-	-	-
Trichloroethene	MW 80	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 81	10/13/2015	0.008 U	-	-	-
Trichloroethene	MW 81	10/22/2016	0.005 U	-	-	-
Trichloroethene	MW 81	10/10/2017	0.0033 U	-	-	-
Trichloroethene	MW 81	10/3/2018	0.004 U	-	-	-
Trichloroethene	MW 81	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 82	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 82	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 82	10/10/2017	0.00097 J/0.00096 J	-	-	-
Trichloroethene	MW 82	10/3/2018	0.00014 J / 0.00012 J	-	-	-
Trichloroethene	MW 82	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 83	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 83	10/22/2016	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW 83	10/10/2017	0.00045 J	-	-	-
Trichloroethene	MW 83	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 83	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 84	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 84	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW 84	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 84	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 84	10/08/2019	0.001U	-	-	detection frequency
Trichloroethene	MW 84	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 85	10/22/2016	0.56 U	-	-	-
Trichloroethene	MW 85	4/18/2017	0.33 U	-	-	detection frequency
Trichloroethene	MW 85	10/10/2017	0.2 U	-	-	-
Trichloroethene	MW 85	4/12/2018	0.5 U	-	-	detection frequency
Trichloroethene	MW 85	10/3/2018	0.5 U	-	-	-
Trichloroethene	MW 85	04/25/2019	0.2U	-	-	-
Trichloroethene	MW 85	11/03/2020	0.33U	-	-	-
Trichloroethene	MW 86	10/13/2015	0.001 U	-	-	-
Trichloroethene	MW 86	10/22/2016	0.001 U	-	-	-

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Trichloroethene	MW 86	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 86	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 86	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 88	10/13/2015	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW 88	10/22/2016	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW 88	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 88	10/3/2018	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW 88	11/03/2020	0.001U	-	-	-
Trichloroethene	MW 89-11	10/22/2016	0.001 U / 0.001 U	-	-	-
Trichloroethene	MW 89-11	4/19/2017	0.00036 J	-	-	detection frequency
Trichloroethene	MW 89-11	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW 89-11	4/11/2018	0.001 U	-	-	detection frequency
Trichloroethene	MW 89-11	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW 89-11	04/25/2019	0.001U	-	-	-
Trichloroethene	MW 89-11	11/03/2020	0.001U	-	-	-
Trichloroethene	MW97R-16	10/22/2016	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/10/2017	0.001 U	-	-	-
Trichloroethene	MW97R-16	10/3/2018	0.001 U	-	-	-
Trichloroethene	MW97R-16	11/03/2020	0.001U	-	-	-
Trichloroethene	Pond Intake	10/22/2016	0.0018 U	-	-	-
Trichloroethene	Pond Intake	10/22/2016	0.002 U	-	-	-
Trichloroethene	Pond Intake	4/18/2017	0.0017 U	-	-	detection frequency
Trichloroethene	Pond Intake	7/12/2017	0.0073	-	-	detection frequency
Trichloroethene	Pond Intake	10/10/2017	0.01 U	-	-	-
Trichloroethene	Pond Intake	4/9/2018	0.005 U	-	-	detection frequency
Trichloroethene	Pond Intake	7/5/2018	0.0033 U	-	-	detection frequency
Trichloroethene	Pond Intake	7/5/2018	0.0033 U	-	-	detection frequency
Trichloroethene	Pond Intake	10/3/2018	0.005 U	-	-	-
Trichloroethene	Pond Intake	04/25/2019	0.001J	-	-	-
Trichloroethene	Pond Intake	04/25/2019	0.0009 J	-	-	-
Trichloroethene	Pond Intake	10/08/2019	0.0017U	-	-	detection frequency
Trichloroethene	Pond Intake	11/03/2020	0.0025U	-	-	-
Trichloroethene	Pond North	4/19/2016	0.005 U	-	-	detection frequency
Trichloroethene	Pond North	10/22/2016	0.033 U	-	-	-
Trichloroethene	Pond North	4/18/2017	0.0067 U	-	-	detection frequency
Trichloroethene	Pond North	7/12/2017	0.0071	-	-	detection frequency
Trichloroethene	Pond North	7/12/2017	0.0073	-	-	detection frequency
Trichloroethene	Pond North	10/10/2017	0.01 U	-	-	-
Trichloroethene	Pond North	4/9/2018	0.011 U	-	-	detection frequency
Trichloroethene	Pond North	4/9/2018	0.01 U	-	-	detection frequency
Trichloroethene	Pond North	7/5/2018	0.0063 U	-	-	detection frequency
Trichloroethene	Pond North	10/3/2018	0.0067 U	-	-	-
Trichloroethene	Pond North	10/3/2018	0.0067 U	-	-	-
Trichloroethene	Pond North	04/25/2019	0.0011J	-	-	-
Trichloroethene	Pond North	10/08/2019	0.005U	-	-	detection frequency
Trichloroethene	Pond North	10/08/2019	0.005U	-	-	detection frequency
Trichloroethene	Pond North	11/03/2020	0.01U	-	-	-
Trichloroethene	Pond North	11/03/2020	0.01U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-2	10/10/2017	0.0014	-	-	-
cis-1,2-Dichloroethene	MW-2	10/10/2018	0.001 U	-	-	-

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cis-1,2-Dichloroethene	MW-2	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 3	4/28/2015	4.5	-	-	detection frequency
cis-1,2-Dichloroethene	MW 3	10/14/2015	1.4	-	-	-
cis-1,2-Dichloroethene	MW 3	4/20/2016	7.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 3	10/21/2016	1.9	-	-	-
cis-1,2-Dichloroethene	MW 3	4/18/2017	7.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 3	10/10/2017	1.6	-	-	-
cis-1,2-Dichloroethene	MW 3	4/11/2018	3.2	-	-	detection frequency
cis-1,2-Dichloroethene	MW 3	10/10/2018	4.8	-	-	-
cis-1,2-Dichloroethene	MW 3	04/25/2019	2.5	-	-	-
cis-1,2-Dichloroethene	MW 3	11/03/2020	0.63	-	-	-
cis-1,2-Dichloroethene	MW-4	4/27/2015	10	-	-	detection frequency
cis-1,2-Dichloroethene	MW-4	10/14/2015	12	-	-	-
cis-1,2-Dichloroethene	MW-4	4/22/2016	9.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW-4	10/21/2016	7.9	-	-	-
cis-1,2-Dichloroethene	MW-4	4/18/2017	8.6	-	-	detection frequency
cis-1,2-Dichloroethene	MW-4	10/10/2017	8.6/8	-	-	-
cis-1,2-Dichloroethene	MW-4	4/12/2018	8.8	-	-	detection frequency
cis-1,2-Dichloroethene	MW-4	4/12/2018	8.3	-	-	detection frequency
cis-1,2-Dichloroethene	MW-4	10/10/2018	8.9	-	-	-
cis-1,2-Dichloroethene	MW-4	04/25/2019	6.8	-	-	-
cis-1,2-Dichloroethene	MW-4	11/03/2020	7.8	-	-	-
cis-1,2-Dichloroethene	MW-7	10/10/2017	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	10/10/2018	0.00018 J / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW-7	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9	-	-	detection frequency
cis-1,2-Dichloroethene	MW 8	4/20/2016	4.9	-	-	detection frequency
cis-1,2-Dichloroethene	MW 8	10/21/2016	4.3	-	-	-
cis-1,2-Dichloroethene	MW 8	4/18/2017	3.1	-	-	detection frequency
cis-1,2-Dichloroethene	MW 8	10/10/2017	4	-	-	-
cis-1,2-Dichloroethene	MW 8	4/10/2018	3.6	-	-	detection frequency
cis-1,2-Dichloroethene	MW 8	10/10/2018	2.2	-	-	-
cis-1,2-Dichloroethene	MW 8	04/25/2019	1.4	-	-	-
cis-1,2-Dichloroethene	MW 8	11/03/2020	2.2	-	-	-
cis-1,2-Dichloroethene	MW 12	4/21/2016	0.13	-	-	detection frequency
cis-1,2-Dichloroethene	MW 12	10/21/2016	0.12	-	-	-
cis-1,2-Dichloroethene	MW 12	4/19/2017	0.11	-	-	detection frequency
cis-1,2-Dichloroethene	MW 12	10/10/2017	0.1	-	-	-
cis-1,2-Dichloroethene	MW 12	4/11/2018	0.1	-	-	detection frequency
cis-1,2-Dichloroethene	MW 12	10/10/2018	0.08	-	-	-
cis-1,2-Dichloroethene	MW 12	04/25/2019	0.09	-	-	-
cis-1,2-Dichloroethene	MW 12	11/03/2020	0.072	-	-	-
cis-1,2-Dichloroethene	MW 14	4/19/2016	4.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 14	10/21/2016	4.4	-	-	-
cis-1,2-Dichloroethene	MW 14	4/18/2017	4.1	-	-	detection frequency
cis-1,2-Dichloroethene	MW 14	4/18/2017	3.9	-	-	detection frequency
cis-1,2-Dichloroethene	MW 14	10/10/2017	4.1/4	-	-	-
cis-1,2-Dichloroethene	MW 14	4/10/2018	4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 14	10/10/2018	4.1	-	-	-
cis-1,2-Dichloroethene	MW 14	04/25/2019	3.2	-	-	-
cis-1,2-Dichloroethene	MW 14	11/03/2020	3B	-	-	-
cis-1,2-Dichloroethene	MW 15	10/14/2015	4.4	-	-	-
cis-1,2-Dichloroethene	MW 15	10/21/2016	1.7	-	-	-

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cis-1,2-Dichloroethene	MW 15	10/10/2017	3.5	-	-	-
cis-1,2-Dichloroethene	MW 15	10/10/2018	5.4	-	-	-
cis-1,2-Dichloroethene	MW 15	11/03/2020	1.9	-	-	-
cis-1,2-Dichloroethene	MW 16	10/14/2015	0.00026 J	-	-	-
cis-1,2-Dichloroethene	MW 16	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/10/2017	0.0019	-	-	-
cis-1,2-Dichloroethene	MW 16	10/10/2018	0.005 U	-	-	-
cis-1,2-Dichloroethene	MW 16	10/08/2019	9.6	-	-	detection frequency
cis-1,2-Dichloroethene	MW 16	11/03/2020	5.6B	-	-	-
cis-1,2-Dichloroethene	MW 21	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 21	10/10/2018	0.00046 J	-	-	-
cis-1,2-Dichloroethene	MW 21	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2016	0.77	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/21/2016	0.86	-	-	-
cis-1,2-Dichloroethene	MW 28	4/19/2017	0.85	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/10/2017	0.92	-	-	-
cis-1,2-Dichloroethene	MW 28	4/12/2018	0.97	-	-	detection frequency
cis-1,2-Dichloroethene	MW 28	10/10/2018	1 / 1	-	-	-
cis-1,2-Dichloroethene	MW 28	04/25/2019	1	-	-	-
cis-1,2-Dichloroethene	MW 28	11/03/2020	1.3	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/20/2016	15	-	-	detection frequency
cis-1,2-Dichloroethene	MW 31R	10/21/2016	18 / 18	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/19/2017	18	-	-	detection frequency
cis-1,2-Dichloroethene	MW 31R	10/10/2017	69	-	-	-
cis-1,2-Dichloroethene	MW 31R	4/10/2018	20	-	-	detection frequency
cis-1,2-Dichloroethene	MW 31R	10/10/2018	33 / 32	-	-	-
cis-1,2-Dichloroethene	MW 31R	04/25/2019	95	-	-	-
cis-1,2-Dichloroethene	MW 31R	11/03/2020	16	-	-	-
cis-1,2-Dichloroethene	MW 37	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 37	11/03/2020	ND(0.001)J	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2016	7	-	-	detection frequency
cis-1,2-Dichloroethene	MW 40	10/21/2016	5	-	-	-
cis-1,2-Dichloroethene	MW 40	4/19/2017	5.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 40	10/10/2017	5.4/5.5	-	-	-
cis-1,2-Dichloroethene	MW 40	4/13/2018	5.8	-	-	detection frequency
cis-1,2-Dichloroethene	MW 40	10/10/2018	5.4	-	-	-
cis-1,2-Dichloroethene	MW 40	04/25/2019	4.6	-	-	-
cis-1,2-Dichloroethene	MW 40	11/03/2020	3.1	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2016	6.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 41	10/21/2016	5.2	-	-	-
cis-1,2-Dichloroethene	MW 41	4/19/2017	6	-	-	detection frequency
cis-1,2-Dichloroethene	MW 41	10/10/2017	5.4	-	-	-
cis-1,2-Dichloroethene	MW 41	4/13/2018	5.8	-	-	detection frequency
cis-1,2-Dichloroethene	MW 41	10/10/2018	4.8	-	-	-
cis-1,2-Dichloroethene	MW 41	04/25/2019	5.1/5.1	-	-	-
cis-1,2-Dichloroethene	MW 41	11/03/2020	4.2B	-	-	-
cis-1,2-Dichloroethene	MW 42	4/19/2016	4.1	-	-	detection frequency
cis-1,2-Dichloroethene	MW 42	10/21/2016	3.2	-	-	-

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cis-1,2-Dichloroethene	MW 42	4/19/2017	2.9	-	-	detection frequency
cis-1,2-Dichloroethene	MW 42	10/10/2017	3.7	-	-	-
cis-1,2-Dichloroethene	MW 42	4/13/2018	3.9	-	-	detection frequency
cis-1,2-Dichloroethene	MW 42	10/10/2018	3.5	-	-	-
cis-1,2-Dichloroethene	MW 42	04/25/2019	2.4	-	-	-
cis-1,2-Dichloroethene	MW 42	11/03/2020	2.9B	-	-	-
cis-1,2-Dichloroethene	MW 46	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 46	10/08/2019	0.0005J	-	-	detection frequency
cis-1,2-Dichloroethene	MW 46	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 49	4/21/2016	0.83	-	-	detection frequency
cis-1,2-Dichloroethene	MW 49	4/11/2018	0.89	-	-	detection frequency
cis-1,2-Dichloroethene	MW 49	10/10/2018	0.89	-	-	-
cis-1,2-Dichloroethene	MW 49	04/25/2019	0.83	-	-	-
cis-1,2-Dichloroethene	MW 49	10/08/2019	0.69/0.70	-	-	detection frequency
cis-1,2-Dichloroethene	MW 49	11/03/2020	0.6	-	-	-
cis-1,2-Dichloroethene	MW 51	4/20/2016	0.011	-	-	detection frequency
cis-1,2-Dichloroethene	MW 51	10/21/2016	0.012	-	-	-
cis-1,2-Dichloroethene	MW 51	4/18/2017	0.015	-	-	detection frequency
cis-1,2-Dichloroethene	MW 51	10/10/2017	0.028	-	-	-
cis-1,2-Dichloroethene	MW 51	4/10/2018	0.032	-	-	detection frequency
cis-1,2-Dichloroethene	MW 51	4/10/2018	0.034	-	-	detection frequency
cis-1,2-Dichloroethene	MW 51	10/10/2018	0.079	-	-	-
cis-1,2-Dichloroethene	MW 51	04/25/2019	0.15/0.16	-	-	-
cis-1,2-Dichloroethene	MW 56	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 56	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/21/2016	0.0042	-	-	-
cis-1,2-Dichloroethene	MW 57	10/10/2017	0.0033 U	-	-	-
cis-1,2-Dichloroethene	MW 57	10/10/2018	0.0082 U	-	-	-
cis-1,2-Dichloroethene	MW 57	11/03/2020	0.18	-	-	-
cis-1,2-Dichloroethene	MW 58	10/14/2015	0.028 / 0.028	-	-	-
cis-1,2-Dichloroethene	MW 58	10/21/2016	1.1	-	-	-
cis-1,2-Dichloroethene	MW 58	10/10/2017	2.2	-	-	-
cis-1,2-Dichloroethene	MW 58	10/10/2018	3	-	-	-
cis-1,2-Dichloroethene	MW 58	11/03/2020	2.9/2.9	-	-	-
cis-1,2-Dichloroethene	MW 61	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/21/2016	0.00035 J	-	-	-
cis-1,2-Dichloroethene	MW 61	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 61	11/03/2020	0.001 UJB/0.001 UJB	-	-	-
cis-1,2-Dichloroethene	MW 64	10/14/2015	0.25	-	-	-
cis-1,2-Dichloroethene	MW 64	10/21/2016	0.062	-	-	-
cis-1,2-Dichloroethene	MW 64	10/10/2017	0.23	-	-	-
cis-1,2-Dichloroethene	MW 64	10/10/2018	0.21 / 0.21	-	-	-
cis-1,2-Dichloroethene	MW 64	11/03/2020	0.31B/0.32B	-	-	-
cis-1,2-Dichloroethene	MW 65	10/14/2015	0.051	-	-	-
cis-1,2-Dichloroethene	MW 65	10/21/2016	0.028	-	-	-

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cis-1,2-Dichloroethene	MW 65	10/10/2017	0.02	-	-	-
cis-1,2-Dichloroethene	MW 65	10/10/2018	0.015	-	-	-
cis-1,2-Dichloroethene	MW 65	11/03/2020	0.0082B	-	-	-
cis-1,2-Dichloroethene	MW 66	4/20/2016	1.1	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/21/2016	1.8	-	-	-
cis-1,2-Dichloroethene	MW 66	4/19/2017	2.2	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/10/2017	3	-	-	-
cis-1,2-Dichloroethene	MW 66	4/11/2018	2.6	-	-	detection frequency
cis-1,2-Dichloroethene	MW 66	10/10/2018	3.4	-	-	-
cis-1,2-Dichloroethene	MW 66	04/25/2019	3.3	-	-	-
cis-1,2-Dichloroethene	MW 66	11/03/2020	2.3B	-	-	-
cis-1,2-Dichloroethene	MW 68	4/19/2016	4.5	-	-	detection frequency
cis-1,2-Dichloroethene	MW 68	10/21/2016	3.5	-	-	-
cis-1,2-Dichloroethene	MW 68	4/17/2017	3.7	-	-	detection frequency
cis-1,2-Dichloroethene	MW 68	10/10/2017	4.2	-	-	-
cis-1,2-Dichloroethene	MW 68	4/11/2018	3.7	-	-	detection frequency
cis-1,2-Dichloroethene	MW 68	10/10/2018	4.4	-	-	-
cis-1,2-Dichloroethene	MW 68	04/25/2019	4.4	-	-	-
cis-1,2-Dichloroethene	MW 68	11/03/2020	3/3	-	-	-
cis-1,2-Dichloroethene	MW 75	10/21/2016	0.0007 J	-	-	-
cis-1,2-Dichloroethene	MW 75	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 75	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/10/2017	0.0027	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	10/10/2018	0.0028	-	-	-
cis-1,2-Dichloroethene	MW 76/MW 76R-17	11/03/2020	0.0032B	-	-	-
cis-1,2-Dichloroethene	MW 79	4/19/2016	2.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 79	10/21/2016	2.1	-	-	-
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3	-	-	detection frequency
cis-1,2-Dichloroethene	MW 79	4/17/2017	2.3	-	-	detection frequency
cis-1,2-Dichloroethene	MW 79	10/10/2017	2.5	-	-	-
cis-1,2-Dichloroethene	MW 79	4/10/2018	3.5	-	-	detection frequency
cis-1,2-Dichloroethene	MW 79	10/10/2018	2.4	-	-	-
cis-1,2-Dichloroethene	MW 79	04/25/2019	2.2	-	-	-
cis-1,2-Dichloroethene	MW 79	11/03/2020	1.5B	-	-	-
cis-1,2-Dichloroethene	MW 80	10/14/2015	0.0012 J	-	-	-
cis-1,2-Dichloroethene	MW 80	10/21/2016	0.025	-	-	-
cis-1,2-Dichloroethene	MW 80	10/10/2017	0.0086	-	-	-
cis-1,2-Dichloroethene	MW 80	10/10/2018	0.015	-	-	-
cis-1,2-Dichloroethene	MW 80	11/03/2020	0.013B	-	-	-
cis-1,2-Dichloroethene	MW 81	10/14/2015	0.19	-	-	-
cis-1,2-Dichloroethene	MW 81	10/21/2016	0.077	-	-	-
cis-1,2-Dichloroethene	MW 81	10/10/2017	0.096	-	-	-
cis-1,2-Dichloroethene	MW 81	10/10/2018	0.078	-	-	-
cis-1,2-Dichloroethene	MW 81	11/03/2020	0.057	-	-	-
cis-1,2-Dichloroethene	MW 82	10/14/2015	0.00041 J	-	-	-
cis-1,2-Dichloroethene	MW 82	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	10/10/2017	0.002/0.002	-	-	-
cis-1,2-Dichloroethene	MW 82	10/10/2018	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 82	11/03/2020	ND(0.001)JB	-	-	-
cis-1,2-Dichloroethene	MW 83	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/21/2016	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	10/10/2017	0.00041 J	-	-	-

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cis-1,2-Dichloroethene	MW 83	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 83	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/14/2015	0.00027 J	-	-	-
cis-1,2-Dichloroethene	MW 84	10/21/2016	0.001	-	-	-
cis-1,2-Dichloroethene	MW 84	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 84	10/08/2019	0.001U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 84	11/03/2020	ND(0.001)JB	-	-	-
cis-1,2-Dichloroethene	MW 85	4/22/2016	9.9	-	-	detection frequency
cis-1,2-Dichloroethene	MW 85	4/22/2016	10	-	-	detection frequency
cis-1,2-Dichloroethene	MW 85	10/21/2016	8.4	-	-	-
cis-1,2-Dichloroethene	MW 85	4/18/2017	8.4	-	-	detection frequency
cis-1,2-Dichloroethene	MW 85	10/10/2017	8.6	-	-	-
cis-1,2-Dichloroethene	MW 85	4/12/2018	7.3	-	-	detection frequency
cis-1,2-Dichloroethene	MW 85	10/10/2018	8	-	-	-
cis-1,2-Dichloroethene	MW 85	04/25/2019	4.4	-	-	-
cis-1,2-Dichloroethene	MW 85	11/03/2020	6.1	-	-	-
cis-1,2-Dichloroethene	MW 86	10/14/2015	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/21/2016	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 86	11/03/2020	ND(0.001)J	-	-	-
cis-1,2-Dichloroethene	MW 88	10/14/2015	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/21/2016	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	10/10/2018	0.001 U / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 88	11/03/2020	ND(0.001)J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 89-11	4/20/2016	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 89-11	10/21/2016	0.0003 J / 0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/19/2017	0.0033 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 89-11	10/10/2017	0.00059 J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	4/11/2018	0.001 U	-	-	detection frequency
cis-1,2-Dichloroethene	MW 89-11	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW 89-11	04/25/2019	0.00037J	-	-	-
cis-1,2-Dichloroethene	MW 89-11	11/03/2020	ND(0.001)J	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/21/2016	0.0012	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/10/2017	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW97R-16	10/10/2018	0.001 U	-	-	-
cis-1,2-Dichloroethene	MW97R-16	11/03/2020	0.001U	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/22/2016	0.077	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/19/2016	0.055	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/21/2016	0.036	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/21/2016	0.034	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/18/2017	0.059	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	4/18/2017	0.059	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/12/2017	0.11	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/10/2017	0.052	-	-	-
cis-1,2-Dichloroethene	Pond Intake	4/9/2018	0.12	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.077	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	7/5/2018	0.072	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	10/10/2018	0.1	-	-	-
cis-1,2-Dichloroethene	Pond Intake	04/25/2019	0.12	-	-	-

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cis-1,2-Dichloroethene	Pond Intake	04/25/2019	0.1	-	-	-
cis-1,2-Dichloroethene	Pond Intake	10/08/2019	0.061	-	-	detection frequency
cis-1,2-Dichloroethene	Pond Intake	11/03/2020	0.076	-	-	-
cis-1,2-Dichloroethene	Pond North	4/22/2016	0.12	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.09	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/19/2016	0.081	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/21/2016	0.5	-	-	-
cis-1,2-Dichloroethene	Pond North	4/18/2017	0.21	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.11	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/12/2017	0.1	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/10/2017	0.35	-	-	-
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.21	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	4/9/2018	0.22	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	7/5/2018	0.16	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/10/2018	0.13	-	-	-
cis-1,2-Dichloroethene	Pond North	10/10/2018	0.13	-	-	-
cis-1,2-Dichloroethene	Pond North	04/25/2019	0.18	-	-	-
cis-1,2-Dichloroethene	Pond North	10/08/2019	0.1	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	10/08/2019	0.1	-	-	detection frequency
cis-1,2-Dichloroethene	Pond North	11/03/2020	0.2	-	-	-
cis-1,2-Dichloroethene	Pond North	11/03/2020	0.2	-	-	-
Vinyl chloride	MW-2	10/19/2015	0.001 U	-	-	-
Vinyl chloride	MW-2	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW-2	10/17/2017	0.001 U	-	-	-
Vinyl chloride	MW-2	10/8/2018	0.001 U	-	-	-
Vinyl chloride	MW-2	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 3	4/28/2015	0.33 U	-	-	detection frequency
Vinyl chloride	MW 3	10/14/2015	0.062 J	-	-	-
Vinyl chloride	MW 3	4/20/2016	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	10/25/2016	0.25 U	-	-	-
Vinyl chloride	MW 3	4/18/2017	0.25 U	-	-	detection frequency
Vinyl chloride	MW 3	10/12/2017	0.1 U	-	-	-
Vinyl chloride	MW 3	4/11/2018	0.5 U	-	-	detection frequency
Vinyl chloride	MW 3	10/3/2018	0.25 U	-	-	-
Vinyl chloride	MW 3	04/25/2019	0.2U	-	-	-
Vinyl chloride	MW 3	11/03/2020	0.026	-	-	-
Vinyl chloride	MW-4	4/27/2015	0.42 J	-	-	detection frequency
Vinyl chloride	MW-4	10/19/2015	0.47	-	-	-
Vinyl chloride	MW-4	4/22/2016	0.53	-	-	detection frequency
Vinyl chloride	MW-4	10/24/2016	0.63	-	-	-
Vinyl chloride	MW-4	4/18/2017	0.84	-	-	detection frequency
Vinyl chloride	MW-4	10/17/2017	0.73	-	-	-
Vinyl chloride	MW-4	10/17/2017	0.66	-	-	-
Vinyl chloride	MW-4	4/12/2018	0.68	-	-	detection frequency
Vinyl chloride	MW-4	4/12/2018	0.65	-	-	detection frequency
Vinyl chloride	MW-4	10/8/2018	0.68	-	-	-
Vinyl chloride	MW-4	04/25/2019	0.5	-	-	-
Vinyl chloride	MW-4	11/03/2020	0.56	-	-	-
Vinyl chloride	MW-7	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW-7	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW-7	10/9/2018	0.001 U	-	-	-
Vinyl chloride	MW-7	10/9/2018	0.001 U	-	-	-

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Vinyl chloride	MW-7	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 8	4/28/2015	1.9	-	-	detection frequency
Vinyl chloride	MW 8	10/14/2015	1.5	-	-	-
Vinyl chloride	MW 8	4/20/2016	2.1	-	-	detection frequency
Vinyl chloride	MW 8	4/20/2016	2	-	-	detection frequency
Vinyl chloride	MW 8	10/21/2016	1.3	-	-	-
Vinyl chloride	MW 8	4/18/2017	1.6	-	-	detection frequency
Vinyl chloride	MW 8	10/12/2017	1.3	-	-	-
Vinyl chloride	MW 8	4/10/2018	0.62	-	-	detection frequency
Vinyl chloride	MW 8	10/2/2018	0.64	-	-	-
Vinyl chloride	MW 8	04/25/2019	0.87	-	-	-
Vinyl chloride	MW 8	11/03/2020	0.71	-	-	-
Vinyl chloride	MW 12	4/27/2015	0.0057 U	-	-	detection frequency
Vinyl chloride	MW 12	10/9/2015	0.005 U	-	-	-
Vinyl chloride	MW 12	4/21/2016	0.005 U	-	-	detection frequency
Vinyl chloride	MW 12	10/25/2016	0.005 U	-	-	-
Vinyl chloride	MW 12	4/19/2017	0.0025 U	-	-	detection frequency
Vinyl chloride	MW 12	10/6/2017	0.0033 U	-	-	-
Vinyl chloride	MW 12	4/11/2018	0.0067 U	-	-	detection frequency
Vinyl chloride	MW 12	10/4/2018	0.005 U	-	-	-
Vinyl chloride	MW 12	04/25/2019	0.0033U	-	-	-
Vinyl chloride	MW 12	11/03/2020	0.0005J	-	-	-
Vinyl chloride	MW 14	4/29/2015	0.15 J	-	-	detection frequency
Vinyl chloride	MW 14	4/29/2015	0.15 J	-	-	detection frequency
Vinyl chloride	MW 14	10/12/2015	0.14 J	-	-	-
Vinyl chloride	MW 14	4/19/2016	0.14 J	-	-	detection frequency
Vinyl chloride	MW 14	10/25/2016	0.12 J	-	-	-
Vinyl chloride	MW 14	4/18/2017	0.13	-	-	detection frequency
Vinyl chloride	MW 14	4/18/2017	0.13	-	-	detection frequency
Vinyl chloride	MW 14	10/13/2017	0.15 J	-	-	-
Vinyl chloride	MW 14	10/13/2017	0.15 J	-	-	-
Vinyl chloride	MW 14	4/10/2018	0.11 J	-	-	detection frequency
Vinyl chloride	MW 14	10/3/2018	0.13 J	-	-	-
Vinyl chloride	MW 14	04/25/2019	0.1J	-	-	-
Vinyl chloride	MW 14	11/03/2020	0.13	-	-	-
Vinyl chloride	MW 15	10/14/2015	0.094 J	-	-	-
Vinyl chloride	MW 15	10/21/2016	0.1 U	-	-	-
Vinyl chloride	MW 15	10/11/2017	0.052 J	-	-	-
Vinyl chloride	MW 15	10/2/2018	0.063 J	-	-	-
Vinyl chloride	MW 15	11/03/2020	0.041	-	-	-
Vinyl chloride	MW 16	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 16	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 16	10/12/2017	0.03	-	-	-
Vinyl chloride	MW 16	10/3/2018	0.22	-	-	-
Vinyl chloride	MW 16	10/08/2019	0.63U	-	-	-
Vinyl chloride	MW 16	11/03/2020	0.019	-	-	-
Vinyl chloride	MW 21	10/14/2015	0.001 U	-	-	-
Vinyl chloride	MW 21	10/21/2016	0.001 U	-	-	-
Vinyl chloride	MW 21	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 21	10/3/2018	0.001 U	-	-	-
Vinyl chloride	MW 21	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 28	4/29/2015	0.13	-	-	detection frequency
Vinyl chloride	MW 28	10/12/2015	0.21	-	-	-

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Vinyl chloride	MW 28	4/19/2016	0.15	-	-	detection frequency
Vinyl chloride	MW 28	10/22/2016	0.19	-	-	-
Vinyl chloride	MW 28	4/19/2017	0.18	-	-	detection frequency
Vinyl chloride	MW 28	10/9/2017	0.2	-	-	-
Vinyl chloride	MW 28	4/12/2018	0.17	-	-	detection frequency
Vinyl chloride	MW 28	10/4/2018	0.15	-	-	-
Vinyl chloride	MW 28	10/4/2018	0.16	-	-	-
Vinyl chloride	MW 28	04/25/2019	0.13	-	-	-
Vinyl chloride	MW 28	11/03/2020	0.18	-	-	-
Vinyl chloride	MW 31R	4/28/2015	0.63	-	-	detection frequency
Vinyl chloride	MW 31R	10/14/2015	1.7	-	-	-
Vinyl chloride	MW 31R	4/20/2016	1.5	-	-	detection frequency
Vinyl chloride	MW 31R	10/21/2016	3.4	-	-	-
Vinyl chloride	MW 31R	10/21/2016	3.4	-	-	-
Vinyl chloride	MW 31R	4/19/2017	2	-	-	detection frequency
Vinyl chloride	MW 31R	10/12/2017	9	-	-	-
Vinyl chloride	MW 31R	4/10/2018	1.1	-	-	detection frequency
Vinyl chloride	MW 31R	10/2/2018	2.4	-	-	-
Vinyl chloride	MW 31R	10/2/2018	2.1	-	-	-
Vinyl chloride	MW 31R	04/25/2019	5.7	-	-	-
Vinyl chloride	MW 31R	11/03/2020	3.5	-	-	-
Vinyl chloride	MW 37	10/9/2015	0.001 U	-	-	-
Vinyl chloride	MW 37	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 37	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 37	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 37	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 40	4/28/2015	0.43	-	-	detection frequency
Vinyl chloride	MW 40	10/13/2015	0.44	-	-	-
Vinyl chloride	MW 40	4/19/2016	0.36	-	-	detection frequency
Vinyl chloride	MW 40	10/20/2016	0.31	-	-	-
Vinyl chloride	MW 40	4/19/2017	0.26	-	-	detection frequency
Vinyl chloride	MW 40	10/10/2017	0.17	-	-	-
Vinyl chloride	MW 40	10/10/2017	0.18	-	-	-
Vinyl chloride	MW 40	4/13/2018	0.18 J	-	-	detection frequency
Vinyl chloride	MW 40	10/3/2018	0.22	-	-	-
Vinyl chloride	MW 40	04/25/2019	0.24	-	-	-
Vinyl chloride	MW 40	11/03/2020	0.22	-	-	-
Vinyl chloride	MW 41	4/29/2015	0.46	-	-	detection frequency
Vinyl chloride	MW 41	10/12/2015	0.39	-	-	-
Vinyl chloride	MW 41	10/12/2015	0.39	-	-	-
Vinyl chloride	MW 41	4/19/2016	0.45	-	-	detection frequency
Vinyl chloride	MW 41	10/23/2016	0.35	-	-	-
Vinyl chloride	MW 41	4/19/2017	0.44	-	-	detection frequency
Vinyl chloride	MW 41	10/9/2017	0.38	-	-	-
Vinyl chloride	MW 41	4/13/2018	0.3 J	-	-	detection frequency
Vinyl chloride	MW 41	10/4/2018	0.21 J	-	-	-
Vinyl chloride	MW 41	04/25/2019	0.35/0.34	-	-	-
Vinyl chloride	MW 41	11/03/2020	0.24	-	-	-
Vinyl chloride	MW 42	4/29/2015	0.13 J	-	-	detection frequency
Vinyl chloride	MW 42	10/12/2015	0.14 J	-	-	-
Vinyl chloride	MW 42	4/19/2016	0.092 J	-	-	detection frequency
Vinyl chloride	MW 42	10/23/2016	0.1 J	-	-	-
Vinyl chloride	MW 42	4/19/2017	0.22	-	-	detection frequency

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Vinyl chloride	MW 42	10/9/2017	0.26	-	-	-
Vinyl chloride	MW 42	4/13/2018	0.11 J	-	-	detection frequency
Vinyl chloride	MW 42	10/4/2018	0.2 U	-	-	-
Vinyl chloride	MW 42	04/25/2019	0.087J	-	-	-
Vinyl chloride	MW 42	11/03/2020	0.22	-	-	-
Vinyl chloride	MW 46	10/9/2015	0.001 U	-	-	-
Vinyl chloride	MW 46	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 46	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 46	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 46	10/08/2019	0.001U	-	-	-
Vinyl chloride	MW 46	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 49	4/28/2015	0.033 U	-	-	detection frequency
Vinyl chloride	MW 49	10/13/2015	0.012 J	-	-	-
Vinyl chloride	MW 49	4/21/2016	0.011 J	-	-	detection frequency
Vinyl chloride	MW 49	4/11/2018	0.05 U	-	-	detection frequency
Vinyl chloride	MW 49	10/3/2018	0.04 U	-	-	-
Vinyl chloride	MW 49	04/25/2019	0.033U	-	-	-
Vinyl chloride	MW 49	10/08/2019	0.05U/0.05U	-	-	detection frequency
Vinyl chloride	MW 49	11/03/2020	0.033	-	-	-
Vinyl chloride	MW 51	4/28/2015	0.0024 J	-	-	detection frequency
Vinyl chloride	MW 51	4/28/2015	0.0026 J	-	-	detection frequency
Vinyl chloride	MW 51	10/9/2015	0.0079	-	-	-
Vinyl chloride	MW 51	4/20/2016	0.0035 J	-	-	detection frequency
Vinyl chloride	MW 51	10/23/2016	0.0053 J	-	-	-
Vinyl chloride	MW 51	4/18/2017	0.0041	-	-	detection frequency
Vinyl chloride	MW 51	10/16/2017	0.0073	-	-	-
Vinyl chloride	MW 51	4/10/2018	0.0038	-	-	detection frequency
Vinyl chloride	MW 51	4/10/2018	0.0046	-	-	detection frequency
Vinyl chloride	MW 51	10/4/2018	0.0035 J	-	-	-
Vinyl chloride	MW 51	04/25/2019	0.0053J/0.0066	-	-	-
Vinyl chloride	MW 51	11/03/2020	-	-	-	-
Vinyl chloride	MW 56	10/19/2015	0.001 U	-	-	-
Vinyl chloride	MW 56	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW 56	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 56	10/5/2018	0.001 U	-	-	-
Vinyl chloride	MW 56	11/03/2020	0.00066J	-	-	-
Vinyl chloride	MW 57	10/19/2015	0.0037	-	-	-
Vinyl chloride	MW 57	10/24/2016	0.046	-	-	-
Vinyl chloride	MW 57	10/18/2017	0.096	-	-	-
Vinyl chloride	MW 57	10/8/2018	0.02	-	-	-
Vinyl chloride	MW 57	11/03/2020	0.98	-	-	-
Vinyl chloride	MW 58	10/20/2015	0.16	-	-	-
Vinyl chloride	MW 58	10/20/2015	0.15	-	-	-
Vinyl chloride	MW 58	10/25/2016	0.085	-	-	-
Vinyl chloride	MW 58	10/17/2017	0.059	-	-	-
Vinyl chloride	MW 58	10/8/2018	0.064 J	-	-	-
Vinyl chloride	MW 58	11/03/2020	0.13J/0.12J	-	-	-
Vinyl chloride	MW 61	10/9/2015	0.00068 J	-	-	-
Vinyl chloride	MW 61	10/22/2016	0.00069 J	-	-	-
Vinyl chloride	MW 61	10/9/2017	0.001 U	-	-	-
Vinyl chloride	MW 61	10/4/2018	0.0013 **	yes	-	-
Vinyl chloride	MW 61	11/03/2020	0.00077J/0.0011	-	-	-
Vinyl chloride	MW 64	10/13/2015	0.03	-	-	-

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Vinyl chloride	MW 64	10/20/2016	0.039	-	-	-
Vinyl chloride	MW 64	10/10/2017	0.049	-	-	-
Vinyl chloride	MW 64	10/3/2018	0.083 **	yes	-	-
Vinyl chloride	MW 64	10/3/2018	0.089 **	yes	-	-
Vinyl chloride	MW 64	11/03/2020	0.042/0.042	-	-	-
Vinyl chloride	MW 65	10/8/2015	0.0012 J	-	-	-
Vinyl chloride	MW 65	10/19/2016	0.0014	-	-	-
Vinyl chloride	MW 65	10/6/2017	0.00074 J	-	-	-
Vinyl chloride	MW 65	10/4/2018	0.00074 J	-	-	-
Vinyl chloride	MW 65	11/03/2020	0.00049J	-	-	-
Vinyl chloride	MW 66	4/27/2015	0.11	-	-	detection frequency
Vinyl chloride	MW 66	10/13/2015	0.13	-	-	-
Vinyl chloride	MW 66	4/20/2016	0.14	-	-	detection frequency
Vinyl chloride	MW 66	10/20/2016	0.14	-	-	-
Vinyl chloride	MW 66	4/19/2017	0.11	-	-	detection frequency
Vinyl chloride	MW 66	10/10/2017	0.075	-	-	-
Vinyl chloride	MW 66	4/11/2018	0.2 U	-	-	detection frequency
Vinyl chloride	MW 66	10/3/2018	0.2 U	-	-	-
Vinyl chloride	MW 66	04/25/2019	0.036J	-	-	-
Vinyl chloride	MW 66	11/03/2020	0.018	-	-	-
Vinyl chloride	MW 68	4/28/2015	0.18 J	-	-	detection frequency
Vinyl chloride	MW 68	4/28/2015	0.17 J	-	-	detection frequency
Vinyl chloride	MW 68	10/13/2015	0.16 J	-	-	-
Vinyl chloride	MW 68	10/13/2015	0.12 J	-	-	-
Vinyl chloride	MW 68	4/19/2016	0.15 J	-	-	detection frequency
Vinyl chloride	MW 68	10/20/2016	0.15 J	-	-	-
Vinyl chloride	MW 68	4/17/2017	0.13	-	-	detection frequency
Vinyl chloride	MW 68	10/11/2017	0.16	-	-	-
Vinyl chloride	MW 68	4/11/2018	0.099 J	-	-	detection frequency
Vinyl chloride	MW 68	10/2/2018	0.11 J	-	-	-
Vinyl chloride	MW 68	04/25/2019	0.16J	-	-	-
Vinyl chloride	MW 68	11/03/2020	0.22/0.23	-	-	-
Vinyl chloride	MW 75	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 75	10/16/2017	0.001 U	-	-	-
Vinyl chloride	MW 75	10/2/2018	0.001 U	-	-	-
Vinyl chloride	MW 75	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	10/2/2018	0.001 U	-	-	-
Vinyl chloride	MW 76/MW 76R-17	11/03/2020	0.0016	-	-	-
Vinyl chloride	MW 79	4/29/2015	0.15	-	-	detection frequency
Vinyl chloride	MW 79	10/13/2015	0.13	-	-	-
Vinyl chloride	MW 79	4/19/2016	0.18	-	-	detection frequency
Vinyl chloride	MW 79	10/21/2016	0.15	-	-	-
Vinyl chloride	MW 79	4/17/2017	0.19	-	-	detection frequency
Vinyl chloride	MW 79	4/17/2017	0.19	-	-	detection frequency
Vinyl chloride	MW 79	10/11/2017	0.2	-	-	-
Vinyl chloride	MW 79	4/10/2018	0.31	-	-	detection frequency
Vinyl chloride	MW 79	10/2/2018	0.31	-	-	-
Vinyl chloride	MW 79	04/25/2019	0.6	-	-	-
Vinyl chloride	MW 79	11/03/2020	0.44	-	-	-
Vinyl chloride	MW 80	10/8/2015	0.04	-	-	-
Vinyl chloride	MW 80	10/22/2016	0.049	-	-	-
Vinyl chloride	MW 80	10/6/2017	0.041	-	-	-

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Vinyl chloride	MW 80	10/2/2018	0.051	-	-	-
Vinyl chloride	MW 80	11/03/2020	0.063	-	-	-
Vinyl chloride	MW 81	10/8/2015	0.062	-	-	-
Vinyl chloride	MW 81	10/22/2016	0.026	-	-	-
Vinyl chloride	MW 81	10/6/2017	0.042	-	-	-
Vinyl chloride	MW 81	10/9/2018	0.027	-	-	-
Vinyl chloride	MW 81	11/03/2020	0.037	-	-	-
Vinyl chloride	MW 82	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 82	10/23/2016	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2017	0.001 U	-	-	-
Vinyl chloride	MW 82	10/12/2017	0.001 U	-	-	-
Vinyl chloride	MW 82	10/10/2018	0.001 U	-	-	-
Vinyl chloride	MW 82	10/10/2018	0.001 U	-	-	-
Vinyl chloride	MW 82	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 83	10/9/2015	0.0037	-	-	-
Vinyl chloride	MW 83	10/22/2016	0.0053	-	-	-
Vinyl chloride	MW 83	10/22/2016	0.0053	-	-	-
Vinyl chloride	MW 83	10/11/2017	0.0076	-	-	-
Vinyl chloride	MW 83	12/13/2018	0.012	-	-	-
Vinyl chloride	MW 83	11/03/2020	0.015	-	-	-
Vinyl chloride	MW 84	10/12/2015	0.001 U	-	-	-
Vinyl chloride	MW 84	10/24/2016	0.001 U	-	-	-
Vinyl chloride	MW 84	10/13/2017	0.001 U	-	-	-
Vinyl chloride	MW 84	10/4/2018	0.001 U	-	-	-
Vinyl chloride	MW 84	10/08/2019	0.001U	-	-	-
Vinyl chloride	MW 84	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 85	4/27/2015	0.37 J	-	-	detection frequency
Vinyl chloride	MW 85	10/19/2015	0.44	-	-	-
Vinyl chloride	MW 85	4/22/2016	0.34 J	-	-	detection frequency
Vinyl chloride	MW 85	4/22/2016	0.35 J	-	-	detection frequency
Vinyl chloride	MW 85	10/24/2016	0.42 J	-	-	-
Vinyl chloride	MW 85	4/18/2017	0.42	-	-	detection frequency
Vinyl chloride	MW 85	10/17/2017	0.45	-	-	-
Vinyl chloride	MW 85	4/12/2018	0.35 J	-	-	detection frequency
Vinyl chloride	MW 85	10/8/2018	0.68 **	yes	-	-
Vinyl chloride	MW 85	04/25/2019	0.32	-	-	-
Vinyl chloride	MW 85	11/03/2020	0.56	-	-	-
Vinyl chloride	MW 86	10/8/2015	0.001 U	-	-	-
Vinyl chloride	MW 86	10/22/2016	0.001 U	-	-	-
Vinyl chloride	MW 86	10/13/2017	0.001 U	-	-	-
Vinyl chloride	MW 86	10/4/2018	0.001 U	-	-	-
Vinyl chloride	MW 86	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW 88	10/8/2015	0.001	-	-	-
Vinyl chloride	MW 88	10/8/2015	0.00098 J	-	-	-
Vinyl chloride	MW 88	10/22/2016	0.0019	-	-	-
Vinyl chloride	MW 88	10/22/2016	0.0018	-	-	-
Vinyl chloride	MW 88	10/13/2017	0.0023	-	-	-
Vinyl chloride	MW 88	10/4/2018	0.0024	-	-	-
Vinyl chloride	MW 88	10/4/2018	0.0023	-	-	-
Vinyl chloride	MW 88	11/03/2020	0.0061	-	-	-
Vinyl chloride	MW 89-11	4/28/2015	0.001 U	-	-	detection frequency
Vinyl chloride	MW 89-11	10/15/2015	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/20/2016	0.001 U	-	-	detection frequency

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Vinyl chloride	MW 89-11	4/20/2016	0.001 U	-	-	detection frequency
Vinyl chloride	MW 89-11	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/19/2017	0.001 U	-	-	detection frequency
Vinyl chloride	MW 89-11	10/17/2017	0.001 U	-	-	-
Vinyl chloride	MW 89-11	4/11/2018	0.001 U	-	-	detection frequency
Vinyl chloride	MW 89-11	10/8/2018	0.001 U	-	-	-
Vinyl chloride	MW 89-11	04/25/2019	0.001U	-	-	-
Vinyl chloride	MW 89-11	11/03/2020	0.001U	-	-	-
Vinyl chloride	MW97R-16	10/25/2016	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/18/2017	0.001 U	-	-	-
Vinyl chloride	MW97R-16	10/9/2018	0.001 U	-	-	-
Vinyl chloride	MW97R-16	11/03/2020	0.001U	-	-	-
Vinyl chloride	Pond Intake	4/22/2016	0.0044	-	-	detection frequency
Vinyl chloride	Pond Intake	7/19/2016	0.0049	-	-	detection frequency
Vinyl chloride	Pond Intake	10/24/2016	0.0031	-	-	-
Vinyl chloride	Pond Intake	10/24/2016	0.0029	-	-	-
Vinyl chloride	Pond Intake	4/18/2017	0.0063	-	-	detection frequency
Vinyl chloride	Pond Intake	7/12/2017	0.0051	-	-	detection frequency
Vinyl chloride	Pond Intake	10/19/2017	0.0048	-	-	-
Vinyl chloride	Pond Intake	4/9/2018	0.013 **	yes	-	-
Vinyl chloride	Pond Intake	7/5/2018	0.0076	-	-	detection frequency
Vinyl chloride	Pond Intake	7/5/2018	0.0073	-	-	detection frequency
Vinyl chloride	Pond Intake	10/9/2018	0.005	-	-	-
Vinyl chloride	Pond Intake	04/25/2019	0.0089	-	-	-
Vinyl chloride	Pond Intake	04/25/2019	0.0086	-	-	-
Vinyl chloride	Pond Intake	10/08/2019	0.0039	-	-	detection frequency
Vinyl chloride	Pond Intake	11/03/2020	0.0039	-	-	-
Vinyl chloride	Pond North	4/22/2016	0.0078	-	-	-
Vinyl chloride	Pond North	7/19/2016	0.0064	-	-	detection frequency
Vinyl chloride	Pond North	7/19/2016	0.0062	-	-	detection frequency
Vinyl chloride	Pond North	10/24/2016	0.033 U *	-	High DL	-
Vinyl chloride	Pond North	4/18/2017	0.011	-	-	detection frequency
Vinyl chloride	Pond North	7/12/2017	0.0053	-	-	detection frequency
Vinyl chloride	Pond North	7/12/2017	0.0052	-	-	detection frequency
Vinyl chloride	Pond North	10/19/2017	0.017	-	-	-
Vinyl chloride	Pond North	4/9/2018	0.014	-	-	detection frequency
Vinyl chloride	Pond North	4/9/2018	0.018	-	-	detection frequency
Vinyl chloride	Pond North	7/5/2018	0.023 J	-	-	detection frequency
Vinyl chloride	Pond North	10/9/2018	0.0059 J	-	-	-
Vinyl chloride	Pond North	10/9/2018	0.0064 J	-	-	-
Vinyl chloride	Pond North	04/25/2019	0.0099	-	-	-
Vinyl chloride	Pond North	10/08/2019	0.0039J	-	-	detection frequency
Vinyl chloride	Pond North	10/08/2019	0.0040J	-	-	detection frequency
Vinyl chloride	Pond North	11/03/2020	0.011	-	-	-
Vinyl chloride	Pond North	11/03/2020	0.0091J	-	-	-

Notes:

* High DL - observation was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.
** Outliers

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								Statistic	Probability	Confidence in trend	Conclusion	
MW-2	TCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 3	TCE	2016 -- 2020	5	5	100%	2.1	8.5	-2	0.597	40%	NT or Decreasing	-2E-03
MW-4	TCE	2016 -- 2020	5	5	100%	0.8	2.4	-6	0.890	11%	NT or Decreasing	-9E-04
MW-7	TCE	2017 -- 2020	3	0	0%	0.001U	0.001U	--	--	--	--	--
MW 8	TCE	2016 -- 2020	5	5	100%	0.089	0.39	-8	0.957	4%	NT or Decreasing	-2E-04
MW 12	TCE	2016 -- 2020	5	2	40%	0.00028J	0.005 U	--	--	--	--	--
MW 14	TCE	2016 -- 2020	5	0	0%	0.001U	0.2 U	--	--	--	--	--
MW 15	TCE	2015 -- 2020	5	5	100%	2.5	4.1	-1	0.500	50%	NT or Decreasing	-1E-04
MW 16	TCE	2015 -- 2020	6	1	17%	0.001U	0.63U	--	--	--	--	--
MW 21	TCE	2015 -- 2020	5	1	20%	0.001U	0.0013	--	--	--	--	--
MW 28	TCE	2016 -- 2020	5	0	0%	0.04U	0.067U	--	--	--	--	--
MW 31R	TCE	2016 -- 2020	5	1	20%	0.038J	5U	--	--	--	--	--
MW 37	TCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 40	TCE	2016 -- 2020	5	4	80%	0.2U	0.36	-2	0.597	40%	NT or Decreasing	-1E-04
MW 41	TCE	2016 -- 2020	5	0	0%	0.001U	0.33 U	--	--	--	--	--
MW 42	TCE	2016 -- 2020	5	1	20%	0.0072	0.2 U	--	--	--	--	--
MW 46	TCE	2015 -- 2020	6	1	17%	0.00015 J	0.001U	--	--	--	--	--
MW 49	TCE	2018 -- 2020	3	3	100%	0.021J	0.047	--	--	--	--	--
MW 51	TCE	2016 -- 2019	4	4	100%	0.052	0.15	-4	0.334	67%	NT or Decreasing	-1E-04
MW 56	TCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 57	TCE	2015 -- 2020	5	0	0%	0.001 U	0.05U	--	--	--	--	--
MW 58	TCE	2015 -- 2020	5	0	0%	0.0057 U	0.2 U	--	--	--	--	--
MW 61	TCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 64	TCE	2015 -- 2020	5	0	0%	0.001U	0.01 U	--	--	--	--	--
MW 65	TCE	2015 -- 2020	5	1	20%	0.00027 J	0.002 U	--	--	--	--	--
MW 66	TCE	2016 -- 2020	5	0	0%	0.001U	0.2 U	--	--	--	--	--
MW 68	TCE	2016 -- 2020	5	5	100%	1.2	1.7	-9	0.978	2%	NT or Decreasing	-4E-04
MW 75	TCE	2016 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--
MW 76/MW 76R-17	TCE	2017 -- 2020	3	0	0%	0.001U	0.001U	--	--	--	--	--
MW 79	TCE	2016 -- 2020	5	0	0%	0.001U	0.1U	--	--	--	--	--
MW 80	TCE	2015 -- 2020	5	0	0%	0.001U	0.002 U	--	--	--	--	--
MW 81	TCE	2015 -- 2020	5	0	0%	0.001U	0.008 U	--	--	--	--	--
MW 82	TCE	2015 -- 2020	5	2	40%	0.00014 J	0.00097 J	--	--	--	--	--
MW 83	TCE	2015 -- 2020	5	1	20%	0.00045 J	0.001U	--	--	--	--	--
MW 84	TCE	2015 -- 2020	6	0	0%	0.001U	0.001U	--	--	--	--	--
MW 85	TCE	2016 -- 2020	5	0	0%	0.2U	0.56 U	--	--	--	--	--

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								Statistic	Probability	Confidence in trend	Conclusion	
MW 86	TCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 88	TCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 89-11	TCE	2016 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW97R-16	TCE	2016 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--
Pond Intake	TCE	2016 -- 2020	5	1	20%	0.001J	0.01 U	--	--	--	--	--
Pond North	TCE	2016 -- 2020	5	1	20%	0.0011J	0.033 U	--	--	--	--	--
MW-2	cis-1,2-DCE	2015 -- 2020	5	1	20%	0.001U	0.0014	--	--	--	--	--
MW 3	cis-1,2-DCE	2016 -- 2020	5	5	100%	0.63	4.8	-2	0.597	40%	NT or Decreasing	-8.5E-04
MW-4	cis-1,2-DCE	2016 -- 2020	5	5	100%	6.8	8.9	-2	0.597	40%	NT or Decreasing	-2.6E-04
MW-7	cis-1,2-DCE	2017 -- 2020	3	1	33%	0.00018 J	0.001U	--	--	--	--	--
MW 8	cis-1,2-DCE	2016 -- 2020	5	5	100%	1.4	4.3	-7	0.935	6%	NT or Decreasing	-2.3E-03
MW 12	cis-1,2-DCE	2016 -- 2020	5	5	100%	0.072	0.12	-8	0.957	4%	NT or Decreasing	-3.2E-05
MW 14	cis-1,2-DCE	2016 -- 2020	5	5	100%	3B	4.4	-8	0.957	4%	NT or Decreasing	-9.7E-04
MW 15	cis-1,2-DCE	2015 -- 2020	5	5	100%	1.7	5.4	0	0.500	50%	NT or Decreasing	-5.5E-04
MW 16	cis-1,2-DCE	2015 -- 2020	5	3	60%	0.00026 J	5.6B	--	--	--	--	--
MW 21	cis-1,2-DCE	2015 -- 2020	5	1	20%	0.00046 J	0.001U	--	--	--	--	--
MW 28	cis-1,2-DCE	2016 -- 2020	5	5	100%	0.86	1.3	9	0.022	98%	**Increasing**	2.1E-04
MW 31R	cis-1,2-DCE	2016 -- 2020	5	5	100%	16	95	0	0.500	50%	NT or Decreasing	9.4E-03
MW 37	cis-1,2-DCE	2015 -- 2020	5	0	0%	ND(0.001)J	ND(0.001)J	--	--	--	--	--
MW 40	cis-1,2-DCE	2016 -- 2020	5	5	100%	3.1	5.5	-6	0.890	11%	NT or Decreasing	-1.4E-03
MW 41	cis-1,2-DCE	2016 -- 2020	5	5	100%	4.2B	5.4	-6	0.890	11%	NT or Decreasing	-6.2E-04
MW 42	cis-1,2-DCE	2016 -- 2020	5	5	100%	2.4	3.7	-4	0.769	23%	NT or Decreasing	-6.3E-04
MW 46	cis-1,2-DCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 49	cis-1,2-DCE	2018 -- 2020	3	3	100%	0.6	0.89	--	--	--	--	--
MW 51	cis-1,2-DCE	2016 -- 2019	4	4	100%	0.012	0.16	6	0.084	92%	**Increasing**	1.5E-04
MW 56	cis-1,2-DCE	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 57	cis-1,2-DCE	2015 -- 2020	5	2	40%	0.001 U	0.18	--	--	--	--	--
MW 58	cis-1,2-DCE	2015 -- 2020	5	5	100%	0.028	3	8	0.043	96%	**Increasing**	2.4E-03
MW 61	cis-1,2-DCE	2015 -- 2020	5	1	20%	0.00035 J	0.001 UJB	--	--	--	--	--
MW 64	cis-1,2-DCE	2015 -- 2020	5	5	100%	0.062	0.32B	2	0.403	60%	NT or Decreasing	5.6E-05
MW 65	cis-1,2-DCE	2015 -- 2020	5	5	100%	0.0082B	0.051	-10	0.986	1%	NT or Decreasing	-2.0E-05
MW 66	cis-1,2-DCE	2016 -- 2020	5	5	100%	1.8	3.4	2	0.403	60%	NT or Decreasing	4.4E-04
MW 68	cis-1,2-DCE	2016 -- 2020	5	5	100%	3	4.4	1	0.500	50%	NT or Decreasing	1.8E-04
MW 75	cis-1,2-DCE	2016 -- 2020	4	1	25%	0.001U	0.0007 J	--	--	--	--	--
MW 76/MW 76R-17	cis-1,2-DCE	2017 -- 2020	3	3	100%	0.0027	0.0032B	--	--	--	--	--

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Mann-Kendall Trend test				Sen's Slope (units/day)
								Statistic	Probability	Confidence in trend	Conclusion	
MW 79	cis-1,2-DCE	2016 -- 2020	5	5	100%	1.5B	2.5	-4	0.769	23%	NT or Decreasing	-4.7E-04
MW 80	cis-1,2-DCE	2015 -- 2020	5	5	100%	0.0012 J	0.025	2	0.403	60%	NT or Decreasing	5.2E-06
MW 81	cis-1,2-DCE	2015 -- 2020	5	5	100%	0.057	0.19	-6	0.890	11%	NT or Decreasing	-4.2E-05
MW 82	cis-1,2-DCE	2015 -- 2020	5	2	40%	0.00041 J	0.002	--	--	--	--	--
MW 83	cis-1,2-DCE	2015 -- 2020	5	1	20%	0.00041 J	0.001U	--	--	--	--	--
MW 84	cis-1,2-DCE	2015 -- 2020	5	2	40%	0.00027 J	0.001	--	--	--	--	--
MW 85	cis-1,2-DCE	2016 -- 2020	5	5	100%	4.4	8.6	-6	0.890	11%	NT or Decreasing	-1.9E-03
MW 86	cis-1,2-DCE	2015 -- 2020	5	0	0%	ND(0.001)J	ND(0.001)J	--	--	--	--	--
MW 88	cis-1,2-DCE	2015 -- 2020	5	0	0%	ND(0.001)J	ND(0.001)J	--	--	--	--	--
MW 89-11	cis-1,2-DCE	2016 -- 2020	5	3	60%	0.0003 J	0.00059 J	--	--	--	--	--
MW97R-16	cis-1,2-DCE	2016 -- 2020	4	1	25%	0.001U	0.0012	--	--	--	--	--
Pond Intake	cis-1,2-DCE	2016 -- 2020	5	5	100%	0.036	0.12	6	0.110	89%	NT or Decreasing	4.9E-05
Pond North	cis-1,2-DCE	2016 -- 2020	5	5	100%	0.13	0.5	-4	0.769	23%	NT or Decreasing	-2.5E-04
MW-2	Vinyl chloride	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 3	Vinyl chloride	2015 -- 2020	6	2	33%	0.026	0.25 U	--	--	--	--	--
MW-4	Vinyl chloride	2015 -- 2020	6	6	100%	0.47	0.73	1	0.500	50%	NT or Decreasing	2E-05
MW-7	Vinyl chloride	2017 -- 2020	3	0	0%	0.001U	0.001U	--	--	--	--	--
MW 8	Vinyl chloride	2015 -- 2020	6	6	100%	0.64	1.5	-10	0.957	4%	NT or Decreasing	-5E-04
MW 12	Vinyl chloride	2015 -- 2020	6	1	17%	0.0005J	0.005 U	--	--	--	--	--
MW 14	Vinyl chloride	2015 -- 2020	6	6	100%	0.1J	0.15 J	-4	0.717	28%	NT or Decreasing	-9E-06
MW 15	Vinyl chloride	2015 -- 2020	5	4	80%	0.041	0.094 J	-2	0.597	40%	NT or Decreasing	-2E-05
MW 16	Vinyl chloride	2015 -- 2020	6	3	50%	0.001 U	0.63U	--	--	--	--	--
MW 21	Vinyl chloride	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 28	Vinyl chloride	2015 -- 2020	6	6	100%	0.13	0.21	-9	0.934	7%	NT or Decreasing	-5E-05
MW 31R	Vinyl chloride	2015 -- 2020	6	6	100%	1.7	9	5	0.226	77%	NT or Decreasing	1E-03
MW 37	Vinyl chloride	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 40	Vinyl chloride	2015 -- 2020	6	6	100%	0.18	0.44	-6	0.831	17%	NT or Decreasing	-8E-05
MW 41	Vinyl chloride	2015 -- 2020	6	6	100%	0.21 J	0.39	-9	0.934	7%	NT or Decreasing	-7E-05
MW 42	Vinyl chloride	2015 -- 2020	6	5	83%	0.087J	0.26	-1	0.500	50%	NT or Decreasing	-1E-05
MW 46	Vinyl chloride	2015 -- 2020	6	0	0%	0.001U	0.001U	--	--	--	--	--
MW 49	Vinyl chloride	2015 -- 2020	4	2	50%	0.012 J	0.033	--	--	--	--	--
MW 51	Vinyl chloride	2015 -- 2019	5	5	100%	0.0035 J	0.0079	-4	0.769	23%	NT or Decreasing	-2E-06
MW 56	Vinyl chloride	2015 -- 2020	5	1	20%	0.001 U	0.00066J	--	--	--	--	--
MW 57	Vinyl chloride	2015 -- 2020	5	5	100%	0.0037	0.98	6	0.110	89%	NT or Decreasing	1E-04
MW 58	Vinyl chloride	2015 -- 2020	5	5	100%	0.059	0.16	-2	0.597	40%	NT or Decreasing	-2E-05

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Location	Analyte	Date Range	Number of Samples	Number of Detects	Percent Detects	Minimum (mg/L)	Maximum (mg/L)	Mann-Kendall Trend test				Sen's Slope (units/day)
								Statistic	Probability	Confidence in trend	Conclusion	
MW 61	Vinyl chloride	2015 -- 2020	5	4	80%	0.001 U	0.0013	4	0.231	77%	NT or Decreasing	2E-07
MW 64	Vinyl chloride	2015 -- 2020	5	5	100%	0.03	0.089	6	0.110	89%	NT or Decreasing	3E-05
MW 65	Vinyl chloride	2015 -- 2020	5	5	100%	0.00049J	0.0014	-7	0.935	6%	NT or Decreasing	-4E-07
MW 66	Vinyl chloride	2015 -- 2020	5	5	100%	0.018	0.14	-8	0.957	4%	NT or Decreasing	-7E-05
MW 68	Vinyl chloride	2015 -- 2020	6	6	100%	0.11 J	0.23	8	0.090	91%	**Increasing**	3E-05
MW 75	Vinyl chloride	2016 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--
MW 76/MW 76R-17	Vinyl chloride	2017 -- 2020	3	1	33%	0.001 U	0.0016	--	--	--	--	--
MW 79	Vinyl chloride	2015 -- 2020	6	6	100%	0.13	0.6	13	0.012	99%	**Increasing**	2E-04
MW 80	Vinyl chloride	2015 -- 2020	5	5	100%	0.04	0.063	8	0.043	96%	**Increasing**	1E-05
MW 81	Vinyl chloride	2015 -- 2020	5	5	100%	0.026	0.062	-2	0.597	40%	NT or Decreasing	-9E-06
MW 82	Vinyl chloride	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 83	Vinyl chloride	2015 -- 2020	5	5	100%	0.0037	0.015	10	0.014	99%	**Increasing**	7E-06
MW 84	Vinyl chloride	2015 -- 2020	6	0	0%	0.001U	0.001U	--	--	--	--	--
MW 85	Vinyl chloride	2015 -- 2020	6	6	100%	0.32	0.68	3	0.354	65%	NT or Decreasing	6E-05
MW 86	Vinyl chloride	2015 -- 2020	5	0	0%	0.001U	0.001U	--	--	--	--	--
MW 88	Vinyl chloride	2015 -- 2020	5	5	100%	0.001	0.0061	10	0.014	99%	**Increasing**	2E-06
MW 89-11	Vinyl chloride	2015 -- 2020	6	0	0%	0.001U	0.001U	--	--	--	--	--
MW97R-16	Vinyl chloride	2016 -- 2020	4	0	0%	0.001U	0.001U	--	--	--	--	--
Pond Intake	Vinyl chloride	2016 -- 2020	5	5	100%	0.0031	0.0089	4	0.231	77%	NT or Decreasing	1.7E-06
Pond North [(1)]	Vinyl chloride	2016 -- 2020	5	5	100%	0.0064 J	0.017	2	0.403	60%	NT or Decreasing	8.1E-07

Notes:

[(1)] One observation (0.033 U mg/L in October 2016) was excluded excluded due to ambiguous comparisons with data analyzed at lower detection limits.

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found.
Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan,
a 1-sided test is performed).

about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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